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Welcome to Tenable Web App Scanning

Get Started with Tenable Web App Scanning

Tenable Web App Scanning (formerly known as Tenable.io Web Application Scanning) offers significant improvements over the existing Web Application Tests policy template provided by the Tenable Nessus scanner, which is incompatible with modern web applications that rely on Javascript and are built on HTML5. This leaves you with an incomplete understanding of your web application security posture.

Tenable Web App Scanning provides comprehensive vulnerability scanning for modern web applications. Tenable Web App Scanning's accurate vulnerability coverage minimizes false positives and false negatives, ensuring that security teams understand the true security risks in their web applications. The product offers safe external scanning that ensures production web applications are not disrupted or delayed, including those built using HTML5 and AJAX frameworks.

Note: Tenable Vulnerability Management can be purchased alone or as part of the Tenable One package. For more information, see Tenable One.

Tip: The Tenable Web App Scanning User Guide is available in English and Japanese. The Tenable Web App Scanning user interface is available in English, Japanese, and French. To switch the user interface language, see General Settings.

Tenable One Exposure Management Platform

Tenable One is an Exposure Management Platform to help organizations gain visibility across the modern attack surface, focus efforts to prevent likely attacks and accurately communicate cyber risk to support optimal business performance.

The platform combines the broadest vulnerability coverage spanning IT assets, cloud resources, containers, web apps and identity systems, builds on the speed and breadth of vulnerability coverage from Tenable Research and adds comprehensive analytics to prioritize actions and communicate cyber risk. Tenable One allows organizations to:

- Gain comprehensive visibility across the modern attack surface
- Anticipate threats and prioritize efforts to prevent attacks
- Communicate cyber risk to make better decisions
Tip: For additional information on getting started with Tenable One products, check out the Tenable One Deployment Guide.

Tenable Vulnerability Management API

See the API

The Tenable Vulnerability Management API can be leveraged to develop your own applications using various features of the Tenable Vulnerability Management platform, including scanning, creating policies, and user management.
Get Started with Tenable Web App Scanning

There are significant differences between scanning for vulnerabilities in web applications and scanning for traditional vulnerabilities with Tenable Nessus, Tenable Nessus Agents or Tenable Nessus Network Monitor. As a result, Tenable Web App Scanning (Tenable Web App Scanning) requires a different approach to vulnerability assessment and management.

Tenable Web App Scanning Application Topology

Tenable Web App Scanning offers significant improvements over the legacy Tenable Nessus-based web application scanning policy:
The legacy scanning template for Tenable Nessus is incompatible with modern web application frameworks such as Javascript, HTML 5, AJAX, or single page applications (SPA), among others, which can potentially leave you with an incomplete understanding of your web application security posture.

Tenable Web App Scanning provides comprehensive vulnerability scanning for modern web applications. Its accurate vulnerability coverage minimizes false positives and false negatives to ensure that security teams understand the true security risks in their web applications. It offers safe external scanning so that production web applications do not experience disruptions or delays.

Tenable Web App Scanning uses region-specific cloud scanners. There is no need for more scanners if your web application analysis scope includes only publicly available assets. If your web applications are not public, your installation plan depends on where your web applications run and your organization’s data storage needs.

**Use the following sequence to configure and manage your Tenable Web App Scanning deployment:**

1. **Prepare**
2. **Install**
3. **Configure Scans**
4. **Configure Additional Settings**

**Prepare**

Before you begin, familiarize yourself with Tenable Web App Scanning basics to establish a deployment plan and an analysis workflow for your implementation and configurations:

**Types of Tenable Web App Scanning Programs**

There are several viable ways to operate a web application scanning program based on dynamic application security testing (DAST) technology. Most programs use some combination of each approach to meet different needs for each site. The following list gives Tenable supported scan templates:
• **Scan**: The complete set of available checks which includes all other pre-built templates, except for the API scan.

• **Overview**: A simplified version of the “Scan” template without several active tests to lower its impact and speed up the scan.

• **PCI**: A special template used as part of the attestation offering that Tenable provides for the payment card industry (PCI) security standard. Only submissions to attestation consume PCI licenses; otherwise, this template is a simplified version of the “Scan” template.

• **SSL/TLS**: A health check scan focused on the current state of the web server encryption settings and certificate state (for example, the remaining time on the certificate).

• **Config Audit**: A compliance audit that detects externally viewable web server settings that external audit providers commonly review to evaluate the health of a security program.

• **API Scan**: A special template requiring more configuration to describe the application programming interface (API), so that the scanner can successfully detect relevant vulnerabilities. This includes some similar tests in the “Scan” template but adds others unique to API endpoints.

**Quick Surface-level Checks**

You typically use the “SSL_TLS” or “Config Audit” scan templates to run a rapid test — often lasting only minutes — on a more regular basis than in-depth scans to give you an overview of surface-level checks such as any certificate-type and encryption-type issues with a given site or commonly exposed configuration parameters that are not best practice.

• **Untuned Detailed Scans**: Without requiring tuning or refinement, this approach uses the “Scan” template to optimize detection of most vulnerabilities, and simulates drive-by style attacks that sites commonly experience. These scans deploy quickly and return valuable incremental visibility from the scan target while using basic validation to avoid obvious scan errors. However, this approach may run into timeouts (such as the eight-hour default in Tenable Vulnerability Management), or miss more complex sections of a site that requires authentication or fine-tuning for correct scans. These drawbacks are common with sites that have forums, blogs, large product volume, multiple languages, or a high number of pages.

• **Authenticated Detailed Scans**: While similar to the Untuned Detailed scan, this approach uses authentication. You can do this in the scan configuration page or in the Chrome
extension from Tenable. In addition to the benefits of an untuned scan, authenticated scans log on as a user to test for potential issues. Tenable recommends that you never log on as an admin user, especially in production (see the "Key Considerations" section). Authentication requires you to create and maintain the test user account and to update any unique site configurations.

- **Tuned Detailed Scans:** In addition to authentication, you can use other methods to optimize scans for speed or complexity (see “Key Considerations”). These refinements involve an initial time investment before deployment and may require semi-regular adjustments depending on the frequency of the site updates.

**Pre-production Scanning**

To limit scanner impact on a production site and maintain 100 percent uptime, you can consider integrating scans using the Tenable Vulnerability Management API to trigger a scan based on a weekly or monthly build, or a pre-production location on a regular schedule. This protects the more exposed production site which may differ from internal builds. This scanning approach works to varying degrees with most mature organizations and often depends on-site criticality and resource availability.

**API Scanning**

Organizations are increasingly adopting APIs to power web applications, B2B transactions, mobile applications, and automation scenarios. You can assess these potential exposures by using the API scanning template within Tenable Web App Scanning to provide critical visibility into more cyber risks. In general, high risk and exposure are drivers for mature programs or organizations to scan APIs more frequently. Ultimately, as the security program develops, many organizations proactively identify all vulnerable locations to ensure full coverage. This type of scan can require more input from development staff and rely on an OpenAPI file to provide the endpoint definitions for the scanner to communicate to the API itself.

**Decide Which Tenable Web App Scanning Program to Use**

Most programs start with a few scans based on the “SSL_TLS” or “Config Audit” templates to familiarize vulnerability managers with how to establish scans and review results. Then, they progress into running an untuned scan using the Tenable Web App Scanning scan template.
Timeouts are common when you first build out your program. The default scan completion timeout in Tenable Vulnerability Management is eight hours, and extending this may not “complete” the scan; this may only be achievable via tuning for greater speed.

It is viable to run a program based on untuned scans while accepting the timeout. As many web application vulnerabilities span multiple pages containing the same vulnerability, it is likely that a scan automatically detects a significant proportion of vulnerabilities within the first several hours. Tenable’s own monitoring can confirm this. Tuned scans typically improve scan efficiency and accuracy by only a small degree and cost more time to refine the scan configuration.

Most mature organizations tune scans on their most critical sites, which involve 10-20 minutes of effort per site and improves with operator experience. An organization’s level of knowledge and resource availability can determine the percentage of sites that undergo detailed tuning. It is rare to see all sites tuned, especially in organizations with many websites. This is due partly to the dynamic nature of websites; they often expand or change significantly every few years, and this requires a review of scan settings to adapt to the development pace of the test site.

• **Focus on the process first:** Start with the Tenable Web App Scanning “Scan” (a complete set of checks) or an “Overview” scan (fewer checks but lower impact) templates. Familiarize yourself with the scanner output and work with your teams to incorporate the findings into your workflows. Develop your mitigation and resolution programs.

• **Dig deeper into critical areas:** Once you have established some of the baseline procedures and identified the right owners within your organization for the output from the scanner, start investing time in more advanced-tuned scans to gain better visibility into your most important sites.

• **Take action:** The scans return a significant amount of data to drive organizational action. Consider the potential consumers of the data. Developers want details to identify necessary fixes and improve over time. Management must know which sites contribute the greatest risk to the business, and therefore allocate resources. Security leadership needs general category information such as the OWASP vulnerability categories for all sites to focus on a specific classification of vulnerabilities.

**Note:** Tenable Professional Services offers a highly recommended quick-start program for new users of Tenable Web App Scanning scanning to help establish the mechanics of developing a new program. Also, the ProServe team runs a workshop to establish the internal processes and initial goals of developing a
broader vulnerability management program. These services help organizations get a solid foundation and understanding of effective cybersecurity programs and familiarization with the product. Contact your Tenable sales representative at sales@tenable.com.

Key Considerations to Optimize Your Scan Results

1. **Identify where the location of the web application:**
   - **Public Websites**
     You can scan external websites from Tenable Vulnerability Management using the internet-based Tenable Web App Scanning or an on-premises scanner.
   - **Private Websites**
     You can scan internal or intranet web applications from Tenable Vulnerability Management using an on-premises Tenable Web App Scanning Scanner.

2. **Ensure that the scanner has a network route to the target:**
   If the scanner cannot reach the web application, or cannot deliver an input and retrieve results, scanning fails. Network constraints such as latency can affect scanning or network controls (for example, host-based firewalls, network firewalls, network segregation, etc.). Always include internal web application scanners on your "allow" list.

3. **Scanner location can impact latency or server response times**
   If there are too many timeouts during a scan, the session terminates. Choose a scanner located as close as possible to the targets. Review the sitemap plugin attachments to check for long page load times or timeouts. This can occur with too many concurrent tests on a slower server, a scanner that’s not close enough to the web application (such as scanning Australia from a US scanner), or the site setup that may lead to longer load times. Changing your scanner location can help to prevent readjustments for advanced settings that slow the scanner down. Counter-intuitively, slowing the **scan speed settings** can speed up results on a site that responds slowly, by lowering the rate of queries and adding less variability to the returned queries.

4. **The scanner acts as a user:**
   The scanner can follow links, press buttons, and simulate the actions of a user based on what it can access. There can be undesired interaction on the site as a result of its site discovery
phase. For example, if a user can send an email, the scanner can fill out forms and press the “send email” button potentially more than once. The scanner has no context for any specific button action, unless you teach it or exclude either the whole page or page element to prevent it from pressing a button unintentionally. (For more information, view our documentation on Scope Settings.) Keep in mind that excluding page elements to prevent such actions lowers the accuracy of the scan, so consider plans to scan sites like this in pre-production on a regular schedule.

5. **The scanner acts as many users:**

   With its default settings, the scanner can operate as several users navigating the website at the same time. On servers with good capacity, there is typically minimal impact from this activity. However, if the state of the server is unknown, you can de-tune the speed of the scan — at least for the first test — to alert to any potential site impact from simultaneous sessions. For more details on configuring such a test, see Advanced Settings.

6. **Customize tuning for each site; it requires effort, but it is optional.**

   Customized tuning generally applies to most websites because each web application is different. There are unique structures, sitemaps, third-party libraries, components, and custom code working together. Your investment in tuned scans depends on resource availability, criticality of the site, and impact to the business.

7. **When tuning for authentication, never run a Tenable Web App Scanning scan as a web site administrator in production – only in test or pre-production environments.**

   Running a web application scan with administrator credentials could create or delete users, or perform other undesired administrative functions.

8. **When tuning for speed, a rudimentary understanding of your sites can help accelerate DAST scans.**

   a. Review the sitemap plugin and associated file attachment.

   b. Configure your settings: Increase “Network Timeout,” or lower “Max Simultaneous Requests” and “Requests per Second,” if you experience significant page timeouts, or discover higher than five-second average page response times in the sitemap attachment.
c. Consider speeding up your scan settings if you obtain sub one-second responses and only minimal impact to the web server.

d. Deduplicate site content: The scanner does not test site text, image, and video content—only input fields and interactions. If you have redundant pages, such as a site that uses multiple languages but has the same underlying code, you only need to test one language version of the site.

e. Add more binary exclusions: Tenable Web App Scanning does not “test” text, images, or videos and decide which file extensions to exclude. The scan scope section provides a default set that you can adapt for a specific site.

f. Prioritize critical URLs: Identify the critical portions of the application, such as those ones forms that can return sensitive data. Add those URLs to the scope of your testing, either via “include” in the scan scope section, or through a manual crawl script. You can also consider whether these sites require testing in pre-production.

9. **When tuning for complexity, use session recordings to train the scanner.**

You can do this either by using the Tenable Chrome extension or Selenium IDE, and adding within the scope section of a scan configuration. With this process, you can perform manual crawling to ensure that the scanner can test a highly complex location within a site. For example, a site can require a specific series of button presses and a specific set of correct input values to reach a page that isn’t available any other way. You can record the steps to enable the scanner to play it back.

10. **Map out whether there is a web application firewall (WAF), web proxy, or load balancer between the scanner and the target:**

Some network devices can interfere with the scanning or completely invalidate the results. You may think it’s sufficient to receive only the “remote” view of results filtered by the firewall; however, it’s possible the WAF’s built-in protections only prevent one or two methods of executing the flaw. Gaining a full picture of the true state of the site is imperative to make risk-based decisions. Configure your WAF to support bypass functionality to allow specific IPs or a combination of IP and agent header strings to prove and authorize the incoming scan. A list of Tenable scanner IP ranges is available [here](#).

11. **Some sites can require specific browser identities:**
Check whether the application is compatible with the default user agent (configured as “WAS/%v” by default). If not, it may need a specific or commonly available header from a standard browser, such as Mozilla/5.0. Some server-side protections or a web application firewall can require a specific set of results. In this case, you can copy the user agent string from a known browser that can access the site successfully.

12. **Target critical sites with greater care at the outset:**

Is the target site production-facing, or in any other way critical? What is the business impact if the web application scanner causes a service disruption? Always perform the first scan of a site in a controlled manner, either with staff on-hand or within a pre-production environment. Once you understand the nature of the site, you can begin full automation.

For more information and guided product walk-throughs, visit our [Tenable Product Education YouTube channel](#). These short, instructional videos explain how to make the best use of Tenable Web App Scanning, including the authentication and tuning procedures mentioned above to help you secure your vulnerable web applications.

**Install**

1. **Preparation for Deployment**

   a. **Confirm requisite access to the Tenable Vulnerability Management platform and Tenable Web App Scanning application.** Create users with appropriate access to Tenable Web App Scanning for scanning and viewing of results. You can configure Role-Based Access Control (RBAC) to allow user access. You must have Administrative credentials for configuration.

   b. **Determine whether you need a local scanner.** You can deploy local or cloud-based scanners and connect them to Tenable Vulnerability Management. You can use these scanners on internet-facing web applications and development or pre-production environments (if suitable firewall rules apply).

   The [Tenable Core + Tenable Web App Scanning](#) scanner supports installation on VMware (.ova), Hyper-V (.zip), or a physical machine (.ISO). You can deploy it locally on-premises or within a cloud-based development environment to scan non-internet-facing web applications.
You can download the local scanner [here](#). Check that you have the following:

- Outbound access to https://cloud.tenable.com via port 443 to communicate with Tenable Vulnerability Management.
- Inbound access via HTTPS on port 8000 for browser access to the management interface.

2. **Identification and Planning**

   a. **Define the security objectives.** Why are we scanning, what do we hope to achieve, and what does success look like?

   b. **Determine scanning priorities.** Identify which target web applications are within the scope of quick scanning and which require more detailed scanning.

   c. **Ensure full coverage.** Determine whether there are any other (possibly unidentified) web servers, services, or applications that you need to scan, and how to find them.

3. **Documentation**

   a. **Track everything.** Produce and manage documentation that captures full details of the deployment requirements, deployed scanner resources (if applicable), web applications identified for scanning, and the tuning you applied to the scans with an accompanying rationale.

   b. **Communicate your findings.** Establish reporting requirements to identify: the recipients, the level of detail, and the frequency of the reports distribution. Developers may need PDFs, while ticketing systems require vulnerability details. Management often prefers a higher-level summary of overall exposure and risk reduction.

**Configure Scans**

After you prepare your analysis workflow and determine the scope of the web application assets, you can configure and run scans on those assets.

Tenable recommends that you first run high-level overview scans to help you determine the settings to configure for more in-depth scans.
1. Do one of the following:

   • To configure and run overview scans:
     1. Do one of the following:
        • To perform an overview scan to determine which web application targets Tenable Web App Scanning scans by default, create a scan using the **Overview scan template**.
        • To perform an overview scan to determine if your web application is compliant with common security industry standards, create a scan using the **Config Audit scan template**.

        **Note:** The Tenable-provided scan templates for overview scans do not require authentication. However, the plugin results from these scans can help you identify the types of credentials your web applications require for more in-depth scans.

     2. Review the **scan results**, along with your scanning strategy, and determine which configuration settings you want to adjust when you run your standard web application scans.

   • To configure and run standard scans:
     1. **Create a scan** using the template that best matches your assessment needs:
        • To perform a comprehensive vulnerability scan, select the **Scan** template.
        • To perform a scan to determine if your web application appropriately implements SSL/TLS public key encryption, select the **SSL TLS** template.

     2. (Optional) Configure your scan settings, including **user permissions**, and **plugin** settings.

        **Note:** You can also configure your **credentials** options in standard scans. However, you need to add credentials only if your web application requires them for authentication.

     3. Monitor the scan status.

2. **Launch** the scan.
3. **View** and analyze your scan results:

   - Analyze the findings.
   - Use the sitemap crawled as an input to detailed scanning, tuning and optimization, reviewing for page timeouts, length of time to access a page, errors, or opportunities to remove repetitive content.
   - Review the “Scan notes” for any higher priority concerns, which may provide suggestions for scan improvement.

4. Further tune your scans based on your business needs:

   a. **Experiment with advanced settings.** Perform scan tuning in a few locations based on the data gathered in the previous step. You can then update and deploy the scan for the targeted web applications. For more information, see

      - [Scope Settings](#)
      - [Assessment Settings](#)
      - [Advanced Settings](#)

**Note:** With a Tenable Web App Scanning trial license, you can run up to five scans concurrently using your cloud scanners. You can run any number of scans concurrently using on-premises scanners.

**Configure Additional Settings**

Configure other features, if necessary, and refine your existing configurations:

1. Add **credentials** to your scan:

   - If the scan must authenticate to the web application using methods required by your server's HTTP protocol, [add HTTP Server-Based authentication](#).
   - If the scan must authenticate to the web application using methods required by the web application, [add Web App authentication](#).

2. Download the [Tenable Web App Scanning Google Chrome Extension](#) to [configure Selenium credentials automatically](#).
3. Consider further custom adjustments, such as **scan settings**, **user permissions**, and **plugin** settings.

**Tip:** Each application is unique. Running scans and analyzing the results reveal techniques that help you run scans most efficiently and ensure coverage of all areas of the application. Depending on the size or complexity of the web application, the scan may finish allowing you to analyze the results for further optimization. Tenable highly recommends that you review the “scan notes” after a scan completes and the attachment to the sitemap plugin regularly.
Tenable Web App Scanning Licenses

Your Tenable Web App Scanning instance has a licensed asset limit that determines the number of web application assets you can scan for vulnerabilities. If you exceed your limit, you can temporarily continue to use Tenable Web App Scanning to scan your assets before adjusting your license as needed.

You can view your license information to see how many assets are currently counted against your Tenable Web App Scanning license. You can use this information to evaluate how effectively you are using your asset licenses.

How Assets are Counted

Tenable Web App Scanning determines asset count by the number of fully-qualified domain names (FQDNs) that Tenable Web App Scanning successfully scans for your user account. An asset does not count against your license limit until Tenable Web App Scanning has successfully scanned the asset for vulnerabilities.

FQDNs appear on your license as complete URLs. Per the RFC-3986 internet standard, each FQDN includes the following components and format:

```
hostname.parent domain.top-level domain
```

When you specify a web application target in a scan, Tenable Web App Scanning counts that target as a separate asset if any component of the FQDN differs from that of another scanned target or previously scanned asset. Multiple targets with different paths appended to the FQDN count as a single asset, as long as all components of the FQDNs match.

The following targets would count toward a single asset in Tenable Web App Scanning:

```
hostname.parent domain.top-level domain/path1
hostname.parent domain.top-level domain/path2
hostname.parent domain.top-level domain/path2/path3
```

**Note:** When a licensed target has not been scanned for 90 days, it ages out of the licensed count.

Example
In this example, Tenable Web App Scanning successfully scans the following target and counts it toward your licensed asset limit.

https://www.example.com

In the following table, targets in the first column would count as the same asset as the example asset, and targets in the second column would count as separate assets from the example.

<table>
<thead>
<tr>
<th>Same Asset</th>
<th>Separate Assets</th>
</tr>
</thead>
<tbody>
<tr>
<td>(all FQDN components</td>
<td>(FQDN components do not all match)</td>
</tr>
<tr>
<td>match)</td>
<td></td>
</tr>
<tr>
<td>• <a href="https://example.com/">https://example.com/</a></td>
<td>• <a href="https://en.example.com">https://en.example.com</a></td>
</tr>
<tr>
<td></td>
<td>(different hostname)</td>
</tr>
<tr>
<td></td>
<td>• <a href="https://www.ex-ample.com">https://www.ex-ample.com</a></td>
</tr>
<tr>
<td></td>
<td>(different parent domain)</td>
</tr>
<tr>
<td></td>
<td>• <a href="https://www.example.org">https://www.example.org</a></td>
</tr>
<tr>
<td></td>
<td>(different top-level domain)</td>
</tr>
</tbody>
</table>
Tenable Web App Scanning Requirements

Hardware Requirements

<table>
<thead>
<tr>
<th>Scenario</th>
<th>Hardware Recommendations</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tenable Web App Scanning up to four concurrent web applications.</td>
<td><strong>CPU</strong>: (4) 2 GHz cores</td>
</tr>
<tr>
<td></td>
<td><strong>Core Ram</strong>: 16 GB RAM</td>
</tr>
<tr>
<td></td>
<td><strong>Hard Drive</strong>: 25 GB</td>
</tr>
</tbody>
</table>

Application Requirements

All applications you want to scan must be compatible with Google Chrome, because Tenable Web App Scanning uses Google Chrome browsers to run certain plugins.
Log In to Tenable Web App Scanning

**Required Tenable Web App Scanning User Role:** Basic, Scan Operator, Standard, Scan Manager, or Administrator

Before you begin:

- Obtain credentials for your user account.

  **Note:** If you are an administrator logging in to your Tenable Web App Scanning instance for the first time, Tenable provides your first-time credentials during setup. After you log in for the first time, you can set your new password. If you are logging in to Tenable Vulnerability Management after initial setup, your username is the email address you used to register for your Tenable Web App Scanning account.

- Review the [System Requirements](https://cloud.tenable.com) in the *General Requirements User Guide* and confirm that your computer and browser meet the requirements.

To log in to Tenable Web App Scanning:

1. In a supported browser, navigate to [https://cloud.tenable.com](https://cloud.tenable.com).
   
   The login page appears.

2. In the username box, type your Tenable Web App Scanning username.

3. In the password box, type the Tenable Web App Scanning password you created during registration.

4. (Optional) To retain your username for later sessions, select the **Remember Me** check box.

5. Click **Sign In**.
   
   The landing page appears.

  **Note:** Tenable Web App Scanning logs you out after a period of inactivity (typically, 30 minutes).
Navigate Tenable Web App Scanning

Tenable Web App Scanning, includes several helpful shortcuts and tools that highlight important information and help you to navigate the user interface more efficiently:

**Quick Actions Menu**

The quick actions menu displays a list of the most commonly performed actions.

To access the quick actions menu:

1. In the upper-right corner, click the ✭ Quick Actions button.
   
The quick actions menu appears.

2. Click a link to begin one of the listed actions.

**Resource Center**

The Resource Center displays a list of informational resources including product announcements, Tenable blog posts, and user guide documentation.

To access the Resource Center:

1. In the upper-right corner, click the 📚 button.
   
The Resource Center menu appears.
2. Click a resource link to navigate to that resource.

**Notifications**

In Tenable Web App Scanning, the **Notifications** panel displays a list of system notifications. The `bell` button shows the current number of unseen notifications. When you open the **Notifications** panel, Tenable Web App Scanning marks those notifications as seen. Once you have seen a notification, you can clear it to remove it from the **Notifications** panel.

**Note:** Tenable Web App Scanning groups similar notifications together.

To view notifications:
• In the upper-right corner, click the button.

The **Notifications** panel appears and displays a list of system notifications.

In the **Notifications** panel, you can do the following:

- To clear one notification, next to the notification, click the \( \times \) button.

- To expand a group of notifications, at the bottom of the grouped notification, click **More Notifications**.

- To collapse an expanded group of notifications, at the top of the expanded notifications, click **Show Less**.

- To clear an expanded group of notifications, at the top of the expanded notifications, click **Clear Group**.

- To clear all notifications, at the bottom of the panel, click **Clear All**.

**Settings Icon**

**Workspace**

When you log in to Tenable, the **Workspace** page appears by default. On the **Workspace** page, you can switch between your Tenable applications or set a default application to skip the **Workspace** page in the future. You can also switch between your applications from the **Workspace** menu, which appears in the top navigation bar.

**Open the Workspace Menu**

To open the **Workspace** menu:

1. From any Tenable application, in the upper-right corner, click the \( \mathbf{e} \) button.

   The **Workspace** menu appears.
2. Click an application tile to open it.

**Important:** You must disable ad-blockers to access Tenable Cloud Security via the **Workspace** menu.

### View the Workspace Page

To view the Workspace page:

1. From any Tenable application, in the upper-right corner, click the button.

   The **Workspace** menu appears.

2. In the **Workspace** menu, click **Workspace**.

   The **Workspace** page appears.
Important: You must disable ad-blockers to access Tenable Cloud Security via the Workspace page.

Set a Default Application

When you log in to Tenable, the Workspace page appears by default. However, you can set a default application to skip the Workspace page in the future.

By default, users with the Administrator, Scan Manager, Scan Operator, Standard, and Basic roles can set a default application. If you have another role, contact your administrator and request the Manage permission under My Account. For more information, see Custom Roles.

To set a default login application:

1. Log in to Tenable.

   The Workspace page appears.

2. In the top-right corner of the application to choose, click the button.

   A menu appears.
3. In the menu, click **Make Default Login Page**.

   This application now appears when you log in.

**Remove a Default Application**

To remove a default login application:

1. Log in to Tenable.

   The **Workspace** page appears.

2. In the top-right corner of the application to remove, click the button.

   A menu appears.

3. Click **Remove Default Login Page**.

   The **Workspace** page now appears when you log in.

**User Account Menu**

The user account menu provides several quick actions for your user account.

1. In the upper-right corner, click the blue user circle.

   The user account menu appears.
2. Do one of the following:
   - Click **My Account** to configure your own user account. You navigate directly to the **My Account** settings page.
   - Log out of Tenable Web App Scanning.

For additional information about navigating the Tenable Web App Scanning interface, see the following topics:
Navigate Breadcrumbs

In the Tenable Web App Scanning interface, certain pages display breadcrumbs in the top navigation bar. From left to right, the breadcrumbs show the path of pages you visited to reach your current page:

To navigate breadcrumbs:

- In the top navigation bar, click a link in the breadcrumb trail to return to a previous page.
Navigate Planes

Tenable Web App Scanning combines fixed pages with overlapping planes.

To navigate planes in the new interface:

1. Access a plane using one of the following methods:
   - Click a widget on a dashboard.
   - Use the left navigation plane as follows:
     a. In the upper-left corner, click the button.
        The left navigation plane appears.
     b. In the left navigation plane, click a menu option.

   With the exception of the left navigation plane, planes open from the right side of the screen.

2. Manipulate a plane using the following buttons at the left edge of the plane:

<table>
<thead>
<tr>
<th>Button</th>
<th>Short Name</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>⚾</td>
<td>expand</td>
<td>Expand a plane. Some planes can expand to full screen.</td>
</tr>
<tr>
<td>⚊</td>
<td>retract</td>
<td>Retract an expanded plane to its default size.</td>
</tr>
<tr>
<td>✗</td>
<td>close</td>
<td>Close a plane.</td>
</tr>
<tr>
<td>←</td>
<td>expand preview</td>
<td>Expand a preview plane.</td>
</tr>
<tr>
<td>→</td>
<td>retract preview</td>
<td>Retract an expanded plane to the preview plane.</td>
</tr>
</tbody>
</table>

3. Return to a previous plane or page (and close a new plane or planes) by clicking the previous plane.
Tenable Web App Scanning Tables

Required Tenable Vulnerability Management User Role: Basic, VM Scan Operator, VM Standard, VM Scan Manager, or Administrator

Tenable Web App Scanning Workbench Tables

Tenable Vulnerability Management Workbench tables are any tables in the Tenable Vulnerability Management interface outside of the Explore section. These tables feature search and navigational capabilities. They also include the ability to drag and drop columns in any order, change column width, and sort the data in multiple columns at one time. For more information, see Tenable Web App Scanning Workbench Tables.

Explore Tables

Explore tables are any tables within the Explore section in the Tenable Vulnerability Management user interface. They include many of the features of Tenable Vulnerability Management Workbench tables, but include additional customization and filtering capabilities. For more information, see Explore Tables.
Tenable Web App Scanning Workbench Tables

**Required Tenable Web App Scanning User Role:** Basic, Scan Operator, Standard, Scan Manager, or Administrator

**Note:** Customizable tables also include the ability to access the actions buttons by right-clicking a table row. To access your browser menu, press the Ctrl key and right-click.

Tenable Web App Scanning Workbench tables are any tables in the Tenable Web App Scanning interface outside of the **Explore** section.

To interact with a Tenable Web App Scanning workbench table:

1. View a workbench table.
2. Do any of the following:

   - **Navigate the table:**
     - To adjust the sort order, click a column title.
       - Tenable Web App Scanning sorts all pages of the table by the data in the column you selected.
     - In Tenable Web App Scanning, to increase or decrease the number of rows displayed per page, click **Results per page** and select a number.
       - Tenable Web App Scanning refreshes the table.
     - To view all action buttons available in a table row, click the **button**.
       - This button appears instead of individual action buttons if 5 or more actions are possible for the row.
     - To navigate to another page of the table, click the arrows:

<table>
<thead>
<tr>
<th>Button</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>⬤</td>
<td>Navigate to the first page of the table.</td>
</tr>
<tr>
<td>⬤</td>
<td>Navigate to the previous or next page of the table.</td>
</tr>
</tbody>
</table>
Navigate to the last page of the table.

**Note:** Due to limitations, the total number of findings is not always known past the 1000 limit. In this case, the table may display a modified interface, changes in pagination labeling, and a disabled last page navigation button.

- **Search the table:**
  
  In the new interface, a search box appears above individual tables in various pages and planes. In some cases, the search box appears next to the **Filters** box.

  a. In the **Search** box, type your search criteria.

     Your search criteria depends on the type of data in the table you want to search.

  b. Click the **button.**

     Tenable Web App Scanning filters the table by your search criteria.

- **To change the column order,** drag and drop a column header to another position in the table.

- **Remove or add columns:**

  a. Roll over any column.

     The ** button appears in the header.

  b. Click the ** button.

     A column selection box appears.

  c. Select or clear the check box for any column you want to show or hide in the table.

     **Tip:** Use the search box to quickly find a column name.

     The table updates based on your selection.

- **Adjust column width:**
a. Roll over the header between two columns until the resize cursor appears.

Click and drag the column width to the desired width.

**Tip:** To automatically resize a column to the width of its content, double-click the right side of the column header.

- To sort data in the table, click a column header.

Tenable Web App Scanning sorts all pages of the table by the data in the column you selected.

- To sort data in the table by multiple columns, press **Shift** and click one or more column headers.

**Note:** Not all tables or columns support sorting by multiple columns.

Tenable Web App Scanning sorts all pages of the table in the order in which you selected the columns.
Filter a Table

**Required Tenable Vulnerability Management User Role**: Basic, VM Scan Operator, VM Standard, VM Scan Manager, or Administrator

In Tenable Web App Scanning, a Filters box appears above individual tables in various pages and planes.

To filter a table:

1. Next to Filters, click the button.
   
   The filter settings appear.

2. (Optional) In Tenable Vulnerability Management, to quick-select filters, click Select Filters.

   A drop-down list appears.
   
   a. In the drop-down list, search for the filter you want to apply.

   The list updates based on your search criteria.

   b. Select the check box next to the filter or filters you want to apply.

   The selected filters appear in the filter section.

3. In the Select Category drop-down box, select an attribute.

   For example, you might select Severity if filtering findings or Asset ID if filtering assets.

4. In the Select Operator drop-down box, select an operator.

   **Note**: When using the contains or does not contain operators, use the following best practices:

   - For the most accurate and complete search results, use full words in your search value.
   - Do not use periods in your search value.
   - Remember that when filtering assets, the search values are case sensitive.
• Where applicable, Tenable recommends using the **contains** or **does not contain** instead of the **is equal to** or **is not equal to** operators.

5. In the **Select Value** box, do one of the following:

<table>
<thead>
<tr>
<th>Value Type</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Text</td>
<td>Type the value on which you want to filter.</td>
</tr>
<tr>
<td></td>
<td>An example of the expected input is present in the box until you start typing. If what you type is invalid for the attribute, a red outline appears around the text box.</td>
</tr>
<tr>
<td>Single valid value</td>
<td>If a default value is associated with the attribute, Tenable Web App Scanning selects the default value automatically.</td>
</tr>
<tr>
<td></td>
<td>To change the default value, or if there is not an associated default value present:</td>
</tr>
<tr>
<td></td>
<td>a. Click the box to display the drop-down list.</td>
</tr>
<tr>
<td></td>
<td>b. Search for and select one of the listed values.</td>
</tr>
<tr>
<td>Multiple valid values</td>
<td>To select one or more values:</td>
</tr>
<tr>
<td></td>
<td>a. Click the box to display the drop-down list.</td>
</tr>
<tr>
<td></td>
<td>b. Search for and select a value.</td>
</tr>
<tr>
<td></td>
<td>The selected value appears in the box.</td>
</tr>
<tr>
<td></td>
<td>c. Repeat until you have selected all appropriate values</td>
</tr>
<tr>
<td></td>
<td>d. Click outside the drop-down list to close it.</td>
</tr>
<tr>
<td></td>
<td>To deselect values:</td>
</tr>
<tr>
<td></td>
<td>a. Roll over the value you want to remove.</td>
</tr>
<tr>
<td></td>
<td>The ✗ button appears over the value.</td>
</tr>
<tr>
<td></td>
<td>b. Click the ✗ button.</td>
</tr>
</tbody>
</table>
The value disappears from the box.

6. (Optional) In the lower-left corner of the filter section:
   - To add another filter, click the **Add** button.
   - To clear all filters, click the **Reset Filters** button.

7. Click **Apply**.
   Tenable Web App Scanning applies your filter or filters to the table.

8. (Optional) **Save** your filter or filters for later use.

9. (Optional) **Clear** the filters you applied:
   a. In the table header, click **Clear All Filters**.

   Tenable Web App Scanning clears all filters from the table, including saved searches.

   **Note:** Clearing filters does not change the date range selected in the upper-right corner of the page. For more information, see **Tenable Web App Scanning Tables**.
Deploy Tenable Web App Scanning as a Docker Image

You can deploy Tenable Web App Scanning (Tenable Web App Scanning) as a Docker image to run on a container. The base image is an Oracle Linux 8 instance of Tenable Web App Scanning. You can set up your Tenable Web App Scanning instance with environment variables to deploy the Docker image with configuration settings automatically.

**Note:** Tenable Web App Scanning does not have a command-line interface or configuration wizard, users must use environment variables to configure Tenable Web App Scanning.

**Note:** Tenable Web App Scanning docker image only works on AMD 64-bit systems and does not support ARM or Windows systems.

Before you begin:

- Download and install Docker for your operating system.
- Access the Tenable Web App Scanning Docker image from https://hub.docker.com/r/tenable/was-scanner.

To deploy Tenable Web App Scanning as a docker image:

1. Use the operators with the appropriate options for your deployment, as described in Operators.
2. Use the -e operator to set environment variables, as described in Environment Variables.

To Stop and Remove Tenable Web App Scanning as a Docker Image:

- To stop and remove the container, see Remove Tenable Web App Scanning as a Docker Container.

Operators

<table>
<thead>
<tr>
<th>Operator</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>--name</td>
<td>Sets the name of the container in Docker.</td>
</tr>
<tr>
<td>-d</td>
<td>Starts a container in detached mode.</td>
</tr>
<tr>
<td>-e</td>
<td>Precedes an environment variable.</td>
</tr>
</tbody>
</table>
For descriptions of environment variables you can set to configure settings in your Tenable Web App Scanning instance, see Environment Variables.

Environment Variables

Deploying a Tenable Web App Scanning image that is linked to Tenable Vulnerability Management.

<table>
<thead>
<tr>
<th>Variable</th>
<th>Required?</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>WAS_SCANNER_NAME</td>
<td>Yes</td>
<td>The name of the Tenable Web App Scanning scanner to appear in Tenable Vulnerability Management.</td>
</tr>
<tr>
<td>WAS_LINKING_KEY</td>
<td>Yes</td>
<td>The linking key from Tenable Vulnerability Management.</td>
</tr>
<tr>
<td>WAS_SCANNER_GROUPS</td>
<td>No</td>
<td>Scanner groups the scanner must be added to (e.g., &quot;scanner-group-1, sec-scanner-group&quot;).</td>
</tr>
<tr>
<td>WAS_AUTO_UNLINK_ON_EXIT</td>
<td>No</td>
<td>Automatically unlinks scanner when scanner stops.</td>
</tr>
<tr>
<td>WAS_PROXY_URL</td>
<td>No</td>
<td>URL to use for proxy to platform.</td>
</tr>
</tbody>
</table>
Remove Tenable Web App Scanning as a Docker Container

When you remove Tenable Web App Scanning running as a Docker container, you lose the container data.

To remove Tenable Web App Scanning as a docker container:

1. In your terminal, stop the container from running using the docker stop command.

   ```bash
   $ docker stop <container name>
   ```

2. Remove your container using the docker rm command.

   ```bash
   $ docker rm <container name>
   ```
Log Out of Tenable Web App Scanning

**Required Tenable Web App Scanning User Role:** Basic, Scan Operator, Standard, Scan Manager, or Administrator

To log out of Tenable Web App Scanning:

1. In the upper-right corner, click the button.
   The user account menu appears.

2. Click **Sign Out**.
Tenable Web App Scanning Dashboard

The default **Web Applications Scanning** dashboard shows the data that Tenable Web App Scanning collects.

**Required Tenable Web App Scanning User Role:** Basic, Scan Operator, Standard, Scan Manager, or Administrator

**Did You Know? Web Application Exposure:** The average exposure score for all applications across WAS customers is 460.

Tenable Web App Scanning uses several metrics to help you assess your risk:

- **Overall Score**
- **Asset Exposure Score (AES)**
- **Top Contributing Factors**
- **Remediation**
- **Prevention**

Tenable Web App Scanning Global Applications Health
The following tables describe the sections and widgets shown in the Global Applications Health section of the Web Applications Scanning dashboard. You can view details about the data in a widget by clicking the widget. The Global Applications Health widget in the left panel shows information for Total Apps, Vulnerabilities, and Unscanned applications:

![Global Applications Health widget]

**Overall Score**

The outer circle of the dashboard ring chart tracks the Asset Exposure Score (AES) of four of your scanned applications and a small Other segment of the remaining applications. You can click this segment to see the next four of your applications and their related details. Each segment's color changes along with the current AES score. The center of the dashboard ring chart shows your overall Cyber Exposure Score (CES) score and the color changes along with your current CES grade. For more information on your application details, see Findings.

**Tip: Dashboard Ring Chart** The inner circle represents the overall score across all applications (CES), while the outer ring represents individual application scores (AES). While the inner circle may appear healthy, you may have an unhealthy application appear in the outer ring.

<table>
<thead>
<tr>
<th>Widget</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall Score</td>
<td>Number of findings Tenable Web App Scanning has discovered. Tenable Web App Scanning categorizes the findings by severity (Critical and High). For information about vulnerability ratings and the severity metrics Tenable uses to analyze risk, see Severity vs. VPR in the Tenable Vulnerability Management User Guide.</td>
</tr>
<tr>
<td>Web Applications Scanned</td>
<td>Number of applications scanned over time.</td>
</tr>
<tr>
<td>Widget</td>
<td>Description</td>
</tr>
<tr>
<td>------------------------------</td>
<td>------------------------------------------------------------------</td>
</tr>
<tr>
<td>Incomplete Scans</td>
<td>Number of incomplete scans in the past 90 days.</td>
</tr>
<tr>
<td>Non-Authenticated Scans</td>
<td>Number of non-authenticated scans in the past 90 days.</td>
</tr>
</tbody>
</table>

**Asset Exposure Score (AES)**

Tenable Web App Scanning calculates a dynamic AES for each application on your network to represent the application's relative exposure as an integer between zero and 1000. A higher AES indicates higher exposure.

Tenable Web App Scanning calculates AES based on the current ACR (Tenable-provided or custom) and the VPRs associated with the application.

<table>
<thead>
<tr>
<th>AES Category</th>
<th>AES Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>High</td>
<td>650 to 1000</td>
</tr>
<tr>
<td>Medium</td>
<td>350 to 649</td>
</tr>
<tr>
<td>Low</td>
<td>0 to 349</td>
</tr>
</tbody>
</table>

**Note:** Asset Exposure Score (AES) is only available in Tenable Web App Scanning for customers with a valid Lumin license.

**Top Contributing Factors**

The list of top contributing factors in the right side of the user interface shows what severity classifications of scanned applications are present for your Tenable Web App Scanning instance. These items contribute to your overall scores. Investigate and address the following to help reduce your score:

- % of applications have critical, high, medium, or low risk
- % of applications have critical, high, medium, or low risk
• You have (xyz amount) application vulnerabilities

• You have an average of (xyz amount) vulnerabilities per application

**Note:** Tenable Web App Scanning only shows four items in the list. The first two always show the two highest severity risks applications available. The last two contributing factor items are always present in the dashboard.

Manage Your Application Exposure

**Remediation**

Remediation metrics help with addressing and resolving critical vulnerabilities and unauthenticated scans across your web applications.

<table>
<thead>
<tr>
<th>Widget</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fix Critical Vulnerabilities</td>
<td>Number of findings Tenable Web App Scanning has discovered. Tenable Web App Scanning categorizes the findings by severity <em>(Critical and High)</em>. For information about vulnerability ratings and the severity metrics Tenable uses to analyze risk, see <a href="#">Severity vs. VPR</a> in the <em>Tenable Vulnerability Management User Guide</em>.</td>
</tr>
<tr>
<td>Address Incomplete Scans</td>
<td>Number of non-authenticated scans in the past 90 days.</td>
</tr>
<tr>
<td></td>
<td><strong>Note:</strong> Incomplete scans are scans whose status is either aborted, canceled, or partial failure.</td>
</tr>
<tr>
<td>Address Non-Authenticated Scans</td>
<td>Number of non-authenticated scans in the past 90 days.</td>
</tr>
<tr>
<td>Fix OWASP Top 10 Vulnerabilities</td>
<td>Number of non-authenticated scans in the past 90 days.</td>
</tr>
</tbody>
</table>

**Prevention**
Prevention metrics help with early identification and mitigation of potential vulnerabilities from unscanned applications and total findings in your scanned applications.

<table>
<thead>
<tr>
<th>Widget</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Scan Unscanned Web Applications</td>
<td>Number of incomplete scans in the past 90 days.</td>
</tr>
<tr>
<td>Investigate Total Findings</td>
<td>Number of applications scanned over time.</td>
</tr>
</tbody>
</table>

**Tenable Web App Scanning Statistics**

The following table describes the widgets shown in the Statistics section of the Web Applications Scanning dashboard. You can view details about the data in a widget by clicking the widget.

<table>
<thead>
<tr>
<th>Widget</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Findings</td>
<td>Number of findings Tenable Web App Scanning has discovered. Tenable Web App Scanning categorizes the findings by severity (Critical and High). For information about vulnerability ratings and the severity metrics Tenable uses to analyze risk, see <a href="#">Severity vs. VPR</a> in the Tenable Vulnerability Management User Guide.</td>
</tr>
<tr>
<td>Web Assets Scanned</td>
<td>Number of assets scanned over time.</td>
</tr>
<tr>
<td>Incomplete Scans</td>
<td>Number of incomplete scans in the past 90 days.</td>
</tr>
<tr>
<td>Non-Authenticated Scans</td>
<td>Number of non-authenticated scans in the past 90 days.</td>
</tr>
</tbody>
</table>

**OWASP Top 10**

This chart shows the vulnerabilities discovered by Tenable Web App Scanning that appear in the latest Open Web Application Security Project (OWASP) Top 10 Most Critical Web Application Security Risks document.
Next Steps

To view scores and details of specific applications, see the following pages:

- [Scanned Applications](#)
- [Discovered Applications](#)
Scanned Applications

**Required Tenable Web App Scanning User Role:** Basic, Scan Operator, Standard, Scan Manager, or Administrator

On the **Applications** page, you can drill down to view only your **Scanned** applications. While on the **Scanned** applications tab, you can also export your scanned application assets. For more information, see [Export Applications](#).

To view your scanned applications:

1. In the upper-left corner, click the button.

   The left navigation plane appears.

2. In the left navigation plane, click **Applications**.

   The **Applications** page appears. By default, the **Scanned** tab is visible and applications visualizations are shown.
3. In the scanned applications table, you can perform any, or all, of the following actions by clicking the button:

- **Export** your asset.
- **Add a Tag** to your asset.
- **Remove Tag** from your asset.
- **Delete** the asset from your list.

You can view basic information about your scanned applications in the following table.

<table>
<thead>
<tr>
<th>Filter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACR</td>
<td>(Requires Tenable Lumin license)The asset’s ACR.</td>
</tr>
<tr>
<td>AES</td>
<td>(Requires Tenable Lumin license)The AES category of the AES calculated for the asset.</td>
</tr>
<tr>
<td>Asset ID</td>
<td>The asset’s UUID.</td>
</tr>
</tbody>
</table>
| Last Authenticated Scan | The date and time of the last authenticated scan run against the asset.  
An authenticated scan that only uses discovery plugins updates the **Last Authenticated Scan** field, but not the **Last Licensed Scan** field. |
| Last Licensed Scan | The time and date of the last scan that identified the asset as licensed.  
For more information about licensed assets, see [Tenable Web App Scanning Licenses](#). |
<p>| Last Scanned     | The date and time of the scan that most recently identified the asset.                                                                   |
| Licensed         | Specifies whether the asset is included in the asset count for the Tenable Web App Scanning instance.                                   |
| Name             | The asset identifier that Tenable Web App Scanning assigns based on the presence of certain asset attributes in the following order:           |
|                  | 1. Agent Name (if agent-scanned)                                                                                                          |
|                  | 2. NetBIOS Name                                                                                                                         |
|                  | 3. FQDN                                                                                                                                  |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>4.</td>
<td>IPv6 address</td>
</tr>
<tr>
<td>5.</td>
<td>IPv4 address</td>
</tr>
</tbody>
</table>

For example, if scans identify a NetBIOS name and an IPv4 address for an asset, the NetBIOS name appears as the Asset Name.

<table>
<thead>
<tr>
<th>Operating System</th>
<th>The operating system that a scan identified as installed on the asset.</th>
</tr>
</thead>
<tbody>
<tr>
<td>SSL/TLS</td>
<td>Specifies whether the application on which the asset is hosted uses SSL/TLS public-key encryption.</td>
</tr>
<tr>
<td>Tags</td>
<td>A unique filter that searches tag (category: value) pairs. When you type a tag value, you must use the category: value syntax, including the space after the colon (:). You can use commas (,) to separate values. If there is a comma in the tag name, insert a backslash () before the comma. You can add a maximum of 100 tags. For more information, see tags.</td>
</tr>
</tbody>
</table>

**Note:** If your tag name includes double quotation marks (""), you must use the UUID instead.
Discovered Applications

**Required Tenable Web App Scanning User Role:** Basic, Scan Operator, Standard, Scan Manager, or Administrator

On the **Applications** page, you can drill down to view only your **Discovered** applications.

To view your discovered applications:

1. In the upper-left corner, click the menu button.
   
   The left navigation plane appears.

2. In the left navigation plane, click **Applications**.
   
   The **Applications** page appears. By default, the **Scanned** tab is visible and applications visualizations are shown.

3. In the lower-left, click **Discovered**.
   
   The **Discovered** applications list appears.
4. In the discovered applications assets table, you can perform any, or all, of the following actions by clicking the button:

   - [Create a Scan](#).
   - [Add Tag](#) to your finding.
   - [Remove Tag](#) from your finding.
   - [Delete](#) the finding from your list.

You can view basic information about your discovered applications in the following table.

<table>
<thead>
<tr>
<th>Column</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Asset ID</strong></td>
<td>The UUID of the asset where a scan detected the vulnerability. This value is unique to Tenable Web App Scanning.</td>
</tr>
<tr>
<td><strong>Name</strong></td>
<td>The asset name. Tenable Web App Scanning assigns this identifier based on the presence of certain asset attributes in the following order:</td>
</tr>
<tr>
<td></td>
<td>1. Agent Name (if agent-scanned)</td>
</tr>
<tr>
<td></td>
<td>2. NetBIOS Name</td>
</tr>
<tr>
<td></td>
<td>3. FQDN</td>
</tr>
<tr>
<td></td>
<td>4. IPv6 address</td>
</tr>
<tr>
<td></td>
<td>5. IPv4 address</td>
</tr>
<tr>
<td></td>
<td>For example, if scans identify a NetBIOS name and an IPv4 address for an asset, the NetBIOS name appears as the asset name.</td>
</tr>
<tr>
<td></td>
<td>This column appears in the table by default.</td>
</tr>
<tr>
<td><strong>Host Name</strong></td>
<td>The hostname for the asset.</td>
</tr>
<tr>
<td><strong>Record Type</strong></td>
<td>The type of asset.</td>
</tr>
<tr>
<td><strong>Record Value</strong></td>
<td>The value of the asset.</td>
</tr>
<tr>
<td><strong>Domain</strong></td>
<td>The domain name for the asset.</td>
</tr>
<tr>
<td><strong>DNS (FQDN)</strong></td>
<td>The fully qualified domain name of the asset host.</td>
</tr>
<tr>
<td>---------------</td>
<td>--------------------------------------------------</td>
</tr>
<tr>
<td><strong>IP Address</strong></td>
<td>The IP address for the asset, if any.</td>
</tr>
<tr>
<td><strong>Hosting Provider</strong></td>
<td>The hosting provider for the asset.</td>
</tr>
<tr>
<td><strong>ASN</strong></td>
<td>The Autonomous System Number (ASN) of the asset.</td>
</tr>
<tr>
<td><strong>Licensed</strong></td>
<td>Specifies whether the asset is included in the asset count for Tenable Web App Scanning.</td>
</tr>
<tr>
<td><strong>Created Date</strong></td>
<td>The time and date when Tenable Vulnerability Management created the asset record.</td>
</tr>
<tr>
<td><strong>Updated Date</strong></td>
<td>The time and date when a user last updated the asset.</td>
</tr>
<tr>
<td><strong>Port</strong></td>
<td>The port associated with the asset.</td>
</tr>
<tr>
<td><strong>Actions</strong></td>
<td>The actions you can perform with the asset.</td>
</tr>
</tbody>
</table>
Export Application Assets

**Required Tenable Web App Scanning User Role:** Scan Operator, Standard, Scan Manager, or Administrator

On the **Applications** page, you can export assets in .csv or .json format. You can customize the asset exports that you create. You can schedule exports, send them to a particular email address, and set them to age out.

**Note:** You cannot export Domain Inventory assets.

Export Application Assets from the Applications Page

To export assets from the **Applications** page:

1. In the upper-left corner, click the button.
   
The left navigation plane appears.

2. In the left navigation plane, click **Applications**.
   
The **Applications** page appears.

3. On the left side, select the checkbox next to the assets to export. You can select up to 200 assets. If you need to export more than 200 assets, select all assets.
   
The action bar appears at the top of the table.

4. In the action bar, click **Export**.
   
The **Export** window appears.

5. (Optional) In the row for the finding, click the button.
   
The **Export** window appears.

6. In the **Export** window, configure the following settings:
   
a. (Optional) In the **Name** box, type a name for your export.
   
b. In the **Formats** section, click the export format to use:
<table>
<thead>
<tr>
<th>Format</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>.csv</td>
<td>A .csv file that contains a list of assets. <strong>Note:</strong> If your .csv export file includes a cell that begins with any of the following characters (=, +, -, @), Tenable Web App Scanning automatically inputs a single quote (’)) at the beginning of the cell. For more information, see the related knowledge base article.</td>
</tr>
<tr>
<td>.json</td>
<td>A .json file that contains a nested list of assets. Tenable Web App Scanning does not include empty fields in the .json file.</td>
</tr>
</tbody>
</table>

c. (Optional) In the **Configurations** section, select the checkboxes next to the fields to include. To view only selected fields, click **View Selected**. **Note:** If you modify your field selections, Tenable Web App Scanning retains them as default the next time you export from the **Assets** page.

d. (Optional) In the **Expiration** box, type the number of days before the export file ages out.

7. (Optional) Turn on the **Schedule** toggle to set a schedule for your export:

a. In the **Start Date and Time** section, select the date and time for the schedule to start. **Note:** When you schedule an export with filters that do not specify a certain date, those filters update the export as time passes. For example, if you schedule an export for assets that were **Last Seen after** March 15, 2023, Tenable Web App Scanning increases the export count every time it discovers more assets.

b. In the **Time Zone** drop-down box, select a time zone.

c. In the **Repeat** drop-down box, select how often you want the export to repeat.

d. In the **Repeat Ends** drop-down box, select the date when you want the schedule to end.
   If you select **Never**, the schedule repeats until you modify or delete the export schedule.

8. (Optional) Enable the **Email Notification** toggle to send email notifications on completion of the export:

a. In the **Add Recipients** box, type the email addresses to which you want to send a notification.
b. In the **Password** box, type a password for the export file. Share this password with the recipients to allow them to download the file.

9. Click **Export**.

Depending on the size of the export, Tenable Web App Scanning may take several minutes to finish processing the export. When processing completes, Tenable Web App Scanning downloads the export file to your computer.

If you close the **Export** window before the download completes, you can access your file in **Settings > Exports**.

Export an Asset from the Applications Details Page

To export an asset from the **Applications Details** page:

1. In the upper-left corner, click the **button.

   The left navigation plane appears.

2. In the left navigation window, click **Applications**.

   The **Applications** page appears.

3. Click the application asset to export.

4. In the top-right corner, click **Export**.

   The **Export** window appears.

5. In the **Export** window, add the following information:

   a. (Optional) In the **Name** box, type a name for your export.

   b. In the **Formats** section, click the export format to use:

<table>
<thead>
<tr>
<th>Format</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>.csv</td>
<td>A .csv file that contains a list of assets.</td>
</tr>
</tbody>
</table>

   **Note:** If your .csv export file includes a cell that begins with any
<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>of the following characters (=, +, -, @), Tenable Web App Scanning automatically inputs a single quote (') at the beginning of the cell. For more information, see the related knowledge base article.</td>
<td></td>
</tr>
<tr>
<td>.json</td>
<td>A .json file that contains a nested list of assets. Tenable Web App Scanning does not include empty fields in the .json file.</td>
</tr>
</tbody>
</table>

c. (Optional) In the **Configurations** section, select the checkboxes next to the fields to include. To view only selected fields, click **View Selected**.

**Note:** If you modify your field selections, Tenable Web App Scanning retains them as default the next time you export from the **Assets** page.

d. (Optional) In the **Expiration** box, type the number of days before the export file ages out.

6. (Optional) Turn on the **Schedule** toggle to set a schedule for your export:

   a. In the **Start Date and Time** section, select the date and time for the schedule to start.

   **Note:** When you schedule an export with filters that do not specify a certain date, those filters update the export as time passes. For example, if you schedule an export for assets that were **Last Seen after** March 15, 2023, Tenable Web App Scanning increases the export count every time it discovers more assets.

   b. In the **Time Zone** drop-down box, select a time zone.

   c. In the **Repeat** drop-down box, select how often you want the export to repeat.

   d. In the **Repeat Ends** drop-down box, select the date on which you want the schedule to end. If you select **Never**, the schedule repeats until you modify or delete the export schedule.

7. (Optional) Turn on the **Email Notification** toggle to send email notifications on completion of the export:

   a. In the **Add Recipients** box, type the email addresses to which you want to send a notification.

   b. In the **Password** box, type a password for the export file. Share this password with the recipients to allow them to download the file.
8. Click **Export**.

Tenable Vulnerability Management downloads the export file to your computer. If you close the **Export** window before the download completes, you can access your file in **Settings > Exports**.

**Note**: You can export all findings for an asset from the **Findings** tab of the **Details** page. For more information, see **Export Findings**.
Delete Assets

**Required Tenable Web App Scanning User Role:** Basic, Scan Operator, Standard, Scan Manager, or Administrator

When you delete an asset, Tenable Web App Scanning deletes the asset from the default view of the assets table, deletes vulnerability data associated with the asset, and stops matching scan results to the asset.

To delete a single asset:

1. In the upper-left corner, click the **button.

   The left navigation plane appears.

2. Do one of the following:

<table>
<thead>
<tr>
<th>Location</th>
<th>Action</th>
</tr>
</thead>
</table>
   | **Assets** page | a. **View** the assets table.  
   |                 | b. In the assets table, in the row for the asset you want to delete, click the **button.  
   |                 |       | A menu appears.  
   |                 | c. Click **Delete**.  
   |                 |       | A confirmation window appears.  
   | **Asset Details** page | a. **View** the asset details.  
   |                 | b. In the upper-right corner, click **Delete**.  
   |                 |       | A confirmation window appears.  

3. In the confirmation window, click **Delete**.

    Tenable Web App Scanning deletes the asset.

**To delete multiple assets:**

---

**Note:** Tenable Web App Scanning limits application deletion to 1,000 records at a time in the Applications table. If you select more than the 1,000 record limit (through individual selections or the Select All Applications function), the action button appears in the table’s toolbar.

---

1. In the upper-left corner, click the **button.

    The left navigation plane appears.

2. Do one of the following:

   - [View your Scanned Applications](#).
   - [View your Discovered Applications](#).

3. In the applications table, click the check box next to each asset you want to delete.

    The action bar appears at the bottom of the pagetop of the table.

4. In the action bar, click the **Delete** button.

    A confirmation window appears.
5. In the confirmation window, click **Delete**.

Tenable Web App Scanning deletes the selected assets.

---

### Applications Filter Search

**Required Tenable Web App Scanning User Role:** Basic, Scan Operator, Standard, Scan Manager, or Administrator

In the **Applications** section, you can filter your organization's applications and findings on the **Scanned** and **Discovered** pages. For a list of available filters, see [Discovered Applications](#) or [Scanned Applications](#).

To optimize performance, Tenable limits the number of Findings filters that you can apply to 18 and the number of Asset filters that you can apply to 35.

To filter a table in the **Applications** section:

1. In the upper-left corner, click the **button.

   The left navigation plane appears.

2. In the left navigation plane, click **Applications**.

   The **Applications** page appears. By default, the **Scanned** tab is visible and applications visualizations are shown.

3. Above your list of applications, click in the search box.
A drop-down box appears with the current filters as shown in the following image:

Tip: You can use the arrow keys to navigate the filter drop-down box and press the Enter key to select an option.

4. In the drop-down box, select the AND or OR conditions or type them in the text box.

5. In the drop-down box, select a filter or type its name in the text box.

6. In the drop-down box, select one of the following operators or type it in the text box.

Note: If you want to filter on a value that starts with ('), or includes ('), then you must wrap the value in quotation marks (").

Note: Filters can have a maximum of two nesting levels.

<table>
<thead>
<tr>
<th>Operator</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>exists</td>
<td>Filters for items for which the selected filter exists.</td>
</tr>
<tr>
<td>does not exist</td>
<td>Filters for items for which the selected filter does not exist.</td>
</tr>
<tr>
<td>Operator</td>
<td>Description</td>
</tr>
<tr>
<td>-----------------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>is equal to</td>
<td>Filters for items that match the filter value.</td>
</tr>
<tr>
<td>is not equal to</td>
<td>Filters for items that do not include the filter value.</td>
</tr>
<tr>
<td>is greater than</td>
<td>Filters for items with a value greater than the specified filter value.</td>
</tr>
<tr>
<td>is greater than or</td>
<td>If you want to include the value you specify in the filter, then use the is greater than or equal to operator.</td>
</tr>
<tr>
<td>equal to</td>
<td></td>
</tr>
<tr>
<td>is less than</td>
<td>Filters for items with a value less than the specified filter value.</td>
</tr>
<tr>
<td>is less than or</td>
<td>If you want to include the value you specify in the filter, then use the is less than or equal to operator.</td>
</tr>
<tr>
<td>equal to</td>
<td></td>
</tr>
<tr>
<td>within last</td>
<td>Filters for items with a date within a number of hours, days, months, or years before today. Type a number, then select a unit of time.</td>
</tr>
<tr>
<td>after</td>
<td>Filters for items with a date after the specified filter value.</td>
</tr>
<tr>
<td>before</td>
<td>Filters for items with a date before the specified filter value.</td>
</tr>
<tr>
<td>older than</td>
<td>Filters for items with a date more than a number of hours, days, months, or years before today. Type a number, then select a unit of time.</td>
</tr>
<tr>
<td>is on</td>
<td>Filters for items with a specified date.</td>
</tr>
<tr>
<td>between</td>
<td>Filters for items with a date between two specified dates.</td>
</tr>
<tr>
<td>contains</td>
<td>Filters for items that contain the specified filter value.</td>
</tr>
<tr>
<td>does not contain</td>
<td>Filters for items that do not contain the specified filter value.</td>
</tr>
<tr>
<td>wildcard</td>
<td>Filters for items with a wildcard (*) as follows:</td>
</tr>
<tr>
<td></td>
<td>• <strong>Begin or end with</strong> – Filters for values that begin or end with text you specify. For example, to find all values that begin with &quot;1&quot;, type 1*. To</td>
</tr>
<tr>
<td>Operator</td>
<td>Description</td>
</tr>
<tr>
<td>----------</td>
<td>-------------</td>
</tr>
<tr>
<td>find all values that end in &quot;1&quot;, type *1.</td>
<td></td>
</tr>
</tbody>
</table>
| • **Contains** – Filters for values that contain text you specify. For example, to find all values with a "1" between the first and last characters, type *1*.
| • **Turn off case sensitivity** – Filters for values without case sensitivity. For example, to search for findings with a **Plugin Name** of "TLS Version 1.2 Protocol Detection" or "tls version 1.2 protocol detection", type *tls version 1.2 protocol detection*. |

7. In the drop-down box, select a filter value or type one in the text box.

**Tip:** Some text filters support the character (*) as a wildcard to stand in for a section of text in the filter value. For example, if you want the filter to include all values that end in 1, type *1*. If you want the filter to include all values that begin with 1, type 1*.

You can also use the wildcard operator to filter for values that contain certain text. For example, if you want the filter to include all values with a 1 somewhere between the first and last characters, type *1*.

8. (Optional) To add or remove filters, do one of the following:

   • To add multiple filters, press **Space** and then select another condition, operator, filter, and value.
   
   • To remove one filter, click the ✗ button on the right side of the filter.
   
   • To remove all filters, click the ✗ button in the right corner of the text box.

9. Click **Apply**.

    Tenable Web App Scanning filters your data.

10. (Optional) **Save the filters** to access later or share with other team members.

**Tip:** Tenable Web App Scanning runs Findings searches in the background so that you can navigate away from the **Findings** page and return when a complex search is complete. You can also **Cancel** a search. Finally, Tenable Web App Scanning caches your most recent search for 30 minutes, notes the date and time in the top toolbar, and saves the state of the **Findings** page for your next visit.
View Application Details

**Required Additional License:** Tenable Web App Scanning

**Required Tenable Web App Scanning User Role:** Basic, Scan Operator, Standard, Scan Manager, or Administrator

To view details for a specific asset:

1. In the upper-left corner, click the button.
   The left navigation plane appears.

2. In the left navigation plane, click **Applications**.
   The Assets page appears. By default, the **Scanned** tab is visible.

3. (Optional) Refine the table data.

4. In the applications table, click the row for the application for which you want to see details.
   The **Application Details** page appears.
Tenable Web App Scanning Findings

**Required Additional License:** Tenable Web App Scanning

**Required Tenable Web App Scanning User Role:** Basic, Scan Operator, Standard, Scan Manager, or Administrator

The **Findings** page provides insight into your organization's vulnerability findings, and the applications on which Tenable Web App Scanning identified the finding. A finding is a single instance of a vulnerability appearing on an application, identified uniquely by plugin ID, port, and protocol.

The **Findings** page contains a list view of web application findings identified, organized by findings type. You can drill down to view findings for one of the following findings types. On the **Findings** page, you can drill down to view only vulnerability findings for your web application vulnerabilities.

**Note:** Tenable retains findings data for only 15 months.

To view your web application vulnerabilities findings:

1. In the upper-left corner, click the button.
   
   The left navigation plane appears.

2. The left navigation plane, click **Findings**.
   
   The **Findings** page appears, showing a table that lists your findings.

3. In the Findings table, you can perform any, or all, of the following actions by clicking the button:
   
   - **Accept** your finding.
   - **Export** your finding.
   - **View** all findings of the selected type.

You can view basic information about your web application vulnerability findings in the following table.

<table>
<thead>
<tr>
<th>Column</th>
<th>Description</th>
</tr>
</thead>
</table>

- 72 -
<table>
<thead>
<tr>
<th><strong>Application Name</strong></th>
<th>The name of the application where the scanner detected the vulnerability. This value is unique to Tenable Web App Scanning. This filter appears on the filter plane by default.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Severity</strong></td>
<td>The vulnerability's CVSS-based severity. For more information, see <a href="#">CVSS vs. VPR</a>. This column appears in the table by default.</td>
</tr>
<tr>
<td><strong>Name</strong></td>
<td>The name of the plugin that identified the vulnerability detected in the finding. This column appears in the table by default.</td>
</tr>
<tr>
<td><strong>Plugin ID</strong></td>
<td>The ID of the plugin that identified the vulnerability detected in the finding. This column appears in the table by default.</td>
</tr>
<tr>
<td><strong>Family</strong></td>
<td>The family of the plugin that identified the vulnerability. This column appears in the table by default.</td>
</tr>
<tr>
<td><strong>State</strong></td>
<td>The state of the vulnerability. This column appears in the table by default.</td>
</tr>
<tr>
<td><strong>Last Updated</strong></td>
<td>The date when a scan last found the vulnerability on an application. This column appears in the table by default.</td>
</tr>
<tr>
<td><strong>ID</strong></td>
<td>The UUID of the application where a scan detected the vulnerability. This value is unique to Tenable Web App Scanning.</td>
</tr>
<tr>
<td><strong>First Seen</strong></td>
<td>The date when a scan first found the vulnerability on an application.</td>
</tr>
</tbody>
</table>
View Findings Details

**Required Tenable Web App Scanning User Role:** Basic, Scan Operator, Standard, Scan Manager, or Administrator

On the **Findings** page, you can click a Tenable Web App Scanning vulnerability finding to view basic details about the finding in the preview panel.

To view details for a specific finding:

1. In the upper-left corner, click the button.
   
   The left navigation plane appears.

2. In the left navigation plane, click **Findings**.
   
   The **Findings** page appears, showing a table that lists your findings.

3. In the findings table, click the row for the finding for which you want to see details.
   
   The **Findings Details** page appears.

4. (Optional) In the upper-right corner, turn on **Include Info Severity** to list findings with info-level severity. This option is off by default. For more information on severity level, see [Vulnerability Severity Indicators](#).

The following tables describe the information that appears in each option:

<table>
<thead>
<tr>
<th>Section</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Description</strong></td>
<td>A description of the Tenable plugin that identified the vulnerability detected in the finding.</td>
</tr>
<tr>
<td><strong>Solution</strong></td>
<td>A brief summary of how you can remediate the vulnerability detected in the finding. Only appears if an official solution is available.</td>
</tr>
<tr>
<td><strong>See Also</strong></td>
<td>Links to external websites that contain helpful information about the vulnerability detected in the finding.</td>
</tr>
<tr>
<td><strong>Vulnerability Properties</strong></td>
<td>Information about the vulnerability that the plugin identified, including:</td>
</tr>
<tr>
<td></td>
<td>• <strong>Severity</strong> — The severity of the vulnerability.</td>
</tr>
<tr>
<td><strong>Exploitability</strong></td>
<td>Characteristics of the vulnerability that factor into its potential exploitability.</td>
</tr>
<tr>
<td>--------------------</td>
<td>----------------------------------------------------------------------------------</td>
</tr>
<tr>
<td><strong>Exploited With</strong></td>
<td>The most common ways that the vulnerability may be exploited.</td>
</tr>
<tr>
<td><strong>Vuln Published</strong></td>
<td>The date when the vulnerability definition was first published (for example, the date that the CVE was published).</td>
</tr>
<tr>
<td><strong>Patch Published</strong></td>
<td>The date on which the vendor published a patch for the vulnerability.</td>
</tr>
</tbody>
</table>

**Discovery**

Information about when Tenable Web App Scanning first discovered the vulnerability, including:

- **First Seen** — The date when a scan first found the vulnerability on an application.
- **Last Seen** — The date when a scan last found the vulnerability on an application.
- **Age** — The number of days since a scan first found the vulnerability on an application in your network.

**Plugin Details**

Information about the plugin that detected the vulnerability detected in the finding, including:

- **Plugin ID** — The ID of the plugin that identified the vulnerability detected in the finding.
- **Publication Date** — The date on which the plugin that identified the vulnerability was published.
- **Modification Date** — The date on which the plugin was last modified.
- **Family** — The family of the plugin that identified the vulnerability.
- **Severity** — The severity of the plugin that identified the vulnerability.

**Risk Information**

Information about the relative risk that the vulnerability presents to the affected asset, including:
| **Reference Information** | A list of references to third-party information about the vulnerability, exploit, or update associated with the plugin. |

- **Risk Factor** — The CVSS-based risk factor associated with the plugin.
- **Risk Modified** — Indicates any action applied to modify the risk for the plugin. Can be **Accept** or **Recast**.
- **CVSS3 Base Score** — The CVSSv3 base score (intrinsic and fundamental characteristics of a vulnerability that are constant over time and user environments).
- **CVSS3 Vector** — More CVSSv3 metrics for the vulnerability.
- **CVSS2 Base Score** — The CVSSv2 base score (intrinsic and fundamental characteristics of a vulnerability that are constant over time and user environments).
- **CVSS2 Vector** — More CVSSv2 metrics for the vulnerability.
Export Findings

On the Findings page, you can export findings in .csv or .json format. You can customize the exports that you create. You can schedule exports, send them to a particular email address, and set them to age out.

Export Findings from the Findings Page

To export findings from the Findings page:

1. In the upper-left corner, click the button. The left navigation plane appears.
2. In the left navigation plane, click Findings. The Findings page appears.
3. On the left side, select the checkbox next to the findings to export. You can select up to 200 findings. If you need to export more than 200 findings, select all findings. A drop-down box of options appears.
4. In the drop-down box, click Export. The Export plane appears.
5. In the Export plane, configure the following settings:
   a. (Optional) In the Name box, type a name for your export.
   b. In the Formats section, click the export format to use:

<table>
<thead>
<tr>
<th>Format</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>.csv</td>
<td>A .csv file that contains a list of findings.</td>
</tr>
</tbody>
</table>

**Note:** If your .csv export file includes a cell that begins with any of the following characters (=, +, -, @), Tenable Web App Scanning automatically inputs a single quote (’) at the beginning of the cell. For more information, see the related [knowledge base article](#).
c. (Optional) In the **Configurations** section, select the checkboxes next to the fields to include in the export. To view only selected fields, click **View Selected**.

**Note:** If you modify your field selections, Tenable Web App Scanning retains them as the default and applies them the next time you export from the **Findings** page.

d. (Optional) In the **Expiration** box, type the number of days before the export file ages out.

6. (Optional) Turn on the **Schedule** toggle to set a schedule for your export:

a. In the **Start Date and Time** section, select the date and time for the schedule to start.

b. In the **Time Zone** drop-down box, select a time zone.

c. In the **Repeat** drop-down box, select how often you want the export to repeat.

d. In the **Repeat Ends** drop-down box, select the date when you want the schedule to end. If you select **Never**, the schedule repeats until you modify or delete the export schedule.

7. (Optional) Enable the **Email Notification** toggle to send email notifications on completion of the export:

a. In the **Add Recipients** box, type the email addresses to which you want to send a notification.

b. In the **Password** box, type a password for the export file. Share this password with the recipients to allow them to download the file.

8. Click **Export**.

Depending on the size of the export, Tenable Web App Scanning may take several minutes to finish processing the export. When processing completes, Tenable Web App Scanning downloads the export file to your computer.

If you close the **Export** plane before the download completes, you can access your file in **Settings > Exports**.

---

**Export a Finding from the Finding Details Page**
To export a finding from the **Finding Details** page:

1. In the upper-left corner, click the button.
   
The left navigation plane appears.

2. In the left navigation plane, click **Findings**.
   
The **Findings** page appears.

3. Click the finding to export.

4. On the right side, click **See All Details**.
   
The **Finding Details** page appears.

5. In the top-right corner, click **Actions**.

6. In the drop-down list, click **Export**.
   
The **Export** plane appears.

7. In the **Export** plane, add the following information:

   a. (Optional) In the **Name** box, type a name for your export.

   b. In the **Formats** section, click the export format to use:

<table>
<thead>
<tr>
<th>Format</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>.csv</td>
<td>A .csv file that contains a list of findings.</td>
</tr>
<tr>
<td></td>
<td><strong>Note:</strong> If your .csv export file includes a cell that begins with any of the following characters (=, +, -, @), Tenable Vulnerability Management automatically inputs a single quote ('') at the beginning of the cell. For more information, see the related <a href="#">knowledge base article</a>.</td>
</tr>
<tr>
<td>.json</td>
<td>A .json file that contains a nested list of findings. Tenable Web App Scanning does not include empty fields in the .json file.</td>
</tr>
</tbody>
</table>

   c. (Optional) In the **Configurations** section, select the checkboxes next to the fields to include. To view only selected fields, click **View Selected**.
d. (Optional) In the Expiration box, type the number of days before the export file ages out.

8. (Optional) Turn on the Schedule toggle to set a schedule for your export:
   a. In the Start Date and Time section, select the date and time for the schedule to start.
   b. In the Time Zone drop-down box, select a time zone.
   c. In the Repeat drop-down box, select how often you want the export to repeat.
   d. In the Repeat Ends drop-down box, select the date on which you want the schedule to end. If you select Never, the schedule repeats until you modify or delete the export schedule.

9. (Optional) Turn on the Email Notification toggle to send email notifications on completion of the export:
   a. In the Add Recipients box, type the email addresses to which you want to send a notification.
   b. In the Password box, type a password for the export file. Share this password with the recipients to allow them to download the file.

10. Click Export.

Tenable Web App Scanning downloads the export file to your computer. If you close the Export plane before the download completes, you can access your file in Settings > Exports.
Generate a Report from Tenable Web App Scanning Findings

You can generate a report for one or more vulnerabilities from the Findings page.

To create a report from the Findings page:

1. In the upper-left corner, click the button.
   The left navigation plane appears.

2. In the left navigation plane, click Findings.
   The Findings page appears.

3. In the row, click the button.
   A drop-down box of options appears.

   - Accept
   - Recast
   - Export
   - Generate Report
   - View All Findings

4. In the drop-down box, click Generate Report.
   The Generate Report plane appears.
5. Select the findings for which you want to create a report.

<table>
<thead>
<tr>
<th>Scope</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Create a report for a single vulnerability</td>
<td>Do one of the following:</td>
</tr>
<tr>
<td></td>
<td>• In the <strong>Actions</strong> column, click the : button in the row for the</td>
</tr>
<tr>
<td></td>
<td>vulnerability for which you want to create a report.</td>
</tr>
<tr>
<td></td>
<td>The action options appear in the row.</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>Create a report for multiple vulnerabilities</td>
<td>Do one of the following:</td>
</tr>
<tr>
<td></td>
<td>• Select more than one vulnerability for which you want to create a</td>
</tr>
<tr>
<td></td>
<td>report. To select all vulnerabilities, select the check box at the top</td>
</tr>
<tr>
<td></td>
<td>of the list.</td>
</tr>
<tr>
<td></td>
<td>Tenable Web App Scanning enables the action bar.</td>
</tr>
</tbody>
</table>

6. Click **Generate Report**.

The **Generate Report** pop-up appears.
7. (Optional) In the **Name** box, type a new name for the report.

8. From the **Report Type** drop-down box, select a report type.

<table>
<thead>
<tr>
<th>Report Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Web App Scanning Executive Findings Report</td>
</tr>
<tr>
<td>Web App Scanning Vulnerability Finding Details By Asset Report</td>
</tr>
<tr>
<td>Web App Scanning Vulnerability Finding Details By Plugin Report</td>
</tr>
</tbody>
</table>

9. (Optional) Click the **Schedule** toggle to enable scheduling of the report.

   The fields to schedule the report appear.

   - To schedule a report, modify the following settings:
     - In the **Start Date** and **Time** box, select when to schedule the report. The default is the current date and time.
     - In the **Time Zone** box, select the required time zone or retain the default timezone.
     - In the **Repeat** drop-down box, select frequency of report generation: **Daily**, **Weekly**, **Monthly**, **Custom**, or **Does not repeat**. The default is **Daily**.
     - In the **Repeat Ends** drop-down box, select when you want the scheduling to end: **On** or **Never**. If you select **On**, specify a date in the **End Date** box for when you want the report scheduling to end.
     - In the **Add Recipients** box, type the email addresses of the recipients to whom you want to send the report.
     - Click **Schedule Report**.

   Tenable Web App Scanning schedules the report and displays a confirmation message.

10. Click **Generate Report**.

   Tenable Web App Scanning generates the report. In the notification message, you can click the **Report Results** link and view the new report on the **Report Results** page. The new report appears highlighted.
Create Recast/Accept Rules in Findings

In Tenable Web App Scanning, you can create rules that affect your vulnerability findings. Recast rules change the **severity** of host vulnerabilities or web application findings, while Accept rules accept the risk of these findings without modifying their severity. This topic describes how to create rules in the **Findings** page.

**Note:** If a rule is targeted by IP address, that rule applies to the specified IP in each network in which it is found. For more information, see **Networks** in the *Tenable Vulnerability Management User Guide*.

Create a Recast Rule in Findings

To create a Recast rule:

1. In the upper-left corner, click the **button.

   The left navigation plane appears.

2. In the left navigation plane, click **Findings**.

   The **Findings** page appears.

3. In the row for the finding to create a rule for, click the **button.

   A drop-down menu appears.

4. Click **Recast**.

   The **Recast** plane appears.

5. Complete the following options:

   a. **New Severity** – Select the desired severity level for the vulnerability.

   b. **Targets** – Select **All** to target all assets or **Custom** to specify targets that you want the rule to run against.

**Note:** If you set the **Targets** drop-down to **All**, a warning appears indicating that this option may override existing rules.
c. **Target Hosts** – Type one or more custom targets for the rule, if necessary. You can type a comma-separated list that includes any combination of IP addresses, IP ranges, CIDR, and hostnames.

**Caution:** For performance reasons, you can only specify 1000 comma-separated custom entries. If you need to target a larger number of custom entries, create multiple rules.

d. (Optional) **Expires** – Select when you want the rule to age out.

e. (Optional) **Comments** – Type a description of the rule. This option is only visible when the rule is modified.

6. Click **Save**.

Tenable Web App Scanning starts applying the rule to existing findings. This process may take some time, depending on the system load and the number of matching findings. Tenable Web App Scanning updates your dashboards, where a label appears to indicate how many instances of affected findings were recast.

**Note:** A recast rule does not affect the historical results of a scan.

### Create an Accept Rule in Findings

To create an Accept rule from the **Findings** workbench:

1. In the upper-left corner, click the **button.

   The left navigation plane appears.

2. In the left navigation plane click **Findings**.

3. In the row for the finding to create a rule for, click the **button.

   A drop-down menu appears.

4. Click **Accept**.

   The **Accept Risk** window appears.

5. Complete the following options:
a. **Targets** – Select All to target all assets or Custom to specify targets that you want the rule to run against.

b. **Target Hosts** – Type one or more custom targets for the rule, if necessary. You can type a comma-separated list that includes any combination of IP addresses, IP ranges, CIDR, and hostnames.

   **Caution:** For performance reasons, you can only specify 1000 comma-separated custom entries. If you need to target a larger number of custom entries, create multiple rules.

c. (Optional) **Expires** – Select when you want the rule to age out.

d. (Optional) **Comments** – Type a description of the rule. This option is only visible when the rule is modified.

6. (Optional) To report the vulnerability as a false positive:
   a. Enable the **Report as false positive** toggle.

      A **Message To Tenable** box appears.

   b. In the **Message to Tenable** box, type a description of the false positive.

7. Click **Save**.

   Tenable Web App Scanning starts applying the rule to existing findings. This process may take some time, depending on the system load and the number of matching findings.
Vulnerability Severity Indicators

Tenable assigns all vulnerabilities a severity (Info, Low, Medium, High, or Critical) based on the vulnerability’s static CVSSv2 score

The Tenable Web App Scanning interface uses different icons for each severity category and accepted or recasted status. For more information on recasting, see Create Recast Rules in Findings.

<table>
<thead>
<tr>
<th>Icon</th>
<th>Category</th>
<th>And</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Icon" /></td>
<td>Critical</td>
<td>You have not accepted or recasted the risk.</td>
</tr>
<tr>
<td><img src="image" alt="Icon" /></td>
<td>Critical</td>
<td>You accepted the risk.</td>
</tr>
<tr>
<td><img src="image" alt="Icon" /></td>
<td>Critical</td>
<td>You recasted the severity to Critical.</td>
</tr>
<tr>
<td><img src="image" alt="Icon" /></td>
<td>High</td>
<td>You have not accepted or recasted the risk.</td>
</tr>
<tr>
<td><img src="image" alt="Icon" /></td>
<td>High</td>
<td>You accepted the risk.</td>
</tr>
<tr>
<td><img src="image" alt="Icon" /></td>
<td>High</td>
<td>You recasted the severity to High.</td>
</tr>
<tr>
<td><img src="image" alt="Icon" /></td>
<td>Medium</td>
<td>You have not accepted or recasted the risk.</td>
</tr>
<tr>
<td><img src="image" alt="Icon" /></td>
<td>Medium</td>
<td>You accepted the risk.</td>
</tr>
<tr>
<td><img src="image" alt="Icon" /></td>
<td>Medium</td>
<td>You recasted the severity to Medium.</td>
</tr>
<tr>
<td><img src="image" alt="Icon" /></td>
<td>Low</td>
<td>You have not accepted or recasted the risk.</td>
</tr>
<tr>
<td><img src="image" alt="Icon" /></td>
<td>Low</td>
<td>You accepted the risk.</td>
</tr>
<tr>
<td><img src="image" alt="Icon" /></td>
<td>Low</td>
<td>You recasted the severity to Low.</td>
</tr>
<tr>
<td><img src="image" alt="Icon" /></td>
<td>Info</td>
<td>You have not accepted or recasted the risk.</td>
</tr>
<tr>
<td><img src="image" alt="Icon" /></td>
<td>Info</td>
<td>You accepted the risk.</td>
</tr>
<tr>
<td><img src="image" alt="Icon" /></td>
<td>Info</td>
<td>You recasted the severity to Info.</td>
</tr>
</tbody>
</table>
## Vulnerability States

Tenable assigns a vulnerability state to all vulnerabilities detected on your network. You can track and filter by vulnerability state to see the detection, resolution, and reappearance of vulnerabilities over time.

### Vulnerability State Tracking Now Available
As of January 2024, new, or additional scans run on your assets with existing vulnerabilities may result in remediated vulnerabilities. Users can expect to see this change in the Tenable Web App Scanning and the Tenable Vulnerability Management Explore workbench. While no action is required, Tenable recommends you run one or more scans to see these updates.

**Note:** This feature is currently not available in Tenable Web App Scanning FedRAMP Moderate.

**Note:** If you filter vulnerabilities using the Active state, Tenable Web App Scanning also returns vulnerabilities in the New state. For filtering purposes, New is a sub-category of Active.

<table>
<thead>
<tr>
<th>Vulnerability State</th>
<th>Visibility</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>New</td>
<td>Visible in dashboards</td>
<td>On the Explore page, <strong>New</strong> indicates that Tenable Web App Scanning detected the vulnerability one time. On the vulnerability assets and findings tabs, <strong>New</strong> indicates that Tenable Web App Scanning detected the vulnerability one time or multiple times up to 14 days after the original detection.</td>
</tr>
<tr>
<td>Active</td>
<td>Visible in dashboards</td>
<td>On the Explore page, <strong>Active</strong> indicates that Tenable Web App Scanning detected the vulnerability more than one time. On the vulnerability assets and findings tabs, <strong>Active</strong> indicates that Tenable Web App Scanning detected the vulnerability more than one time, and that the first detection occurred more than 14 days ago.</td>
</tr>
<tr>
<td>Fixed</td>
<td>Hidden in dashboards, but visible with</td>
<td>The vulnerability was present on a host, but is no longer present.</td>
</tr>
<tr>
<td>Vulnerability State</td>
<td>Visibility</td>
<td>Description</td>
</tr>
<tr>
<td>---------------------</td>
<td>--------------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>filters</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
| Resurfaced          | Visible in dashboards | The vulnerability was previously marked as fixed on a host, but Tenable Web App Scanning detected it again. When a vulnerability is **Resurfaced**, it remains in this state until:  
  • A later scan identifies the vulnerability as remediated, at which point the vulnerability returns to a **Fixed** state. |
## Findings Filters

On the **Findings** page, you can view analytics.

### Web Application Findings Filters

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Asset ID</strong></td>
<td>The UUID of the asset where a scan detected the vulnerability.</td>
</tr>
<tr>
<td><strong>Asset Name</strong></td>
<td>The name of the asset where the scanner detected the vulnerability. This filter appears on the filter plane by default.</td>
</tr>
<tr>
<td><strong>Bugtraq ID</strong></td>
<td>The Bugtraq ID for the plugin that identified the vulnerability.</td>
</tr>
<tr>
<td><strong>CPE</strong></td>
<td>The Common Platform Enumeration (CPE) numbers for vulnerabilities that the plugin identifies.</td>
</tr>
<tr>
<td><strong>CVE</strong></td>
<td>The Common Vulnerability and Exposure (CVE) IDs for the vulnerabilities that the plugin identifies.</td>
</tr>
<tr>
<td><strong>CVSSv2 Base Score</strong></td>
<td>The CVSSv2 base score (intrinsic and fundamental characteristics of a vulnerability that are constant over time and user environments).</td>
</tr>
<tr>
<td><strong>CVSSv2 Vector</strong></td>
<td>The raw CVSSv2 metrics for the vulnerability. For more information, see CVSSv2 documentation.</td>
</tr>
<tr>
<td><strong>CVSSv3 Base Score</strong></td>
<td>The CVSSv3 base score (intrinsic and fundamental characteristics of a vulnerability that are constant over time and user environments).</td>
</tr>
<tr>
<td><strong>CVSSv3 Vector</strong></td>
<td>More CVSSv3 metrics for the vulnerability.</td>
</tr>
<tr>
<td><strong>CWE</strong></td>
<td>The Common Weakness Enumeration (CWE) for the vulnerability.</td>
</tr>
<tr>
<td><strong>First Seen</strong></td>
<td>The date when a scan first found the vulnerability on an asset.</td>
</tr>
<tr>
<td><strong>Input Name</strong></td>
<td>The name of the specific web application component that the vulnerability exploits.</td>
</tr>
<tr>
<td><strong>Input Type</strong></td>
<td>The web application component type (for example, form, cookie, header) that the vulnerability exploits.</td>
</tr>
<tr>
<td>Last Observed</td>
<td>The date when a scan last observed the finding.</td>
</tr>
<tr>
<td>--------------</td>
<td>-------------------------------------------------</td>
</tr>
<tr>
<td>Original Severity</td>
<td>The vulnerability's CVSS-based severity when a scan first detected the finding. For more information, see <a href="#">CVSS vs. VPR</a>.</td>
</tr>
<tr>
<td>OWASP 2010</td>
<td>The Open Web Application Security Project (OWASP) 2010 category for the vulnerability targeted by the plugin.</td>
</tr>
<tr>
<td>OWASP 2013</td>
<td>The Open Web Application Security Project (OWASP) 2013 category for the vulnerability targeted by the plugin.</td>
</tr>
<tr>
<td>OWASP 2017</td>
<td>The Open Web Application Security Project (OWASP) 2017 category for the vulnerability targeted by the plugin.</td>
</tr>
<tr>
<td>OWASP 2021</td>
<td>The Open Web Application Security Project (OWASP) 2021 category for the vulnerability targeted by the plugin.</td>
</tr>
<tr>
<td>OWASP API 2019</td>
<td>The Open Web Application Security Project (OWASP) 2019 category for the API vulnerability targeted by the plugin. Possible options are:</td>
</tr>
<tr>
<td></td>
<td>- API1:2019 Broken Object Level Authorization</td>
</tr>
<tr>
<td></td>
<td>- API2:2019 Broken User Authentication</td>
</tr>
<tr>
<td></td>
<td>- API3:2019 Excessive Data Exposure</td>
</tr>
<tr>
<td></td>
<td>- API4:2019 Lack of Resources &amp; Rate Limiting</td>
</tr>
<tr>
<td></td>
<td>- API5:2019 Broken Function Level Authorization</td>
</tr>
<tr>
<td></td>
<td>- API6:2019 Mass Assignment</td>
</tr>
<tr>
<td></td>
<td>- API7:2019 Security Misconfiguration</td>
</tr>
<tr>
<td></td>
<td>- API8:2019 Injection</td>
</tr>
<tr>
<td></td>
<td>- API9:2019 Improper Assets Management</td>
</tr>
<tr>
<td></td>
<td>- API10:2019 Insufficient Logging &amp; Monitoring</td>
</tr>
<tr>
<td>Plugin Description</td>
<td>The description of the Tenable plugin that identified the vulnerability detected in the finding.</td>
</tr>
<tr>
<td><strong>Plugin Family</strong></td>
<td>The family of the plugin that identified the vulnerability.</td>
</tr>
<tr>
<td>--------------------</td>
<td>-------------------------------------------------------------</td>
</tr>
</tbody>
</table>
| **Plugin ID**      | The ID of the plugin that identified the vulnerability detected in the finding.  
This filter appears in the filters plane by default. |
| **Plugin Modification Date** | The date on which the plugin was last modified. |
| **Plugin Name**    | The name of the plugin that identified the audit finding.  
This filter appears in the filters plane by default. |
| **Plugin Published** | The date on which the plugin that identified the vulnerability was published. |
| **Risk Modified**  | The risk modification applied to the vulnerability's severity. Possible options are:  
  - Recast  
  - Accepted  
  - None  
For more information, see Recast/Accept Rules. |
| **Severity**       | The CVSS score-based severity. For more information, see CVSS Scores vs. VPR in the Tenable Vulnerability Management User Guide.  
This filter appears in the filters plane by default, with Critical, High, Medium, and Low selected. |
| **Solution**       | A brief summary of how you can remediate the vulnerability detected in the finding. |
| **State**          | The state of the vulnerability detected in the finding. For more information, see Vulnerability States.  
This filter appears in the filters plane by default, with Active and Resurfaced selected. |
<table>
<thead>
<tr>
<th><strong>Url</strong></th>
<th>The complete URL on which the scanner detected the vulnerability. This filter appears in the filters plane by default.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>WASC</strong></td>
<td>The Web Application Security Consortium (WASC) category associated with the vulnerability targeted by the plugin.</td>
</tr>
</tbody>
</table>
Group Your Findings

**Required Tenable Web App Scanning User Role:** Scan Operator, Standard, Scan Manager, or Administrator

On the **Findings** page, you can group your vulnerability findings by specific attributes.

**Note:** When using the **Group By** feature, you can only export up to five findings at one time.

To group your vulnerability findings:

1. In the upper-left corner, click the button.
   The left navigation plane appears.
2. In the left navigation plane, click **Findings**.
   The **Findings** page appears, showing a table that lists your findings. By default, **Group by None** is active.
3. (Optional) To analyze web application vulnerability findings, click the **Web Application Findings** tab.
4. Do one of the following:

To group your web application findings:

**Note:** To optimize performance, Tenable limits the number of filters you can apply to any **Explore > Findings or Assets** views (including **Group By** tables) to seven.

a. At the top of the **Web Application Findings** table, next to **Group By**, click one of the following attributes by which to group your findings.

   **Note:** By default, the **None** group by setting is active, so your findings display ungrouped.

   - **Asset** — The unique name for the web application associated with the affected asset.
- **Plugin** – The ID of the web application resource type (for example, a resource group or virtual machine).

The web application findings table appears with your findings grouped by the selected attribute.

b. (Optional) View the following details about your grouped findings.

**Note:** The details that appear in the table vary based on the attribute you select to group your findings.

<table>
<thead>
<tr>
<th>Column</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Asset Name</td>
<td>The name of the asset where a scan detected the vulnerability. This value is unique to Tenable Vulnerability Management.</td>
</tr>
<tr>
<td>Vulnerabilities</td>
<td>A descriptive image that indicates vulnerability percentages by CVSS-based severity for each set of grouped findings. For more information, see <a href="#">CVSS vs. VPR</a>.</td>
</tr>
<tr>
<td>Critical</td>
<td>The number of vulnerabilities with a critical CVSS-based severity rating on each set of grouped findings. For more information, see <a href="#">CVSS vs. VPR</a>.</td>
</tr>
<tr>
<td>High</td>
<td>The number of vulnerabilities with a high CVSS-based severity rating on each set of grouped findings. For more information, see <a href="#">CVSS vs. VPR</a>.</td>
</tr>
<tr>
<td>Vuln Count</td>
<td>The number of vulnerabilities that Tenable Vulnerability Management identified on each set of grouped findings.</td>
</tr>
<tr>
<td>Last Seen</td>
<td>The date and time when a scan last found the vulnerability on the asset.</td>
</tr>
<tr>
<td>Actions</td>
<td>The actions you can perform with each set of grouped</td>
</tr>
<tr>
<td>Plugin</td>
<td>The name of the plugin that identified the vulnerability.</td>
</tr>
<tr>
<td>---------</td>
<td>----------------------------------------------------------</td>
</tr>
<tr>
<td>Severity</td>
<td>The CVSS-based severity score identified on each set of grouped findings. For more information, see <a href="#">CVSS vs. VPR</a>.</td>
</tr>
<tr>
<td>Name</td>
<td>The name of the plugin that identified the vulnerability.</td>
</tr>
<tr>
<td>Family</td>
<td>The family of the plugin that identified the vulnerability.</td>
</tr>
<tr>
<td>CVSSv2 Base Score</td>
<td>The CVSSv2 base score (intrinsic and fundamental characteristics of a vulnerability that are constant over time and user environments).</td>
</tr>
</tbody>
</table>

**Note:** Based on your severity metric settings, this parameter may display CVSSv3 base scores. For more information, see [General Settings](#).

<table>
<thead>
<tr>
<th>Plugin ID</th>
<th>The ID of the plugin that identified the vulnerability.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Asset Count</td>
<td>The number of assets that Tenable Vulnerability Management identified on each set of grouped findings.</td>
</tr>
<tr>
<td>Vuln Count</td>
<td>The number of vulnerabilities that Tenable Vulnerability Management identified on each set of grouped findings.</td>
</tr>
<tr>
<td>Actions</td>
<td>The actions you can perform with each set of grouped findings.</td>
</tr>
</tbody>
</table>

5. *(Optional)* Refine the table data. For more information, see [Tenable Web App Scanning Tables](#).

6. *(Optional)* To group by another attribute, next to **Group By**, click another attribute.

   The table shows your findings grouped by the new attribute.

7. *(Optional)* To remove grouping, next to **Group By**, click **None**.

   The table shows your findings without grouping.
Tenable Web App Scanning Scan Workflow

Configure web application scans to collect data about your web applications for analysis. This overview walks you through the main steps you need to create, configure, launch, and manage Tenable Web App Scanning scans. Depending on your organization, one person may perform all of the steps, or several people may share the steps.

Vulnerability State Tracking Now Available As of August 2023, new or additional scans run on your assets with existing vulnerabilities may result in remediated vulnerabilities. Users can expect to see this change in the Tenable Web App Scanning and the Tenable Vulnerability Management Explore workbench. While no action is required, Tenable recommends you run one or more scans to see these updates.

Did You Know? Scanning: 65% of WAS customers prefer to run a Quick Scan.

My Scans

The My Scans page shows your total number of scans and visualization widgets for several categories of scan statuses: Never Run, Canceled, Aborted, Completed. These visualizations can be hidden, and unhidden, by clicking the Hide Visualizations (or Show Visualizations) button. For more information, see Scan Status.
Tip: My Scans Ring Chart You can click on a segment of the ring chart to filter by that status. To deselect a segment, click on the selected segment a second time.

View your My Scans page

1. In the upper-left corner, click the button.

The left navigation plane appears.

2. In the left navigation plane, click Scans.

The My Scans page appears.

3. On your My Scans page, you can perform any, or all, of the following actions to your scan by clicking the button:
   - Edit
   - Launch
   - Move
   - Copy
   - Trash

Note: Not all scan actions are available for all scans in your list. For example, a scan that is tagged as imported only has Move and Trash actions.

Next steps:

- Create and Launch a Scan
- View your Applications Dashboard
- View your Findings
- View your Settings
Create and Launch a Scan

**Required Tenable Web App Scanning User Role:** Scan Operator, Standard, Scan Manager, or Administrator

**Vulnerability State Tracking Now Available** As of August 2023, new or additional scans run on your assets with existing vulnerabilities may result in remediated vulnerabilities. Users can expect to see this change in the Tenable Web App Scanning and the Tenable Vulnerability Management Explore workbench. While no action is required, Tenable recommends you run one or more scans to see these updates.

To create a scan in the new Tenable Web App Scanning interface:

1. In the upper-left corner, click the button.
   The left navigation plane appears.
2. In the left navigation plane, click Scans.
   The My Scans page appears.
3. Do one of the following:
   - To launch a single scan:
     a. In the scans table, click the button for the scan you want to launch.
     b. On the right side of the row, click the Launch button.

     The scan launches and the Status column updates to reflect the status of the scan.
   - To launch multiple scans:
     a. In the scans table, select one or more check boxes next to the scans you want to launch.

     The action bar appears at the top of the page.
     b. In the action bar, click the Launch button.

     The scans launch and the respective Status columns update to reflect the statuses of the scans.
To create and launch a new scan without a scan template:

a. In the upper-right corner of the page, click the Create Scan button.

The Create Scan page appears. By default, the Scans tab is active.

b. Enter your scan information and click Save to save the scan setup, or click Save and Run to launch the scan.

To create and launch a new scan with Tenable Templates:

a. In the upper-right corner of the page, click the Create Scan button.

The Create Scan page appears. By default, the Scans tab is active.

b. Select Tenable Templates.

c. Select a template from the list. For more information on scan templates, see Tenable-Provided Tenable Web App Scanning Templates.

d. After configuring your scan template, click Save and Run.

To create and launch a new scan with a previously created User Template:

a. In the upper-right corner of the page, click the Create Scan button.

The Create Scan page appears. By default, the Scans tab is active.

b. Select User Templates.

c. Select a template from the list. For more information on scan templates, see Tenable-Provided Tenable Web App Scanning Templates.

d. After configuring your scan template, click Save and Run.

Note: To create a new user template, see User Templates.

4. Enter your scan information and click Save to save the scan setup, or click Save and Run to launch the scan.

Tenable Web App Scanning launches the scan.
**Note**: When you launch a scan, the time the scanner takes to complete the scan varies depending on the system load. To prevent lengthy scan times, avoid launching an excessive number of scans simultaneously. Excessive numbers of concurrent scans may exhaust the system's scanning capacity. If necessary, Tenable Web App Scanning automatically staggers concurrent scans to ensure consistent scanning performance.

**Note**: Tenable Web App Scanning aborts scans that remain in **pending** status for more than four hours. If Tenable Web App Scanning aborts a scan, modify your scan schedules to reduce the number of overlapping scans. If you still have issues, contact Tenable Support.
Scan Types in Tenable Web App Scanning

Scan types in Tenable Web App Scanning scans are available to help you quickly start your scans with the appropriate level of options.

**Did You Know? Scanning:** 65% of WAS customers prefer to run a Quick Scan.

### Scan Types

<table>
<thead>
<tr>
<th>Types</th>
<th>Description</th>
<th>Scan Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quick Scan</td>
<td>Quick overview scan that discovers up to 70% of vulnerabilities. This scan focuses on configuration issues related to SSL/TLS and HTTP security headers. This scan type is available for launch via a button on most pages in your Tenable Web App Scanning user interface.</td>
<td>Three minutes or less</td>
</tr>
<tr>
<td>Basic Scan</td>
<td>Normal scan that crawls the entire application and discovers up to 85% of vulnerabilities. This scan focuses on the misconfigurations and the component vulnerabilities.</td>
<td>Under an hour</td>
</tr>
<tr>
<td>Full Scan</td>
<td>Comprehensive scan that crawls the entire application and discovers all known vulnerabilities. This scan focuses on the misconfigurations, the component vulnerabilities, and the common generic vulnerabilities.</td>
<td>A few hours</td>
</tr>
<tr>
<td>Custom Scan</td>
<td>Control all settings and choose the plugins you want to run.</td>
<td>Variable</td>
</tr>
</tbody>
</table>

**Note:** Each scan type (and scan template) supports families of plugins and individual plugins. For more information, see View Your Scan Plugins.
Set Scan Permissions

Required Additional License: Tenable Web App Scanning

Required User Role: Administrator

Note: For a complete overview of Tenable Web App Scanning permissions and user roles, see Permissions in the Tenable Developer Portal.

In an existing scan, you can add new user or group permissions or update existing permissions.

To add permissions:

1. In the upper-left corner, click the ☰ button.
   The left navigation plane appears.
2. In the left navigation plane, in the Web App Scanning section, click Scans.
   The Tenable Web App Scanning Scans page appears.

3. In the scans table, hover over the row for the scan for which you want to set permissions.
4. On the right side of the row, click the ✍️ button.
   The Update a Scan page appears.
5. In the User Permissions section, click the ✞️ button.
   The Add User Permission plane appears.

Note: If your Tenable Web App Scanning license expires, your web application scans no longer appear in the scans table.
6. In the **Add Users or Groups** drop-down box, select user name or group with whom you want to share the scan.

The user name or group appears in the list of users below the drop-down box.

**Tip**: If you are typing the name of the user name or group in the drop-down box, Tenable Web App Scanning displays a list of options that match your text.

7. Next to the user or group name, in the drop-down box, select the permissions you want to apply to the user or group.

8. Click **Add**.

The **Add User Permission** plane disappears.

The user or group name appears under the **User Permissions** section, along with the permissions you selected.

9. Click **Save**.

Tenable Web App Scanning updates the scan permissions.

To update existing permissions:

**Note**: You cannot update permissions for the user that owns the scan.

1. In the upper-left corner, click the **button.

The left navigation plane appears.

2. In the left navigation plane, in the **Web App Scanning** section, click **Scans**.

The Tenable Web App Scanning **Scans** page appears.

**Note**: If your Tenable Web App Scanning license expires, your web application scans no longer appear in the scans table.
3. In the scans table, hover over the row corresponding to the scan for which you want to set permissions.

4. On the right side of the row, click the pencil button.

The **Update a Scan** page appears.

5. In the **User Permissions** section, you can:

<table>
<thead>
<tr>
<th>Action</th>
<th>Steps</th>
</tr>
</thead>
<tbody>
<tr>
<td>Update permissions for a user or group</td>
<td>In the drop-down box next to the user or group name, select the permissions you want to apply.</td>
</tr>
<tr>
<td>Remove all permissions from a user or group</td>
<td>• Roll over the user or group name.</td>
</tr>
<tr>
<td></td>
<td>A pencil button appears next to the drop-down box.</td>
</tr>
<tr>
<td></td>
<td>• Click the pencil button.</td>
</tr>
<tr>
<td></td>
<td>The user or group name disappears from the list.</td>
</tr>
</tbody>
</table>

6. Click **Save**.

Tenable Web App Scanning updates the permissions.
Edit Scan Settings

**Required Tenable Web App Scanning User Role:** Scan Manager or Administrator

**Required Scan Permissions:** Can Configure

The settings you can configure in a Tenable Web App Scanning scan or user-defined scan template depend on the Tenable-provided scan template type. For more information, see Tenable Web App Scanning Scan Template Settings.

To configure scan settings in the new interface:

1. In the upper-left corner, click the button.
   
The left navigation plane appears.

2. In the left navigation plane, click **Scans**.
   
The Tenable Web App Scanning **My Scans** page appears:

   ![My Scans](image)

3. In the list, click the button for the scan you want to edit.

4. Click the button.
   
The **Update a Scan** page appears.

5. Modify the scan settings.

6. (Optional) In the **Advanced Settings** section, add **Session Settings**.

   **Note:** Specifying this token speeds up the scan by allowing the scanner to skip token verification. Only available while you are editing an existing scan. For more information, see Advanced Settings.
7. Click **Save**.

   Tenable Web App Scanning saves the scan settings.
Launch an API Scan

**Required Additional License:** Tenable Web App Scanning

**Required Tenable Web App Scanning User Role:** Scan Operator, Standard, Scan Manager, or Administrator

**Required Scan Permissions:** Can Control

**Note:** When you launch a scan, the time the scanner takes to complete the scan varies depending on the system load. To prevent lengthy scan times, avoid launching an excessive number of scans simultaneously. Excessive numbers of concurrent scans may exhaust the system's scanning capacity. If necessary, Tenable Web App Scanning automatically staggers concurrent scans to ensure consistent scanning performance.

In Tenable Web App Scanning, you can create discovery, assessment, and API scans using scan templates. For general information about templates and settings, see [Scan Templates and Settings](#).

**Note:** You cannot have more than 25 scans running in your container simultaneously.

Before you begin:

- Have the swagger file used to describe the API available for reference.

To launch a Tenable Web App Scanning API scan:

1. In the left navigation plane, click **Scans**.

   The Tenable Web App Scanning **Scans** page appears.

   **Note:** If your Tenable Web App Scanning license ages out, your Tenable Web App Scanning scans no longer appear in the scans table.

2. In the top navigation, select **Web Application Scans**.

3. Click the **Create Scan** button in the upper right-hand corner of the page.

   The Scans Template page appears.

4. Select the **API** scan template.
5. In the **Settings** section of the Create a Scan - API Scan page, populate the following minimum required settings:

   **Note:** While not required, Tenable recommends putting all scans on a repeating schedule. For more information about Tenable Web App Scanning Scan schedules, see [Schedule](#).

   - Name
   - Scanner
   - Target

6. In the **Scope** section, add the OpenAPI (Swagger) file for the API you are scanning.

   **Note:** Attaching an OpenAPI (Swagger) file larger than 1 MB to an API scan, results in an error message. For more information on this limit, see the [Knowledge Article](#). For more information on Swagger specification files, see [OpenAPI (Swagger) Specification](#).

7. Click **Save**.

   Tenable Vulnerability Management returns to the list of configured Tenable Web App Scanning scans.

8. To launch the scan, click the **button in the Actions column for the scan that needs to be run and select **Launch**.

9. When the scan has completed, click the scan to view the results.

   **Note:** Tenable Web App Scanning aborts scans that remain in **pending** status for more than four hours. If Tenable Web App Scanning aborts a scan, modify your scan schedules to reduce the number of overlapping scans. If you still have issues, contact Tenable Support.
Tenable Web App Scanning Scan Template Settings

Scan settings enable you to refine parameters in scans to meet your specific network security needs. The scan settings you can configure vary depending on the Tenable-provided template on which a scan or user-defined template is based.

You can configure these settings in individual scans or in user-defined templates from which you create individual scans.

Settings in User-Defined Templates

When configuring settings for user-defined templates, note the following:

- If you configure a setting in a user-defined template, that setting applies to any scans you create based on that user-defined template.

- You base a user-defined template on a Tenable-provided template. Most of the settings are identical to the settings you can configure in an individual scan that uses the same Tenable-provided template.

However, certain Basic settings are unique to creating a user-defined template, and do not appear when configuring an individual scan. For more information, see User-Defined Templates.

- You can configure certain settings in a user-defined template, but cannot modify those settings in an individual scan based on a user-defined template. If you want to modify these settings for individual scans, create individual scans based on a Tenable-provided template instead.

Tenable Web App Scanning scan settings are organized into the following categories:

- Basic Settings in User-Defined Templates
- Basic Settings in Tenable Web App Scanning Scans
- Scope Settings in Tenable Web App Scanning Scans
- Report Settings in Tenable Web App Scanning Scans
- Assessment Settings in Tenable Web App Scanning Scans
• Advanced Settings in Tenable Web App Scanning Scans

• Credentials in Tenable Web App Scanning Scans

• Plugin Settings in Tenable Web App Scanning Scans

• If you configure Credentials in a user-defined template, other users can override these settings by adding scan-specific or managed credentials to scans based on the template.
Tenable-Provided Tenable Web App Scanning Template Types

Tenable Web App Scanning provides scanner templates for specific scanning purposes.

**Note:** Each scan type (and template) supports families of plugins and individual plugins. For more information, see View Your Scan Plugins.

Tenable Web App Scanning provides the following scanner templates.

<table>
<thead>
<tr>
<th>Template</th>
<th>Description</th>
</tr>
</thead>
</table>
| API      | A scan that checks an API for vulnerabilities. This scan analyzes RESTful APIs described via an OpenAPI (Swagger) specification file. File attachment size is limited to 1 MB.  
  **Tip:** If the API you want to scan requires keys or a token for authentication, you can add the expected custom headers in the Advanced settings in the HTTP Settings section.  
  **Note:** The API scan template is available as a public beta. Its functionality is subject to change as ongoing improvements are made throughout the beta period.  
  **Note:** API scans support only one target at a time.  
  **Note:** Attaching an OpenAPI (Swagger) file larger than 1 MB to an API scan, results in an error message. For more information on this limit, see the Knowledge Article. For more information on Swagger specification files, see OpenAPI (Swagger) Specification. |
| Config Audit | A high-level scan that analyzes HTTP security headers and other externally facing configurations on a web application to determine if the application is compliant with common security industry standards.  
If you create a scan using the Config Audit scan template, Tenable Web App Scanning analyzes your web application only for plugins related to security industry standards compliance. |
<p>| Log4Shell | Detects the Log4Shell vulnerability (CVE-2021-44228) in Apache Log4j via local checks. |</p>
<table>
<thead>
<tr>
<th>Overview</th>
<th>A high-level preliminary scan that determines which URLs in a web application Tenable Web App Scanning scans by default. The Overview scan template does not analyze the web application for active vulnerabilities. Therefore, this scan template does not offer as many plugin family options as the Scan template.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Note: This scan template is equivalent to the Web App Overview template in the classic Tenable Web App Scanning interface.</td>
<td></td>
</tr>
<tr>
<td>PCI</td>
<td>A scan that assesses web applications for compliance with Payment Card Industry Data Security Standards (PCI DSS) for Tenable PCI ASV. (This scan also allows you to view and edit the Request Redirect Limit. The default value for this limit is 3.)</td>
</tr>
<tr>
<td>Quick Scan</td>
<td>A high-level scan similar to the Config Audit scan template that analyzes HTTP security headers and other externally facing configurations on a web application to determine if the application is compliant with common security industry standards. Does not include scheduling. If you create a scan using the Quick Scan scan template, Tenable Web App Scanning analyzes your web application only for plugins related to security industry standards compliance.</td>
</tr>
<tr>
<td>Scan</td>
<td>A comprehensive scan that assesses web applications for a wide range of vulnerabilities. The Scan template provides plugin family options for all active web application plugins. If you create a scan using the Scan template, Tenable Web App Scanning analyzes your web application for all plugins that the scanner checks for when you create a scan using the Config Audit, Overview, or SSL TLS templates, as well as additional plugins to detect specific vulnerabilities. A scan run with this scan template provides a more detailed assessment of a web application and take longer to complete that other Tenable Web App Scanning scans.</td>
</tr>
</tbody>
</table>
Note: This scan template is equivalent to the Web App Scan template in the classic Tenable Web App Scanning interface.

| SSL TLS | A scan to determine if a web application uses SSL/TLS public-key encryption and, if so, how the encryption is configured. When you create a scan using the **SSL TLS** template, Tenable Web App Scanning analyzes your web application only for plugins related to SSL/TLS implementation. The scanner does not crawl URLs or assess individual pages for vulnerabilities. |

The settings you can configure in a scan or in a user-defined scan template depend on the Tenable-provided scan template type you use to create your scan.
User-Defined Templates

**Required Template Permissions**: Owner

Tenable provides a variety of scan templates for specific scanning purposes. If you want to customize a Tenable-provided scan template and share it with other users, you can create a user-defined scan template.

You can create, edit, copy, export, or delete user-defined Tenable Web App Scanning templates from the **Scans** page. You can also export Tenable Web App Scanning scan templates.

Click a template to view or **edit** its settings and parameters, or use the following procedures to manage your user-defined templates:

### Create a user-defined template

You can create user-defined scan templates to save and share custom scan settings with other Tenable Web App Scanning users.

When you define a scan template, Tenable Web App Scanning assigns you owner permissions for the scan template. You can share the scan template by assigning **template permissions** to other users, but only you can **delete** the scan template.

To create a user-defined scan template:

1. In the upper-left corner, click the **button.

   The left navigation plane appears.

2. In the left navigation plane, click **Scans**.

   The **My Scans** page appears.

3. In the upper-right corner of the page, click the **Scan Templates**.

   The **Scan Templates** page appears.

4. In the upper-right corner of the page, click the **Create Template** button.

   The **Select a Template** page appears.
5. Click the tile for the template you want to use as the base for your user-defined scan template.

The Create a Template page appears.

6. Configure the scan.

<table>
<thead>
<tr>
<th>Tab</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Settings</td>
<td>Configure the settings available in the scan template. For more information, see Basic Settings in Tenable Web App Scanning Scans.</td>
</tr>
<tr>
<td>Scope</td>
<td>Specify the URLs and file types that you want to include in or exclude from your scan. For more information, see Scope Settings in Tenable Web App Scanning Scans.</td>
</tr>
<tr>
<td>Assessment</td>
<td>Specify how a scan identifies vulnerabilities and what vulnerabilities the scan identifies. This includes identifying malware, assessing the vulnerability of a system to brute force attacks, and the susceptibility of web applications. For more information, see Assessment Settings in Tenable Web App Scanning Scans.</td>
</tr>
<tr>
<td>Advanced</td>
<td>Specify advanced controls for scan efficiency.</td>
</tr>
<tr>
<td>Credentials</td>
<td>Specify credentials you want Tenable Vulnerability Management to use to perform a credentialed scan.</td>
</tr>
<tr>
<td>Plugins</td>
<td>Select security checks by plugin family or individual plugin.</td>
</tr>
</tbody>
</table>

The scan template table updates based on your selection.

Edit a user-defined template

**Required Template Permissions:** Can Configure

To edit a user-defined scan template:

1. In the upper-left corner, click the button.

   The left navigation plane appears.
2. In the left navigation plane, click ☰ Scans.

The My Scans page appears.

3. In the upper-right corner of the page, click the ☰ Scan Templates.

The Scan Templates page appears.

4. In the scan templates table, in the row of the scan you want to edit, click the ☰ button.

5. Select ☰ Edit.

6. Configure the scan template options.

<table>
<thead>
<tr>
<th>Tab</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Settings</strong></td>
<td>Configure the settings available in the scan template. For more information, see Basic Settings in Tenable Web App Scanning Scans.</td>
</tr>
<tr>
<td><strong>Scope</strong></td>
<td>Specify the URLs and file types that you want to include in or exclude from your scan. For more information, see Scope Settings in Tenable Web App Scanning Scans.</td>
</tr>
<tr>
<td><strong>Assessment</strong></td>
<td>Specify how a scan identifies vulnerabilities and what vulnerabilities the scan identifies. This includes identifying malware, assessing the vulnerability of a system to brute force attacks, and the susceptibility of web applications. For more information, see Assessment Settings in Tenable Web App Scanning Scans.</td>
</tr>
<tr>
<td><strong>Advanced</strong></td>
<td>Specify advanced controls for scan efficiency.</td>
</tr>
<tr>
<td><strong>Credentials</strong></td>
<td>Specify credentials you want Tenable Vulnerability Management to use to perform a credentialed scan.</td>
</tr>
<tr>
<td><strong>Plugins</strong></td>
<td>Select security checks by plugin family or individual plugin.</td>
</tr>
</tbody>
</table>

7. Click Save.

Tenable Web App Scanning saves the user-defined scan template and adds it to the list of templates on the Scan Templates page.
When you copy a user-defined scan template, Tenable Web App Scanning assigns you owner permissions for the copy. You can share the copy by assigning template permissions to other users, but only you can delete the copied scan template.

To copy a user-defined scan template:

1. In the upper-left corner, click the button.

   The left navigation plane appears.

2. In the left navigation plane, click **Scans**.

   The **My Scans** page appears.

3. In the upper-right corner of the page, click the **Scan Templates**.

   The **Scan Templates** page appears.

4. In the scan templates table, in the row of the scan you want to edit, click the button.

   A menu appears.

5. In the menu, click the button.

   A **Template copied** message appears. Tenable Web App Scanning creates a copy of the scan template with Copy of prepended to the name and assigns you owner permissions for the copy. The copy appears in the scan templates table.

**Delete a user-defined template**

If you delete a user-defined scan template, Tenable Vulnerability Management deletes it from all user accounts.

Before you begin:

- Delete any scans that use the template you want to delete. You cannot delete a scan template if a scan is using the template.

To delete a user-defined scan template or templates:
1. In the upper-left corner, click the ‣ button.

   The left navigation plane appears.

2. In the left navigation plane, click ☰ Scans.

   The My Scans page appears.

3. In the upper-right corner of the page, click the ☰ Scan Templates.

   The Scan Templates page appears.

4. Select the scan template or templates you want to delete:

   • Select a single scan template:
     a. In the scans table, roll over the scan you want to launch.
     b. In the row, click the ☰ button.

        A menu appears.

     c. In the menu, click the ☰ button.

        A confirmation window appears.

   • Select multiple scan templates:
     a. In the scan templates table, select the check box for each scan template you want to delete.

        The action bar appears at the bottom of the pagetop of the table.

     b. In the action bar, click the ☰ button.

        A confirmation window appears.

5. In the confirmation window, click Delete.

   Tenable Web App Scanning deletes the user-defined scan template or templates you selected.
View Your Scan Plugins

You can view the Tenable Web App Scanning plugins and plugin families your scan templates and scan types are using by viewing the Web App Scanning Plugin Families page in the Tenable Plugins Pipeline.

To view your current scan plugins, use one of the following two methods:

Using the Search Box

1. Go to the Web App Scanning Plugin Families page.
2. In the left-side navigation, click Search.
   
   The Plugins Search page appears.
3. In the Add Filter box, select Product, and choose Web App Scanning.
4. In the Add Filter box, select WAS Scan Template, then select the template you want.
5. All plugins with the selected template are displayed:

Navigate Plugins and Plugin Families
1. Go to the Web App Scanning Plugin Families page.

2. Select a family to display the list of its plugins.
3. Select a specific plugin ID to display the plugin output that displays as seen in a report.
4. In the upper-right of the plugin information, view the Plugin Details and the scan types and templates listed next to Scan Template:
**Note:** You can configure **Plugin** settings when you create a scan or user-defined scan template and select the **API, Overview, (Basic) Scan, Standard Scan, or Custom** template or scan type. For more information, see [Plugin Settings in Tenable Web App Scanning Scans](#).
Basic Settings in Tenable Web App Scanning Scans

Configure settings to specify basic organizational and security-related aspects of your scan configuration. This includes specifying the name of the scan, its target, whether the scan is scheduled, and who has access to the scan.

You can configure settings when you create a scan or user-defined scan template and select any scan type. For more information, see Scan Templates.

**Tip:** If you want to save your settings configurations and apply them to other scans, you can **create and configure a user-defined scan template**.

The **Basic** settings include the following sections:

- **General**
- **Schedule**
- **Notifications**
- **User Permissions**
- **Data Sharing**

### General

The general settings for a scan.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Default Value</th>
<th>Description</th>
<th>Required</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name</td>
<td>none</td>
<td>Specifies the name of the scan or template.</td>
<td>Yes</td>
</tr>
<tr>
<td>Description</td>
<td>none</td>
<td>Specifies a description of the scan or template.</td>
<td>No</td>
</tr>
<tr>
<td>Target</td>
<td>none</td>
<td>Specifies the URL for the target you want to scan, as it appears on your Tenable Web App Scanning license. Regular expressions and wildcards are not allowed.</td>
<td>Yes</td>
</tr>
<tr>
<td>Setting</td>
<td>Default Value</td>
<td>Description</td>
<td>Required</td>
</tr>
<tr>
<td>--------------</td>
<td>---------------</td>
<td>-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
<td>----------</td>
</tr>
<tr>
<td>Folder</td>
<td>My Scans</td>
<td>Specifies the <strong>folder</strong> where the scan appears after being saved.</td>
<td>Yes</td>
</tr>
<tr>
<td>Scanner Type</td>
<td>Internal Scanner</td>
<td>Specifies whether a local, internal scanner or a cloud-managed scanner performs the scan, and determines whether the <strong>Scanner</strong> field lists local or cloud-managed scanners to choose from.</td>
<td>Yes</td>
</tr>
<tr>
<td>Scanner</td>
<td>varies</td>
<td>Specifies the scanner that performs the scan.</td>
<td>Yes</td>
</tr>
</tbody>
</table>

**Caution:** When removing targets from a Tenable Web App Scanning scan (for example, going from two, or more, targets down to one target), the scan must be re-launched before any exports can be delivered.

**Note:** If the URL you type in the **Target** box has a different FQDN host from the URL that appears on your license, and your scan runs successfully, the new URL you type counts as an additional asset on your license.

**Note:** If you create a user-defined scan template, the target setting is not saved to the template. Type a target each time you create a new scan.

**Schedule**

The schedule settings for the scan.

**Note:** If you create a user-defined scan template, your schedule settings are not saved to the scan template. Configure the schedule settings each time you create a new scan.
<table>
<thead>
<tr>
<th>Setting</th>
<th>Default</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Schedule</td>
<td>off</td>
<td>A toggle that specifies whether the scan is scheduled. By default, scans are not scheduled. When the <strong>Schedule</strong> toggle is disabled, the other schedule settings remain hidden. Click the toggle to enable the schedule and view the remaining <strong>Schedule</strong> settings.</td>
</tr>
<tr>
<td>Frequency</td>
<td>Once</td>
<td>Specifies how often the scan is launched.</td>
</tr>
</tbody>
</table>

**Note:** The frequency with which you scan your target depends on several factors (e.g., how often you update your web application, the content your web application contains, etc.). For most web applications, Tenable recommends at least monthly scans.

- **Once:** Schedule the scan at a specific time.
- **Daily:** Schedule the scan to occur on a daily basis, at a specific time, up to 20 days.
- **Weekly:** Schedule the scan to occur on a recurring basis, by time and day of week, up to 20 weeks.
- **Monthly:** Schedule the scan to occur every 1-20 months, by:
  - **Day of Month:** The scan repeats on a specific day of the month at the selected time.
  - **Week of Month:** The scan repeats monthly on the week you begin the scan. For example, if you select a start date of October 3rd, and that falls on the first week of the month, then the scan repeats the first week of each subsequent month at the selected time.

**Note:** If you schedule your scan to recur monthly and by
Setting | Default | Description
--- | --- | ---
Time and day of the month, Tenable recommends setting a start date no later than the 28th day. If you select a start date that does not exist in some months (e.g., the 29th), Tenable Vulnerability Management cannot run the scan on those days.

- **Yearly**: Schedule the scan to occur every year, by time and day, up to 20 years.

**Starts** | varies | Specifies the exact date and time at which a scan launches.  
**Note**: If you schedule an excessive number of scans to run concurrently, you may exhaust the scanning capacity on Tenable Web App Scanning. If necessary, Tenable Web App Scanning staggers concurrent scans to ensure consistent scanning performance.

The starting date defaults to the date you create the scan. The starting time is the next hour interval, displayed in 24-hour clock format. For example, if you create your scan on October 31, 2019 at 9:12 PM, the default starting date and time is 10/31/2019 and 22:00.

**Timezone** | varies | The time zone of the value set for **Starts**.

**Notifications**

The notification settings for a scan.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Default Value</th>
<th>Description</th>
</tr>
</thead>
</table>
| Email Recipient(s) | None          | Specifies zero or more email addresses, separated by commas, whitespace, or new lines that are alerted when a scan completes and the results are available.

**User Permissions**
Share the scan or user-defined scan template with other users by setting permissions for users. For more information on adding or editing user permissions, see [Set Scan Permissions](#).

<table>
<thead>
<tr>
<th>Permission</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>No Access</td>
<td>(Default) Users set to this permission cannot interact with the scan in any way.</td>
</tr>
<tr>
<td>Can View</td>
<td>Users set to this permission can <a href="#">view the results</a> of the scan.</td>
</tr>
<tr>
<td>Can Control</td>
<td>In addition to the tasks allowed by <a href="#">Can View</a>, users with this permission can <a href="#">launch</a> and <a href="#">stop</a> a scan. They cannot view or edit the scan configuration or <a href="#">delete</a> the scan.</td>
</tr>
<tr>
<td>Can Configure</td>
<td>In addition to the tasks allowed by <a href="#">Can Control</a>, users with this permission can view the scan configuration and <a href="#">modify any setting</a> for the scan except scan ownership. They can also <a href="#">delete</a> the scan.</td>
</tr>
</tbody>
</table>

**Data Sharing**

<table>
<thead>
<tr>
<th>Setting</th>
<th>Default Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Scan Results</td>
<td>Show in dashboard</td>
<td>Specifies whether the results of the scan should be kept private or should appear on users' dashboards. When set to <a href="#">Keep private</a>, users must access the scan directly to view the results.</td>
</tr>
</tbody>
</table>
Advanced Settings in Tenable Web App Scanning Scans

Advanced settings specify additional controls you want to implement in a web application scan.

You can configure Advanced settings when you create a scan or user-defined scan template using any Tenable-provided scan template. However, the Overview and Scan template types have more configurable Advanced settings than the Config Audit and SSL TLS template types. For more information, see Scan Templates.

The Advanced Settings options allow you to control the efficiency and performance of the scan.

- **General**
- **HTTP Settings**
- **Screen Settings**
- **Limits**
- **Selenium Settings**
- **Performance Settings**
- **Session Settings**

**General**

You can configure General options in scans and user-defined scan templates based on the Overview and Scan templates only.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Default</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Target Scan Max Time (HH:MM:SS)</td>
<td>08:00:00</td>
<td>Specifies the maximum duration the scanner runs a scan job runs before stopping, displayed in hours, minutes, and seconds.</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Note</strong>: The maximum duration you can set is 99:59:59 (hours: minutes: seconds).</td>
</tr>
<tr>
<td>Maximum Queue Time (HH:MM:SS)</td>
<td>08:00:00</td>
<td>Specifies the maximum duration the scan remains in the Queued state, displayed in hours, minutes, and seconds.</td>
</tr>
</tbody>
</table>
Note: The maximum duration you can set is 48:00:00 (hours: minutes: seconds).

Enable Debug logging for this scan

<table>
<thead>
<tr>
<th>Setting</th>
<th>Default</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enable Debug logging for this scan</td>
<td>disabled</td>
<td>Specifies whether the scanner attaches available debug logs from plugins to the vulnerability output of this scan.</td>
</tr>
<tr>
<td>Debug Flags</td>
<td>disabled</td>
<td>(Only visible when you enable the Enable Debug logging for this scan feature). Allows you to specify key and value pairs, provided by support, for debugging.</td>
</tr>
</tbody>
</table>

HTTP Settings

These settings specify the user-agent you want the scanner to identify and the HTTP response headers you want the scanner to include in requests to the web application.

You can configure **Crawl Settings** options in scans and user-defined scan templates based on any Tenable-provided scan template.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Default</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Use a different User Agent to identify scanner</td>
<td>disabled</td>
<td>Specifies whether you want the scanner to use a user-agent header other than Chrome when sending an HTTP request.</td>
</tr>
<tr>
<td>User Agent</td>
<td>Chrome's user-agent</td>
<td>Specifies the name of the user-agent header you want the scanner to use when sending an HTTP request. You can configure this option only after you select the <strong>Use a different User Agent to identify scanner</strong> checkbox. By default, Tenable Web App Scanning uses the user-agent that Chrome uses for the operating system and platform that corresponds to your machine's operating system and platform. For more information about Chrome's user-agents, see the <a href="#">Google Chrome Documentation</a>.</td>
</tr>
</tbody>
</table>
The current Tenable Web App Scanning user-agent header is:

Mozilla/5.0 (Windows NT 10.0; Win64; x64)
AppleWebKit/537.36 (KHTML, like Gecko)
Chrome/77.0.3865.90 Safari/537.36

Not all requests from a scanner are guaranteed to have the User Agent sent.

Add Scan ID HTTP Header | disabled | Specifies whether the scanner adds an additional X-Tenable-Was-Scan-Id header (set with the scan ID) to all HTTP requests sent to the target, which allows you to identify scan jobs in web server logs and modify your scan configurations to secure your sites.

Custom Headers | none | Specifies the custom headers you want to inject into each HTTP request, in request and response format.

You can add additional custom headers by clicking the button and typing the values for each additional header.

If you enter a custom User-Agent header, that value overrides the value entered in the User Agent setting box.

Screen Settings

You can configure Screen Settings options in scans and user-defined scan templates based on the Overview and Scan templates only.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Default</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Screen Width</td>
<td>1600</td>
<td>Specifies the screen width, in pixels, of the browser embedded in the scanner.</td>
</tr>
<tr>
<td>Screen Height</td>
<td>1200</td>
<td>Specifies the screen height, in pixels, of the browser embedded in the scanner.</td>
</tr>
<tr>
<td>Ignore Images</td>
<td>disabled</td>
<td>Specifies if the browser embedded in the scanner crawls or ignores images on your target web pages.</td>
</tr>
</tbody>
</table>
Limits

You can configure **Limits** options in scans and user-defined scan templates based on the **Overview** and **Scan** templates only.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Default</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of URLs to Crawl and Browse</td>
<td>10000</td>
<td>Specifies the maximum number of URLs the scanner attempts to crawl.</td>
</tr>
<tr>
<td>Path Directory Depth</td>
<td>10</td>
<td>Specifies the maximum number of sub-directories the scanner crawls.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>For example, if your target is <code>www.example.com</code>, and you want the scanner</td>
</tr>
<tr>
<td></td>
<td></td>
<td>to crawl <code>www.example.com/users/myname</code>, type 2 in the text box.</td>
</tr>
<tr>
<td>Page DOM Element Depth</td>
<td>5</td>
<td>Specifies the maximum number of HTML nested element levels the scanner crawls.</td>
</tr>
<tr>
<td>Max Response Size</td>
<td>500000</td>
<td>Specifies the maximum load size of a page, in bytes, which the scanner analyzes.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>If the scanner crawls a URL and the response exceeds the limit, the scanner does not analyze the page for vulnerabilities.</td>
</tr>
<tr>
<td>Request Redirect Limit</td>
<td>3</td>
<td>Specifies the number of redirects the scanner follows before it stops trying to crawl the page.</td>
</tr>
</tbody>
</table>

**Selenium Settings**

These settings specify how the scanner behaves when it attempts to authenticate to a web application using your recorded Selenium credentials.

Configure these options if you configured your scan to authenticate to the web application with Selenium credentials. For more information see [Credentials in Tenable Web App Scanning Scans](#).
You can configure **Selenium Settings** options in scans and user-defined scan templates based on the **Overview** and **Scan** templates only.

### Selenium Settings

<table>
<thead>
<tr>
<th>Setting</th>
<th>Default</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Page Rendering Delay</td>
<td>30000</td>
<td>Specifies the time, in milliseconds, the scanner waits for the page to render.</td>
</tr>
<tr>
<td>Command Execution Delay</td>
<td>500</td>
<td>Specifies the time, in milliseconds, the scanner waits after processing a command before proceeding to the next command.</td>
</tr>
<tr>
<td>Script Completion Delay</td>
<td>5000</td>
<td>Specifies the time, in milliseconds, the scanner waits for all commands to render new content to finish processing.</td>
</tr>
</tbody>
</table>

### Performance Settings

<table>
<thead>
<tr>
<th>Setting</th>
<th>Default</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max Number of Concurrent HTTP Connections</td>
<td>10</td>
<td>Specifies the maximum number of established HTTP sessions allowed for a single host.</td>
</tr>
<tr>
<td>Max Number of HTTP Requests Per Second</td>
<td>25</td>
<td>Specifies the maximum number of HTTP requests allowed for a single host for the duration of the scan.</td>
</tr>
<tr>
<td>Slow down the scan when network congestion is detected</td>
<td>disabled</td>
<td>Specifies whether the scanner throttles the scan in the event of network congestion.</td>
</tr>
<tr>
<td>Network Timeout (In Seconds)</td>
<td>5</td>
<td>Specifies the time, in seconds, the scanner waits for a response from a host before aborting the scan, unless otherwise specified in a plugin.</td>
</tr>
</tbody>
</table>

- If your internet connection is slow, Tenable recommends that you specify a longer wait time.
<table>
<thead>
<tr>
<th>Browser Timeout (In Seconds)</th>
<th>30</th>
<th>Specifies the time, in seconds, the scanner waits for a response from a browser before aborting the scan, unless otherwise specified in a plugin. If your internet connection is slow, Tenable recommends that you specify a longer wait time.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Timeout Threshold</td>
<td>100</td>
<td>Specifies the number of consecutive timeouts allowed before the scanner aborts the scan.</td>
</tr>
</tbody>
</table>

### Session Settings

Specifying these tokens speeds up the scan by allowing the scanner to skip token verification. Session Settings are only available when you are editing an existing scan.

<table>
<thead>
<tr>
<th>Token Type</th>
<th>Default</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cookie</td>
<td>None</td>
<td>Name of your application's authentication cookie for the scanner to use.</td>
</tr>
<tr>
<td>Header</td>
<td>None</td>
<td>Name of your application's authentication header for the scanner to use.</td>
</tr>
</tbody>
</table>
Scope Settings in Tenable Web App Scanning Scans

Configure **Scope** settings to specify the URLs and file types that you want to include in or exclude from your scan.

You can configure **Scope** settings when you create a scan or user-defined scan template and select the **Overview** or **Scan** template type. For more information, see [Scan Templates](#).

**Tip:** If you want to save your settings configurations and apply them to other scans, you can [create and configure a user-defined scan template](#).

The **Scope** settings include the following sections:

- **Crawl Scripts**
- **OpenAPI (Swagger) Specification**
- **Scan Inclusion**
- **Scan Exclusion**

Crawl Scripts

Selenium scripts you want to add to your scan to enable the scanner to analyze pages with complex access logic.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Add File</td>
<td>Hyperlink that allows you to add one or more recorded Selenium script files to your scan. Your script must be added as a .side file.</td>
</tr>
</tbody>
</table>

OpenAPI (Swagger) Specification

The specification file for the RESTful API that you want to scan. The file should be OpenAPI Specification (v2 or v3) compliant and represented in either JSON or YAML format.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Add File</td>
<td>Hyperlink that allows you to add one or more OpenAPI (v2 or v3) specification</td>
</tr>
</tbody>
</table>
files. The specification files should be represented in either JSON or YAML format.

## Scan Inclusion

The URLs you want the scanner to include, along with how you want the scanner to crawl them.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Default</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>List of URLs</td>
<td>none</td>
<td>A list of any URLs you want to ensure the scanner analyzes, in addition to the target URL you specified in the Basic settings.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Type each URL as an absolute URL.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Type each URL on a separate line.</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Note:</strong> All URLs should have the same domain and wildcards are not allowed.</td>
</tr>
<tr>
<td>Specify how the scanner handles URLs found during the application crawl</td>
<td>Crawl all URLs detected</td>
<td>Specifies the limits you want the scanner to adhere to as it crawls URLs. Select one of the following:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• <strong>Crawl all URLs detected</strong> — The scanner crawls all URLs and child paths it detects on the target URL’s domain host.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• <strong>Limit crawling to specified URLs and child paths</strong> — The scanner crawls only the target URL and child paths.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• <strong>Limit crawling to specified URLs</strong> — The scanner crawls the target URL only. It does not crawl child paths for the target URL.</td>
</tr>
</tbody>
</table>

## Scan Exclusion
The attributes of URLs you want the scanner to exclude from your scan.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Default Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Regex for Excluded URLs</td>
<td>logout</td>
<td>Text box option in which you can specify a regex pattern that the scanner can look for in URLs to exclude from the scan. You can specify multiple regex patterns separated by new lines.</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Note:</strong> The regex values should be values contained within the URL to be excluded. For example, in the URL <a href="http://www.example.com/blog/today.htm">http://www.example.com/blog/today.htm</a>, valid regex values would be blog or today (not the full URL). Additionally, regex values are case-sensitive.</td>
</tr>
<tr>
<td>File Extensions to Exclude</td>
<td>js, css, png, jpeg, gif, pdf, csv, svn-base, svg, jpg, ico, woff, woff2, exe, msi, zip</td>
<td>Text box option in which you can specify the file types you want the scanner to exclude from the scan. Separate each file type with a comma.</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Note:</strong> Excluding certain file extensions may be useful as the scanner may not realize something is not a web page and attempt to scan it, as if it actually is a web page. This wastes time and slows down the scan. You can add additional file extensions if you know you use them, and are certain they do not need to be scanned. For example, Tenable includes different image extensions by default: .png, .jpeg, etc.</td>
</tr>
<tr>
<td>Decompose Paths</td>
<td>not selected</td>
<td>Check box option that allows you to specify whether you want the scanner to break down each URL identified during the scan into additional URLs, based on directory path level.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>For example, if you specify <a href="http://www.example.com/dir1/dir2/dir3">www.example.com/dir1/dir2/dir3</a> as your target and select <strong>Decompose Paths</strong>, the scanner analyzes each of the following as separate URLs of the target:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• <a href="http://www.example.com/dir1/dir2/dir3">www.example.com/dir1/dir2/dir3</a></td>
</tr>
<tr>
<td></td>
<td></td>
<td>• <a href="http://www.example.com/dir1/dir2">www.example.com/dir1/dir2</a></td>
</tr>
<tr>
<td>Setting</td>
<td>Default Value</td>
<td>Description</td>
</tr>
<tr>
<td>-------------------------</td>
<td>---------------</td>
<td>-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• <a href="http://www.example.com/dir1">www.example.com/dir1</a></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Select this option to increase the surface coverage of your web application scan.</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Note</strong>: Scans that include path decomposition can take longer to complete than scans that do not.</td>
</tr>
<tr>
<td>Exclude Binaries</td>
<td>selected</td>
<td>Check box option that allows you to specify whether you want the scanner to audit URLs with responses in binary format.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Select this option to increase the surface coverage of your web application scan.</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Note</strong>: Scans that include binaries can take longer to complete, because the scanner cannot read the binary responses.</td>
</tr>
</tbody>
</table>

**Miscellaneous**

<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Deduplicate Similar Pages</td>
<td>Check box option that allows you to specify whether you want the scanner to ignore pages in situations when similar pages have already been audited.</td>
</tr>
</tbody>
</table>
Assessment Settings in Tenable Web App Scanning Scans

Assessment settings specify which web application elements you want the scanner to audit as it crawls your URLs. You can configure Assessment settings when you create a scan or user-defined scan template. For more information, see Scan Templates.

The Assessment settings include the following sections:

- **Scan Type**
- **Common and Backup Pages**
- **Credentials Bruteforce**
- **Elements to Audit**
- **Optional**
- **DOM Element Exclusion**

### Scan Type

These settings specify the intensity of the assessment you want the scanner to perform.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Default Value</th>
<th>Description</th>
<th>Required</th>
</tr>
</thead>
<tbody>
<tr>
<td>Assessment</td>
<td>Recommended</td>
<td>Drop-down box that allows you to choose from the following options to specify the scan type you want the scanner to perform.</td>
<td>Yes</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• <strong>Recommended</strong> — The scanner audits elements based on Tenable's recommendations.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>• <strong>None</strong> — The scanner does not audit any elements.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>• <strong>Quick</strong> — The scanner audits the most common elements listed.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>• <strong>Extensive</strong> — The scanner</td>
<td></td>
</tr>
<tr>
<td>Setting</td>
<td>Default Value</td>
<td>Description</td>
<td></td>
</tr>
<tr>
<td>-------------</td>
<td>---------------</td>
<td>-----------------------------------------------------------------------------</td>
<td></td>
</tr>
<tr>
<td>Setting</td>
<td>Description</td>
<td>Required</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>audits all the elements listed.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• <strong>Custom</strong></td>
<td>The scanner audits only the elements you select.</td>
<td></td>
</tr>
<tr>
<td>Note:</td>
<td>If you select <strong>Recommended</strong>, <strong>Quick</strong>, or <strong>Extensive</strong> and then make changes to the settings in this section, the <strong>Scan Type</strong> setting automatically changes to <strong>Custom</strong>.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Common and Backup Pages

<table>
<thead>
<tr>
<th>Setting</th>
<th>Default Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Detection Level</td>
<td>Most Detected Pages</td>
<td>Drop-down box that allows you to choose from the following options to specify which pages you want the scanner to crawl.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• <strong>Most Detected Pages</strong> - The scanner crawls only the most detected pages.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• <strong>Extended Dictionary</strong> - The scanner tests more path variations for detecting hidden pages, increasing the overall scan duration.</td>
</tr>
<tr>
<td>Note:</td>
<td>The <strong>Detection Level</strong> drop-down box is available only when you select <strong>Custom</strong> in the <strong>Scan Type</strong> settings.</td>
<td></td>
</tr>
</tbody>
</table>

### Credentials Bruteforcing

The **Credentials Bruteforcing** setting is available only for the **Scan** template.
<table>
<thead>
<tr>
<th>Setting</th>
<th>Default</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Credentials Bruteforcing</td>
<td>Disabled</td>
<td>When enabled, any plugins that perform bruteforcing included in the Plugins settings run.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>When disabled, bruteforcing plugins do not run, even if they are included in the Plugins settings.</td>
</tr>
</tbody>
</table>

**Note:** The Credentials Bruteforcing setting is available only when you select Custom in the Scan Type settings.

### Elements to Audit

These settings specify the elements in your web application that you want the scanner to analyze for vulnerabilities.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Scanner Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cookies</td>
<td>Checks for cookie-based vulnerabilities.</td>
</tr>
<tr>
<td>Headers</td>
<td>Checks for header vulnerabilities and insecure configurations (for example, missing X-Frame-Options).</td>
</tr>
<tr>
<td>Forms</td>
<td>Checks for form-based vulnerabilities.</td>
</tr>
<tr>
<td>Links and Query String Parameters</td>
<td>Checks for vulnerabilities in links and their parameters.</td>
</tr>
<tr>
<td>Parameter Names</td>
<td>Performs extensive fuzzing of parameter names.</td>
</tr>
<tr>
<td>Parameter Values</td>
<td>Performs extensive fuzzing of parameter values.</td>
</tr>
<tr>
<td>Path Parameters</td>
<td>Assesses path parameters. Path parameters are used in URL rewrite to identify the object of the action within the URL. For example, <code>scanId</code> is a path parameter for the following URL, used to identify the scan to display results: <a href="http://example.com/scan/scanId/results">http://example.com/scan/scanId/results</a></td>
</tr>
<tr>
<td>JSON Elements / Request Body</td>
<td>Audits JSON request data.</td>
</tr>
<tr>
<td>Setting</td>
<td>Scanner Action</td>
</tr>
<tr>
<td>-------------------------------------</td>
<td>-------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>(JSON)</td>
<td></td>
</tr>
<tr>
<td>XML Elements / Request Body (XML)</td>
<td>Audits XML request data.</td>
</tr>
<tr>
<td>UI Forms</td>
<td>Checks input and button groups associated with JavaScript code.</td>
</tr>
<tr>
<td></td>
<td><strong>Note:</strong> With UI Forms, Tenable Web App Scanning takes the inputs on the</td>
</tr>
<tr>
<td></td>
<td>page, and any buttons, and creates form-like elements from them (UI Forms).</td>
</tr>
<tr>
<td></td>
<td>For each button, Tenable Web App Scanning creates a UIForm element with</td>
</tr>
<tr>
<td></td>
<td>inputs that are all the inputs on the page.</td>
</tr>
<tr>
<td>UI Inputs</td>
<td>Checks orphan input elements against associated document object model (DOM)</td>
</tr>
<tr>
<td></td>
<td>events.</td>
</tr>
<tr>
<td></td>
<td><strong>Note:</strong> UI Inputs are when there is an input that responds to an event. For</td>
</tr>
<tr>
<td></td>
<td>example, after typing in the input in a search bar, the search bar responds</td>
</tr>
<tr>
<td></td>
<td>to an &quot;onEnter&quot; event which loads the next page. So, Tenable Web App</td>
</tr>
<tr>
<td></td>
<td>Scanning creates a UIInput element to audit this vector as well.</td>
</tr>
</tbody>
</table>

### Optional

<table>
<thead>
<tr>
<th>Setting</th>
<th>Default</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>URL for Remote Inclusion</td>
<td>None</td>
<td>Specifies a file on a remote host that Tenable Web App Scanning can use to</td>
</tr>
<tr>
<td></td>
<td></td>
<td>test for a Remote File Inclusion (RFI) vulnerability.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>If the scanner cannot reach the internet, the scanner uses this internally-</td>
</tr>
<tr>
<td></td>
<td></td>
<td>hosted file for more accurate RFI testing.</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Note:</strong> If you do not specify a file, Tenable Web App Scanning uses a</td>
</tr>
<tr>
<td></td>
<td></td>
<td>safe, Tenable-hosted file for RFI testing.</td>
</tr>
</tbody>
</table>

**DOM Element Exclusion**
DOM element exclusions prevent scans from interacting with specific page elements and their children. This setting is available for Scan, Overview, and PCI scan templates.

**Note:** When the scanner is deciding whether to exclude an element based on an attribute value, it performs an equality check. So, if you want to exclude any element with css class `foo`, the scanner excludes an element that has `class="foo"`, but not an element that has `class="foo bar"`.

You can add exclusions by clicking the button and selecting **Text Contents** or **CSS Attribute**.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Default</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Text Contents</td>
<td>None</td>
<td>Excludes elements based on text contents.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>For example, if you want to prevent the scanner from clicking a logout button named Log Out, you could match the text Log Out.</td>
</tr>
<tr>
<td>CSS Attribute</td>
<td>None</td>
<td>Excludes elements based on a CSS attribute key-value pair.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>For example, if you want to prevent the scanner from interacting with a form that contains the CSS attribute key-value pair <code>id=&quot;logout&quot;</code>, <code>type id</code> for the key and <code>logout</code> for the value.</td>
</tr>
</tbody>
</table>
Report Settings in Tenable Web App Scanning Scans

Report settings specify extra items to include in the scan report. For example, scan reports for Tenable PCI ASV scans require load balancer usage details if applicable.

You can configure Report settings when you create a scan or user-defined scan template using the Tenable-provided scan template, PCI. For more information, see Scan Templates.

The Report settings include the following sections:

- (Tenable PCI ASV 6.1) Load Balancers Usage

(Tenable PCI ASV 6.1) Load Balancers Usage

This setting specifies load balancer usage to include in the scan report.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Default Value</th>
<th>Description</th>
<th>Required</th>
</tr>
</thead>
<tbody>
<tr>
<td>(Tenable PCI ASV 6.1) Load Balancers Usage</td>
<td>None</td>
<td>Text box that allows you to enter a list of load balancers and their configuration as required for Tenable PCI ASV if applicable.</td>
<td>No</td>
</tr>
</tbody>
</table>
Plugin Settings in Tenable Web App Scanning Scans

**Required Tenable Web App Scanning User Role:** Scan Manager or Administrator

Configure Plugin settings to specify the plugins and plugin families you want the scanner to use as it scans your web application.

When you create and launch a scan, Tenable Web App Scanning uses plugins in various plugin families, each designed to identify certain types of finding or vulnerabilities, to analyze your web application. Tenable Web App Scanning uses the 98000-98999 and 112290-117290 plugin ID ranges for scanning. For more information about Tenable Web App Scanning plugin families, see the [Tenable Web App Scanning Plugin Families](#) site.

**Note:** Tenable Web App Scanning displays only the first detected 25 instances of an individual plugin per scan in your scan results. If you see 25 instances of a single plugin in your scan results, Tenable recommends taking remediation steps to address the corresponding vulnerability and then rescanning your target.

You can configure Plugin settings when you create a scan or user-defined scan template and select the API, Overview, (Basic) Scan, Standard Scan, or Custom template or scan type. For more information, see [View Your Scan Plugins](#).

**Tip:** If you want to save your settings configurations and apply them to other scans, you can [create and configure a user-defined scan template](#).

The plugins settings contain the following sections:

- **All enabled**
- **Plugins table**

**All Enabled**

A toggle you can click to enable or disable all plugins simultaneously.

**Plugins Table**
<table>
<thead>
<tr>
<th>Column</th>
<th>Description</th>
<th>Actions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name</td>
<td>Specifies the plugin family to which the grouped plugins belong.</td>
<td>• View the name of each plugin family.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Select the column to sort the table alphabetically or by family name.</td>
</tr>
<tr>
<td>Total</td>
<td>Specifies the number of plugins in the plugin family.</td>
<td>• View the number of plugins in the family.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Select the column to sort the table by number of plugins in each family.</td>
</tr>
<tr>
<td>Status</td>
<td>Toggle that allows you to specify if you want the scanner to use the plugins in the plugin family to analyze your target.</td>
<td>• Click the <strong>Status</strong> toggle to disable the plugins in the plugin family.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• (Optional) To enable a disabled plugin family, click the <strong>Status</strong> toggle.</td>
</tr>
</tbody>
</table>

In the plugins table, you can view details about or disable individual plugins.

To view details about individual plugins:

1. In the table, click the row for the family that contains a plugin you want to view.
   
   A plugin family details plane appears, displaying the name, ID, and status for each plugin in the family in a paginated list.

2. (Optional) To locate a specific plugin, in the **Search** box, type the name or ID.

3. Click the plugin for which you want to view details.

To disable individual plugins:
1. In the table, click the row for the family that contains the plugin you want to disable.

   A plugin family details plane appears, displaying the name, ID, and status for each plugin in the family in a paginated list.

2. (Optional) To locate a specific plugin, in the **Search** box, type the name or ID.

3. In the **Status** column, select the check box next to the plugin you want to disable.

4. (Optional) To enable a disabled plugin, select the check box.

5. Click **Save**.

   The details plane disappears.

   Tenable Web App Scanning updates your plugin selections.
Credentials in Tenable Web App Scanning Scans

**Note:** The topics in this section describe credentials in the new interface only. If you activate the new interface, you can view a snapshot of historical credentials that you configured in the classic interface, but you cannot modify those credentials.

In Tenable Web App Scanning scans, you can configure credentials settings that allow Tenable Web App Scanning to perform an authenticated scan on a web application. Credentialed scans can perform a wider variety of checks than non-credentialed scans, which can result in more accurate scan results.

Scans in Tenable Web App Scanning use **managed credentials**. Managed credentials allow you to store credential settings centrally in a credential manager. You can then add those credential settings to multiple scan configurations instead of configuring credential settings for each individual scan.

Tenable Web App Scanning scans support credentials in the following authentication types:

- **HTTP Server Authentication**
- **Web Application Authentication**
- **Client Certificate Authentication**

**Tip:** If you want to scan an API with the API scan template, and your API requires keys or a token for authentication, you can add the expected custom headers in the **Advanced** settings in the **HTTP Settings** section.

You can configure credentials settings in Tenable Web App Scanning scans using the following methods.

<table>
<thead>
<tr>
<th>Credentials Category</th>
<th>Authentication Type</th>
<th>Configuration Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>HTTP Server Authentication</td>
<td>–</td>
<td>Use the Tenable Web App Scanning user interface to <strong>manually configure credentials settings in scans</strong>.</td>
</tr>
<tr>
<td>Web Application Authentication</td>
<td>Login Form</td>
<td></td>
</tr>
<tr>
<td>-------------------------------</td>
<td>------------</td>
<td></td>
</tr>
<tr>
<td>Cookie Authentication</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Selenium Authentication</td>
<td>Do one of the following:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>◦ Use the Selenium Integrated Development Environment (IDE) extension in Chrome to record credentials, then <a href="#">manually add the credentials to scans</a> via the Tenable Web App Scanning user interface.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>◦ Use the Tenable Web App Scanning Chrome Extension to <a href="#">record credentials and automatically add the credentials to your scan configurations</a>.</td>
<td></td>
</tr>
<tr>
<td>API Key</td>
<td>Use the Tenable Web App Scanning user interface to <a href="#">manually configure credentials settings in scans</a>.</td>
<td></td>
</tr>
<tr>
<td>Bearer Authentication</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Client Certificate Authentication</td>
<td>Use the Tenable Web App Scanning user interface to <a href="#">manually configure credentials settings in scans</a>.</td>
<td></td>
</tr>
</tbody>
</table>
Configure Credentials Settings in a Tenable Web App Scanning Scan

**Required Tenable Web App Scanning User Role:** Scan Manager or Administrator

Before you begin:

- (Cookie authentication) Determine the cookie authentication credentials for the web application you want to scan.
- (Selenium authentication) In the [Chrome Web Store](#), download the Selenium IDE extension, do one of the following:
  - To configure credentials using the Selenium IDE extension, download the Selenium IDE extension.
  - To configure credentials via the Tenable Web App Scanning Chrome Extension, download the Tenable Web App Scanning Chrome Extension.

To configure credentials settings in a Tenable Web App Scanning scan:

1. **Create** or **edit** a scan.
2. Click **Credentials**.
   
   The credentials details appear.
3. Next to **Add Credentials**, click the ✚ button.
   
   The **Select Credential Type** plane appears.
4. Do one of the following:
   
   - **Add existing credentials.**
     
     The **Managed Credentials** section of the **Select Credential Type** plane contains any credentials where you have **Can Use** or **Can Edit** permissions.
     
     a. (Optional) Search for a managed credential in the list by typing your search criteria in the text box and clicking the ☰ button.
b. In the **Managed Credentials** section, click each managed credential you want to add.

The **Select Credential Type** plane remains open.

c. To close the **Select Credential Type** plane, click the **X** button in the upper-right corner of the plane.

**Create new credentials.**

a. In the **Web Application Authentication** section, click the credentials type you want to create:

   - **HTTP Server Application**

   - **Web Application Authentication**

   The settings plane for that credential type appears.

b. In the first text box, type a name for the credentials.

c. (Optional) In the second text box, type a description for the credentials.

d. Configure the settings for the credentials type:

   - **HTTP Server Application**

   - **Web Application Authentication**

5. **Add user permissions.**

6. Click **Save** to save the credentials changes.

   Tenable Web App Scanning closes the settings plane and adds the credentials to the credentials table for the scan.

   If you created new credentials, Tenable Web App Scanning adds the credentials to the credential manager.

7. Click **Save** to save the scan changes.
Configure Selenium Credentials Settings Automatically

**Required Additional License:** Tenable Web App Scanning

You can use the Tenable Web App Scanning Chrome Extension to record Selenium credentials and add those credentials automatically to new or existing scans.

**Note:** The Tenable Web App Scanning Chrome Extension updates only Selenium credentials settings in web application scans. You must configure the other scan options via the Tenable Web App Scanning Chrome Extension interface.

Before you begin:

- Download the Tenable Web App Scanning Chrome Extension from the [Chrome Web Store](#).
- Log in to Tenable Vulnerability Management, as described in [Log in to Tenable Vulnerability Management](#).

To record selenium credentials via the Tenable Web App Scanning Chrome Extension:

1. In the upper-right corner of your browser, click the Tenable Vulnerability Management logo.

   The Tenable Web App Scanning Chrome Extension **Create a Scan** window appears.

2. Do one of the following:

<table>
<thead>
<tr>
<th>Task</th>
<th>Action</th>
</tr>
</thead>
</table>
| Record and add Selenium credentials to an existing scan | - Click **Add to Existing Scan**.  
   The **Add to Existing Scan** window appears, displaying a list of your existing scans.  
   - In the search box, type the name of the scan you want to add Selenium credentials to.  
   - Click the **search** button.  
   The Tenable Web App Scanning Chrome... |
Record and add Selenium credentials to a new scan

- Click **Create New Scan**.
  The **New Scan** window appears.
  - In the **Name** box, type a name for your scan.
  - In the **URL** box, type the target in URL format for the web application you want to scan.

3. Click **Next**.

   The extension opens to the link you provided as your scan target.

4. Click **Record**.

   The Tenable Web App Scanning Chrome Extension begins recording your session.
   A message appears to indicate recording has begun.

5. Perform the log in sequence you use to authenticate in to your web application.

6. After you successful authenticate in to the system, highlight a section of text on the web page that appears only upon successful authentication (for example, **Welcome, [your username]!**).

7. In the lower-right corner, click **Done**.

8. (Optional) To play back your recorded login sequence, click **Play**.

9. After you have successfully recorded your authentication login sequence, click **Save**.

   Tenable Web App Scanning Chrome Extension saves and imports your credentials to the scan.

What to do next:

- If you used the Tenable Web App Scanning Chrome Extension to create a new scan, you must **configure** the other scan options in the Tenable Web App Scanning Chrome Extension interface.
Tenable Web App Scanning Selenium Commands

Selenium commands in Tenable Web App Scanning are used to record authentication and crawling scripts so that users can tell the scanner exactly what to do in certain scenarios. You can run these commands in the Selenium IDE Extension or in the Tenable Web App Scanning Chrome Extension, both available for download in the [Chrome Web Store](https://chrome.google.com/webstore/detail/tenable-web-app-scanng/en).

Support for Selenium commands in Tenable Web App Scanning is detailed below:

<table>
<thead>
<tr>
<th>Commands Supported</th>
<th>Commands Not Supported</th>
</tr>
</thead>
<tbody>
<tr>
<td>• addSelection</td>
<td>• close</td>
</tr>
<tr>
<td>• answerOnNextPrompt</td>
<td>• debugger</td>
</tr>
<tr>
<td>• assert</td>
<td>• do</td>
</tr>
<tr>
<td>• assertAlert</td>
<td>• else</td>
</tr>
<tr>
<td>• assertChecked</td>
<td>• else if</td>
</tr>
<tr>
<td>• assertConfirmation</td>
<td>• end</td>
</tr>
<tr>
<td>• assertEditable</td>
<td>• execute async script</td>
</tr>
<tr>
<td>• assertElementNotPresent</td>
<td>• execute script</td>
</tr>
<tr>
<td>• assertElementPresent</td>
<td>• for each</td>
</tr>
<tr>
<td>• assertNotChecked</td>
<td>• if</td>
</tr>
<tr>
<td>• assertNotEditable</td>
<td>• repeat if</td>
</tr>
<tr>
<td>• assertNotElementPresent</td>
<td>• run</td>
</tr>
<tr>
<td>• assertNotSelectedValue</td>
<td>• select window</td>
</tr>
<tr>
<td>• assertNotText</td>
<td>• store</td>
</tr>
<tr>
<td>• assertPrompt</td>
<td>• store attribute</td>
</tr>
<tr>
<td>• assertSelectedLabel</td>
<td>• store json</td>
</tr>
<tr>
<td>• assertSelectedValue</td>
<td>• store text</td>
</tr>
<tr>
<td>• assertText</td>
<td>• store title</td>
</tr>
<tr>
<td>• assertTitle</td>
<td></td>
</tr>
</tbody>
</table>
• assertValue
• check
• chooseCancelOnNextConfirmation
• chooseCancelOnNextPrompt
• chooseOkOnNextConfirmation
• click
• clickAt
• doubleClick
• doubleClickAt
• echo
• editContent
• mouseDown
• mouseDownAt
• mouseMoveAt
• mouseOut
• mouseOver
• mouseUp
• mouseUpAt
• open
• pause
• removeSelection
• runScript
• select
• selectFrame

• store value
• store window handle
• store xpath count
• times
• while
- sendKeys

**Note:** In addition to arbitrary text, the sendKeys command only supports the following escape sequences:
- `\${KEY_ENTER}`
- `\${KEY_DELETE}`
- `\${KEY_BACKSPACE}`

- setSpeed
- setWindowSize
- submit
- type
- uncheck
- verify
- verifyChecked
- verifyEditable
- verifyElementNotPresent
- verifyElementPresent
- verifyNotChecked
- verifyNotEditable
- verifyNotSelectedValue
- verifyNotText
- verifySelectedLabel
- verifySelectedValue
- verifyText
- verifyTitle
- verifyValue
- waitForElementEditable
- waitForElementNotEditable
- waitForElementNotPresent
- waitForElementNotVisible
- waitForElementPresent
- waitForElementVisible
- webdriverAnswerOnNextPrompt
- webdriverAnswerOnVisiblePrompt
- webdriverChooseCancelOnNextConfirmation
- webdriverChooseCancelOnNextPrompt
- webdriverChooseCancelOnVisibleConfirmation
- webdriverChooseCancelOnVisiblePrompt
- webdriverChooseOkOnNextConfirmation
- webdriverChooseOkOnVisibleConfirmation
### HTTP Server Authentication Settings in Tenable Web App Scanning Scans

In a Tenable Web App Scanning scan, you can configure the following settings for HTTP server-based authentication credentials.

<table>
<thead>
<tr>
<th>Option</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Username</td>
<td>Type the username Tenable Web App Scanning uses to authenticate to the HTTP-based server.</td>
</tr>
<tr>
<td>Password</td>
<td>Type the password Tenable Web App Scanning uses to authenticate to the HTTP-based server.</td>
</tr>
<tr>
<td>Authentication Type</td>
<td>In the drop-down list, select one of the following authentication types:</td>
</tr>
<tr>
<td></td>
<td>- Basic/Digest</td>
</tr>
<tr>
<td></td>
<td>- NTLM</td>
</tr>
<tr>
<td></td>
<td>- Kerberos</td>
</tr>
<tr>
<td>Kerberos Domain</td>
<td>(Required when enabling the Kerberos Authentication Type) The realm to which Kerberos Target Authentication belongs, if applicable.</td>
</tr>
<tr>
<td>Key Distribution Center (KDC)</td>
<td>(Required when enabling the Kerberos Authentication Type) This host supplies the session tickets for the user.</td>
</tr>
</tbody>
</table>

**Note:** Tenable Web App Scanning does not support multiple HTTP authentication types for a single target.
Web Application Authentication

In a Tenable Web App Scanning scan, you can configure one of the following types of Web Application Authentication credentials:

- Login Form Authentication
- Cookie Authentication
- Selenium Authentication
- API Key Authentication
- Bearer Authentication

Login Form Authentication

<table>
<thead>
<tr>
<th>Option</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Authentication Method</td>
<td>In the drop-down box, select <strong>Login Form</strong>.</td>
</tr>
<tr>
<td>Login Page</td>
<td>Type the URL of the login page for the web application you want to scan.</td>
</tr>
</tbody>
</table>
| Credentials       | For each field in the target's login form (that is, username, password, and domain, etc.) complete a credential entry as follows:

  a. In the left-hand text box, type the value of the login field's name or id HTML DOM attribute.

  b. In the right-hand text box in the row, type the literal value to insert in that text field at login.

A typical configuration example:

Tip: To see a text field's name or id HTML DOM attribute, right-click on the text field and select “Inspect” in either your Firefox or Chrome browser.
### Cookie Authentication

<table>
<thead>
<tr>
<th>Option</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Authentication Method</strong></td>
<td>In the drop-down box, select <strong>Cookie Authentication</strong>.</td>
</tr>
<tr>
<td><strong>Session Cookies</strong></td>
<td>Do the following:</td>
</tr>
<tr>
<td></td>
<td>a. In the first text box, type the name of the cookie authentication credentials.</td>
</tr>
<tr>
<td></td>
<td>b. In the second text box, type the value of the cookie authentication credentials.</td>
</tr>
<tr>
<td><strong>Page to Verify Active Session</strong></td>
<td>Type the URL that Tenable Web App Scanning can continually access to validate the authenticated session.</td>
</tr>
<tr>
<td><strong>Pattern to Verify Active Session</strong></td>
<td>Type a word, phrase, or regular expression that appears on the website only if the session is still active (for example, <em>Hello, your username</em>.). Note that leading slashes will be escaped and .* is not required at the beginning or end of the pattern.</td>
</tr>
</tbody>
</table>
Selenium Authentication

<table>
<thead>
<tr>
<th>Option</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Authentication Method</td>
<td>Select <em>Selenium Authentication</em>.</td>
</tr>
<tr>
<td>Selenium Script (.side)</td>
<td>Do the following:</td>
</tr>
<tr>
<td></td>
<td>a. In the Selenium IDE extension, record your authentication credentials in the Selenium IDE extension.</td>
</tr>
<tr>
<td></td>
<td>b. Click <em>Add File</em>.</td>
</tr>
<tr>
<td></td>
<td>The file manager for your operating system appears.</td>
</tr>
<tr>
<td></td>
<td>c. Navigate to and select your Selenium credentials <em>side</em> file.</td>
</tr>
<tr>
<td></td>
<td>Tenable Web App Scanning imports the credentials file.</td>
</tr>
<tr>
<td>Page to Verify Active Session</td>
<td>Type the URL that Tenable Web App Scanning can continually access to validate the authenticated session.</td>
</tr>
<tr>
<td>Pattern to Verify Active Session</td>
<td>Type a word, phrase, or regular expression that appears on the website only if the session is still active (for example, <em>Hello, your username.</em>). Note that leading slashes will be escaped and .* is not required at the beginning or end of the pattern.</td>
</tr>
</tbody>
</table>

API Key Authentication

<table>
<thead>
<tr>
<th>Option</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Authentication Method</td>
<td>Select <em>API Key</em>.</td>
</tr>
<tr>
<td>Headers</td>
<td>Do the following:</td>
</tr>
<tr>
<td></td>
<td>a. In the first text box, type the name of the HTTP header.</td>
</tr>
<tr>
<td></td>
<td>b. In the second text box, type the value of the HTTP header.</td>
</tr>
<tr>
<td></td>
<td>c. (Optional) Add additional headers by clicking the + button.</td>
</tr>
<tr>
<td><strong>Page to Verify Active Session</strong></td>
<td>Type the URL that Tenable Web App Scanning can continually access to validate the authenticated session.</td>
</tr>
<tr>
<td>----------------------------------</td>
<td>--------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td><strong>Pattern to Verify Active Session</strong></td>
<td>Type a word, phrase, or regular expression that appears on the website only if the session is still active (for example, Hello, your username.). Note that leading slashes will be escaped and . * is not required at the beginning or end of the pattern.</td>
</tr>
</tbody>
</table>

**Bearer Authentication**

<table>
<thead>
<tr>
<th><strong>Option</strong></th>
<th><strong>Action</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Authentication Method</strong></td>
<td>Select <strong>Bearer Authentication</strong>.</td>
</tr>
<tr>
<td><strong>Bearer Token</strong></td>
<td>Type the value of the bearer token.</td>
</tr>
</tbody>
</table>

**Note:** Bearer Token is a part of OAuth. Tenable Web App Scanning supports OAuth in cases where it is a part of OpenIDConnect and recordable via a selenium script. Implementations of OAuth that are not a part of OpenIDConnect are supported only where the token is dynamic, or you craft a special static (non-dynamic) token for authentication purposes.

<table>
<thead>
<tr>
<th><strong>Page to Verify Active Session</strong></th>
<th>Type the URL that Tenable Web App Scanning can continually access to validate the authenticated session.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Pattern to Verify Active Session</strong></td>
<td>Type a word, phrase, or regular expression that appears on the website only if the session is still active (for example, Hello, your username.). Note that leading slashes will be escaped and . * is not required at the beginning or end of the pattern.</td>
</tr>
</tbody>
</table>
## Client Certificate Authentication

In a Tenable Web App Scanning scan, you can configure **Client Certificate Authentication** credentials.

<table>
<thead>
<tr>
<th>Option</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Client Certificate</td>
<td>The file that contains the PEM-formatted certificate used to communicate with the host.</td>
</tr>
<tr>
<td>Client Certificate Private Key</td>
<td>The file that contains the PEM-formatted private key for the client certificate.</td>
</tr>
<tr>
<td>Client Certificate Private Key Passphrase</td>
<td>The passphrase for the private key, if required.</td>
</tr>
<tr>
<td>Page to Verify Successful Authentication</td>
<td>Type the URL that Tenable Web App Scanning can access to validate the authenticated session.</td>
</tr>
<tr>
<td>Pattern to Verify Successful Authentication</td>
<td>Type a word, phrase, or regular expression that appears on the website only if the authentication is successful (for example, Welcome, your username!). Leading slashes will be escaped and .* is not required at the beginning or end of the pattern.</td>
</tr>
</tbody>
</table>
View Scan Details

**Required Scan Permissions:** Can View

You can view scan results for web application scans you own or that the scan owners have shared with you.

To view scan details for an individual web application scan:

1. In the upper-left corner, click the button.
   The left navigation plane appears.

2. In the left navigation plane, click :掃描: Scans.
   The **My Scans** page appears.

3. In the scans table, click the scan where you want to view details.
   The **Scan Details** page appears. By default, this page displays details of the latest run of the scan.

4. Do any of the following:

<table>
<thead>
<tr>
<th>Section</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Table header</td>
<td>• <strong>Edit</strong> the scan configuration.</td>
</tr>
<tr>
<td></td>
<td>• <strong>Move</strong> a scan to the trash folder.</td>
</tr>
<tr>
<td>Severity summaries</td>
<td>For the scan job currently displayed, view the number of vulnerabilities with a <strong>Critical</strong>, <strong>High</strong>, <strong>Medium</strong>, or <strong>Low</strong> vulnerability severity.</td>
</tr>
<tr>
<td><strong>Scan Details</strong> section</td>
<td>For the scan job currently displaying, view the following details:</td>
</tr>
<tr>
<td></td>
<td>• <strong>Status</strong> – The <a href="#">status</a> of the scan.</td>
</tr>
<tr>
<td></td>
<td>• <strong>Start Time</strong> – The start date and time for the scan.</td>
</tr>
<tr>
<td></td>
<td>• <strong>Template</strong> – The <a href="#">scan template</a> you used to configure and run the scan.</td>
</tr>
<tr>
<td></td>
<td>• <strong>End Time</strong> – The end date and time for the scan.</td>
</tr>
<tr>
<td><strong>Vulns by Plugin tab</strong></td>
<td>For the scan job currently displayed, view vulnerability data, organized by plugin. On this tab, you can:</td>
</tr>
<tr>
<td>-------------------------</td>
<td>--------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td></td>
<td>• View information about each vulnerability:</td>
</tr>
<tr>
<td></td>
<td>• Severity icon — The severity of the vulnerability.</td>
</tr>
<tr>
<td></td>
<td>• <strong>Name</strong> — The name of the vulnerability, as defined in the Common Vulnerabilities and Exposures (CVE) system.</td>
</tr>
<tr>
<td></td>
<td>• <strong>Family</strong> — The plugin family.</td>
</tr>
<tr>
<td></td>
<td>• <strong>Vulnerabilities</strong> — The number of vulnerability instances.</td>
</tr>
<tr>
<td></td>
<td><strong>Tip:</strong> A vulnerability instance is a single instance of a vulnerability appearing on an asset, identified uniquely by the vulnerable URL and the input used to identify the vulnerability.</td>
</tr>
<tr>
<td></td>
<td>• To sort, increase or decrease the number of rows per page, or navigate to another page of the table, see Tenable Web App Scanning Tables.</td>
</tr>
<tr>
<td></td>
<td>• To view vulnerability details, click the row for that vulnerability.</td>
</tr>
<tr>
<td></td>
<td>The <strong>Vulnerability Details</strong> page appears.</td>
</tr>
<tr>
<td></td>
<td>From the <strong>Vulnerabilities Details</strong> page, you can view plugin attachments for more information about each plugin.</td>
</tr>
<tr>
<td><strong>Notes tab</strong></td>
<td>For the scan job currently displayed, view the scan notes that Tenable Web App Scanning generates to provide context about your scan's success and efficiency. The <strong>Notes</strong> tab appears and displays scan notes only if the scanner identifies information during the scan that can help you configure your</td>
</tr>
</tbody>
</table>
scan for more effective results.

On this tab, you can:

- View information about the scan notes:
  
  - **Severity** — Metric used to quantify how significant the finding is for the scan's performance, displayed as **Critical**, **High**, **Medium**, **Low**, or **Info**. For information about scan notes vulnerability metrics, see [Scan Notes in Severity Details](#).

  - **Scan Notes** — Descriptive title for the scan note.

  - **Description** — Detailed information about the scan findings, along with troubleshooting advice and suggestions to improve your overall scan quality.

## History tab

View the scan history.

This tab contains a table listing each time the scan has run. For the scan run currently displaying in the **Scan Details** page, Tenable Web App Scanning adds the label **Current** to the run. By default, the latest scan run is labeled **Current**.

**Note:** Scan history is unavailable for imported scans and for configured scans that have not yet run.

On this tab, you can:

- View summary information about each time the scan was run:

  - **Created At** — The start date and time the scan was created.

  - **Start Time** — The start date and time the scan was started by the scanner.

  - **End Time** — The end date and time the scan was completed.

  - **Duration** — The duration of the scan.
Note: The **Duration** time span includes the time Tenable Web App Scanning takes to run the scan and process the results, as well as any time the scan spent in **Pending** status.

As a result, **Duration** time differs from the **Overall Max Scan Time** you specified in the **Advanced settings**, which applies only to the scan run time.

- **Status** — The [status](#) of the scan.
- **Filter** the data displayed in the table.
- Sort or navigate to another page of the table. For more information, see [Tenable Web App Scanning Tables](#).
- View details for a historical scan by clicking a scan job row in the table.

Tenable Web App Scanning marks the scan job you selected as **Current** and updates the [Scan Details](#) section to show data for the selected job.
# Scan Status

In Tenable Web App Scanning, depending on its state, scans can have the following status values:

**Note:** The percentage on the Tenable Web App Scanning scan progress indicator represents the percentage of completed tasks in the scan. A scan with one task shows 0% progress until the scan completes.

**Tip:** For Tenable Web App Scanning scans, you can hover over the scan status to view more status information in a pop-up window, such as the number of targets scanned and the elapsed or final scan time. The window shows different information based on the scan's current status.

<table>
<thead>
<tr>
<th>Status</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Aborted</strong></td>
<td>The scanner did not complete the scan's latest scan job. Tenable Web App Scanning may abort a scan job because the job was queued without running for more than four hours, or because Tenable Web App Scanning, or the scanner, encountered other problems and aborted the scan. For more information about why Tenable Web App Scanning aborted a scan, view the scan notes.</td>
</tr>
<tr>
<td><strong>Canceled</strong></td>
<td>At the user's request, Tenable Web App Scanning successfully stopped the latest scan job.</td>
</tr>
<tr>
<td><strong>Completed</strong></td>
<td>The scanner completed the scan's latest scan job.</td>
</tr>
<tr>
<td><strong>Never Run</strong></td>
<td>The scan is either empty (the scan is new or has yet to run) or pending (Tenable Web App Scanning is processing a request to run the scan).</td>
</tr>
<tr>
<td><strong>Pending</strong></td>
<td>Tenable Web App Scanning has the scan queued to launch.</td>
</tr>
<tr>
<td><strong>Processing</strong></td>
<td>The scan has been completed but the results are still being processed. The</td>
</tr>
</tbody>
</table>

**Note:** Tenable Web App Scanning aborts scans that remain in Pending status for more than four hours. If Tenable Web App Scanning aborts your scan, modify your scan schedules to reduce the number of overlapping scans. If you still have issues, contact Tenable Support.
<table>
<thead>
<tr>
<th>Status</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>scanner is processing vulnerability findings, attachments, notes, and other metadata.</td>
</tr>
<tr>
<td>Running</td>
<td>The scanner is currently running the scan.</td>
</tr>
<tr>
<td>Stopping</td>
<td>The scanner acknowledged the stop request and is in the process of stopping.</td>
</tr>
</tbody>
</table>
View Scan Progress

**Required Additional License:** Tenable Web App Scanning

**Required Tenable Web App Scanning User Role:** Basic, Scan Operator, Standard, Scan Manager, or Administrator

**Required Scan Permissions:** Can Control

When you launch a Tenable Web App Scanning scan, you can view the progress of the scan as it runs. Because scan progress information is based on historical data, Tenable Web App Scanning scan progress data appears only for historical scans.

To view scan progress for a Tenable Web App Scanning scan:

1. **Launch** an existing scan.
   
The scan status appears in the **Status** column.

2. After the status changes from **Pending** to **Running**, next to the scan status, view the following scan progress indicators:

<table>
<thead>
<tr>
<th>Progress Indicator</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Percentage</td>
<td>The portion of the scan job that the scanner has already completed, displayed as a percentage of the total estimated scan time.</td>
</tr>
<tr>
<td>Estimate</td>
<td>The estimated time remaining for the scanner to complete the scan, displayed in minutes.</td>
</tr>
<tr>
<td>Overdue</td>
<td>The amount of extra time the scan job is taking compared to previous scan jobs. This indicator only appears if the scan is running longer than previous scans.</td>
</tr>
<tr>
<td>Progress bar</td>
<td>A visual indicator of the time remaining for the scanner to complete the scan. When the scan is complete or stops for any other reason (for example, if Tenable Vulnerability Management aborts the scan), the progress bar disappears.</td>
</tr>
</tbody>
</table>
To view scan progress for a Tenable Web App Scanning scan not in progress, see Scan Status.
## Scan Notes in Severity Details

Tenable Web App Scanning uses the severity ratings described in the following table to categorize scan notes that appear in your scan results.

<table>
<thead>
<tr>
<th>Rating</th>
<th>Description</th>
<th>Example</th>
</tr>
</thead>
</table>
| **Critical** | Information explaining that the scan may have impacted the web application's availability or integrity.  
The scan note title appears in red. | **Service Stopped Responding** — The scanner aborted the scan after encountering too many consecutive request timeouts. The scan results may be incomplete, and you should verify that the target is not corrupted or unavailable.  
Tenable recommends that you investigate the repeated timeouts to determine why the target cannot support the requests the scanner sent. You may need to decrease performance configurations in the scan template. |
| **High** | Information explaining that the scan stopped unexpectedly before the scanner finished analyzing the web application targets. As a result, the scan did not sufficiently analyze the web application for vulnerabilities, and the user should troubleshoot and re-attempt the scan.  
The scan note title appears in yellow. | **Scan Crashed** — The scan crashed for an unexpected reason. As a result, the scan results are missing or incomplete. |
<p>| <strong>Medium</strong> | Information explaining why scan results are missing or incomplete. The findings usually concern scans that could not be | <strong>Out of Scope URL</strong> — The scanner did not scan the target URL because it matches one of the |</p>
<table>
<thead>
<tr>
<th></th>
<th>Description</th>
<th>Status</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>started due to configuration errors. The web application is not impacted.</td>
<td>Low</td>
<td>The scan note title appears in black and white. scope exclusion criteria specified in the scan template settings.</td>
</tr>
<tr>
<td></td>
<td>The scan note title appears in black and white.</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Low</strong></td>
<td>Information explaining variations in scan duration. The findings do not impact the web application or scan results.</td>
<td></td>
<td><strong>Target Response Has Been Truncated</strong> — The target scan results exceeded the <strong>Max Response Size</strong> specified in the scan configurations. As a result, the content is truncated, which could cause data collection and assessment errors.</td>
</tr>
<tr>
<td></td>
<td>The scan note title appears in green.</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Info</strong></td>
<td>Information that does not impact the scan results, but that can help you configure your scan settings more efficiently.</td>
<td></td>
<td><strong>Authentication Detected</strong> — The scanner detected an HTTP server authentication or login form. You can configure your credentials to allow the scanner to access more pages.</td>
</tr>
<tr>
<td></td>
<td>The scan note title appears in blue.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
## Scan Filters

On the **Scans** page, you can filter Tenable Web App Scanning scans using Tenable-provided filters.

<table>
<thead>
<tr>
<th>Filter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Created Date</td>
<td>The date the scan configuration was created.</td>
</tr>
<tr>
<td>Description</td>
<td>The description of the scan configuration.</td>
</tr>
<tr>
<td>Finalized Date</td>
<td>The date on which the scan last completed.</td>
</tr>
<tr>
<td>Last Modified Date</td>
<td>The date on which the scan configuration was last modified.</td>
</tr>
<tr>
<td>Last Scanned Date</td>
<td>The date on which the scan was last ran.</td>
</tr>
<tr>
<td>Name</td>
<td>The name of the scan configuration.</td>
</tr>
<tr>
<td>Schedule</td>
<td>Whether a scan schedule is enabled or on demand.</td>
</tr>
<tr>
<td>Status</td>
<td>The status of the scan. For more information about scan statuses, see <a href="#">Scan Status</a>.</td>
</tr>
<tr>
<td>Target</td>
<td>The target URL used to launch the scan.</td>
</tr>
<tr>
<td>Template</td>
<td>The Tenable-provided scan template the scan configuration was based on.</td>
</tr>
<tr>
<td>User Template</td>
<td>The user-defined scan template the scan configuration was based on.</td>
</tr>
</tbody>
</table>
Copy a Scan Configuration

**Required Tenable Web App Scanning User Role:** Scan Operator, Standard, Scan Manager, or Administrator

When you copy a scan configuration, Tenable Web App Scanning assigns you owner permissions for the copy and assigns the copy [scan permissions](#) from the original scan.

To copy a scan configuration:

1. In the upper-left corner, click the **button.

   The left navigation plane appears.

2. In the left navigation plane, click **Scans**.

   The Tenable Web App Scanning *My Scans* page appears:

   ![My Scans](#)

3. In the row, click the **button.

   A drop-down box of options appears.

4. Click **Copy**.

   The **Copy to Folder** plane appears, which contains a list of your scan folders.

5. Click the folder where you want to save the copy.

6. Click **Copy**.

   **Scan Copied Successfully:** Tenable Web App Scanning creates a copy of the scan with *Copy* of prepended to the name and assigns you owner permissions for the copy. The copy appears in the scans table of the folder you selected.
Export Scan Results

**Required Tenable Web App Scanning User Role:** Basic, Scan Operator, Standard, Scan Manager, or Administrator

**Required Scan Permissions:** Can View

You can export both imported scan results and results that Tenable Web App Scanning collects directly from scanners.

Tenable Web App Scanning retains individual scan results until the results are 15 months old.

**Note:** Filters are not applicable for Tenable Web App Scanning exports, All results will are exported.

**Note:** For archived scan results (that is, results older than 35 days), the export format is limited to .nessus and .csv files.

**Note:** When a scan is actively running, the Export button does not appear in the Tenable Vulnerability Management interface. Wait until the scan completes, then export the scan results.

To export results for an individual scan in the new interface:

1. In the upper-left corner, click the ☰ button.

   The left navigation plane appears.

2. Do one of the following: In the left navigation plane, click **Scans**.

3. In the **Folders** section, click a folder to load the scans you want to view.

   The scans table updates to display the scans in the folder you selected.
4. Do one of the following:

<table>
<thead>
<tr>
<th>Location</th>
<th>Scope of Export</th>
</tr>
</thead>
</table>
| Scans table  | a. In the scans table, roll over the scan you want to export.  
|              | b. Click the button.  
|              | A menu appears.  
|              | c. Click Export.  
|              | The Export plane appears.  

| Scan Details | a. In the scans table, click the scan you want to export.  
|              | b. Next to the scan name, click Export.  
|              | The Export plane appears.  

5. Select an export format:

<table>
<thead>
<tr>
<th>Format</th>
<th>Description</th>
<th>Supported for Archived Scan Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tenable Web App Scanning</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HTML</td>
<td>A web-based .html file that contains the list of targets, scan results, and scan notes.</td>
<td>n/a</td>
</tr>
<tr>
<td>PDF</td>
<td>An Adobe .pdf file that contains the list of targets, scan results, and scan notes.</td>
<td>n/a</td>
</tr>
<tr>
<td>Nessus</td>
<td>A .nessus file in XML format that contains the list of targets, scan settings defined by the user, and scan results. Password credentials are stripped so they are not exported as plain text in the XML.</td>
<td>n/a</td>
</tr>
</tbody>
</table>

Note: Tenable Vulnerability Management cannot export PDF files with more than 400,000 individual scan results.
### Note
To learn more about the .nessus file format, see Nessus File Format.

| Format | Description | Requires Override?
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>CSV</td>
<td>A .csv text file with only scan results.</td>
<td>n/a</td>
</tr>
<tr>
<td>JSON</td>
<td>A .json file that contains the list of targets, scan settings defined by the user, scan results, and scan notes. Password credentials are stripped so they are not exported as plain text in the .json file.</td>
<td>n/a</td>
</tr>
<tr>
<td>ZIP</td>
<td>Returns a .zip file containing debug information for the specified Tenable Web App Scanning scan. The ZIP file includes browser console logs, HTTP requests and responses, and Selenium information if applicable.</td>
<td>Yes</td>
</tr>
</tbody>
</table>

6. For Tenable Vulnerability Management scans, if you select the PDF - Custom or HTML - Custom formats:
   - Retain the default Data setting (Vulnerabilities selected).
   - Select either Assets or Plugin from the Group By list, depending on how you want to group the scan results in the export file.

7. Click Export.

   Tenable Vulnerability Management generates the export file. Depending on your browser settings, your browser may automatically download the export file to your computer, or may prompt you to confirm the download before continuing.
Import a Tenable Web App Scanning Scan

**Required Tenable Web App Scanning User Role:** Scan Manager or Administrator

To import a Tenable Web App Scanning scan in the new interface:

1. In the upper-left corner, click the menu button.
   
   The left navigation plane appears.

2. In the left navigation plane, click **Scans**.
   
   The **My Scans** page appears.

3. In the upper-right corner of the page, click **← Import Scan**.
   
   Your file directory appears.

   **Note:** Only .json file types are supported in Tenable Web App Scanning scan import.

4. Browse to and select the scan file you want to import.

5. Click **Open**: 

   **Note:** Clicking **Cancel** cancels the import.

   The **Scans** page appears, and the imported scan appears in the scans table.

   **Note:** You can click on the **Last Modified** row in your scans table so your imported scan appears at the top of your scans list.

   Tenable Web App Scanning begins processing the imported scan results. Once this process is complete, the imported data appears in the individual scan details and aggregated data views (such as dashboards). This process can take up to 30 minutes, depending on the size of the import file.

   **Tip:** If the imported data does not appear in the individual scan results or aggregated data views after a reasonable processing time, verify that you are assigned adequate permissions for the imported targets in **access groups**.
Move a Scan to a Scan Folder

**Required Scan Permissions:** Can View

You can move a scan from a default folder to either the My Scans default folder or a custom scan folder. You can also move a scan from a custom folder to the My Scans default folder or a different custom folder.

If you move a scan from the All Scans default folder, the scan appears in both the folder you select and the All Scans folder.

If you move a scan from the My Scans default folder, the scan appears in the custom folder only.

For information about moving a scan to the trash, see Move a Scan to the Trash Folder.

To move a scan to a scan folder:

1. In the upper-left corner, click the button.
   
The left navigation plane appears.

2. In the left navigation plane, click Scans.
   
The My Scans page appears.

3. In the Folders section, click a folder to load the scans you want to view.
   
The scans table updates to display the scans in the folder you selected.

4. In the scans table, roll over the scan you want to move.

5. In the row, click the button.
   
   A menu appears.

6. In the menu, click Move.
   
   The Move to Folder plane appears. This plane contains a list of your scan folders.
7. Search for a folder:
   
a. In the search box, type the folder name.

   b. Click the search button.

   Tenable Web App Scanning limits the list to folders that match your search.

8. In the folder list, click the folder where you want to move the scan.

9. Click **Move**.

   Tenable Web App Scanning moves the scan to the selected folder.
Move a Scan to the Trash Folder

**Required Tenable Web App Scanning User Role:** Basic, Scan Operator, Standard, Scan Manager, or Administrator

**Required Scan Permissions:** Can View

When you move a shared scan to the Trash folder, Tenable Web App Scanning moves the scan for your account only. The scan remains in the original folder for all other users who have Can View permissions or higher for the scan.

Scans moved to the Trash folder also appear in the All Scans folder, marked with the label, Trash.

**Note:** After you move a scan to the Trash folder, the scan remains in the Trash folder until a user with Can Configure permissions permanently deletes the scan.

**Note:** Scheduled scans do not run if they are in the scan owner’s Trash folder.

To move a scan or scans to the Trash folder:

1. In the upper-left corner, click the button.

   The left navigation plane appears.

2. In the left navigation plane, click Scans.

   The Tenable Web App Scanning My Scans page appears:

3. In the row, click the button.

   A drop-down box of options appears.
4. Do one of the following:

- **Select a single scan:**
  a. In the scans table, roll over the scan you want to move.
     The action buttons appear in the row.
  b. Click the button.
     A menu appears.
  c. Click Trash.

- **Select multiple scans:**
  a. In the scans table, select the check box next to each scan you want to move.
     The action bar appears at the bottom of the pagetop of the table.
  b. In the action bar, click Trash.

Tenable Web App Scanning moves the scan, or scans, you selected to the Trash folder.
Tenable Web App Scanning Settings

The **Settings** page allows you to view and manage all of your Tenable Web App Scanning settings and configurations.

To access the **Settings** page:

1. In the upper-right corner, click the button.
   
   The left navigation plane appears.

2. Click **Settings**.
   
   The **Settings** page appears.

**Note:** All **Settings** options are managed directly within Tenable Vulnerability Management. When you access the Settings section, you are automatically redirected to the Tenable Vulnerability Management user interface and documentation.
General Settings

**Required User Role:** Administrator

On the **General** page, you can configure general settings for your Tenable Web App Scanning instance.

To access general settings:

1. In the upper-left corner, click the ☰ button.
   
   The left navigation plane appears.
2. In the left navigation plane, click **Settings**.
   
   The **Settings** page appears.
3. Click the **General** tile.
   
   The **General** page appears. By default, the **Severity** tab is active.

Here, you can configure the following options:

#### Severity

By default, Tenable Web App Scanning uses CVSSv2 scores to calculate severity for individual vulnerability instances. If you want Tenable Web App Scanning to calculate the severity of vulnerabilities using CVSSv3 scores (when available), you can configure your severity metric setting.
A vulnerability instance is a single instance of a vulnerability appearing on an asset, identified uniquely by plugin ID, port, and protocol.

For information about severity and the ranges for CVSSv2 and CVSSv3, see CVSS Scores vs. VPR.

Note: This setting does not affect the following:

- Tenable Web App Scanning vulnerabilities.
- Tenable Container Security vulnerabilities.
- The calculations displayed in the SLA Progress: Vulnerability Age widget. To modify your SLA severity, navigate to the Service-Level Agreement (SLA) tab on the General page.

Caution: When changing your CVSS severity metric setting, the new setting is only reflected in new findings that come into your system. Any existing findings only reflect the previous severity setting (unless otherwise recasted). For more information on recast rules, see Recast/Accept Rules.

To configure your severity setting:

1. On the Severity tab, select the metric that you want Tenable Web App Scanning to use for severity calculations.
- CVSSv2 — Use CVSSv2 scores for all severity calculations.

- CVSSv3 — Use CVSSv3 scores, when available, for all severity calculations. Use CVSSv2 only if a CVSSv3 score is not available.

2. Click **Save**.

3. The system saves your change and begins calculating severity based on your selection.

   All vulnerabilities seen before the change retain their severity. After the change, all vulnerabilities seen during scans receive severities based on your new selection. Because of this, you could see two sightings of the same vulnerability have two different CVSS scores and severities.

   **Tip:** A vulnerability instance is a single instance of a vulnerability appearing on an asset, identified uniquely by plugin ID, port, and protocol.

---

**Service-Level Agreement (SLA)**

You can configure Service Level Agreement (SLA) settings to modify how Tenable calculates your SLA data.

You can view this data in the **SLA Progress: Vulnerability Age** widget on the **Vulnerability Management Overview** dashboard. For more information, see [Vulnerability Management Overview](#).

To configure your SLA settings:

1. Click the **Service-Level Agreement (SLA)** tab.

   The SLA options appear.
2. Configure the following options:

<table>
<thead>
<tr>
<th>Option</th>
<th>Default</th>
<th>Description/Actions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vulnerability Age SLA</td>
<td></td>
<td>To modify the number of days included for each severity, type an integer in the box next to <strong>Critical</strong>, <strong>High</strong>, <strong>Medium</strong>, or <strong>Low</strong>.</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Critical</strong> 7 days</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>High</strong> 30 days</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Medium</strong> 60 days</td>
</tr>
</tbody>
</table>

**Service-Level Agreement (SLA)**

Set your Vulnerability Age SLAs for each severity and other metrics to use for calculating SLAs. Your defined SLAs are applied globally across the container.

**Vulnerability Age SLA**

<table>
<thead>
<tr>
<th>SEVERITY</th>
<th>AGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Critical</td>
<td>7 Days</td>
</tr>
<tr>
<td>High</td>
<td>30 Days</td>
</tr>
<tr>
<td>Medium</td>
<td>60 Days</td>
</tr>
<tr>
<td>Low</td>
<td>180 Days</td>
</tr>
</tbody>
</table>

**Override Vulnerability Severity Metric**

- VPR
- CVSSv3
- CVSSv2

**Vulnerability Age Metric**

- First Seen
- Published Date
| Override Vulnerability Severity Metric | VPR | Specifies whether Tenable uses VPR severity, CVSSv2 severity, or CVSSv3 severity to calculate SLA data.

For more information about these metrics, see CVSS vs. VPR.

**Note:** This option affects only the calculations displayed in the SLA Progress: Vulnerability Age widget. To modify the severity metric for all other areas of the product, navigate to the Severity tab on the General page.

| Vulnerability Age Metric | First Seen | Specifies whether Tenable uses First Seen or Published Date to calculate SLA data.

3. Click **Save**.

Tenable Web App Scanning saves your SLA settings.

**Language**

On the General page, you can change the plugin language in your Tenable Web App Scanning container to English, Japanese, Simplified Chinese, or Traditional Chinese. This setting affects all users in the container.

To change the plugin language:

1. In the upper-left corner, click the ** button.

The left navigation plane appears.

2. In the left navigation plane, click **Settings**.

The Settings page appears.

3. Click the **General** tile.

The General tile appears. By default, the **Severity** tab is active.
4. Click the **Language** tab.

The **Language** tab appears.

5. Under **Language**, select a new language.

Tenable Web App Scanning updates the plugin language for your container.

---

**Exports**

To configure your default export expiration:

When you create an export, you can set an expiration delay for the export file up to 30 calendar days, which is the maximum number of days that Tenable Web App Scanning allows before your export files expire.

By default, any exports you create in Tenable Web App Scanning have an expiration date of 30 days. If you want to decrease the number of days that Tenable Web App Scanning allows before your export files expire, you can configure your default export expiration days.

1. Click the **Exports** tab.

   The **Export Expiration** options appear.

   **General**

   - Severity
   - Service-Level Agreement (SLA)
   - **Exports**
   - Search
   - Scanning

   **Export Expiration**

   Select the default expiration for any export created in the platform. Users can change the expiration when they create the export.

   **DEFAULT EXPIRATION**

   

   ![Days]

   The maximum allowed expiration is 30 days and it is set on the organization's account.

2. In the **Default Expiration** box, type the number of days you want Tenable Web App Scanning to allow before your exports expire.

   **Note**: Tenable Web App Scanning allows you to set a maximum of 30 calendar days for export expiration.
3. Click **Save**.

   Tenable Web App Scanning saves your settings and updates the number of allowable days before your exports expire.

**Search**

Enabling plugin output data retention allows Tenable Web App Scanning to store your plugin output data each time you launch a scan. You can then filter your vulnerability findings by plugin output. For more information, see [Findings Filters](#).

**Note:** Tenable automatically disables this setting if it is unused for 35 days. Re-enable the setting to conduct a search on plugin output for all scans from that point onward. Only use this setting if you need to perform regular searches within the [Explore](#) user interface.

Once you have enabled plugin output data retention, you must [launch a scan](#) so that Tenable Web App Scanning can identify and store your plugin output data.

**Caution:** You cannot disable plugin output data retention once you have enabled it.

To enable plugin output data retention:

1. In the left navigation plane, click the **Search** tab.

   The search options appear.
2. Click the **Enable Regex Search on Plugin Output** toggle.

3. Click **Save**.

Tenable Web App Scanning enables plugin output data retention on your account.

What to do next:
- **Launch a scan** for your host assets.

**Scanning**

In the **Scanning** section, you can change how Tenable Web App Scanning handles info-level plugins with two settings.

**Process High-Traffic Info Plugins**

**Caution:** Tenable plans to deprecate this setting and replace it with **Relocate Open Port Findings**.

Disable this setting to stop Tenable Web App Scanning from generating an individual finding for every open port on every scanned host. Disabling this setting reduces scan time and scan result export time, while enabling it may significantly increase these times. For more information, see **Platform Performance Improvement FAQ - Info Plugins**.

**The following plugin IDs are impacted**
- 34220 - Netstat Portscanner (WMI)
- 34252 - Microsoft Windows Remote Listeners Enumeration (WMI)
- 11219 - Nessus SYN Scanner
- 14272 - Netstat Portscanner (SSH)
- 25221 - Remote listeners enumeration (Linux / AIX)
- 10736 - DCE Services Enumeration
- 99265 - macOS Remote Listeners Enumeration
- 10335 - Nessus TCP scanner
- 14274 - Nessus SNMP Scanner
- 34277 - Nessus UDP Scanner

**Tip:** For more information about these plugins, see the Tenable Plugins site.

### Relocate Open Port Findings

Enable this setting to change how Tenable Web App Scanning handles open port findings by displaying them on the **Asset Details** page instead of the **Findings** workbench. To learn about the impact this change may have on your organization, see [Tenable Vulnerability Management New Data Format: Relocate Open Port Findings](#).

**Note:** If you use third-party integrations such as ServiceNow, Jira, or Splunk with Tenable Vulnerability Management, your open ports data is now sent as an asset property.

This setting does the following:

- *Moves* open port findings from the **Findings** workbench to the **Asset Details** page. The **Asset Details** page appears when you click a host asset on the **Assets workbench**.

**Open port findings from the following high-traffic plugins move to the Asset Details page**

- 34220 - Netstat Portscanner (WMI)
- 34252 - Microsoft Windows Remote Listeners Enumeration (WMI)
- 11219 - Nessus SYN Scanner
- 14272 - Netstat Portscanner (SSH)
- 25221 - Remote listeners enumeration (Linux / AIX)
- 10736 - DCE Services Enumeration
- 99265 - macOS Remote Listeners Enumeration
- 10335 - Nessus TCP scanner
- 14274 - Nessus SNMP Scanner
- 34277 - Nessus UDP Scanner

- Enables the **Open Ports** tab on the **Asset Details** page, which now contains open port findings.
- Enables the **Open Ports** filter on the **Assets** workbench, where you can search for open ports on host assets.
- Enables the **Open Ports** rule on the **Tags** page, so you can tag open ports.
- Adds an Open Ports field to the **Assets** workbench, so you can export open port data.
- (Optional) Adds open port findings to the bulk asset export API. To learn more, see the [API changelog](https://www.tenable.com) in the Tenable Developer Portal. To request this feature, contact your Tenable Customer Success Manager.
From the My Account page, you can make changes to your own user account.

### Update Account

- **FULL NAME**
- **EMAIL**
- **API KEYS**

### Update Password

- **CURRENT PASSWORD**
- **NEW PASSWORD**

### Enable Two Factor Authentication

Enabling two-factor authentication will prompt you to enter a code before you can login to Tenable.io. This code will be sent to the phone number and email address (optional) associated with this account and is valid for 10 minutes after issue.

Enabling TOTP two-factor authentication requires adding Tenable.io to an Authenticator App on your phone, to generate time-based tokens.

[Enable SMS Two Factor Authentication][Enable Authenticator App]
**View Your Account Details**

**Required Tenable Vulnerability Management User Role:** Basic, VM Scan Operator, VM Standard, VM Scan Manager, or Administrator

**Required Tenable Web App Scanning User Role:** Basic, Scan Operator, Standard, Scan Manager, or Administrator

On the **My Account** page, you can view details about your account, including your log in details, user role, and the groups and permissions assigned to you.

To view your account details:

1. Do one of the following:
   - In the upper-left corner, click the button. The left navigation plane appears.
     a. In the left navigation plane, click **Settings**. The **Settings** page appears.
     b. Click the **My Account** tile. The **My Account** page appears, where you can view and update your account details.
   - In the upper-right corner, click the button. The user account menu appears.
     a. Click **My Account**. The **My Account** page appears.
2. On the left side of the page, you can select from the following:

<table>
<thead>
<tr>
<th>Option</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Update Account</td>
<td>• Click <strong>Update Account</strong>. The <strong>Update Account</strong> section appears, showing the following details for your account:</td>
</tr>
<tr>
<td></td>
<td>° <strong>Full Name</strong></td>
</tr>
<tr>
<td></td>
<td>° <strong>Email</strong></td>
</tr>
<tr>
<td></td>
<td>° <strong>Username</strong></td>
</tr>
<tr>
<td></td>
<td>° <strong>Role</strong></td>
</tr>
<tr>
<td></td>
<td>• (Optional) <strong>Update</strong> your basic account information, including name and email address.</td>
</tr>
</tbody>
</table>
Note: You cannot change your username or role.

- (Optional) Change your password.
- (Optional) Configure or disable two-factor authentication on your account.
- (Optional) Enable or disable Explore beta features on your account.

Groups

- Click Groups.

Note: You cannot change your groups settings on the My Accounts page. For more information, see User Groups.

- In the Groups table, view:
  - The user groups you are assigned to.
  - The number of members in each user group.

Permissions

- Click Permissions.

Note: Permissions, when applied a user, allow that user to perform certain actions to specified asset tags (i.e., objects) and the assets to which those objects apply. Permissions can be applied to individual users or to all members of a user group. For more information, see Permissions.

Note: You cannot change your permissions settings on the My Accounts page.

- In the Permissions table, view:
  - The names of the permissions assigned to your account.
  - The actions those permissions allow you to perform.
  - The objects each permission applies to.

API Keys

- Click API Keys.
- View a description of API keys.

- **Generate API Keys.**

**Caution:** Any existing API keys are replaced when you click the Generate button. You must update the applications where the previous API keys were used.

**Caution:** Be sure to copy the access and secret keys before you close the API Keys tab. After you close this tab, you cannot retrieve the keys from Tenable Web App Scanning.

**Note:** User accounts expire according to when the Tenable Web App Scanning container they belong to was created. Tenable controls this setting directly. For more information, contact Tenable Support.
Update Your Account

**Required Tenable Vulnerability Management User Role:** Basic, VM Scan Operator, VM Standard, VM Scan Manager, or Administrator

**Required Tenable Web App Scanning User Role:** Basic, Scan Operator, Standard, Scan Manager, or Administrator

Before you begin:

- (Optional) View your account details.

To update your account:

1. Do one of the following:
   - In the upper-left corner, click the button.
     The left navigation plane appears.
     a. In the left navigation plane, click Settings.
        The Settings page appears.
     b. Click the My Account tile.
        The My Account page appears, where you can view and update your account details.
   - In the upper-right corner, click the button.
     The user account menu appears.
     a. Click My Account.
        The My Account page appears.

2. (Optional) Edit your Name.

3. (Optional) Edit your Email.

   A valid email address must be in the format:

   name@domain
where *domain* corresponds to a domain approved for your Tenable Web App Scanning instance.

This email address overrides the email address set as your *Username*. If you leave this option empty, Tenable Web App Scanning uses the *Username* value as your email address.

**Note:** During initial setup, Tenable configures approved domains for your Tenable Web App Scanning instance. To add domains to your instance, contact Tenable Support.

4. Click **Save**.

Tenable Web App Scanning saves the changes to the account.

5. (Optional) Change your password.

6. (Optional) Configure two-factor authentication.

7. (Optional) Generate an API key.
Change Your Password

**Required Tenable Vulnerability Management User Role:** Basic, VM Scan Operator, VM Standard, VM Scan Manager, or Administrator

**Required Tenable Web App Scanning User Role:** Basic, Scan Operator, Standard, Scan Manager, or Administrator

You can change the password for your own account as any type of user. The method of changing your password varies slightly based on the role assigned to your user account.

To change another user's password, see [Change Another User's Password](#).

To change your password:

1. Do one of the following:
   - In the upper-left corner, click the button.
     The left navigation plane appears.
     a. In the left navigation plane, click **Settings**.
     The **Settings** page appears.
     b. Click the **My Account** tile.
     The **My Account** page appears, where you can view and update your account details.
   - In the upper-right corner, click the button.
     The user account menu appears.
     a. Click **My Account**.
     The **My Account** page appears.

2. In the **Current Password** box, type your current password.

3. In the **New Password** box, type a new password. See [Tenable Web App Scanning Password Requirements](#) for more information.
4. Click the **Save** button.

   Tenable Web App Scanning saves the new password and terminates any currently active sessions for your account. Tenable Web App Scanning then prompts you to re-authenticate.

5. **Log in** to Tenable Web App Scanning using your new password.
Configure Two-Factor Authentication

**Required Tenable Vulnerability Management User Role:** Basic, VM Scan Operator, VM Standard, VM Scan Manager, or Administrator

**Required Tenable Web App Scanning User Role:** Basic, Scan Operator, Standard, Scan Manager, or Administrator

On the **My Account** page, you can configure two-factor authentication for your account.

**Tip:** Administrators can also enforce two-factor authentication for other accounts when creating or editing a user account.

**Note:** Before configuring two-factor authentication, check the [International Phone Availability](#) list to ensure you are able to receive text messages from Tenable Web App Scanning.

To add or modify two-factor authentication:

1. Do one of the following:
   - In the upper-left corner, click the ** button.
     The left navigation plane appears.
     a. In the left navigation plane, click **Settings**.
        The **Settings** page appears.
     b. Click the **My Account** tile.
        The **My Account** page appears, where you can view and update your account details.
   - In the upper-right corner, click the ** button.
     The user account menu appears.
     a. Click **My Account**.
        The **My Account** page appears.

2. In the **Enable Two Factor Authentication** section, do one of the following:
To enable SMS two factor authentication:

a. Click **Enable SMS Two Factor Authentication**.

   The **Two-Factor Setup** plane appears.

b. In the **Current Password** box, type your Tenable Web App Scanning password.

c. In the **Phone Number** box, type your mobile phone number.

   **Note:** By default, Tenable Web App Scanning treats mobile numbers as U.S. numbers and prepends the +1 country code. If your mobile phone number is a non-U.S. number, be sure to prepend the appropriate country code.

d. Click **Next**.

   The **Verification Code** plane appears and Tenable Web App Scanning sends a text message with a verification code to the phone number.

e. In the **Verification Code** box, type the verification code you received.

f. Click **Next**.

   A **Two-Factor Setup Successful** message appears and Tenable Web App Scanning applies your settings to your Tenable Web App Scanning account.

g. (Optional) To configure whether Tenable Web App Scanning sends a verification code to the email associated with your user account:

   a. Select or clear the **Send backup email** check box.

   b. Click **Update**.

      Tenable Web App Scanning updates your backup email settings.

   **Note:** Once you save the phone number for this configuration, you cannot edit or change the phone number. You must configure a new authentication setup for any additional phone numbers you want to use.
• To enable authenticator application based authentication:

  a. Click **Enable Authenticator App**.

     The **Two-Factor Setup** plane appears.

  b. In the **Current Password** box, type your Tenable Web App Scanning password.

  c. Click **Next**.

     The **Time-based One-Time Password** plane appears.

  d. In the authenticator application of your choice, scan the QR code.

     In the authenticator application, a Tenable Web App Scanning verification code appears.

  e. In the **Verification Code** box, type the code provided by your authenticator application.

     **Note:** If you do not type the correct verification code, Tenable Web App Scanning locks the QR code. Delete the setup from your authenticator application and scan a new QR code.

  f. Click **Next**.

     A **Two-Factor Setup Successful** message appears and Tenable Web App Scanning applies your settings to your Tenable Web App Scanning account.

To disable two-factor authentication in the new interface:

1. Do one of the following:

   • In the upper-left corner, click the **menu** button.

      The left navigation plane appears.

      a. In the left navigation plane, click **Settings**.

      The **Settings** page appears.

      b. Click the **My Account** tile.
The **My Account** page appears, where you can view and update your account details.

- In the upper-right corner, click the button.

The user account menu appears.

a. Click **My Account**.

The **My Account** page appears.

2. In the **Change Password** section, in the **Current Password** box, type your current password.

3. In the **Enable Two Factor Authentication** section, click **Disable**.

   A **Disable Two-Factor** confirmation message appears.

4. Read the warning message, then click **Continue**.

   Tenable Web App Scanning disables two-factor authentication for your account.
Generate API Keys

**Required Tenable Vulnerability Management User Role:** Basic, VM Scan Operator, VM Standard, VM Scan Manager, or Administrator

**Required Tenable Web App Scanning User Role:** Basic, Scan Operator, Standard, Scan Manager, or Administrator

The API keys associated with your user account enable you to access the API for all Tenable Web App Scanning products for which your organization is licensed.

**Note:** Tenable Web App Scanning API access and secret keys are required to authenticate with the Tenable Web App Scanning API.

**Note:** The API keys associated with your user account enable you to access the API for all Tenable Vulnerability Management products for which your organization is licensed. You cannot set separate keys for individual products. For example, if you generate API keys in Tenable Vulnerability Management, this action also changes the API keys for Tenable Web App Scanning and Tenable Container Security.

**Note:** Be sure to use one API key per application. Examples include, but are not limited to:

- Tenable Web App Scanning integration
- Third-party integration
- Other custom applications, including those from Tenable Professional Services

The method to generate API keys varies depending on the role assigned to your user account. Administrators can generate API keys for any user account. For more information, see Generate Another User’s API Keys. Other roles can generate API keys for their own account.

To generate API keys for your own account:

1. Do one of the following:
   - In the upper-left corner, click the button.

   The left navigation plane appears.
a. In the left navigation plane, click **Settings**.

   The **Settings** page appears.

b. Click the **My Account** tile.

   The **My Account** page appears, where you can view and update your account details.

   - In the upper-right corner, click the button.

      The user account menu appears.

a. Click **My Account**.

   The **My Account** page appears.

2. Click the **API Keys** tab.

   The **API Keys** section appears.

3. Click **Generate**.

   The **Generate API Keys** window appears with a warning.

   **Caution:** Any existing API keys are replaced when you click the **Generate** button. You must update the applications where the previous API keys were used.

4. Review the warning and click **Generate**.

   Tenable Web App Scanning generates new access and secret keys, and displays the new keys in the **Custom API Keys** section of the page.

   **Tip:** If the **Generate** button is inactive, contact your administrator to ensure they’ve enabled API access for your account. For more information, see [Edit a User Account](#).

5. Copy the new access and secret keys to a safe location.

   **Caution:** Be sure to copy the access and secret keys before you close the **API Keys** tab. After you close this tab, you cannot retrieve the keys from Tenable Web App Scanning.
Unlock Your Account

**Required Tenable Vulnerability Management User Role:** Basic, VM Scan Operator, VM Standard, VM Scan Manager, or Administrator

**Required Tenable Web App Scanning User Role:** Basic, Scan Operator, Standard, Scan Manager, or Administrator

Tenable Web App Scanning locks you out if you attempt to log in and fail 5 consecutive times.

**Note:** If you no longer have access to the email address specified in your account, an administrator for your Tenable Web App Scanning instance can reset your password instead.

**Note:** A user can be locked out of the user interface but still submit API requests if they are assigned the appropriate authorizations (api_permitted). For more information, see the Tenable Developer Portal.

To unlock your account:

1. On the Tenable Web App Scanning login page, click the **Forgot your password?** link.
   
   The password reset page appears.

2. In the **Username** box, enter your Tenable Web App Scanning username.

3. In the CAPTCHA box, type your answer to the question.

4. Click **Send**.
   
   Tenable Web App Scanning sends password recovery instructions to the email address specified in your user account.

5. Reset your password using the instructions in the email message. See [Password Requirements](#) for more information.
License Information

On the License Information page, you can view a complete breakdown of your Tenable products and their license usage. You can view this information in multiple ways, including visual overviews by product or time period that enable you to spot trends such as temporary usage spikes or product misconfigurations.

Tip: For more information about how Tenable counts and reclaims licenses, see Tenable Vulnerability Management Licenses and Tenable Web App Scanning Licenses. For information about license overages, see Tenable Cloud Overage Process.

View the License Information Page

To view the License Information page, in the top navigation bar, click License Information.

The License Information page shows license usage for all products in your current Tenable container and has the following sections.

<table>
<thead>
<tr>
<th>Section</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tenable One Standard</td>
<td></td>
</tr>
<tr>
<td>Usage Breakdown &amp; Trend</td>
<td></td>
</tr>
<tr>
<td>Vulnerability Management Hosts</td>
<td></td>
</tr>
</tbody>
</table>
### Purchased Products

On the left, click a product tile to view details. If a product is still being evaluated or has expired, a label appears.

- **Used** — The total number of licenses used or **assessed** from your product subscription.

- **Purchased** — The number of licenses you have purchased for that product.

- **Available** — The remaining available licenses from your subscription that have not yet been assessed.

### Product Summary

At the top of the page, view a summary of the selected product:

- **Product Name** — The name of the product.

- **Container UUID** — The unique ID for the container.

- **Last Updated** — The date and time the product was last updated.

- **Site Name** — The cluster containing your installed products in Tenable's cloud.

- **Region** — The geographic region in which your cluster is located.

- **Plugin Set** — The version for the product's Nessus plugin set.

- **Plugin Updated** — The date and time the Nessus plugin set was last updated.

- **Total License Subscription** — The total number of licenses purchased as part of your product subscription.

- **Assets Consumed** — The total number of licenses used or **assessed** from your product subscription.

- **Available Assets** — The remaining available licenses from your subscription that have not yet been assessed.

- **Utilization** — The percentage of your licenses that have been used. This value is calculated as the number of licenses consumed divided by the total license subscription.
<table>
<thead>
<tr>
<th>Usage Breakdown &amp; Trend</th>
<th>See visual breakdowns of your asset usage:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>• <strong>Bar Chart</strong> — (Tenable One only) View your total license use by Tenable One component in a bar chart.</td>
</tr>
<tr>
<td></td>
<td><strong>Note:</strong> For Tenable Cloud Security, your license use is calculated as the weighted sum of your <strong>Compute</strong> and <strong>Serverless</strong> resources—plus your <strong>Container Images</strong>, if you’re using Tenable Container Security</td>
</tr>
<tr>
<td></td>
<td><strong>Usage Over Time</strong> — View your license use over time in a line chart where the X-axis is the time period and the Y-axis is the number of assets used. With the filters at the top of the chart, switch between time periods on the left, or specify a custom date range on the right.</td>
</tr>
<tr>
<td></td>
<td><strong>Tip:</strong> (Tenable One-only) Click the tiles above the chart to select or deselect products.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Vulnerability Management Hosts</th>
<th>View the number of [Tenable Vulnerability Management] assets that count towards your license:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>• <strong>Hosts</strong> — The number of hosts that count towards your license.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Cloud Security Resources</th>
<th>View the number of cloud resources in your environment that have been identified by Tenable Cloud Security.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Note:</strong> There are two versions of Tenable Cloud Security. If you are using the latest version, the <strong>Compute</strong> and <strong>Serverless</strong> fields show your cloud resources based on a daily snapshot. In addition, other fields are labeled as legacy—for example, <strong>(Legacy) Billable</strong>.</td>
</tr>
<tr>
<td></td>
<td>• <strong>Compute</strong> — (New version only) Your non function-like cloud resources, such as virtual machines or cloud storage.</td>
</tr>
<tr>
<td></td>
<td>• <strong>Serverless</strong> — (New version only) Your function-like cloud resources such as AWS Lambda or Azure Functions. These resources have a 10:1 ratio, so the number that appears reflects your total number of serverless resources divided by ten.</td>
</tr>
</tbody>
</table>
Tip: For example, 100 serverless resources divided by ten equals ten cloud resources.

- **Billable** — (Legacy only) A subset of cloud resources that are considered licensed, typically cloud compute, storage, or network resources scanned in the past 90 days.

- **Non-Billable** — (Legacy only) Infrastructure as code (IaC) resources scanned locally, in a repository or a pipeline. These resources are not considered licensed.

- **Container Images** — (Legacy only) The number of packaged applications that count towards your license.

<table>
<thead>
<tr>
<th>Web App Scanning FQDNs</th>
<th>View the number of <a href="https://tenable.com">Tenable Web App Scanning</a> resources that count towards your license:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>• <strong>FQDNs</strong> — The number of fully qualified domain names that count towards your license.</td>
</tr>
</tbody>
</table>

**Note:** Tenable Web App Scanning determines asset count by the number of *fully qualified domain names* (FQDNs) that are scanned for your user account. An asset does not count against your license limit until it has been successfully scanned for vulnerabilities.

<table>
<thead>
<tr>
<th>Attack Surface Management Assets</th>
<th>View your <a href="https://tenable.com">Tenable Attack Surface Management</a> resources:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>• <strong>Observable Objects</strong> — The number of assets discovered and added to your inventory in Tenable Attack Surface Management.</td>
</tr>
</tbody>
</table>

**Note:** If you are a Tenable One Standard customer, these resources do not count towards your asset license.

<table>
<thead>
<tr>
<th>Active Directory Users</th>
<th>View the number of <a href="https://tenable.com">Tenable Identity Exposure</a> resources that count towards your license:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>• <strong>Users</strong> — The number of enabled active users.</td>
</tr>
</tbody>
</table>
Tenable Web App Scanning Licenses

Your Tenable Web App Scanning instance has a licensed asset limit that determines the number of web application assets you can scan for vulnerabilities. If you exceed your limit, you can temporarily continue to use Tenable Web App Scanning to scan your assets before adjusting your license as needed.

You can view your license information to see how many assets are currently counted against your Tenable Web App Scanning license. You can use this information to evaluate how effectively you are using your asset licenses.

How Assets are Counted

Tenable Web App Scanning determines asset count by the number of fully-qualified domain names (FQDNs) that Tenable Web App Scanning successfully scans for your user account. An asset does not count against your license limit until Tenable Web App Scanning has successfully scanned the asset for vulnerabilities.

FQDNs appear on your license as complete URLs. Per the RFC-3986 internet standard, each FQDN includes the following components and format:

```
hostname.parent domain.top-level domain
```

When you specify a web application target in a scan, Tenable Web App Scanning counts that target as a separate asset if any component of the FQDN differs from that of another scanned target or previously scanned asset. Multiple targets with different paths appended to the FQDN count as a single asset, as long as all components of the FQDNs match.

The following targets would count toward a single asset in Tenable Web App Scanning:

```
hostname.parent domain.top-level domain/path1
hostname.parent domain.top-level domain/path2
hostname.parent domain.top-level domain/path2/path3
```

**Note:** When a licensed target has not been scanned for 90 days, it ages out of the licensed count.

Example
In this example, Tenable Web App Scanning successfully scans the following target and counts it toward your licensed asset limit.

https://www.example.com

In the following table, targets in the first column would count as the same asset as the example asset, and targets in the second column would count as separate assets from the example.

<table>
<thead>
<tr>
<th>Same Asset (all FQDN components match)</th>
<th>Separate Assets (FQDN components do not all match)</th>
</tr>
</thead>
<tbody>
<tr>
<td>• <a href="https://example.com/welcome">https://example.com/welcome</a></td>
<td>• <a href="https://en.example.com">https://en.example.com</a></td>
</tr>
<tr>
<td>• <a href="https://example.com/welcome/get-started">https://example.com/welcome/get-started</a></td>
<td>(different hostname)</td>
</tr>
<tr>
<td>• <a href="https://example.com/welcome/get-started/create-new-user">https://example.com/welcome/get-started/create-new-user</a></td>
<td>• <a href="https://www.ex-ample.com">https://www.ex-ample.com</a></td>
</tr>
<tr>
<td></td>
<td>(different parent domain)</td>
</tr>
<tr>
<td></td>
<td>• <a href="https://www.example.org">https://www.example.org</a></td>
</tr>
<tr>
<td></td>
<td>(different top-level domain)</td>
</tr>
</tbody>
</table>
License Types in Tenable Web App Scanning

License types in Tenable Web App Scanning can vary according to the feature set supported. Most notably, the Lumin Exposure View feature adds dynamic calculations and exposure risk scores to your Tenable user interface. For more information on Lumin Exposure View metrics, see Applications Dashboard.

View the following table to see the features each Tenable Web App Scanning license type supports.

### License Matrix

<table>
<thead>
<tr>
<th>License</th>
<th>AES/CES/ACR Scores Supported</th>
</tr>
</thead>
<tbody>
<tr>
<td>WAS Only</td>
<td>No</td>
</tr>
<tr>
<td>WAS + Lumin Only</td>
<td>Yes</td>
</tr>
<tr>
<td>EP License (Includes WAS + Lumin)</td>
<td>Yes</td>
</tr>
<tr>
<td>Tenable One License (Standard and Enterprise)</td>
<td>Yes</td>
</tr>
</tbody>
</table>
Access Control

**Required User Role:** Administrator

From the Access Control page, you can view and configure the list of users and groups on your account and the permissions assigned to them.
Users

Topics in this section have been modified to reflect feature updates in Tenable Vulnerability Management Key Enhancements. For more information, see Tenable Vulnerability Management Key Enhancements.

On the **Access Control** page, in the **Users** tab, administrator users can create and manage user accounts for an organization's resources in Tenable Web App Scanning.

### Users Table

<table>
<thead>
<tr>
<th>Column</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Name</strong></td>
<td>The username for the account.</td>
</tr>
<tr>
<td><strong>Full Name</strong></td>
<td>The full name of the user.</td>
</tr>
<tr>
<td><strong>Last Login</strong></td>
<td>The date on which the user last successfully logged in to the Tenable Web App Scanning interface.</td>
</tr>
<tr>
<td><strong>Last Failed</strong></td>
<td>The date on which the user failed to log in to the Tenable Web App Scanning interface.</td>
</tr>
<tr>
<td><strong>Total Failed</strong></td>
<td>The total number of failed login attempts for the user. This number resets when either an administrator or the user resets the password for the user account.</td>
</tr>
<tr>
<td><strong>Last API Access</strong></td>
<td>The date on which the user last generated API keys.</td>
</tr>
<tr>
<td><strong>Role</strong></td>
<td>The role assigned to the user. For more information, see <a href="#">Roles</a>.</td>
</tr>
</tbody>
</table>
On the **Users** page, you can perform the following actions:

- [Create a User Account](#)
- [View Your List of Users](#)
- [Edit a User Account](#)
- [Change Another User's Password](#)
- [Assist a User with Their Account](#)
- [Generate Another User's API Keys](#)
- [Unlock a User Account](#)
- [Disable a User Account](#)
- [Enable a User Account](#)
- [Manage User Access Authorizations](#)
- [Audit User Activity](#)
- [Export Users](#)
- [Delete a User Account](#)
Create a User Account

**Required User Role:** Administrator

On the Users page, you can create an account for a new user.

**Tip:** Looking for account creation via a SAML IdP? See the [SAML](https://example.com) documentation.

**Note:** User accounts expire according to when the Tenable Web App Scanning container they belong to was created. Tenable controls this setting directly. For more information, contact Tenable Support.

To create a user account:

1. In the upper-left corner, click the ☰️ button.
   
The left navigation plane appears.

2. In the left navigation plane, click **Settings**.
   
The **Settings** page appears.

3. Click the **Access Control** tile.
   
The **Access Control** page appears. On this page, you can control user and group access to resources in your Tenable Web App Scanning account.

4. Click the ✉️ **Create User** button.
   
The **Create User** page appears.
5. Configure the following options:

**Note:** To view and configure options in each section, you must select the section in the left menu.

<table>
<thead>
<tr>
<th>Option</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>General Section</strong></td>
<td></td>
</tr>
<tr>
<td><strong>FullName</strong></td>
<td>Type the first and family name of the user.</td>
</tr>
<tr>
<td><strong>Username</strong></td>
<td>Type a valid username.</td>
</tr>
</tbody>
</table>

A valid username must be in the format:

```
name@domain
```

where *domain* corresponds to a domain approved for your Tenable Web App Scanning instance.

**Note:** During initial setup, Tenable configures approved domains for your Tenable Web App Scanning instance. To add domains to your instance, contact your Tenable representative.

**Note:** Tenable Vulnerability Management usernames cannot include the following characters:

', !, #, $, %, ^, &, *, (, ), /, \, |, {, }, "", ;, ~, ` and the
**Email**  
Type a valid email address in the format:  

`name@domain` where `domain` corresponds to a domain approved for your Tenable Web App Scanning instance.  

This email address overrides the email address set in the **Username** box. If you leave this option empty, Tenable Web App Scanning uses the **Username** value as the user's email address.

**Note:** As an Administrator, you can create user accounts with email addresses from unapproved domains. Once a user account is created, you can only change the email address to another approved domain.

**Password**  
Type a valid password. See [Password Requirements](#) for more information.  

In Tenable Web App Scanning, passwords must be at least 12 characters long and contain the following:

- An uppercase letter
- A lowercase letter
- A number
- A special character

**Verify Password**  
Type the password again.

**Role**  
In the drop-down box, select the **role** that you want to assign to the user.

**Note:** Administrator users have complete access to all resources on your Tenable Web App Scanning account.
## Authentication

Select or deselect the available security setting options. When selected, these settings:

**Note:** If you enable the **Password Access** or **SAML** options for a user with a custom role, the user automatically has basic access to your dashboards and widgets.

- **API Key** — Allow the user to generate API keys.
  
  **Tip:** You can select only this setting to create an API-only user account.

- **SAML** — Allow the user to log in to their account using a SAML single sign-on (SSO). For more information, see [SAML](#).

- **Username/Password** — Allow the user to log in to their account using a password.
  
  **Note:** If you deselect this option, you cannot select the MFA option.

- **Two-Factor Required** — Require the user to provide two-factor authentication to log in to their account.
  
  **Tip:** You can configure two-factor authentication for your own account on the [My Account](#) page.

## User Groups Section

### User Groups

Select the [user group](#) or groups to which you want to assign the user.

By default, a new user belongs to the system-generated **All Users** user group, which assigns the user
the **Basic** role.

Add a user group:

- Click anywhere in the **User Groups** box.

  A search box and drop-down list of roles appear.

- (Optional) In the **Search** box, type a user group name.

  As you type, a list of user groups matching your search appears.

- Click the user group you want to add.

  In the **User Groups** box, Tenable Web App Scanning adds a label representing the user group.

- Repeat these steps to add the user to another user group.

**Permission Section**

| Permissions | In the **Permissions** table, select the [permission](#) configurations you want to assign to the user. |

6. Click **Save**.

   **Note:** If you assign permissions to the user, the button appears as **Add & Save**.

Tenable Web App Scanning lists the new user account on the users table.
**Edit a User Account**

**Required User Role:** Administrator

To edit a user account:

1. In the upper-left corner, click the button.

   The left navigation plane appears.

2. In the left navigation plane, click **Settings**.

   The **Settings** page appears.

3. Click the **Access Control** tile.

   The **Access Control** page appears. On this page, you can control user and group access to resources in your Tenable Web App Scanning account.

4. In the users table, click the name of the user that you want to edit.

   The **Edit User** page appears.

5. Configure the following options:

<table>
<thead>
<tr>
<th>Option</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Account Settings</td>
<td></td>
</tr>
<tr>
<td>Full Name</td>
<td>Edit the first and last name of the user.</td>
</tr>
<tr>
<td>Username</td>
<td>You cannot edit this option.</td>
</tr>
<tr>
<td>Email</td>
<td>Type a valid email address in the format:</td>
</tr>
<tr>
<td></td>
<td><em>name@domain</em> where <em>domain</em> corresponds to a domain approved for your Tenable Web App Scanning instance.</td>
</tr>
<tr>
<td></td>
<td>This email address overrides the email address set in the <strong>Username</strong> box. If you leave this option empty, Tenable Web App Scanning uses the <strong>Username</strong> value as the user's email address.</td>
</tr>
</tbody>
</table>
**Note:** As an Administrator, you can create user accounts with email addresses from unapproved domains. Once a user account is created, you can only change the email address to another approved domain.

| **New Password** | Type a valid password. See [Password Requirements](#) for more information. In Tenable Web App Scanning, passwords must be at least 12 characters long and contain the following:  
  - An uppercase letter  
  - A lowercase letter  
  - A number  
  - A special character |
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Role</strong></td>
<td>In the drop-down box, select the role that you want to assign to the user.</td>
</tr>
<tr>
<td><strong>Groups</strong></td>
<td></td>
</tr>
<tr>
<td><strong>User Groups</strong></td>
<td>Select the user group or groups to which you want to assign the user. The user inherits the roles and permissions associated with the user group.</td>
</tr>
</tbody>
</table>
| **security settings** | Select or deselect the available security setting options. When selected, these settings:  
  - **API** — Allow the user to generate API keys.  
    **Tip:** You can select only this setting to create an API-only user account.  
  - **SAML** — Allow the user to log in to their account using a SAML single-sign on (SSO). For more information, see [SAML](#).  
  - **Password Access** — Allow the user to log in to their account using a password. |
6. (Optional) **Generate API keys** for the user.

7. Click **Save**.

   Tenable Web App Scanning saves the changes to the account.
View Your List of Users

Required User Role: Administrator

On the Access Control page, in the Users tab, you can view a list of all the users on your Tenable Web App Scanning instance.

To view users and user data for your Tenable Web App Scanning instance:

1. In the left navigation plane, click Settings.
   
   The Settings page appears.

2. Click the Access Control tile.
   
   The Access Control page appears. On this page, you can control user and group access to resources in your Tenable Web App Scanning account.

3. Click the Users tab.
   
   The Users tab appears, containing a table of all Tenable Web App Scanning user accounts on your Tenable Web App Scanning instance. This documentation refers to that table as the users table.

Users Table

On the users table, you can view the following information about users on your Tenable Web App Scanning instance.

<table>
<thead>
<tr>
<th>Column</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name</td>
<td>The username for the account.</td>
</tr>
<tr>
<td>Last Login</td>
<td>The date on which the user last successfully logged in to the Tenable Web App Scanning interface.</td>
</tr>
<tr>
<td>Last Failed</td>
<td>The date on which the user failed to log in to the Tenable Web App Scanning interface.</td>
</tr>
<tr>
<td>Total Failed</td>
<td>The total number of failed login attempts for the user.</td>
</tr>
</tbody>
</table>

This number resets when either an administrator or the user resets the
<table>
<thead>
<tr>
<th>Password</th>
<th>The date on which the user last generated API keys.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Last API Access</strong></td>
<td><strong>Role</strong></td>
</tr>
<tr>
<td></td>
<td>The role assigned to the user. For more information, see <a href="#">Roles</a>.</td>
</tr>
<tr>
<td><strong>Actions</strong></td>
<td>The actions an administrator user can take with the user (e.g. <a href="#">export a user</a>).</td>
</tr>
</tbody>
</table>
Tenable Web App Scanning Password Requirements

Tenable Web App Scanning enforces the following password requirements for all accounts:

Password Criteria

Passwords must be at least 12 characters long and contain the following:

- An uppercase letter
- A lowercase letter
- A number
- A special character

Password Expiration

Tenable Web App Scanning passwords do not expire.

Account Lockout

By default, after 5 failed login attempts, Tenable Web App Scanning locks the user out of their account. When a user is locked out of their account, they can unlock their own account, or an administrator can reset their password.

Password History

You cannot reuse a current or former password.
Change Another User's Password

**Required User Role:** Administrator

To change the password for another user's account, you must be an administrator. To change your own password, see [Change Your Password](#).

To change another user's password:

1. In the upper-left corner, click the `≡` button.
   The left navigation plane appears.

2. In the left navigation plane, click **Settings**.
   The **Settings** page appears.

3. Click the **Access Control** tile.
   The **Access Control** page appears. On this page, you can control user and group access to resources in your Tenable Web App Scanning account.

4. In the users table, click the name of the user that you want to edit.
   The **Edit User** page appears.

5. In the **New Password** box, type a new password. See [Password Requirements](#) for more information.

6. Click **Save**.

   Tenable Web App Scanning saves the new password for the user account.
Assist a User with Their Account

**Required User Role:** Administrator

As an administrator, you can use the user assist functionality to simulate being logged in as another account. While assisting a user account, you can perform operations in Tenable Vulnerability Management as that user without needing to obtain their password or having to log out of your administrator account.

**Note:** User Assist is available only for user accounts that have one or both of these authentication settings enabled:

- **Username/Password**
- **SAML**

To enable these security settings, see [Edit a User Account](#).

To assist a user with their account:

1. In the upper-left corner, click the button.

   The left navigation plane appears.

2. In the left navigation plane, click **Settings**.

   The Settings page appears.

3. Click the **Access Control** tile.

   The Access Control page appears. On this page, you can control user and group access to resources in your Tenable Web App Scanning account.

4. In the users table, click the check box for the user account you want to assist.

   The action bar appears at the top of the table.

   **Note:** You can select only one user to assist at a time.

5. In the action bar, click the button.
refreshes and displays the default dashboard for the user you are assisting. While you are assisting the user, displays an overlay at the top of each page with the role of the user you are assisting.

To stop assisting a user with their account:

- At the top of any page, in the overlay that displays the role of the user you are assisting, click the × button.
Generate Another User's API Keys

**Required User Role:** Administrator

The API keys associated with your user account enable you to access the API for all Tenable Vulnerability Management products for which your organization is licensed. These keys must be used to authenticate with the Tenable Vulnerability Management REST API.

Administrators can generate API keys for any user account. Other roles can generate API keys for their own accounts. For more information, see [Generate API Keys](#).

**Note:** The API keys associated with your user account enable you to access the API for all Tenable Vulnerability Management products for which your organization is licensed. You cannot set separate keys for individual products. For example, if you generate API keys in Tenable Vulnerability Management, this action also changes the API keys for Tenable Web App Scanning and Tenable Container Security.

To generate API keys for another user:

1. In the upper-left corner, click the **button.

   The left navigation plane appears.

2. In the left navigation plane, click **Settings**.

   The **Settings** page appears.

3. Click the **Access Control** tile.

   The **Access Control** page appears. On this page, you can control user and group access to resources in your Tenable Web App Scanning account.

4. In the users table, click the name of the user that you want to edit.

   The **Edit User** page appears.

5. In the **API Keys** section, click **Generate API Keys**.

   **Caution:** Any existing API keys are replaced when you generate new API keys. You must update the applications where the previous API keys were used.

   A warning message appears.
6. Review the warning and click **Replace & Generate**.

   The **Generate API Keys** text box appears.

   The new access and secret keys for the account appear in the text box.

7. (Optional) Click **Re-generate API Keys**.

8. Copy the new access and secret keys to a safe location.

   **Caution:** Be sure to copy the access and secret keys before you navigate away from the **Edit User** page. After you close this page, you cannot retrieve the keys from Tenable Web App Scanning.
Unlock a User Account

Tenable Web App Scanning locks you out if you attempt to log in and fail 5 consecutive times.

**Note:** A user can be locked out of the user interface but still submit API requests if they are assigned the appropriate authorizations (api_permitted). For more information, see the Tenable Developer Portal.

You can unlock a user account in one of the following ways:

- If a user has access to the email address specified in the user account, they can unlock their own account.
- If a user no longer has access to that email address, another user with administrator privileges can reset the user's password.
Disable a User Account

Required User Role: Administrator

Disabling a user account prevents the user from logging in and prevents their scans from running. You can enable a disabled user account as described in Enable a User Account.

Important: Disabling a user account does not disable scheduled reports for that user. Additionally, if the disabled user shared a report with other users, these other users can still generate that report. For more information, see Reports.

To disable a user account:

1. In the upper-left corner, click the button.

   The left navigation plane appears.

2. In the left navigation plane, click Settings.

   The Settings page appears.

3. Click the Access Control tile.

   The Access Control page appears. On this page, you can control user and group access to resources in your Tenable Web App Scanning account.

4. Select the user or users you want to disable:

   • Select a single user:
     a. In the users table, in the row for the user account you want to disable, click the button.

        The action buttons appear in the row.

     b. In the row, click the button.

        A confirmation window appears.

   • Select multiple users:
a. In the users table, click the check box for each user you want to disable.

The action bar appears at the bottom of the pagetop of the table.

b. In the action bar, click the button.

A confirmation window appears.

5. In the confirmation window, click Disable.

A success message appears.

Tenable Web App Scanning disables the selected user or users. In the users table, a disabled user appears in light gray.

**Note:** If the user you disable has a session in progress, they may continue to have limited access. However, once they log out, they cannot log back in.
Enable a User Account

**Required User Role:** Administrator

When you disable a user account, you can enable an account again to restore a user's access.

To enable a user account:

1. In the upper-left corner, click the ⚙ button.
   The left navigation plane appears.

2. In the left navigation plane, click **Settings**.
   The **Settings** page appears.

3. Click the **Access Control** tile.
   The **Access Control** page appears. On this page, you can control user and group access to resources in your Tenable Web App Scanning account.

4. Select the user or users you want to enable:

   **Select a single user:**
   a. In the users table, in the row for the user account you want to enable, click the ✅ button.
      The action buttons appear in the row.
      
      **Note:** Users appear grayed out while they are disabled.

   b. In the row, click the ✅ button.
      A confirmation window appears.

   **Select multiple users:**
   a. In the users table, click the check box for each user you want to enable.
      The action bar appears at the bottom of the pagetop of the table.

   b. In the action bar, click the ✅ button.
      A confirmation window appears.
5. In the confirmation window, click **Enable**.

A success message appears.

Tenable Web App Scanning enables the selected user or users. In the users table, an enabled user appears in black.
Manage User Access Authorizations

Users can access Tenable Web App Scanning using the following methods:

- Username and password login.
- Single sign-on (SSO). For more information, see SAML.
- Tenable Web App Scanning REST API with API keys. For more information, see Generate Another User’s API Keys.

When you create a new user, all access methods are authorized by default. Depending on your organization's security policies, you may need to disable certain access methods, for example, disable username and password login to enforce SSO.

Use the Tenable Web App Scanning Platform API to view, grant, and revoke access authorizations for a user. For more information, see Get User Authorizations and Update User Authorizations in the Tenable Developer Portal.
Audit User Activity

Required User Role: Administrator

In Tenable Web App Scanning, the audit log records user events that take place in your organization's Tenable Web App Scanning account. For each event, the log includes information about:

- the action taken
- the time at which the action was taken
- the user ID
- the target entity ID

The audit log provides visibility into the actions that users in your organization take in Tenable Web App Scanning, and can be helpful for identifying security issues and other potential problems.

To view the audit log for your organization's Tenable Web App Scanning account:

- Use the Audit Log endpoint as documented in the Tenable Developer Portal.

Logged Events

Note: If you configure SAML SSO authentication for your users, Tenable Web App Scanning does not write activity for those users to the audit log.

Audit log events include the following:

<table>
<thead>
<tr>
<th>Action</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>audit.log.view</td>
<td>The system received and processed an audit-log request.</td>
</tr>
<tr>
<td>session.create</td>
<td>The system created a session for the user. This event is triggered by user login.</td>
</tr>
<tr>
<td>session.delete</td>
<td>The session expired, or the user ended a session.</td>
</tr>
<tr>
<td>session.impersonation.end</td>
<td>An administrator ended a session where they impersonated another user.</td>
</tr>
<tr>
<td>Event Type</td>
<td>Description</td>
</tr>
<tr>
<td>-------------------------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>session.impersonation.start</td>
<td>An administrator started a session where they impersonated another user.</td>
</tr>
<tr>
<td>user.authenticate.mfa</td>
<td>Two-factor authentication was successful, and login was allowed.</td>
</tr>
<tr>
<td>user.authenticate.password</td>
<td>The user authenticated a session start using a password.</td>
</tr>
<tr>
<td>user.create</td>
<td>An administrator created a new user account.</td>
</tr>
<tr>
<td>user.delete</td>
<td>An administrator deleted a user account.</td>
</tr>
<tr>
<td>user.impersonation.end</td>
<td>An administrator stopped impersonating another user.</td>
</tr>
<tr>
<td>user.impersonation.start</td>
<td>An administrator started impersonating another user.</td>
</tr>
<tr>
<td>user.logout</td>
<td>The user logged out of their session.</td>
</tr>
<tr>
<td>user.update</td>
<td>Either an administrator or the user updated a user account.</td>
</tr>
</tbody>
</table>
Export Users

**Required User Role:** Administrator

On the **Users** page, you can export one or more users in CSV or JSON format.

To export your users:

1. In the upper-left corner, click the **tree** button.
   
   The left navigation plane appears.

2. In the left navigation plane, click **Settings**.
   
   The **Settings** page appears.

3. Click the **Access Control** tile.
   
   The **Access Control** page appears. On this page, you can control user and group access to resources in your Tenable Web App Scanning account.

4. Click the **Users** tab.
   
   The **Users** page appears. This page contains a table that lists all users for your Tenable Web App Scanning instance.

5. (Optional) Refine the table data. For more information, see [Tenable Web App Scanning Workbench Tables](#).

6. Select the users that you want to export:

<table>
<thead>
<tr>
<th>Export Scope</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Selected users</td>
<td>To export selected users:</td>
</tr>
<tr>
<td></td>
<td>a. In the users table, select the check box for each user you want to export.</td>
</tr>
<tr>
<td></td>
<td>The action bar appears at the top of the table.</td>
</tr>
<tr>
<td></td>
<td>b. In the action bar, click ⇨ <strong>Export</strong>.</td>
</tr>
</tbody>
</table>
Note: The Export link is available for up to 200 selections. If you want to export more than 200 users, select all the users in the list and then click Export.

<table>
<thead>
<tr>
<th>A single user</th>
<th>To export a single user:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>a. In the users table, right-click the row for the user you want to export. The action options appear next to your cursor. -or- In the users table, in the Actions column, click the button in the row for the user you want to export. The action buttons appear in the row.</td>
</tr>
<tr>
<td></td>
<td>b. Click Export.</td>
</tr>
</tbody>
</table>

The Export plane appears. This plane contains:

- A text box to configure the export file name.
- A list of available export formats.
- A table of configuration options for fields to include in the exported file.

Note: By default, all fields are selected.

- A text box to set the number of days before the export expires.
- A toggle to configure the export schedule.
- A toggle to configure the email notification.

7. In the Name box, type a name for the export file.
8. Click the export format you want to use:

<table>
<thead>
<tr>
<th>Format</th>
<th>Description</th>
</tr>
</thead>
</table>
- | - |
<table>
<thead>
<tr>
<th>CSV</th>
<th>A CSV text file that contains a list of users.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Note:</strong></td>
<td>If your .csv export file includes a cell that begins with any of the following characters (=, +, -, @), Tenable Web App Scanning automatically inputs a single quote (') at the beginning of the cell. For more information, see the related knowledge base article.</td>
</tr>
<tr>
<td>JSON</td>
<td>A JSON file that contains a nested list of users.</td>
</tr>
<tr>
<td></td>
<td>Empty fields are not included in the JSON file.</td>
</tr>
</tbody>
</table>


10. In the **Expiration** box, type the number of days before the export file expires.

   **Note:** Tenable Web App Scanning allows you to set a maximum of 30 calendar days for export expiration.

11. (Optional) To set a schedule for your export to repeat:

   - Click the **Schedule** toggle.

     The **Schedule** section appears.

   - In the **Start Date and Time** section, select the date and time on which you want the export schedule to start.

   - In the **Time Zone** drop-down box, select the time zone to which you want the schedule to adhere.

   - In the **Repeat** drop-down box, select how often you want the export to repeat.

   - In the **Repeat Ends** drop-down, select the date on which you want the schedule to end.

     **Note:** If you select never, the schedule repeats until you modify or delete the export schedule.

12. (Optional) To send email notifications on completion of the export:

   **Note:** You can enable email notifications with or without scheduling exports.
• Click the **Email Notification** toggle.

The **Email Notification** section appears.

• In the **Add Recipients** box, type the email addresses to which you want to send the export notification.

• (Required) In the **Password** box, type a password for the export file. You must share this password with the recipients to allow them to download the file.

  **Note:** Tenable Web App Scanning sends an email to the recipients and from the link in the email, the recipients can download the file by providing the correct password.

13. Click **Export**.

Tenable Web App Scanning begins processing the export. Depending on the size of the exported data, Tenable Web App Scanning may take several minutes to process the export.

When processing completes, Tenable Web App Scanning downloads the export file to your computer. Depending on your browser settings, your browser may notify you that the download is complete.

14. Access the export file via your browser's downloads directory. If you close the export plane before the download finishes, then you can access your export file in the **Export Management View**.
Delete a User Account

**Required User Role:** Administrator

Before you delete a user account, you must first disable the user account.

**Caution:** Once you delete a user account, the account cannot be recovered and the action cannot be reversed.

**Caution:** Tenable Web App Scanning does not support object migration. When you delete a Tenable Web App Scanning user, the application does not reassign objects belonging to the deleted users. Note that you cannot reassign a Tenable Web App Scanning scan to a new owner if its owner is deleted.

**Caution:** Before you delete a user account, reassign any associated Remediation projects. These will not be reassigned automatically.

The following table describes what objects are migrated, retained, or permanently deleted upon user deletion:

<table>
<thead>
<tr>
<th>Object Type</th>
<th>Deleted</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Audit Files in Scans</td>
<td>Yes</td>
<td>Permanently deleted</td>
</tr>
<tr>
<td>Scan Schedules</td>
<td>No</td>
<td>Migrated to the new object owner</td>
</tr>
<tr>
<td>Historical Scan Results</td>
<td>No</td>
<td>Migrated to the new object owner</td>
</tr>
<tr>
<td>Scan Templates</td>
<td>No</td>
<td>Migrated to the new object owner</td>
</tr>
<tr>
<td>Unmanaged Credentials in Scans</td>
<td>Yes</td>
<td>Permanently deleted</td>
</tr>
<tr>
<td>Custom Dashboards/Widgets</td>
<td>Yes</td>
<td>Permanently deleted</td>
</tr>
<tr>
<td>Managed Credentials</td>
<td>No</td>
<td>Retained <em>(Created By</em> value displays as null)*</td>
</tr>
</tbody>
</table>

**Note:** Migrated scan schedules may be disabled if they rely on other permanently deleted objects, such as Audit files, Target Groups, or Unmanaged Credentials.
<table>
<thead>
<tr>
<th>Object Type</th>
<th>Deleted</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tags</td>
<td>No</td>
<td>Retained <em>(Created By value displays as null)</em></td>
</tr>
<tr>
<td>Recast/Accept Rules</td>
<td>No</td>
<td>Retained <em>(Owner value displays as Unknown User)</em></td>
</tr>
<tr>
<td>Exclusions</td>
<td>No</td>
<td>Retained</td>
</tr>
<tr>
<td>System Target Groups</td>
<td>No</td>
<td>Retained</td>
</tr>
<tr>
<td>User Target Groups</td>
<td>No</td>
<td>Migrated to the new object owner</td>
</tr>
<tr>
<td>Saved Searches</td>
<td>Yes</td>
<td>Permanently deleted</td>
</tr>
<tr>
<td>Connectors</td>
<td>No</td>
<td>Retained</td>
</tr>
<tr>
<td>Sensors</td>
<td>No</td>
<td>Retained</td>
</tr>
</tbody>
</table>

To delete a user account:

1. In the upper-left corner, click the button.
   The left navigation plane appears.
2. In the left navigation plane, click **Settings**.
   The **Settings** page appears.
3. Click the **Access Control** tile.
   The **Access Control** page appears. On this page, you can control user and group access to resources in your Tenable Web App Scanning account.
4. In the users table, in the row for the user account you want to delete, click the button.
   A menu appears.
5. In the menu, click the button.

**Note**: If a user is not disabled, then the button does not appear. Disable the user before deleting them.
Note: You cannot delete the Default Administrator account. If you want to delete the Default Administrator account, you must contact Tenable Support.

The user plane appears.

6. In the Select New Object Owner drop-down box, select the user to which you want to transfer any of the user's objects (e.g., scan results, user-defined scan templates).

7. Click Delete.

A confirmation message appears.

8. Click Delete.

Tenable Web App Scanning deletes the user and transfers any user objects to the user you designated.
User Groups

Topics in this section have been modified to reflect feature updates in Tenable Vulnerability Management Key Enhancements. For more information, see Tenable Vulnerability Management Key Enhancements.

User groups allow you to manage user permissions for various resources in Tenable Web App Scanning. When you assign users to a group, the users inherit the permissions assigned to the group. Your organization may utilize groups to provide permissions to batches of users based on the roles of those users and your organization’s security posture.

**Note:** For an example of how user groups interact with user accounts and access groups, see Example: Access Groups.

To view your user groups:

1. In the left navigation plane, click **Settings**.
   
   The **Settings** page appears.

2. Click the **Access Control** tile.
   
   The **Access Control** page appears. On this page, you can control user and group access to resources in your Tenable Web App Scanning account.

3. Click the **Groups** tab.
   
   The **Groups** page appears.

   The **User Groups** page displays a table of all user groups in your Tenable Web App Scanning instance. This documentation refers to that table as the **user groups table**.

   The user groups table contains the following columns:
### Column | Description
--- | ---
**Name** | The group name. You can define this name for all user groups except the Tenable-provided **All Users** and **Administrator** groups.

**Members** | The number of users assigned to the user group.

**Actions** | The actions you can take with the group.

On the **Groups** tab, you can perform the following actions:

- [Create a Group](#)
- [Edit a Group](#)
- [Export Groups](#)
- [Delete a Group](#)
Create a User Group

Required User Role: Administrator

To create a user group:

1. In the upper-left corner, click the button.
   
   The left navigation plane appears.

2. In the left navigation plane, click Settings.
   
   The Settings page appears.

3. Click the Access Control tile.
   
   The Access Control page appears. On this page, you can control user and group access to resources in your Tenable Web App Scanning account.

4. At the top of the user group table, click the Create User Group button.
   
   The Create Group page appears.

5. In the User Group Name box, type a name for the new group.

6. Add users to the group:
a. For each user you want to add, click the Users drop-down box and begin typing a user name.

As you type, Tenable Web App Scanning filters the list of users in the drop-down box to match your search.

b. Select a user from the drop-down box.

Tenable Web App Scanning adds the user to the list of users to be added to the user group.

**Tip:** To remove a user from the list of users to be added, roll over the user and click the \( \times \) button.

7. Click **Save**.

Tenable Web App Scanning creates the user group and adds the listed users as members.

The **Groups** page appears, where you can view the new group listed in the user groups table.
Edit a User Group

**Required User Role:** Administrator

To edit a group:

1. In the upper-left corner, click the button.  
   The left navigation plane appears.

2. In the left navigation plane, click **Settings**.  
   The **Settings** page appears.

3. Click the **Access Control** tile.  
   The **Access Control** page appears. On this page, you can control user and group access to resources in your Tenable Web App Scanning account.

4. In the user groups table, click the user group that you want to edit.  
   The **Edit User Group** page appears.

5. Do any of the following:
   - In the **User Group Name** box, type a new group name.
   - Add users to the group:
     a. For each user you want to add, click the **Users** drop-down box and begin typing a user name.  
        As you type, Tenable Web App Scanning filters the list of users in the drop-down box to match your search.
     b. Select a user from the drop-down box.  
        Tenable Web App Scanning adds the user to the list of users to be added to the user group.
   - Remove a user from the group:
a. In the **Users** list, click the \(\times\) button next the user account you want to remove.

   Tenable Vulnerability Management removes the user from the **Users** list.

   - **Add** or **remove** permissions from the group.

6. Click **Save**.

   Tenable Web App Scanning saves the user group with any changes you made.

   The **Groups** page appears, where you can view the new group listed in the user groups table.
Export Groups

**Required User Role:** Administrator

On the [Access Control](#) page, in the **Groups** tab, you can export one or more user groups in CSV or JSON format.

To export your user groups:

1. In the upper-left corner, click the button.
   The left navigation plane appears.

2. In the left navigation plane, click **Settings**.
   The **Settings** page appears.

3. Click the **Access Control** tile.
   The **Access Control** page appears. On this page, you can control user and group access to resources in your Tenable Web App Scanning account.

4. Click the **Groups** tab.
   The **Groups** tab appears, containing a table that lists all user groups in your Tenable Web App Scanning instance.

5. (Optional) Refine the table data. For more information, see [Tenable Web App Scanning Workbench Tables](#).

6. Do one of the following:

   **To export a single group:**
   a. In the groups table, right-click the row for the group you want to export.
   
   The action options appear next to your cursor.
   
   -or-
   
   In the groups table, in the **Actions** column, click the  button in the row for the group you want to export.
The action buttons appear in the row.

b. Click **Export**.

The **Export** plane appears. This plane contains:

- A text box to configure the export file name.
- A list of available export formats.
- A table of configuration options for fields to include in the exported file.

**Note:** By default, all fields are selected.

- A text box to set the number of days before the export expires.

To export multiple groups:

a. In the groups table, select the check box for each group you want to export.

The action bar appears at the top of the table.

b. In the action bar, click **Export**.

**Note:** You can individually select and export up to 200 groups. If you want to export more than 200 groups, you must select all the groups on your Tenable Web App Scanning instance by selecting the check box at the top of the groups table and then click **Export**.

The **Export** plane appears. This plane contains:

- A text box to configure the export file name.
- A list of available export formats.
- A table of configuration options for fields to include in the exported file.

**Note:** By default, all fields are selected.

- A text box to set the number of days before the export expires.

The **Export** plane appear. This plane contains:
- A text box to configure the export file name.
- A list of available export formats.
- A table of configuration options for fields to include in the exported file.

**Note:** By default, all fields are selected.

- A text box to set the number of days before the export expires.
- A toggle to configure the export schedule.
- A toggle to configure the email notification.

7. In the **Name** box, type a name for the export file.

8. Click the export format you want to use:

<table>
<thead>
<tr>
<th>Format</th>
<th>Description</th>
</tr>
</thead>
</table>
| CSV    | A CSV text file that contains a list of groups.  
**Note:** If your .csv export file includes a cell that begins with any of the following characters (=, +, -, @), Tenable Web App Scanning automatically inputs a single quote (‘) at the beginning of the cell. For more information, see the related knowledge base article. |
| JSON   | A JSON file that contains a nested list of groups.  
Empty fields are not included in the JSON file. |


10. In the **Expiration** box, type the number of days before the export file expires.

**Note:** Tenable Web App Scanning allows you to set a maximum of 30 calendar days for export expiration.

11. (Optional) To set a schedule for your export to repeat:

- Click the **Schedule** toggle.

  The **Schedule** section appears.
- In the **Start Date and Time** section, select the date and time on which you want the export schedule to start.

- In the **Time Zone** drop-down box, select the time zone to which you want the schedule to adhere.

- In the **Repeat** drop-down box, select how often you want the export to repeat.

- In the **Repeat Ends** drop-down, select the date on which you want the schedule to end.

  **Note:** If you select never, the schedule repeats until you modify or delete the export schedule.

12. **(Optional)** To send email notifications on completion of the export:

   **Note:** You can enable email notifications with or without scheduling exports.

   - Click the **Email Notification** toggle.
     
     The **Email Notification** section appears.

   - In the **Add Recipients** box, type the email addresses to which you want to send the export notification.

   - **(Required)** In the **Password** box, type a password for the export file. You must share this password with the recipients to allow them to download the file.

     **Note:** Tenable Web App Scanning sends an email to the recipients and from the link in the email, the recipients can download the file by providing the correct password.

13. Click **Export**.

    Tenable Web App Scanning begins processing the export. Depending on the size of the exported data, Tenable Web App Scanning may take several minutes to process the export.

    When processing completes, Tenable Web App Scanning downloads the export file to your computer. Depending on your browser settings, your browser may notify you that the download is complete.

14. Access the export file via your browser's downloads directory. If you close the export plane before the download finishes, then you can access your export file in the **Export Management View**.

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Delete a Group

**Required User Role:** Administrator

**Note:** You cannot delete the Tenable-provided Administrator or All Users user group.

Before you begin:

- **Remove** all users from the user group. You cannot delete a user group that contains any users.

To delete one or more user groups:

1. In the upper-left corner, click the button.

   The left navigation plane appears.

2. In the left navigation plane, click **Settings**.

   The **Settings** page appears.

3. Click the **Access Control** tile.

   The **Access Control** page appears. On this page, you can control user and group access to resources in your Tenable Web App Scanning account.

4. Click the **Groups** tab.

   The **Groups** page appears. This page displays a table with all the user groups on your Tenable Web App Scanning account.

5. Do one of the following:

   - To delete a single user group:
     a. In the user groups table, click the button for the user group you want to delete.

        A menu appears.

     b. Click the **Delete** button.

        A confirmation window appears.
• To delete multiple user groups.
  
  a. In the user groups table, select the check box for each user group you want to delete.

  The action bar appears at the top of the table.

  b. In the action bar, click the Delete button.

  A confirmation window appears.

6. In the confirmation window, click Delete.

  Tenable Web App Scanning deletes the selected user group or groups. The deleted group or groups no longer appear in the user groups table.
Permissions

Tenable Web App Scanning allows you to create and manage configurations that determine which users on your organization's account can perform specific actions with the organization's resources and data. This documentation refers to these configurations as *permission configurations*.

On the **My Accounts** page, each user can view the permission configurations assigned to them. However, only administrator users can view or manage permission configurations for other users. For more information, see [Tenable-Provided Roles and Privileges](#).

When you create a **user** or **user group**, you can assign existing permission configurations to them for assets that meet the criteria specified by a previously created **tag**. In Tenable Web App Scanning, these assets and the tags that define them are called **objects**.

### Roles vs. Permissions: What's the difference?

- **Roles** – Roles allow you to manage privileges for major functions in Tenable Web App Scanning and control which Tenable Web App Scanning modules and functions users can access.
- **Permissions** – Permissions allow you to manage access to your own data, such as **Tags**, **Assets**, and their **Findings**.

When you create a permission configuration, you must select one or more of the following predefined permissions. These permissions determine the actions users can take with the object or objects defined in the permission configuration.

---

1A configuration that administrators can create to determine what actions certain users and groups can perform with a given set of resources.

2In a permission configuration, an asset and the tag that defines it.
<table>
<thead>
<tr>
<th>Permission</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Can View</td>
<td>Allows the user or group to view the assets defined by the object.</td>
</tr>
<tr>
<td></td>
<td><strong>Note</strong>: If you have a Tenable Lumin license, you must have the Can View permission for an asset to view that asset's details. However, you can view the total number of assets licensed to the account regardless of your permissions. You can also view your Cyber Exposure Score (CES) and Asset Exposure Score (AES) values, which are based on the combined risk of all assets licensed to the account. For more information, see <a href="#">Tenable Lumin Metrics</a>.</td>
</tr>
<tr>
<td>Can Scan</td>
<td>Allows the user or group to scan the assets defined by the object.</td>
</tr>
<tr>
<td></td>
<td><strong>Note</strong>: For a manually entered target to be considered valid, it must meet the following criteria:</td>
</tr>
<tr>
<td></td>
<td>• The user is an administrator</td>
</tr>
<tr>
<td></td>
<td>OR</td>
</tr>
<tr>
<td></td>
<td>• The user has at least Scan Operator role privileges, AND</td>
</tr>
<tr>
<td></td>
<td>• If the target does not exist within the Tenable Web App Scanning system, the user must have CanScan permissions on an object that refers to the target explicitly via IPv4, IPv6 or FQDN. If the object has more than one rule, the rules must be joined by the &quot;Match Any&quot; filter, OR</td>
</tr>
<tr>
<td></td>
<td>• If the target already exists within the Tenable Web App Scanning system, then it must be tagged by an object for which the user has CanScan permissions.</td>
</tr>
<tr>
<td>Can Edit</td>
<td>Allows the user or group to edit the tag that defines the object.</td>
</tr>
<tr>
<td>Can Use</td>
<td>Allows the user or group to use the tag that defines the object.</td>
</tr>
</tbody>
</table>

To view your permission configurations in Tenable Web App Scanning:

1. In the upper-left corner, click the ** button.
   
The left navigation plane appears.
2. In the left navigation plane, click **Settings**.
The **Settings** page appears.

3. Click the **Access Control** tile.

The **Access Control** page appears. On this page, you can control user and group access to resources in your Tenable Web App Scanning account.

4. Click the **Permissions** tab.

The **Permissions** tab appears. This tab contains a table that lists all of the permission configurations on your Tenable Web App Scanning instance.

<table>
<thead>
<tr>
<th>Access Control</th>
<th>Permissions</th>
<th>Roles</th>
</tr>
</thead>
<tbody>
<tr>
<td>Users</td>
<td>Groups</td>
<td>Permissions</td>
</tr>
</tbody>
</table>

**Note:** The first row of the permissions table contains a read-only entry for Administrators. This entry exists to remind you that Administrators have all permissions for every resource on your account. For more information, see Roles.

On the **Permissions** tab, you can perform the following actions:

- **Create and Add a Permission Configuration**
- **Add a Permission Configuration to a User or Group**
- **Edit a Permission Configuration**
- **Export Permission Configurations**
- **Remove a Permission Configuration from a User or Group**
- **Delete a Permission Configuration**
Create and Add a Permission Configuration

Required User Role: Administrator

When you create a permission configuration in Tenable Web App Scanning, you can apply that configuration to one or more users or groups.

Before you begin:

- Create a user or group for your Tenable Web App Scanning account.
- Create a tag for the object for which you want to create a permission.

To create and add a permission configuration to a user or group:

1. In the upper-left corner, click the button.
   The left navigation plane appears.

2. In the left navigation plane, click Settings.
   The Settings page appears.

3. Click the Access Control tile.
   The Access Control page appears. On this page, you can control user and group access to resources in your Tenable Web App Scanning account.

4. Click the Permissions tab.
   The Permissions tab appears. This tab contains a table that lists all of the permission configurations on your Tenable Web App Scanning instance.

5. At the top of the table, click Create Permission.
   The Create Permission window appears.
6. In the **Permission Name** box, type a name for the permission configuration.

7. (Optional) In the **Users** drop-down box, select one or more users.

   **Note:** Although the **Users** box is optional, you cannot save the permission configuration unless at least one user or user group is selected.

8. (Optional) In the **Groups** drop-down box, select one or more user groups.

   **Note:** Although the **Groups** box is optional, you cannot save the permission configuration unless at least one user or user group is selected.

   **Note:** You can select **All Users** in the **Groups** drop-down box to assign the permission configuration to all users on your Tenable Web App Scanning instance. However, Tenable recommends that you use caution when assigning the permission configuration to all users because doing so goes against security best practices.

9. In the **Permissions** drop-down box, select one or more permissions.
Caution: Adding the Can Edit permission to your permission configuration along with the Can View or Can Scan permission allows assigned users to change the scope of the assets they can view and scan. Tenable recommends that you combine the Can Edit permission with the Can View or Can Scan permission only for administrator users.

Note: If you select the Can Edit permission, Tenable Web App Scanning automatically adds the Can Use permission.

10. In the Objects drop-down box, select one or more objects to which to apply the permission configuration.

Note: The objects in the drop-down box are previously created tags that identify and define your assets. For more information, see Permissions.

Tip: You can select All Assets to allow users and group to view or scan all the assets on your instance, regardless of whether the assets match any existing objects. You can also select All Tags to allow users and groups on your instance to edit or use all objects on your instance. For more information about objects, see Permissions.

11. Click Save.

A confirmation message appears.

Tenable Web App Scanning saves your changes. The permission configuration appears on the Permissions tab.
Add a Permission Configuration to a User or Group

Required User Role: Administrator

Before you begin:

- Create a user or group for your Tenable Web App Scanning account.
- Create a permission configuration.

To add a permission configuration to a user or group:

1. In the upper-left corner, click the button.
   The left navigation plane appears.

2. In the left navigation plane, click Settings.
   The Settings page appears.

3. Click the Access Control tile.
   The Access Control page appears. On this page, you can control user and group access to resources in your Tenable Web App Scanning account.

4. Do one of the following:

   - Add a permission configuration to a user:
     a. Click the Users tab.
        The Users tab appears. This tab contains a list of all the users on your Tenable Web App Scanning instance.
     b. In the users table, click the user to which you want to add a permission configuration.
        The Edit User page appears.
     c. In the Permissions section, at the top of the table, click Add Permissions.
        The Add Permissions window appears.
d. Select the check box next to one or more permission configurations.

e. Click **Add**.

The permission configuration appears in the **Permissions** table on the **Edit User** page.

- **Add a permission configuration to a user group:**

  a. Click the **Groups** tab.

     The **Groups** tab appears. This tab contains a list of all the user groups on your Tenable Web App Scanning instance.

  b. In the groups table, click the group to which you want to add a permission configuration.

     The **Edit User Group** page appears.

  c. In the **Permissions** section, at the top of the table, click **Add Permissions**.

     The **Add Permissions** window appears.

  d. Select the check box next to one or more permission configurations.

  e. Click **Add**.

     The permission configuration appears in the **Permissions** table on the **Edit User Group** page.

5. Click **Save**.

   Tenable Web App Scanning saves your changes and adds the permission configuration to the user or group.
**Edit a Permission Configuration**

*Required User Role: Administrator*

To edit a permission configuration:

1. In the upper-left corner, click the `>` button.
   
   The left navigation plane appears.

2. In the left navigation plane, click **Settings**.
   
   The **Settings** page appears.

3. Click the **Access Control** tile.
   
   The **Access Control** page appears. On this page, you can control user and group access to resources in your Tenable Web App Scanning account.

4. Click the **Permissions** tab.
   
   The **Permissions** tab appears. This tab contains a list of all the permission configurations on your Tenable Web App Scanning instance.

5. In the table, click the permission configuration you want to edit.
   
   The **Permission Details** page appears.

6. (Optional) In the **Permission Name** box, type a new name for the permission configuration.

7. (Optional) Add or remove users or user groups.

8. (Optional) Add or remove a permission:

   **Caution:** Adding the Can Edit permission to your permission configuration along with the Can View or Can Scan permission allows the users selected in the permission configuration to change the scope of the assets they can view and scan. Tenable recommends that you combine the Can Edit permission with the Can View or Can Scan permission only for administrator users.

   **Note:** If you select the Can Edit permission, Tenable Web App Scanning automatically adds the Can Use permission.
**Note:** You cannot assign permissions to user or groups for a given object that overlap with permissions assigned to them via another permission configuration. For example, if you selected the *Can Edit* permission for an object, but a user listed under *Users* already has the ability to edit that object based on an existing permission configuration, Tenable Web App Scanning generates an error message and prevents you from saving the current permission configuration until you modify your selections to remove the redundancy.

a. To add a permission, in the **Permissions** drop-down box, select one or more permissions.

b. To remove a permission, in the **Permissions** drop-down box, click the × button next to each permission you want to remove.

9. (Optional) Add or remove an object.

a. To add an object, in the **Objects** drop-down box, select one or more objects.

b. To remove an object, in the **Objects** drop-down box, click the × button next to each object you want to remove.

10. Click **Save**.

Tenable Web App Scanning saves your changes. The updated permission configuration appears on the **Permissions** tab.
Export Permission Configurations

Required User Role: Administrator

On the Permissions page, you can export one or more permission configurations in CSV or JSON format.

To export your permission configurations:

1. In the upper-left corner, click the button.
   The left navigation plane appears.
2. In the left navigation plane, click Settings.
   The Settings page appears.
3. Click the Access Control tile.
   The Access Control page appears. On this page, you can control user and group access to resources in your Tenable Web App Scanning account.
4. Click the Permissions tab.
   The Permissions tab appears. This tab contains a table that lists all of the permission configurations on your Tenable Web App Scanning instance.

   **Note:** The first row of the permissions table contains a read-only entry for Administrators. This entry exists to remind you that Administrators have all permissions for every resource on your account. For more information, see Roles.

5. (Optional) Refine the table data. For more information, see Tenable Web App Scanning Workbench Tables.

6. Do one of the following:

   To export a single permission configuration:

   a. In the permission configurations table, right-click the row for the permission configuration you want to export.

      The action options appear next to your cursor.
In the permission configurations table, in the **Actions** column, click the button in the row for the permission configuration you want to export.

The action buttons appear in the row.

b. Click **Export**.

To export multiple permission configurations:

a. In the permission configurations table, select the check box for each permission configuration you want to export.

The action bar appears at the top of the table.

b. In the action bar, click **More**.

A menu appears.

c. Click **Export**.

**Note:** You can individually select and export up to 200 permission configurations. If you want to export more than 200 permission configurations, you must select all the permission configurations on your Tenable Web App Scanning instance by selecting the check box at the top of the permission configurations table and then click **Export**.

The **Export** plane appears. This plane contains the following:

- A text box to configure the export file name.
- A list of available export formats.
- A table of configuration options for fields to include in the exported file.

**Note:** By default, all fields are selected.

- A text box to set the number of days before the export expires.
- A toggle to configure the export schedule.
- A toggle to configure the email notification.

7. In the **Name** box, type a name for the export file.
8. Click the export format you want to use:

<table>
<thead>
<tr>
<th>Format</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSV</td>
<td>A CSV text file that contains a list of permission configurations.</td>
</tr>
</tbody>
</table>

**Note:** If your .csv export file includes a cell that begins with any of the following characters (=, +, -, @), Tenable Web App Scanning automatically inputs a single quote (‘) at the beginning of the cell. For more information, see the related knowledge base article.

| JSON   | A JSON file that contains a nested list of permission configurations. Empty fields are not included in the JSON file. |


10. In the **Expiration** box, type the number of days before the export file expires.

**Note:** Tenable Web App Scanning allows you to set a maximum of 30 calender days for export expiration.

11. (Optional) To set a schedule for your export to repeat:

   - Click the **Schedule** toggle.

     The **Schedule** section appears.

   - In the **Start Date and Time** section, select the date and time on which you want the export schedule to start.

   - In the **Time Zone** drop-down box, select the time zone to which you want the schedule to adhere.

   - In the **Repeat** drop-down box, select how often you want the export to repeat.

   - In the **Repeat Ends** drop-down, select the date on which you want the schedule to end.

     **Note:** If you select never, the schedule repeats until you modify or delete the export schedule.

12. (Optional) To send email notifications on completion of the export:
Note: You can enable email notifications with or without scheduling exports.

- Click the Email Notification toggle. The Email Notification section appears.

- In the Add Recipients box, type the email addresses to which you want to send the export notification.

- (Required) In the Password box, type a password for the export file. You must share this password with the recipients to allow them to download the file.

Note: Tenable Web App Scanning sends an email to the recipients and from the link in the email, the recipients can download the file by providing the correct password.

13. Click Export.

Tenable Web App Scanning begins processing the export. Depending on the size of the exported data, Tenable Web App Scanning may take several minutes to process the export.

When processing completes, Tenable Web App Scanning downloads the export file to your computer. Depending on your browser settings, your browser may notify you that the download is complete.

14. Access the export file via your browser's downloads directory. If you close the export plane before the download finishes, then you can access your export file in the Export Management View.
Remove a Permission Configuration from a User or Group

**Required User Role:** Administrator

**Note:** You cannot remove a permission configuration from the Tenable-provided *Administrator* or *All Users* user groups.

To remove a permission configuration from a user or user group:

1. In the upper-left corner, click the ☑️ button.
   
   The left navigation plane appears.

2. In the left navigation plane, click *Settings*.
   
   The *Settings* page appears.

3. Click the *Access Control* tile.
   
   The *Access Control* page appears. On this page, you can control user and group access to resources in your Tenable Web App Scanning account.

4. To remove a permission configuration from a user:
   
   • Do one of the following:
     
     ◦ Remove the permission configuration via the *Users* tab:
       
       a. Click the *Users* tab.

       The *Users* tab appears. This tab contains a list of all the users on your Tenable Web App Scanning instance.

       b. In the users table, click the user from which you want to remove a permission configuration.

       The *Edit User* page appears.

       c. In the *Permissions* table, in the *Actions* column, click the ☑️ button next to the permission configuration you want to remove.
d. Click the **Remove** button.

   Tenable Web App Scanning removes the permission configuration from the user.

   e. (Optional) Repeat for each user from which you want to remove a permission configuration.

   ○ Remove the permission via the **Permissions** tab:

   a. Click the **Permissions** tab.

      The **Permissions** tab appears. This tab contains a table that lists all of the permission configurations on your Tenable Web App Scanning instance.

   b. In the table, click the permission configuration you want to remove.

      The **Permission Details** page appears.

   c. Under **Users**, click the **X** button next to each user from which you want to remove the permission configuration.

      Tenable Vulnerability Management removes the permission configuration from the **Users** list.

5. To remove a permission configuration from a user group:

   - Do one of the following:

     ○ Remove the permission configuration via the **Groups** tab:

       a. Click the **Groups** tab.

          The **Groups** tab appears. This tab contains a list of all the user groups on your Tenable Vulnerability Management instance.

       b. In the user groups table, click the group from which you want to remove a permission configuration.

          The **Edit User Group** page appears.
c. In the Permissions table, in the Actions column, click the button next to the permission configuration you want to remove.

d. Click the Remove button.

Tenable Vulnerability Management removes the permission configuration from the user group.

e. (Optional) Repeat for each user group from which you want to remove a permission configuration.

**Remove the permission configuration via the Permissions tab:**

a. Click the Permissions tab.

The Permissions tab appears. This tab contains a table that lists all of the permission configurations on your Tenable Vulnerability Management instance.

b. In the table, click the permission you want to remove.

The Permission Details page appears.

c. Under Groups, click the button next to each user group from which you want to remove the permission configuration.

Tenable Vulnerability Management removes the permission configuration from the Groups list.

6. Click Save.

Tenable Vulnerability Management saves your changes and removes the permission from the user or group.
Delete a Permission Configuration

**Required User Role:** Administrator

**Note:** You cannot delete the default permission configuration.

To remove a permission configuration from a user or user group:

1. In the upper-left corner, click the button.

   The left navigation plane appears.

2. In the left navigation plane, click **Settings**.

   The **Settings** page appears.

3. Click the **Access Control** tile.

   The **Access Control** page appears. On this page, you can control user and group access to resources in your Tenable Web App Scanning account.

4. Click the **Permissions** tab.

   The **Permissions** tab appears. This tab contains a table that lists all of the permission configurations on your Tenable Web App Scanning instance.

5. In the table, in the **Actions** column, click the button next to the permission configuration you want to delete.

6. Click the **Delete** button.

   Tenable Web App Scanning deletes the permission configuration.
Roles

Roles allow you to manage privileges for major functions in Tenable Web App Scanning and control which Tenable Web App Scanning resources users can access in Tenable Web App Scanning.

When you create a user, you must select a role for that user that broadly determine the actions the user can perform.

**Note:** You can further refine user access to specific resources by assigning permissions to individual users or groups. For more information, see Permissions.

### Roles vs. Permissions: What’s the difference?

- **Roles** — Roles allow you to manage privileges for major functions in Tenable Web App Scanning and control which Tenable Web App Scanning modules and functions users can access.
- **Permissions** — Permissions allow you to manage access to your own data, such as Tags, Assets, and their Findings.

On the Roles page, you can view all Tenable-provided roles and any custom roles created on your Tenable Web App Scanning instance.

<table>
<thead>
<tr>
<th>Access Control</th>
</tr>
</thead>
<tbody>
<tr>
<td>Users</td>
</tr>
<tr>
<td><img src="image" alt="Search" /></td>
</tr>
<tr>
<td><img src="image" alt="Add Role" /></td>
</tr>
</tbody>
</table>

![Table of roles](image)

You can assign one of the following role types to users:

<table>
<thead>
<tr>
<th>Role Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Tenable-Provided Roles</strong></td>
<td>Contains a predefined set of privileges determined by the Tenable Web App Scanning product specified on your account license. Each role encompasses the privileges of lower roles and adds new privileges. Administrators have the</td>
</tr>
<tr>
<td>Privileges</td>
<td>most privileges. Basic users have the fewest.</td>
</tr>
<tr>
<td>---------------------</td>
<td>-----------------------------------------------</td>
</tr>
<tr>
<td>Custom Roles</td>
<td>Contains a custom set of privileges that allow you to tailor user privileges and access to resources on your Tenable Web App Scanning instance.</td>
</tr>
</tbody>
</table>

To view your user roles:

1. In the upper-left corner, click the button.

   The left navigation plane appears.

2. In the left navigation plane, click **Settings**.

   The **Settings** page appears.

3. Click the **Access Control** tile.

   The **Access Control** page appears. On this page, you can control user and group access to resources in your Tenable Web App Scanning account.

4. Click the **Roles** tab.

   The **Roles** page appears. This page contains a table that lists all the user roles available on your Tenable Web App Scanning instance.

   ![Access Control](image)

   On the **Roles** page, you can complete the following actions:

   - **Create a Custom Role**
   - **Duplicate a Role**
   - **Edit a Custom Role**
- Export Roles
- Delete a Custom Role
## Tenable-Provided Roles and Privileges

The following tables describe privileges associated with each Tenable-provided user role, organized by function in their respective product.

<table>
<thead>
<tr>
<th>Area</th>
<th>Tenable Web App Scanning-Provided Roles and Privileges</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Administrator</td>
</tr>
<tr>
<td>Activity Logs</td>
<td>view, export</td>
</tr>
<tr>
<td>API Keys</td>
<td>view, modify</td>
</tr>
<tr>
<td>Account Settings</td>
<td>view, modify</td>
</tr>
<tr>
<td>Agents</td>
<td>view, delete</td>
</tr>
<tr>
<td>Agent Freeze</td>
<td>view, create, modify, delete</td>
</tr>
<tr>
<td>Windows</td>
<td>view, create, modify, delete</td>
</tr>
<tr>
<td>Agent Groups</td>
<td>view, create, modify, delete</td>
</tr>
<tr>
<td>Agent Settings</td>
<td>view, modify</td>
</tr>
<tr>
<td>Assets</td>
<td>view, modify, export, delete</td>
</tr>
<tr>
<td>Connectors</td>
<td>view, create,</td>
</tr>
<tr>
<td>Area</td>
<td>Administrator</td>
</tr>
<tr>
<td>-----------------</td>
<td>-----------------------------</td>
</tr>
<tr>
<td></td>
<td>modify, delete</td>
</tr>
<tr>
<td><strong>Dashboards</strong></td>
<td>view, create, modify, export, delete</td>
</tr>
<tr>
<td><strong>Exclusions</strong></td>
<td>view, import, export, delete</td>
</tr>
<tr>
<td><strong>Exports</strong></td>
<td>view, modify, export, delete</td>
</tr>
<tr>
<td><strong>General Settings</strong></td>
<td>view, modify</td>
</tr>
<tr>
<td><strong>Health and Status</strong></td>
<td>view</td>
</tr>
<tr>
<td><strong>Managed Credentials</strong></td>
<td>view, create, modify, delete</td>
</tr>
<tr>
<td><strong>PCI Managing</strong></td>
<td>view, import, export, create, modify, delete</td>
</tr>
<tr>
<td><strong>Recast Rules</strong></td>
<td>view, create, modify, delete</td>
</tr>
<tr>
<td><strong>Reports</strong></td>
<td>view, run</td>
</tr>
<tr>
<td>Area</td>
<td>Administrator</td>
</tr>
<tr>
<td>-----------------------</td>
<td>---------------</td>
</tr>
<tr>
<td></td>
<td>create, modify, delete</td>
</tr>
<tr>
<td>Report Results</td>
<td>view, delete</td>
</tr>
<tr>
<td>Scans</td>
<td>view, import, run, create, modify, delete</td>
</tr>
<tr>
<td>Scan Results</td>
<td>view, export, delete</td>
</tr>
<tr>
<td>Sensors</td>
<td>view, add, modify, delete</td>
</tr>
<tr>
<td>Scanner Groups</td>
<td>view, create, modify, delete</td>
</tr>
</tbody>
</table>

¹User roles determine a user's abilities, but the permissions that a user has for a particular scan are dictated by **scan permissions**.

²Can create scans using existing user-defined policies that are shared with the user.

³Can view list of scans, but not scan configuration details.
## Tenable Web App Scanning-Provided Roles and Privileges

<table>
<thead>
<tr>
<th>Area</th>
<th>Administrator</th>
<th>Scan Manager</th>
<th>Standard</th>
<th>Scan Operator</th>
<th>Basic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tags 1</td>
<td>view, create tag category, create tag value, delete, export, assign, unassign</td>
<td>view, create tag value, delete, assign, unassign</td>
<td>view, delete, assign, unassign ²</td>
<td>view, delete, assign, unassign</td>
<td>view, assign, unassign</td>
</tr>
<tr>
<td>User Groups</td>
<td>view, create, modify, delete, export</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>User-Defined Scan Templates</td>
<td>view, import, export, create, modify, delete</td>
<td>view, import, export, create, modify, delete</td>
<td>view, import, export, create, modify, delete</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Users</td>
<td>view, create, modify, delete</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Vulnerabilities</td>
<td>view, export</td>
<td>view, export</td>
<td>view</td>
<td>view, export</td>
<td>view, export</td>
</tr>
</tbody>
</table>

1 Assigning and Unassigning tags can be done from the Asset Details page.
2 Standard users must have the Can Use permission to view, delete, assign, and unassign tags.
<table>
<thead>
<tr>
<th>Area</th>
<th>Administrators</th>
<th>Scan Manager</th>
<th>Standard</th>
<th>Scan Operator</th>
<th>WAS Reader</th>
<th>Basic</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Tenable-Provided Scan Templates</strong></td>
<td>delete</td>
<td>modify, delete</td>
<td>modify, delete</td>
<td>modify, delete</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td><strong>User-Defined Templates</strong></td>
<td>view, create, modify, delete</td>
<td>view, create, modify, delete</td>
<td>view, create, modify, delete</td>
<td>view, create, modify, delete</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td><strong>Scans</strong> (also requires scan permissions)</td>
<td>view, import, create, modify, run, delete</td>
<td>view, import, create, modify, run, delete</td>
<td>view, create, modify, run, delete</td>
<td>view, create¹, modify, run, delete, move to trash</td>
<td>view</td>
<td>view</td>
</tr>
<tr>
<td><strong>Managed Credentials</strong></td>
<td>view, create, modify, delete</td>
<td>view, create, modify, delete</td>
<td>view, create, modify, delete</td>
<td>view, create, modify, delete</td>
<td>view, create, modify, delete</td>
<td>view, create, modify, delete</td>
</tr>
</tbody>
</table>

¹Can create scans using existing user-defined policies that are shared with the user.
### Tenable Web App Scanning-Provided Roles and Privileges

<table>
<thead>
<tr>
<th>Area</th>
<th>Administrator</th>
<th>Scan Manager</th>
<th>Standard</th>
<th>Scan Operator</th>
<th>WAS Reader</th>
<th>Basic</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Scan Permissions</strong></td>
<td>view, create, modify, delete&lt;sup&gt;1&lt;/sup&gt;</td>
<td>view, create, modify, delete&lt;sup&gt;2&lt;/sup&gt;</td>
<td>view, create, modify, delete&lt;sup&gt;3&lt;/sup&gt;</td>
<td>view, create, modify, delete&lt;sup&gt;4&lt;/sup&gt;</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td><strong>Scan Results</strong></td>
<td>view, delete</td>
<td>view, delete</td>
<td>view, delete</td>
<td>view, delete</td>
<td>view, delete</td>
<td>view, delete</td>
</tr>
<tr>
<td>(also requires scan permissions)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Lumin Exposure View-Provided Roles and Privileges

<table>
<thead>
<tr>
<th>Area</th>
<th>Administrator</th>
<th>Scan Manager</th>
<th>Standard</th>
<th>Scan Operator</th>
<th>Basic</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Settings</strong></td>
<td>manage, read</td>
<td>read</td>
<td>read</td>
<td>read</td>
<td>read</td>
</tr>
<tr>
<td><strong>Access to Asset Type</strong></td>
<td>computing resource (host), cloud resource, web application, identity</td>
<td>computing resource (host), cloud resource, web application, identity</td>
<td>computing resource (host), cloud resource, web application, identity</td>
<td>computing resource (host), cloud resource, web application, identity</td>
<td>computing resource (host), cloud resource, web application, identity</td>
</tr>
</tbody>
</table>

<sup>1</sup>Administrator users can create, modify, and delete permissions for scans that any user on the account owns.

<sup>2</sup>Scan Manager users can create, modify, or delete permissions only on scans they own.

<sup>3</sup>Standard users can create, modify, or delete permissions only on scans they own.

<sup>4</sup>Scan Operator users can create, modify, or delete permissions only on scans they own.
<table>
<thead>
<tr>
<th>Area</th>
<th>Lumin Exposure View-Provided Roles and Privileges</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Administrator</td>
</tr>
<tr>
<td>Export</td>
<td>identity</td>
</tr>
<tr>
<td>Exposure Card</td>
<td>manage own</td>
</tr>
<tr>
<td></td>
<td>create, share, read</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Area</th>
<th>Asset Inventory-Provided Roles and Privileges</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Administrator</td>
</tr>
<tr>
<td>Access to Asset Type</td>
<td>computing resource (host), cloud resource, web application, identity</td>
</tr>
<tr>
<td>Export</td>
<td>manage own</td>
</tr>
<tr>
<td>Tag</td>
<td>create, edit</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Area</th>
<th>Attack Path Analysis-Provided Roles and Privileges</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Administrator</td>
</tr>
<tr>
<td>Export</td>
<td>manage own</td>
</tr>
<tr>
<td>Finding</td>
<td>manage, read</td>
</tr>
<tr>
<td>Query</td>
<td>search, save</td>
</tr>
</tbody>
</table>

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### Attack Path Analysis-Provided Roles and Privileges

<table>
<thead>
<tr>
<th>Area</th>
<th>Administrator</th>
<th>Scan Manager</th>
<th>Standard</th>
<th>Scan Operator</th>
<th>Basic</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>save</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Tenable Container Security-Provided Roles and Privileges

<table>
<thead>
<tr>
<th>Area</th>
<th>Administrator</th>
<th>Scan Manager</th>
<th>Standard</th>
<th>Scan Operator</th>
<th>Basic</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Dashboards</strong></td>
<td>view</td>
<td>view</td>
<td>view</td>
<td>view</td>
<td>view</td>
</tr>
<tr>
<td><strong>Usage Data</strong></td>
<td>view</td>
<td>view</td>
<td>view</td>
<td>view</td>
<td>view</td>
</tr>
<tr>
<td><strong>Images</strong></td>
<td>view, push to Tenable Vulnerability Management, delete</td>
<td>view, push to Tenable Vulnerability Management, delete</td>
<td>view, push to Tenable Vulnerability Management, delete</td>
<td>view, push to Tenable Vulnerability Management, delete</td>
<td>-</td>
</tr>
<tr>
<td><strong>Image Repository</strong></td>
<td>view, search, delete</td>
<td>view, search, delete</td>
<td>view, search, delete</td>
<td>view, search, delete</td>
<td>view, search</td>
</tr>
<tr>
<td><strong>Containers</strong></td>
<td>view</td>
<td>view</td>
<td>view</td>
<td>view</td>
<td>view</td>
</tr>
<tr>
<td><strong>Policies</strong></td>
<td>create, view, edit, set permissions, delete</td>
<td>create, view, edit, set permissions, delete</td>
<td>view</td>
<td>view</td>
<td>view</td>
</tr>
<tr>
<td><strong>Connectors</strong></td>
<td>create, configure, view, delete</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

1. User with the Administrator role can view license information that is not available to other roles.
2. Besides user with the Administrator role, users can delete only images that they imported. Administrator users can delete images for all users on an account.
<table>
<thead>
<tr>
<th>CS Scanner</th>
<th>download, view, configure, run</th>
<th>download, view, configure, run</th>
<th>download, view, configure, run</th>
<th>download, view, configure, run</th>
<th>download</th>
</tr>
</thead>
<tbody>
<tr>
<td>Scan Results</td>
<td>view, search</td>
<td>view, search</td>
<td>view, search</td>
<td>view, search</td>
<td>view, search</td>
</tr>
</tbody>
</table>
Custom Roles

You can create custom roles for users on your Tenable Web App Scanning instance to give those users privileges that are specific to your organization’s needs.

When you create a custom role, you can add all or some of the following privileges. You can also edit a custom role to remove privileges. Which privileges you can add to or remove from a role depend on the area of Tenable Web App Scanning where each privilege applies.

Note: A user’s access to resources on the account may be limited by their permissions, regardless of their role.

- **Create** — Allows users to create an exposure card or a tag. This privilege is specific to Lumin Exposure View and Asset Inventory, respectively.

- **Manage** — Allows the user to create, modify, and delete in the area where the privilege applies.

  Note: When you add the Manage privilege to a custom role, Tenable Web App Scanning automatically adds the Read privilege as well. You cannot disable the Read privilege unless you first disable the Manage privilege.

- **Manage All** — Allows the user to view, modify, and delete exports, including exports that others created.

- **Manage Own** — Allows the user to view, modify, and delete only exports that the user created.

- **Share** — Allows the user to share objects with other users or groups.

  Note: If a custom role does not also have the Read permission enabled, they cannot access a list of other users with which to share objects.

- **Read** — Allows the user to view items in the area where the privilege applies.

- **Use** — Allows the user to use Tenable-provided scan templates during Tenable Web App Scanning scan creation.

- **Submit PCI** — Allows the user to submit the scan for PCI validation. For more information, see the Tenable PCI ASV User Guide.
• **Search** — Allows the user to search for a query where the privilege applies. This privilege is specific to **Attack Path Analysis**.

• **Save** — Allows the user to save a query where the privilege applies. This privilege is specific to **Attack Path Analysis**.

• **Cloud Resource** — Allows the user to access assets from **Cloud Resource** data sources. This privilege is specific to **Lumin Exposure View** and **Asset Inventory**.

• **Computing Resource** — Allows the user to access assets from **Computing Resource** data sources. This privilege is specific to **Lumin Exposure View** and **Asset Inventory**.

• **Identity** — Allows the user to access assets from **Identity** data sources. This privilege is specific to **Lumin Exposure View** and **Asset Inventory**.

• **Web Application** — Allows the user to access assets from **Web Application** data sources. This privilege is specific to **Lumin Exposure View** and **Asset Inventory**.

**Note:** Tenable applications do not currently support managing scans and sensors via Custom Roles.

The following table describes the privilege options available for custom roles in different sections of Tenable Web App Scanning.

**Note:** When you create a custom role, you must include Read privileges for the **General Settings**, **License**, and **My Account** sections. If you do not include Read privileges for these sections, users assigned to the role cannot log in to Tenable Web App Scanning.

<table>
<thead>
<tr>
<th>Section</th>
<th>Privilege Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>Asset Inventory</td>
<td></td>
</tr>
<tr>
<td>Access to Asset Type</td>
<td>Cloud Resource, Computing Resource, Identity, Web Application</td>
</tr>
<tr>
<td>Inventory</td>
<td>Read</td>
</tr>
<tr>
<td>Export</td>
<td>Manage Own</td>
</tr>
<tr>
<td>Tag</td>
<td>Create, Edit</td>
</tr>
<tr>
<td>Attack Path Analysis</td>
<td></td>
</tr>
<tr>
<td>Feature</td>
<td>Action(s)</td>
</tr>
<tr>
<td>-------------------------</td>
<td>--------------------</td>
</tr>
<tr>
<td>Export</td>
<td>Manage Own</td>
</tr>
<tr>
<td>Finding</td>
<td>Read, Manage</td>
</tr>
<tr>
<td>Query</td>
<td>Save, Search</td>
</tr>
<tr>
<td>Lumin Exposure View</td>
<td></td>
</tr>
<tr>
<td>Access to Asset Type</td>
<td>Cloud Resource, Computing Resource, Identity, Web Application</td>
</tr>
<tr>
<td>Export</td>
<td>Manage Own</td>
</tr>
<tr>
<td>Exposure Card</td>
<td>Read, Create, Share</td>
</tr>
<tr>
<td>Settings</td>
<td>Read, Manage</td>
</tr>
<tr>
<td>Platform Settings</td>
<td></td>
</tr>
<tr>
<td>Asset</td>
<td>Read</td>
</tr>
<tr>
<td>Findings</td>
<td>Read</td>
</tr>
<tr>
<td>My Account</td>
<td>Read, Manage</td>
</tr>
<tr>
<td>Access Control</td>
<td>Read, Manage</td>
</tr>
</tbody>
</table>

**Caution:** Adding the **Manage** privilege in Access Control allows any user with that custom role to create an Administrator user, log in as that user, and change the privileges or permissions for any user on your Tenable Vulnerability Management instance, including their own. If you want to create a user account with the ability to manage your Access Control configurations, Tenable recommends that you assign that user the Administrator role. For more information, see Tenable-Provided Roles and Privileges.

<table>
<thead>
<tr>
<th>Feature</th>
<th>Action(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Activity Log</td>
<td>Read</td>
</tr>
<tr>
<td>General Setting</td>
<td>Read, Manage</td>
</tr>
<tr>
<td>License Information</td>
<td>Read</td>
</tr>
<tr>
<td>Workspaces</td>
<td></td>
</tr>
<tr>
<td>------------------</td>
<td>----------</td>
</tr>
<tr>
<td>Asset</td>
<td>Read</td>
</tr>
<tr>
<td>Finding</td>
<td>Read</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Vulnerability Management</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Dashboard</td>
<td>Manage, Share</td>
</tr>
</tbody>
</table>

- **Note**: Custom role privileges in the Dashboards section do not include the ability to export a dashboard. Assign a Tenable-provided role to a user if you want the user to be able to export dashboards.

- **Note**: All users can view the dashboards they create or that others share with them regardless of the privileges you assign to them.

<table>
<thead>
<tr>
<th>Export</th>
<th>Manage All, Manage Own</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recast/Accept Rule</td>
<td>Read, Manage</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Scan</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Nessus/Agent Scan</td>
<td>Read, Manage, Submit PCI</td>
</tr>
<tr>
<td>Scan Exclusion</td>
<td>Read, Manage</td>
</tr>
<tr>
<td>Tenable-Provided Scan Template</td>
<td>Use</td>
</tr>
<tr>
<td>User-Defined Scan Template</td>
<td>Read, Manage</td>
</tr>
<tr>
<td>Managed Credential</td>
<td>Read, Manage</td>
</tr>
<tr>
<td>Target Group</td>
<td>Read, Manage</td>
</tr>
</tbody>
</table>
Create a Custom Role

**Required User Role:** Administrator

**Note:** Tenable applications do not currently support managing scans and sensors via Custom Roles.

To create a custom role:

1. In the upper-left corner, click the button.
   
   The left navigation plane appears.

2. In the left navigation plane, click **Settings**.
   
   The **Settings** page appears.

3. Click the **Access Control** tile.
   
   The **Access Control** page appears. On this page, you can control user and group access to resources in your Tenable Web App Scanning account.

4. Click the **Roles** tab.
   
   The **Roles** page appears. This page contains a table that lists all the user roles available on your Tenable Web App Scanning instance.

5. Do one of the following:
   
   - **Duplicate** and modify an existing role.
   
   - Add a new role:
     
     a. At the top of the table, click **Add Role**.
        
        The **Add Role** page appears.
b. In the **Name** box, type a name for your custom role.

c. (Optional) In the **Description** box, type a description for your custom role.

d. Determine the applications to which the custom role has access:

   i. In the left panel, click the application name.

      An **Enable** toggle appears.

   ii. Click the **Enable** toggle to enable or disable access to this application for the custom role you're creating.

      For some applications, privileges associated with the application appear.
iii. Select the check box for each privilege you want to add to your custom role.

e. Click **Save**.

Tenable Web App Scanning saves the role and adds it to the roles table.
Duplicate a Role

**Required User Role:** Administrator

You can create a custom role by duplicating any existing custom role and then modifying the new role configurations as desired.

**Note:** You cannot duplicate Tenable-provided roles.

To create a custom role via duplication:

1. In the upper-left corner, click the button.
   
   The left navigation plane appears.

2. In the left navigation plane, click **Settings**.
   
   The **Settings** page appears.

3. Click the **Access Control** tile.
   
   The **Access Control** page appears. On this page, you can control user and group access to resources in your Tenable Web App Scanning account.

4. Click the **Roles** tab.
   
   The **Roles** page appears. This page contains a table that lists all the user roles available on your Tenable Web App Scanning instance.

5. In the roles table, select the check box next to the role you want to duplicate.
   
   The action bar appears at the top of the table.

6. In the action bar, click **More**.
   
   A menu appears.

7. Click **Duplicate**.
   
   A copy of the role appears in the table, with the prefix Copy of [role name].

8. Click the duplicated role.
The **Roles Details** page appears. The name, description, and selected privileges for the duplicate role are copied from the original role.

9. Update one or more of the following configurations:

   - **Name** — In the **Name** box, type a new name for the role.
   
   - **Description** — In the **Description** box, type a description for the role.
   
   - **Privileges** — Under each Tenable Web App Scanning area, select or deselect the check box next to each privilege you want to add to or remove from the role.

10. Click **Save**.

    Tenable Web App Scanning saves your changes to the duplicate role.
Edit a Custom Role

**Required User Role:** Administrator

**Note:** Tenable applications do not currently support managing scans and sensors via Custom Roles.

To edit a custom role:

1. In the upper-left corner, click the button.
   
   The left navigation plane appears.

2. In the left navigation plane, click **Settings**.
   
   The **Settings** page appears.

3. Click the **Access Control** tile.
   
   The **Access Control** page appears. On this page, you can control user and group access to resources in your Tenable Web App Scanning account.

4. Click the **Roles** tab.
   
   The **Roles** page appears. This page contains a table that lists all the user roles available on your Tenable Web App Scanning instance.

5. In the roles table, click the role you want to edit.
   
   The **Roles Details** page appears.

6. Update one or more of the following configurations:

   - Name — In the **Name** box, type a new name for the role.
   - Description — In the **Description** box, type a description for the role.
   - Privileges — Under each Tenable Web App Scanning area, select or deselect the check box next to each privilege you want to add to or remove from the role.

7. Click **Save**.
   
   Tenable Web App Scanning saves your changes.
Delete a Custom Role

**Required User Role:** Administrator

**Note:** You can delete only custom roles. You cannot delete Tenable-Provided Roles and Privileges.

To delete a custom role:

1. In the upper-left corner, click the button.
   
   The left navigation plane appears.

2. In the left navigation plane, click **Settings**.
   
   The **Settings** page appears.

3. Click the **Access Control** tile.
   
   The **Access Control** page appears. On this page, you can control user and group access to resources in your Tenable Web App Scanning account.

4. Click the **Roles** tab.
   
   The **Roles** page appears. This page contains a table that lists all the user roles available on your Tenable Web App Scanning instance.

5. In the table, in the **Actions** column, click the button next to the role you want to delete.

6. Click the **Delete** button.
   
   Tenable Web App Scanning deletes the role and removes it from the roles table.
Export Roles

**Required User Role:** Administrator

On the **Roles** page, you can export one or more user groups in CSV or JSON format.

To export your user roles:

1. In the upper-left corner, click the button.
   
The left navigation plane appears.

2. In the left navigation plane, click **Settings**.
   
The **Settings** page appears.

3. Click the **Access Control** tile.
   
The **Access Control** page appears. On this page, you can control user and group access to resources in your Tenable Web App Scanning account.

4. Click the **Roles** tab.
   
The **Roles** page appears. This page contains a table that lists all the Tenable-provided and custom roles on your Tenable Web App Scanning instance.

5. (Optional) Refine the table data. For more information, see [Tenable Web App Scanning Workbench Tables](#).

6. Do one of the following:

   To export a single role:

   a. In the roles table, right-click the row for the role you want to export.
      
The action options appear next to your cursor.

   -or-

   In the roles table, in the **Actions** column, click the button in the row for the role you want to export.

   The action buttons appear in the row.
b. Click **Export**.

To export multiple roles:

a. In the roles table, select the check box for each role you want to export.

   The action bar appears at the top of the table.

b. In the action bar, click → **Export**.

   **Note:** You can individually select and export up to 200 roles. If you want to export more than 200 roles, you must select all the roles on your Tenable Web App Scanning instance by selecting the check box at the top of the roles table and then click → **Export**.

The **Export** plane appears. This plane contains:

- A text box to configure the export file name.
- A list of available export formats.
- A table of configuration options for fields to include in the exported file.

   **Note:** By default, all fields are selected.

- A text box to set the number of days before the export expires.
- A toggle to configure the export schedule.
- A toggle to configure the email notification.

7. In the **Name** box, type a name for the export file.

8. Click the export format you want to use:

<table>
<thead>
<tr>
<th>Format</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSV</td>
<td>A CSV text file that contains a list of roles.</td>
</tr>
</tbody>
</table>

   **Note:** If your .csv export file includes a cell that begins with any of the following characters ( =, +, -, @), Tenable Web App Scanning automatically inputs a single quote (‘) at the beginning of the cell. For more information, see the related [knowledge base article](#).
| JSON | A JSON file that contains a nested list of roles. Empty fields are not included in the JSON file. |


10. In the **Expiration** box, type the number of days before the export file expires.

    **Note:** Tenable Web App Scanning allows you to set a maximum of 30 calendar days for export expiration.

11. (Optional) To set a schedule for your export to repeat:
    
    - Click the **Schedule** toggle.
    
    The **Schedule** section appears.
    
    - In the **Start Date and Time** section, select the date and time on which you want the export schedule to start.
    
    - In the **Time Zone** drop-down box, select the time zone to which you want the schedule to adhere.
    
    - In the **Repeat** drop-down box, select how often you want the export to repeat.
    
    - In the **Repeat Ends** drop-down, select the date on which you want the schedule to end.
    
    **Note:** If you select never, the schedule repeats until you modify or delete the export schedule.

12. (Optional) To send email notifications on completion of the export:

    **Note:** You can enable email notifications with or without scheduling exports.

    - Click the **Email Notification** toggle.
    
    The **Email Notification** section appears.
    
    - In the **Add Recipients** box, type the email addresses to which you want to send the export notification.
• (Required) In the **Password** box, type a password for the export file. You must share this password with the recipients to allow them to download the file.

**Note:** Tenable Web App Scanning sends an email to the recipients and from the link in the email, the recipients can download the file by providing the correct password.

13. **Click Export.**

Tenable Web App Scanning begins processing the export. Depending on the size of the exported data, Tenable Web App Scanning may take several minutes to process the export.

When processing completes, Tenable Web App Scanning downloads the export file to your computer. Depending on your browser settings, your browser may notify you that the download is complete.

14. **Access the export file via your browser’s downloads directory.** If you close the export plane before the download finishes, then you can access your export file in the **Export Management View.**
**Access Groups**

Tenable is retiring access groups. Moving forward, Tenable recommends that you use permissions to manage user and group access to resources on your Tenable Vulnerability Management instance and that you convert your existing access groups into permission configurations. For more information, see Transition to Permission Configurations.

Note: System target group permissions that controlled viewing scan results and scanning specified targets have been migrated to access groups. For more information, see Scan Permissions Migration.

With access groups, you can control which users or groups in your organization can:

- View specific assets and related vulnerabilities in aggregated scan result views (dashboards in the new interface and workbenches in classic interface).
- Run scans against specific targets and view individual scan results for the targets.

An access group contains assets or targets as defined by the rules you set. Access group rules specify identifying attributes that Tenable Vulnerability Management uses to associate assets or targets with the group (for example, an AWS Account ID, FQDN, or IP address). By assigning permissions in the access group to users or user groups, you grant the users the users in the groups view or scan permissions for assets or targets associated with the access group.

Note: When you create or edit an access group, Tenable Vulnerability Management may take some time to assign assets to the access group, depending on the system load, the number of matching assets, and the number of vulnerabilities.

You can view the status of this assignment process in the Status column of the access groups table on the Access Groups page.

Only administrators can view, create, and edit access groups. As a user assigned any other role, you can see the access groups to which you belong and the related rules, but not the other users that are in the access group.

Note: The Access Group tile appears only if you have one or more assigned access groups or if you are an administrator and users on your Tenable Vulnerability Management are assigned to access groups. Once you convert all your access groups to permission configurations, the Access Group tile will no longer appear on your account.
By default, all users have **No Access** to all assets on your Tenable Vulnerability Management instance. Therefore, if you want to assign permissions for assets, you must [create an access group](#) and [configure user permissions](#) for the group.

**Note:** Tenable Vulnerability Management applies dynamic tags to any assets, regardless of access group scoping. As a result, it may apply tags you create to assets outside of the access groups to which you belong.

Your organization can create up to 5,000 access groups.
Transition to Permission Configurations

**Required User Role:** Administrator

Tenable is converting all access groups into permission configurations. As this conversion runs, you may notice your existing access groups undergoing changes. Moving forward, Tenable recommends that you use permissions to manage user and group access to resources on your Tenable Vulnerability Management instance. For more information, see Transition to Permission Configurations.

Tenable Vulnerability Management has consolidated and moved user and group management to the **Access Control** page to make access management more intuitive and efficient.

As part of this effort, Tenable Vulnerability Management is replacing Access Groups with Permissions, a feature that allows you to create permission configurations. These permission configurations use tags to determine which users and groups on your Tenable Vulnerability Management instance can perform specific tasks with your organization's resources.

Previously, you had to create access groups to customize access settings for users on your instance. When you create a permission configuration, you can view and manage access settings for users and groups on the **Access Control** page, where you manage users and groups.

Tenable Vulnerability Management plans to retire access groups once all existing access groups are converted into permissible configurations. Tenable Vulnerability Management encourages you to use permission configurations to manage user access to your resources.

**What to Expect**

As Tenable Vulnerability Management converts your access group data into permission configurations, you may notice the following changes:

- Tenable Vulnerability Management has split up your access groups that have more than one access group type and recreated them as separate groups based on type. For more information about access group types, see Access Group Types.

- Tenable Vulnerability Management has converted all your Scan Target type access groups into Manage Assets type access groups.
• Tenable Vulnerability Management has updated access group rule filters to match tag rule filters and operators.

• For each access group on your instance that is based on rules instead of tags, Tenable Vulnerability Management has created tags based on the access group rules and updated the groups to reference the new tags. For more information about tag rules, see Tag Rules.

• For each access group on your install, Tenable Vulnerability Management has created permission configurations based on the rules and user permissions defined in that access group.

Task Parity

The following table lists common tasks you may perform on the Access Groups page and their equivalent tasks on the Permissions page.

<table>
<thead>
<tr>
<th>Access Groups</th>
<th>Permissions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Create an Access Group</td>
<td>Create and Add a Permission Configuration</td>
</tr>
<tr>
<td>View Your Assigned Access Groups</td>
<td>View Your Account Details</td>
</tr>
<tr>
<td>Edit an Access Group</td>
<td>Edit a Permission Configuration</td>
</tr>
<tr>
<td>Configure User Permissions for an Access Group</td>
<td>• Add a Permission Configuration to a User or Groups</td>
</tr>
<tr>
<td></td>
<td>• Remove a Permission Configuration from a User or Group</td>
</tr>
<tr>
<td>Delete an Access Group</td>
<td>Delete a Permission Configuration</td>
</tr>
</tbody>
</table>
Convert an Access Group to a Permission Configuration

**Required User Role:** Administrator

Tenable is converting all access groups into permission configurations. As this conversion runs, you may notice your existing access groups undergoing changes. Moving forward, Tenable recommends that you use permissions to manage user and group access to resources on your Tenable Vulnerability Management instance. For more information, see Transition to Permission Configurations.

On the **Access Groups** page, you can convert your existing access groups into permission configurations.

**Note:** Once you convert an access group into a permission configuration, you cannot revert the converted permission configuration into an access group.

**Note:** The **Access Group** tile appears only if you have one or more assigned access groups or if you are an administrator and users on your Tenable Vulnerability Management are assigned to access groups. Once you convert all your access groups to permission configurations, the **Access Group** tile will no longer appear on your account.

To convert an access group into a permission configuration:

1. In the upper-left corner, click the ☐️ button.
   
   The left navigation plane appears.

2. In the left navigation plane, click **Settings**.
   
   The **Settings** page appears.

3. Click the **Access Groups** tile tab.
   
   The **Access Groups** pagetab appears. This pagetab contains a table that lists the access groups to which you have access.

4. In the access groups table, select the check box for the access group you want to convert.
   
   The action bar appears at the top of the table.

5. Click **Migrate To Permissions**.
A confirmation message appears.

6. In the confirmation window, click [Migrate To Permissions].

Tenable Vulnerability Management begins converting your access group into a permission configuration.

Tenable Vulnerability Management updates the Status column for the access group to reflect the current migration status.
# Access Group Types

Tenable is retiring access groups. Moving forward, Tenable recommends that you use permissions to manage user and group access to resources on your Tenable Vulnerability Management instance and that you convert your existing access groups into permission configurations. For more information, see Transition to Permission Configurations.

You can create the following types of access groups. Select an access group type based on the identifiers for the targets you want to scan.

<table>
<thead>
<tr>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Manage Assets</td>
<td>Users can view the asset records created during previous scans and scan the associated targets for those assets.</td>
</tr>
<tr>
<td></td>
<td>Use this type of access group if the targets you want to view and scan have been scanned before and can be best identified using tags based on asset attributes (for example, operating system or AWS Account ID).</td>
</tr>
<tr>
<td>Scan Targets</td>
<td>Users can scan targets associated with the access group and view the results of those scans.</td>
</tr>
<tr>
<td></td>
<td>Use this type of access group if the targets you want to view and scan have never been scanned before and can only be identified using certain asset identifiers (specifically, FQDN, IPv4 address, or IPv6 address).</td>
</tr>
</tbody>
</table>

**Note:** The access group type names do not represent a limitation on the user actions that each group controls in relation to the specified targets. For both Manage Assets and Scan Targets groups, you can grant user permissions to view analytical results for the specified targets in dashboards, to scan the specified targets, or to both view and scan. For more information on user permissions, see Configure User Permissions for an Access Group. For more information on user permissions, see Edit a User Group.

**Tip:** You can add a user to both access group types if you want to allow the user to scan both types of scan targets.
Restrict Users for All Assets Group

Tenable is retiring access groups. Moving forward, Tenable recommends that you use permissions to manage user and group access to resources on your Tenable Vulnerability Management instance and that you convert your existing access groups into permission configurations. For more information, see Transition to Permission Configurations.

**Required User Role:** Administrator

The **All Assets** group is the default, system-generated access group to which all assets belong.

By default, the following conditions are true:

- The **All Users** user group, which contains all users in your organization, is assigned to the **All Assets** access group.
- The permissions for the **All Users** group are set to **Can View** and **Can Scan**.

If you do not want all users to scan all assets and view the individual and aggregated results, you must set the permissions for the **All Users** group to **No Access**. Optionally, you can then add specific users or user groups to provide individuals with access to all assets.

**Note:** When you create or edit an access group, Tenable Vulnerability Management may take some time to assign assets to the access group, depending on the system load, the number of matching assets, and the number of vulnerabilities.

You can view the status of this assignment process in the **Status** column of the access groups table on the **Access Groups** page.

To restrict user permissions for the **All Assets** group:

1. In the upper-left corner, click the **button.
   
   The left navigation plane appears.

2. In the left navigation plane, click **Settings**.
   
   The **Settings** page appears.

3. Click the **Access Groups** tiletab.
The **Access Groups** pagetab appears. This pagetab contains a table that lists the access groups to which you have access.

4. In the access groups table, click the **All Assets** group.

The **Edit All Assets Access Group** page appears.

5. In the **Users & Groups** section, locate the listing for the **All Users** group.

6. Remove both the **Can Edit** and **Can Scan** labels from the **All Users** group listing:
   a. Roll over the label.
      
      The \(\times\) button appears on the label.
   b. Click the \(\times\) button.

      Tenable Vulnerability Management removes the label.

\[\text{Note: When configuring permissions for the **All Users** user group, Tenable recommends keeping the following in mind:}\]

- If you retain the permissions for **All Assets** as **Can View**, all users can view scan results for all assets or targets for your organization.
- If you set the permissions for **All Assets** to **Can Scan**, all users can scan all assets or targets for your organization and view the related scan results.

7. (Optional) **Configure** user permissions for each user or group you want to add to the **All Assets** group.

8. Click **Save**.

The **Access Groups** page appears. Access to the **All Assets** group is restricted to the user(s) or group(s) you added.

The **User Groups** tab appears. No users can access assets for your organization.

9. (Optional) In any user group you want to access the **All Assets** group, **configure permissions** for the **All Assets** access group.
Create an Access Group

Tenable is retiring access groups. Moving forward, Tenable recommends that you use permissions to manage user and group access to resources on your Tenable Vulnerability Management instance and that you convert your existing access groups into permission configurations. For more information, see Transition to Permission Configurations.

Required User Role: Administrator

You can create an access group to group assets based on rules, using information such as an AWS Account ID, FQDN, IP address, and other identifying attributes. You can then assign permissions for users or user groups to view or scan the assets in the access group.

To create an access group:

1. In the upper-left corner, click the button.
   The left navigation plane appears.

2. In the left navigation plane, click Settings.
   The Settings page appears.

3. Click the Access Control tile.
   The Access Control page appears. On this page, you can control user and group access to resources in your Tenable Web App Scanning account.

4. Click the Access Groups tile tab.
   The Access Groups pagetab appears. This pagetab contains a table that lists the access groups to which you have access.

5. In the upper-right corner of the page, click the Create Access Group button.
   The Create Access Group page appears.

6. In the General section, in the Name box, type a name for the access group.

Note: The name must be unique within your organization.
7. In the **Type** section, select the appropriate **access group type** based on the type of targets you want to scan.

   If you create an access group of one type, then change the type during configuration, Tenable Vulnerability Management prompts you to confirm the action. If you confirm, Tenable Vulnerability Management clears any previously added rule filters criteria.

8. In the **Rules** section, add rules for the access group.

   Access group rules specify the conditions Tenable Vulnerability Management evaluates when determining whether to include assets or targets in the access group.

   **Note:** You can add up to 1,000 rules per access group.

   a. In the **Category** drop-down box, select an **attribute** to filter assets or targets.

   b. In the **Operator** drop-down box, select an operator.

      Possible operators include:

      - **is equal to:** Tenable Vulnerability Management matches the rule to assets or targets based on an exact match of the specified term.

      **Note:** Tenable Vulnerability Management interprets the operator as 'equals' for rules that specify a single IPv4 address, but interprets the operator as 'contains' for rules that specify an IPv4 range or CIDR range.

      - **contains:** Tenable Vulnerability Management matches the rule to assets or targets based on a partial match of the specified term.

      - **starts with:** Tenable Vulnerability Management matches the rule to assets or targets that start with the specified term.

      - **ends with:** Tenable Vulnerability Management matches the rule to assets or targets that end with the specified term.

   c. In the text box, type a valid value for the selected category.
**Tip:** You can enter multiple values separated by commas. For **IPV4 Address**, you can use CIDR notation (e.g., 192.168.0.0/24), a range (e.g., 192.168.0.1-192.168.0.255), or a comma-separated list (e.g., 192.168.0.0, 192.168.0.1).

d. (Optional) To add another rule, click the **+ Add** button.

**Note:** If you configure multiple rules for an access group, the access group includes assets or targets that match any of the rules. For example, if you configure two rules -- one that matches on the **Network Name** attribute and one that matches on **IPV4 Address**, the access group includes any assets in the specified network, plus any asset with the specified IPv4 address, regardless of whether that asset belongs to the specified network.

9. In the **Criteria** section, specify the criteria you want Tenable Vulnerability Management to match assets or targets to the access group:

<table>
<thead>
<tr>
<th>Option</th>
<th>Action</th>
</tr>
</thead>
</table>
| Tags   | (Manage Assets groups only) To specify tags criteria for the access group:  
  a. Click the **Tags** option. 
    
    The **Search** box appears. 
  b. In the **Search** box, click anywhere. 
    
    A list of your organization's **tags** appears. 
  c. Click a tag. 
    
    Tenable Vulnerability Management adds a label representing the tag to the **Search** box. 
  d. Do either of the following: 
    
    - To add another tag, repeat these steps. 
    - To remove a tag, roll over a tag in the box, then click the **X** button next to the label. |

**Note:** Use this option if you want to match assets to the access group using tags as the only criteria. To match assets on tags and on additional asset
attributes, use the Rules option, then specify one or more tags as rules in addition to other rules.

**Rules**

Access group rules specify the conditions Tenable Vulnerability Management evaluates when determining whether to include assets or targets in the access group.

**Note:** You can add up to 1,000 rules per access group.

To specify rules criteria for the access group:

a. Click the Rules option.

b. In the Category drop-down box, select an attribute to filter assets or targets.

**Note:** You can create a rule based on an existing tag. For more information, see Tags.

c. In the Operator drop-down box, select an operator.

Possible operators include:

- **is equal to:** Tenable Vulnerability Management matches the rule to assets or targets based on an exact match of the specified term.

**Note:** Tenable Vulnerability Management interprets the operator as 'equals' for rules that specify a single IPv4 address, but interprets the operator as 'contains' for rules that specify an IPv4 range or CIDR range.

- **contains:** Tenable Vulnerability Management matches the rule to assets or targets based on a partial match of the specified term.

- **starts with:** Tenable Vulnerability Management matches the rule to assets or targets that start with the specified term.

- **ends with:** Tenable Vulnerability Management matches the rule to assets or targets that end with the specified term.
d. In the text box, type a valid value for the selected category.

Tip: You can enter multiple values separated by commas. For IPV4 Address, you can use CIDR notation (e.g., 192.168.0.0/24), a range (e.g., 192.168.0.1-192.168.0.255), or a comma-separated list (e.g., 192.168.0.0, 192.168.0.1).

e. (Optional) To add another rule, click the Add button.

Note: If you configure multiple rules for an access group, the access group includes assets or targets that match any of the rules. For example, if you configure two rules -- one that matches on the Network Name attribute and one that matches on IPv4 Address, the access group includes any assets in the specified network, plus any asset with the specified IPv4 address, regardless of whether that asset belongs to the specified network.

Note: In the Users & Groups section, you can view the permissions assigned to user groups for the access group. By default, Tenable Vulnerability Management assigns No Access permissions to the All Users user group for any new access group. You can modify these permissions in the All Users group, or you can retain the default permissions and assign higher levels of permissions for the access group in additional user groups. For more information, see Edit a User Group.

10. In the Users & Groups section, configure user permissions for the access group.

11. Click Save.

Tenable Vulnerability Management creates the access group. The Access Groups page appears.

Note: When you create or edit an access group, Tenable Vulnerability Management may take some time to assign assets to the access group, depending on the system load, the number of matching assets, and the number of vulnerabilities.

You can view the status of this assignment process in the Status column of the access groups table on the Access Groups page.

What to do next:

- In a user group, assign permissions for this access group.
Configure User Permissions for an Access Group

Tenable is retiring access groups. Moving forward, Tenable recommends that you use permissions to manage user and group access to resources on your Tenable Vulnerability Management instance and that you convert your existing access groups into permission configurations. For more information, see Transition to Permission Configurations.

**Required User Role:** Administrator

You can configure access group permissions for individual users or a user group. If you configure access group permissions for a group, you assign all users in that group the same permissions. For more information, see User Groups.

You can assign the following access group permissions to a user or user group:

- **No Access** — (All Users user group only) No users (except for users or groups you specifically assign permissions) can scan the assets or targets specified in the access group. Also, no users can view related individual or aggregated scan results for the specified assets or targets.

- **Can View** — The user’s view in aggregated scan results (workbenches/dashboards) includes data from scans of the assets or targets specified in the access group. If you assign this permission to the All Users group for the access group, all users can view aggregated scan results for the assets or targets in the access group.

- **Can Scan** — Users can scan assets or targets specified in the access group and view individual scan results for the assets or targets. If you do not have this permission, Tenable Vulnerability Management does not prevent you from configuring a scan using assets or targets specified in the access group; however, the scanner does not scan the assets or targets. If you assign this permission to the All Users group for the access group, all users can scan the assets or targets in the access group and view the related individual scan results.

User permissions in an access group are cumulative, rather than hierarchical. To allow a user to scan an asset or target and view results for that asset or target in aggregated results, you must set the user’s permissions in the access group to both Can View and Can Scan.

**Tip:** To run scans auditing cloud infrastructure, configure a Scan Target access group that includes the target 127.0.0.1, and set user permissions to Can Scan.
To configure user permissions for an access group:

1. **Create** or **edit** an access group.

2. In the **Users & Groups** section, do any of the following:
   - **Edit permissions for the All Users user group.**

     The default values for the **All Users** user group depends on the access group:

     - For the **All Assets** access group, Tenable Vulnerability Management assigns **Can View** and **Can Scan** permissions to the **All Users** group by default. Tenable recommends you restrict these permissions during initial configuration.
     
     - For all other access groups, Tenable Vulnerability Management assigns **No Access** permissions to the **All Users** group by default. For these access groups, set permissions for the **All Users** group as follows:
       
       a. Next to the permission drop-down for the **All Users** group, click the **button.
       
       b. Click **Can View**.
       
       c. Next to the permission drop-down, click the ** button again.
       
       d. Click **Can Scan**.
       
       e. Click **Save**.

       Tenable Vulnerability Management allows any user to view or scan the assets or targets in the group.

   - **Add a user to the access group.**

     a. In the search box, type the name of a user or group.

     As you type, a filtered list of users and groups appears.

     b. Select a user or group from the search results.

     Tenable Vulnerability Management adds the user to the access group with the default **Can View** permissions and adds the related label to the user listing.

     c. (Optional) Add **Can Scan** permissions for the user.
i. Next to the permission drop-down for the user or group, click the 
button.

ii. Click Can Scan.

Tenable Vulnerability Management adds a Can Scan label to the user listing.

d. Click Save.

Tenable Vulnerability Management adds the user to the access group.

• Add permissions for an existing user.

a. Locate the user or group you want to edit.

b. Next to the permission drop-down for the user or group, click the 
button.

c. Click Can View or Can Scan as appropriate.

Tenable Vulnerability Management adds a label representing the new permission to the user listing.

d. Click Save.

Tenable Vulnerability Management saves your changes to the access group.

• Remove permissions from an existing user.

a. Locate the user or group you want to edit.

b. In the label representing the permission you want to remove, click the 
button.

Tenable Vulnerability Management removes the permission label from the user listing.

If you remove the last permission for the All Users group, Tenable Vulnerability Management sets the group permissions to No Access.

If you remove the last permission for an individual user or group, Tenable Vulnerability Management prompts you to remove the user from the access group.

• Remove a user from the access group.
a. Click the \( \times \) button next to the user or user group you want to delete.

The user or group disappears from the Users & Groups list.

b. Click Save.

Tenable Vulnerability Management saves your changes to the access group.
Edit an Access Group

Tenable is retiring access groups. Moving forward, Tenable recommends that you use permissions to manage user and group access to resources on your Tenable Vulnerability Management instance and that you convert your existing access groups into permission configurations. For more information, see Transition to Permission Configurations.

**Required User Role:** Administrator

You can edit rules for an existing access group, as well as add or remove users and user groups assigned to the access group.

**Note:** You cannot edit the name or rules criteria for the system-generated All Assets access group.

You can edit the name and criteria for a user-defined access group. You cannot edit the name or criteria for the system-generated All Assets access group.

**Note:** In the Users & Groups section, you can view but not edit the user groups in which you've configured permissions for the access group. To change these permissions, edit each user group.

To edit an access group:

1. In the upper-left corner, click the button.

   The left navigation plane appears.

2. In the left navigation plane, click **Settings**.

   The **Settings** page appears.

3. Click the **Access Control** tile.

   The **Access Control** page appears. On this page, you can control user and group access to resources in your Tenable Web App Scanning account.

4. Click the **Access Groups** tile tab.

   The **Access Groups** pagetab appears. This pagetab contains a table that lists the access groups to which you have access.
5. In the access groups table, click the access group you want to edit.

The **Edit Access Group** page appears.

6. In the **General** section, in the **Name** box, type a new name for the access group.

7. In the **Type** section, edit the access group type.
   
   a. Select the **access group type** to which you want to change.

   Tenable Vulnerability Management prompts you to confirm the action.

   b. Click **Confirm**.

   Tenable Vulnerability Management clears any previously added rule filters criteria.

8. In the **Rules** section, edit the access group rules.

   Access group rules specify the conditions Tenable Vulnerability Management evaluates when determining whether to include assets or targets in the access group.

   - To edit an existing rule, modify the category, operator, and/or value as needed.
   - To delete an existing rule, click the **X** button next to the rule.
   - To add a new rule, click **Add** and create a new rule.

9. In the **Criteria** section, specify the criteria you want Tenable Vulnerability Management to use when matching assets or targets to the access group:

<table>
<thead>
<tr>
<th>Option</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tags</td>
<td>(Manage Assets groups only) To specify tags criteria for the access group:</td>
</tr>
</tbody>
</table>
   
   a. Click the **Tags** option.

   The **Search** box appears.

   b. In the **Search** box, click anywhere.

   A list of your organization's tags appears.

   c. Click a tag.
Tenable Vulnerability Management adds a label representing the tag to the Search box.

d. Do either of the following:
   - To add another tag, repeat these steps.
   - To remove a tag, roll over a tag in the box, then click the × button next to the label.

Note: Use this option if you want to match assets to the access group using tags as the only criteria. To match assets on tags and on additional asset attributes, use the Rules option, then specify one or more tags as rules in addition to other rules.

Rules

Access group rules specify the conditions Tenable Vulnerability Management evaluates when determining whether to include assets or targets in the access group.

Note: You can add up to 1,000 rules per access group.

To specify rules criteria for the access group:

a. Click the Rules option.

b. In the Category drop-down box, select an attribute to filter assets or targets.

Note: You can create a rule based on an existing tag. For more information, see Tags.

c. In the Operator drop-down box, select an operator.

Possible operators include:

- *is equal to*: Tenable Vulnerability Management matches the rule to assets or targets based on an exact match of the specified term.
Note: Tenable Vulnerability Management interprets the operator as 'equals' for rules that specify a single IPv4 address, but interprets the operator as 'contains' for rules that specify an IPv4 range or CIDR range.

- **contains**: Tenable Vulnerability Management matches the rule to assets or targets based on a partial match of the specified term.

- **starts with**: Tenable Vulnerability Management matches the rule to assets or targets that start with the specified term.

- **ends with**: Tenable Vulnerability Management matches the rule to assets or targets that end with the specified term.

d. In the text box, type a valid value for the selected category.

Tip: You can enter multiple values separated by commas. For **IPv4 Address**, you can use CIDR notation (e.g., 192.168.0.0/24), a range (e.g., 192.168.0.1-192.168.0.255), or a comma-separated list (e.g., 192.168.0.0, 192.168.0.1).

e. (Optional) To add another rule, click the **Add** button.

Note: If you configure multiple rules for an access group, the access group includes assets or targets that match any of the rules. For example, if you configure two rules — one that matches on the **Network Name** attribute and one that matches on **IPv4 Address**, the access group includes any assets in the specified network, plus any asset with the specified IPv4 address, regardless of whether that asset belongs to the specified network.

10. In the **Users & Groups** section, configure user permissions for the access group.

11. Click **Save**.

Tenable Vulnerability Management updates the access group with your changes. The **Access Groups** page appears.

Note: When you create or edit an access group, Tenable Vulnerability Management may take some time to assign assets to the access group, depending on the system load, the number of matching assets, and the number of vulnerabilities.
You can view the status of this assignment process in the **Status** column of the access groups table on the **Access Groups** page.

What to do next:

- (Optional) **Modify** the access group permissions in a user group.
Tenable is retiring access groups. Moving forward, Tenable recommends that you use permissions to manage user and group access to resources on your Tenable Vulnerability Management instance and that you convert your existing access groups into permission configurations. For more information, see Transition to Permission Configurations.

**Required User Role:** Administrator

If an asset does not match any access group rules criteria, Tenable Vulnerability Management does not assign the asset to any access group. These unassigned assets are only visible to user groups assigned permissions in the **All Assets** group. If your organization limits membership in the **All Assets** group, users who are not members of users in user groups without permissions in the **All Assets** group are unable to see these unassigned assets, but this limited visibility may not be immediately obvious to them. If you are a member of a user group with permissions in the **All Assets** group, you can use a filter to identify these unassigned assets.

To view assets that are not assigned to an access group:

1. In the upper-left corner, click the button.

   The left navigation plane appears.

2. In the left navigation plane, in the **Asset View** section, click **Assets**.

   The **Assets** page appears.

3. Create a filter with the following settings:
   - **Category:** Belongs to Access Group
   - **Operator:** is equal to
   - **Value:** false

4. Click **Apply**.

   The assets table updates to display all assets that are not assigned to an access group.
View Your Assigned Access Groups

Tenable is retiring access groups. Moving forward, Tenable recommends that you use permissions to manage user and group access to resources on your Tenable Vulnerability Management instance and that you convert your existing access groups into permission configurations. For more information, see Transition to Permission Configurations.

**Required Tenable Vulnerability Management User Role:** Basic, VM Scan Operator, VM Standard, VM Scan Manager, or Administrator

As an administrator, you can view the rules and assigned users and user groups for any access group. You can also edit access group parameters.

As a user in any other role, you can view your assigned access groups. This view includes the rules associated with each access group, but excludes the other users or user groups assigned to the access group. You cannot edit any access group settings.

**Note:** The Access Group tile appears only if you have one or more assigned access groups or if you are an administrator and users on your Tenable Vulnerability Management are assigned to access groups. Once you convert all your access groups to permission configurations, the Access Group tile will no longer appear on your account.

To view your assigned access groups:

1. In the upper-left corner, click the ☐ button.
   
   The left navigation plane appears.

2. In the left navigation plane, click Settings.
   
   The Settings page appears.

3. Click the Access Groups tile.
   
   The Access Groups pagetab appears. This pagetab contains a table that lists the access groups to which you have access.

4. The Access Groups page contains a table that includes the following information:
• **Name** — The access group name.

• **Owner** — The access group owner.

• **Permission Type** — The access group type.

• **Last Modified** — The date on which a user in your organization last changed the access group configuration.

• **Last Modified By** — The user in your organization who last changed the access group configuration.

• **Status** — The status of the Tenable Vulnerability Management process matching assets to the access group. Possible values are **Processing** or **Completed**. To view the percentage complete for an ongoing process, roll over the Processing status.

5. (Optional) Click an access group to view more details.

The **Edit Access Group** page appears.

For administrators, this page contains both rules and assigned users and user groups, and you can **edit** all access group parameters.

For users in any other role, this page contains rules only, and you cannot edit the rules.
Delete an Access Group

Tenable is retiring access groups. Moving forward, Tenable recommends that you use permissions to manage user and group access to resources on your Tenable Vulnerability Management instance and that you convert your existing access groups into permission configurations. For more information, see Transition to Permission Configurations.

Required User Role: Administrator

Note: You cannot delete the system-generated All Assets group.

To delete one or more access groups:

1. In the upper-left corner, click the button.

   The left navigation plane appears.

2. In the left navigation plane, click Settings.

   The Settings page appears.

3. Click the Access Groups tile tab.

   The Access Groups page tab appears. This pagetab contains a table that lists the access groups to which you have access.

4. Select the access groups you want to delete:

   • Select a single access group:
     a. In the access groups table, roll over the access group you want to delete.

        The action buttons appear in the row.

     b. Click the button.

        A confirmation window appears.

   • Select multiple access groups:
a. In the access groups table, select the check boxes next to the access groups you want to delete.

   The action bar appears at the bottom of the pagetop of the table.

b. In the action bar, click the button.

   A confirmation window appears.

5. In the confirmation window, click the Delete button.

   Tenable Vulnerability Management deletes the selected access group or groups and updates the access group table.
Access Group Rule Filters

Tenable is retiring access groups. Moving forward, Tenable recommends that you use permissions to manage user and group access to resources on your Tenable Vulnerability Management instance and that you convert your existing access groups into permission configurations. For more information, see Transition to Permission Configurations.

You can use the filters described in the following sections to create rules for access groups. For more information, see:

- Tenable-provided Filters
- Guidelines for Tenable-provided Filters
- Tag Filters

Tenable-provided Filters

The last two columns in the following table indicate whether you can use the filter with the Manage Assets or Scan Targets group type.

<table>
<thead>
<tr>
<th>Filter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AWS Account ID</td>
<td>The canonical user identifier for the Amazon Web Services (AWS) account</td>
</tr>
<tr>
<td></td>
<td>associated with the asset. For more information, see &quot;AWS Account Identifiers&quot; in the AWS documentation.</td>
</tr>
<tr>
<td></td>
<td>yes</td>
</tr>
<tr>
<td></td>
<td>no</td>
</tr>
<tr>
<td>AWS Availability Zone</td>
<td>The name of the Availability Zone where AWS hosts the virtual machine instance. For more information, see &quot;Regions and Availability Zones&quot; in the AWS documentation.</td>
</tr>
<tr>
<td></td>
<td>no</td>
</tr>
<tr>
<td>AWS EC2 AMI ID</td>
<td>The unique identifier of the Linux AMI image in Amazon Elastic Compute Cloud (Amazon EC2). For more information, see yes</td>
</tr>
<tr>
<td>Feature</td>
<td>Description</td>
</tr>
<tr>
<td>---------------------------------</td>
<td>-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td><strong>AWS EC2 Instance ID</strong></td>
<td>The unique identifier of the Linux instance in Amazon EC2. For more information, see the Amazon Elastic Compute Cloud Documentation.</td>
</tr>
<tr>
<td><strong>AWS EC2 Name</strong></td>
<td>The name of the virtual machine instance in Amazon EC2.</td>
</tr>
<tr>
<td><strong>AWS EC2 Product Code</strong></td>
<td>The product code associated with the AMI used to launch the virtual machine instance in Amazon EC2.</td>
</tr>
<tr>
<td><strong>AWS Region</strong></td>
<td>The region where AWS hosts the virtual machine instance, for example, 'us-east-1'. For more information, see &quot;Regions and Availability Zones&quot; in the AWS documentation.</td>
</tr>
<tr>
<td><strong>AWS Security Group</strong></td>
<td>The security group to which you have assigned the virtual machine instance in Amazon EC2. For more information, see Security Groups in the Amazon Virtual Private Cloud User Guide.</td>
</tr>
<tr>
<td><strong>AWS Subnet ID</strong></td>
<td>The unique identifier of the AWS subnet where the virtual machine instance was running at the time of the scan.</td>
</tr>
<tr>
<td><strong>AWS VPC ID</strong></td>
<td>The unique identifier of the public cloud that hosts the AWS virtual machine instance. For more information, see the Amazon Virtual Private Cloud User Guide.</td>
</tr>
<tr>
<td><strong>Azure Resource ID</strong></td>
<td>The unique identifier of the resource in the Azure Resource Manager. For more</td>
</tr>
<tr>
<td>Feature</td>
<td>Description</td>
</tr>
<tr>
<td>-------------------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Azure VM ID</td>
<td>The unique identifier of the Microsoft Azure virtual machine instance.</td>
</tr>
<tr>
<td>FQDN/Hostname</td>
<td>One of the following:</td>
</tr>
<tr>
<td></td>
<td>- The fully-qualified domain name of the asset.</td>
</tr>
<tr>
<td></td>
<td>- The hostname of the asset.</td>
</tr>
<tr>
<td>Google Cloud Instance ID</td>
<td>The unique identifier of the virtual machine instance in Google Cloud</td>
</tr>
<tr>
<td></td>
<td>Platform (GCP).</td>
</tr>
<tr>
<td>Google Cloud Project ID</td>
<td>The customized name of the project to which the virtual machine instance</td>
</tr>
<tr>
<td></td>
<td>belongs in GCP.</td>
</tr>
<tr>
<td>Google Cloud Zone</td>
<td>The zone where the virtual machine instance runs in GCP.</td>
</tr>
<tr>
<td></td>
<td>For more information, see &quot;Regions and Zones&quot; in the GCP documentation.</td>
</tr>
<tr>
<td>IPv4 Address</td>
<td>An IPv4 address for the asset.</td>
</tr>
<tr>
<td></td>
<td>For this filter, you can use CIDR notation (e.g., 192.168.0.0/24), a range</td>
</tr>
<tr>
<td></td>
<td>(e.g., 192.168.0.1-192.168.0.255), or a comma-separated list (e.g., 192.168.0.0, 192.168.0.1).</td>
</tr>
<tr>
<td>IPv6 Address</td>
<td>An IPv6 address for the asset.</td>
</tr>
<tr>
<td></td>
<td>For this filter, you can use CIDR notation (e.g., 192.168.0.0/24), a range</td>
</tr>
<tr>
<td></td>
<td>(e.g., 192.168.0.1-192.168.0.255), or a comma-separated list (e.g., 192.168.0.0, 192.168.0.1).</td>
</tr>
<tr>
<td><strong>MAC Address</strong></td>
<td>The MAC address of the asset.</td>
</tr>
<tr>
<td><strong>NetBIOS Name</strong></td>
<td>The NetBIOS name for the asset.</td>
</tr>
<tr>
<td><strong>Network Name</strong></td>
<td>The name of the network to which the asset belongs.</td>
</tr>
<tr>
<td><strong>Operating System</strong></td>
<td>The operating system installed on the asset.</td>
</tr>
<tr>
<td><strong>Qualys Asset ID</strong></td>
<td>The Asset ID of the asset in Qualys. For more information, see the Qualys documentation.</td>
</tr>
<tr>
<td><strong>Qualys Host ID</strong></td>
<td>The Host ID of the asset in Qualys. For more information, see the Qualys documentation.</td>
</tr>
<tr>
<td><strong>ServiceNow Sys ID</strong></td>
<td>The unique record identifier of the asset in ServiceNow. For more information, see the ServiceNow documentation.</td>
</tr>
</tbody>
</table>

**Guidelines for Tenable-provided Filters**

- When configuring rules for **Scan Targets** access groups, the asset attribute type must match the **target format** used in the related scan. For example, if a **Scan Targets** access group rule filters on the **FQDN/Hostname** attribute, the related scan succeeds if the scan target is specified in FQDN or hostname format, but fails if the scan target is specified in IPv4 address format.

**Tag Filters**

In Tenable Vulnerability Management, tags allow you to add descriptive metadata to assets that helps you group assets by business context. For more information, see [Tags](#).

You can use the tags you create to assign assets to **Manage Assets** access groups.

To add a tag filter to a rule:
1. In the **Category** drop-down box, select **Tags**.
2. In the **Operator** drop-down box, select **contains**.
3. In the text box, type the tag category and value you want to search for in the following format:
   
   **Category Name**: **Value Name**

4. Continue creating rules and/or save the access group as described in [Create an Access Group](#).

**Note:** Tag categories with 100,000 or more associated values cannot be applied as a rule to access groups.
### Scan Permissions Migration

*System target group* permissions that controlled whether users can scan specified targets have been migrated to [access groups](#).

**Note:** Tenable plans to deprecate access groups in the near future. Currently, you can still create and manage access groups. However, Tenable recommends that you instead use [permissions](#) to manage user and group access to resources on your Tenable Vulnerability Management instance.

This migration affects your existing Tenable Vulnerability Management configuration as follows:

<table>
<thead>
<tr>
<th>Component</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Existing access group</td>
<td>Tenable Vulnerability Management:</td>
</tr>
<tr>
<td></td>
<td>• Updates any existing access group to an access group of the <a href="#">Manage Assets</a> type.</td>
</tr>
<tr>
<td></td>
<td>• Replaces the <em>All Users</em> toggle with a default <em>All Users</em> group.</td>
</tr>
<tr>
<td></td>
<td>• Assigns <em>Can View</em> permissions to any existing users or user groups that currently have view access.</td>
</tr>
<tr>
<td>Existing system target groups</td>
<td>For each existing system target group, Tenable Vulnerability Management:</td>
</tr>
<tr>
<td></td>
<td>• Creates a new access group with a type of <em>Scan Targets</em>. This access group specifies the same scan targets as the existing system target group. Tenable Vulnerability Management lists migration as the owner of the migrated access groups.</td>
</tr>
<tr>
<td></td>
<td>• Moves any user with <em>Can Scan</em> permissions in the system target group to the new access group, and assigns the user <em>Can Scan</em> permissions for that access group. To ensure users can view results for the targets, configure <em>Can View</em> permissions for users in the access group.</td>
</tr>
</tbody>
</table>

**Note:** This migration does not delete existing system target groups. The migration removes only the *Can Scan* permissions from the system target groups.
**Note:** If, at the time of migration, an existing target group includes scan permissions, a **Scan** label may appear for the group in the **Permissions** column of the target groups table in the new Tenable Vulnerability Management user interface. This label indicates historical scan permissions only; access groups specify the current scan permissions.

| Existing scan configurations, dashboard filters, and saved searches | Existing scan configurations retain the system target group as a target setting. Existing dashboard filters and saved searches retain the system target group as a filter setting. If you have **Can Use** permissions for a system target group, you can continue to use the system target group to specify a group of targets in a scan configuration and to use the system target group in filters for dashboards and searches. However, to specify which users can view scan results for the targets, configure **Can View** permissions in the appropriate access group. |
Activity Logs

Required User Role: Administrator

On the Activity Logs page, you can view a list of events for all users in your organization's Tenable Web App Scanning account. You can see when each activity took place, the action, the actor, and other relevant information about the activity.

Important: Tenable currently retains activity log data for 3 years, after which it is deleted from the Tenable database.

To view your activity logs:

1. In the upper-left corner, click the button.
   The left navigation plane appears.

2. In the left navigation plane, click Settings.
   The Settings page appears.

3. Click the Activity Logs tile.
   The Activity Logs page appears. This page displays a list of activities associated with your organization's Tenable Web App Scanning account.

   ![Activity Logs](image)

4. (Optional) Refine the table data. For more information, see Tenable Web App Scanning Tables.

5. (Optional) Apply a filter to the table:
<table>
<thead>
<tr>
<th>Filter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Actor ID</td>
<td>The ID of the account performing the action.</td>
</tr>
<tr>
<td>Target ID</td>
<td>The ID of the account affected by the action, if any.</td>
</tr>
<tr>
<td>Action</td>
<td>The type of action.</td>
</tr>
<tr>
<td>Date</td>
<td>The date the action was performed.</td>
</tr>
</tbody>
</table>

6. (Optional) To refresh the activity logs table, in the upper-right corner, click the Refresh button.

7. (Optional) Filter the table by a specific time period:
   - Last 7 Days
   - Last 14 Days
   - Last 30 Days
   - Last 90 Days
   - All

What to do next:
   - (Optional) Export one or more activity logs.
Export Activity Logs

**Required User Role:** Administrator

On the Activity Logs page, you can export one or more activity logs in CSV or JSON format.

To export your activity logs:

1. In the upper-left corner, click the button.
   
   The left navigation plane appears.

2. In the left navigation plane, click Settings.
   
   The Settings page appears.

3. Click the Activity Logs tile.
   
   The Activity Logs page appears. This page displays a list of activities associated with your organization's Tenable Web App Scanning account.

4. (Optional) Refine the table data. For more information, see Filter a Table.

5. Select the activity logs that you want to export:

<table>
<thead>
<tr>
<th>Export Scope</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Selected activity logs</td>
<td>To export selected activity logs:</td>
</tr>
<tr>
<td></td>
<td>a. In the activity logs table, select the check box for each activity log you want to export.</td>
</tr>
<tr>
<td></td>
<td>The action bar appears at the top of the table.</td>
</tr>
<tr>
<td></td>
<td>b. In the action bar, click Export.</td>
</tr>
</tbody>
</table>

   **Note:** The Export link is available for up to 200 selections. If you want to export more than 200 activity logs, select all the activity logs in the list and then click Export.
To export a single activity log:

a. In the activity logs table, right-click the row for the activity log you want to export.

The action options appear next to your cursor.

-or-

b. In the activity logs table, in the Actions column, click the button in the row for the activity log you want to export.

The action buttons appear in the row.

6. Click Export.

The Export plane appears. This plane contains:

- A text box to configure the export file name.
- A list of available export formats.
- A table of configuration options for fields to include in the exported file.

Note: By default, all fields are selected.

- A text box to set the number of days before the export expires.
- A toggle to configure the export schedule.
- A toggle to configure the email notification.

6. In the Name box, type a name for the export file.

7. Click the export format you want to use:

<table>
<thead>
<tr>
<th>Format</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSV</td>
<td>A CSV text file that contains a list of activity logs.</td>
</tr>
</tbody>
</table>

Note: If your .csv export file includes a cell that begins with any of the following characters (=, +, -, @), Tenable Web App Scanning automatically inputs a single
| JSON | A JSON file that contains a nested list of activity logs. Empty fields are not included in the JSON file. |


9. In the **Expiration** box, type the number of days before the export file expires.

   **Note:** Tenable Web App Scanning allows you to set a maximum of 30 calendar days for export expiration.

10. (Optional) To set a schedule for your export to repeat:

    - Click the **Schedule** toggle.
    
    The **Schedule** section appears.

    - In the **Start Date and Time** section, select the date and time on which you want the export schedule to start.

    - In the **Time Zone** drop-down box, select the time zone to which you want the schedule to adhere.

    - In the **Repeat** drop-down box, select how often you want the export to repeat.

    - In the **Repeat Ends** drop-down, select the date on which you want the schedule to end.

      **Note:** If you select never, the schedule repeats until you modify or delete the export schedule.

11. (Optional) To send email notifications on completion of the export:

    **Note:** You can enable email notifications with or without scheduling exports.

    - Click the **Email Notification** toggle.
    
    The **Email Notification** section appears.
• In the **Add Recipients** box, type the email addresses to which you want to send the export notification.

• (Required) In the **Password** box, type a password for the export file. You must share this password with the recipients to allow them to download the file.

**Note:** Tenable Web App Scanning sends an email to the recipients and from the link in the email, the recipients can download the file by providing the correct password.

12. Click **Export**.

   Tenable Web App Scanning begins processing the export. Depending on the size of the exported data, Tenable Web App Scanning may take several minutes to process the export.

   When processing completes, Tenable Web App Scanning downloads the export file to your computer. Depending on your browser settings, your browser may notify you that the download is complete.

13. Access the export file via your browser’s downloads directory. If you close the export plane before the download finishes, then you can access your export file from the **Exports** page.
Tags

You can add your own business context to assets by tagging them with descriptive metadata in Tenable Web App Scanning. An asset tag is primarily composed of a Category:Value pair. For example, if you want to group your assets by location, create a Location category with the value Headquarters. You can then manually apply the tag to individual assets, or you can add rules to the tag that enable Tenable Web App Scanning to apply the tag automatically to matching assets.

For more information about tag structure, see Tag Format and Application.

**Note:** If you want to create tags without individual categories, Tenable recommends that you add the generic category Category, which you can use for all your tags.

Adding your own business context to assets using tags allows you to filter analysis views by tag.

To view your tags:

1. In the upper-left corner, click the ☰ button.

   The left navigation plane appears.

2. In the left navigation plane, click Settings.

   The Settings page appears.

3. Click the Tagging tile.

   The Tags page appears. On this page, you can view your asset tag categories and values.

4. Do one of the following:
To view the categories to which your all the tags on your Tenable Web App Scanning instance are assigned:

a. View your tag categories and relevant data about them in the Categories table:

<table>
<thead>
<tr>
<th>Column</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name</td>
<td>The name of the tag.</td>
</tr>
<tr>
<td>Created By</td>
<td>The username of the user who created the tag.</td>
</tr>
<tr>
<td>Last Used By</td>
<td>The username of the user who most recently created or edited the tag value or category.</td>
</tr>
<tr>
<td>Created</td>
<td>The date on which the tag was created.</td>
</tr>
<tr>
<td># of Values</td>
<td>The number of tag values associated with the tag category.</td>
</tr>
<tr>
<td>Actions</td>
<td>The actions you can perform with the tag.</td>
</tr>
</tbody>
</table>

To view all the tags on your Tenable Web App Scanning instance:

a. Click the Values tab.

The Values page appears, containing a table of all the tags on your Tenable Web App Scanning instance.

b. View your tags and relevant data about them in the Values table:

<table>
<thead>
<tr>
<th>Column</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name</td>
<td>The name of the tag.</td>
</tr>
<tr>
<td>Created By</td>
<td>The username of the user who created the tag.</td>
</tr>
<tr>
<td>Updated By</td>
<td>The username of the user who last updated the tag category or value.</td>
</tr>
<tr>
<td>Created</td>
<td>The date on which the tag was created.</td>
</tr>
<tr>
<td>Applied</td>
<td>Indicates whether the tag is applied Manually or Automatically.</td>
</tr>
<tr>
<td>Last Processed</td>
<td>The date and time when Tenable Web App Scanning last processed the scan and applied it to all relevant assets.</td>
</tr>
<tr>
<td>---------------</td>
<td>----------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Assessment</td>
<td>Indicates whether Tenable Vulnerability Management has finished identifying and apply the tag to all matching assets.</td>
</tr>
<tr>
<td>Actions</td>
<td>The actions you can perform with the tag.</td>
</tr>
</tbody>
</table>
Examples: Asset Tagging

See the following configuration examples to tag assets for common use cases. For general information about tags, see Tags.

- Example: Automatically Tag by Installed Software
- Example: Manually Tag by Priority
- Example: Update ACR Values on Tagged Assets

Example: Automatically Tag by Installed Software

Your company manages assets that run on two software types: Oracle and Wireshark. Your company assigns asset ownership to employees based on the software type. Employees must resolve any vulnerabilities identified on assets with the software type they manage.

As an administrator, you can create an automatic tag for each software type. Then, employees can search for assets by the Installed Software tag and filter Tenable Web App Scanning assets by the software type they manage.

Note: For more precise results, set the tag value to the appropriate NVD Common Platform Enumeration (CPE), for example, cpe:/a:microsoft:office.

To automatically tag assets by installed software:
1. **Create and automatically apply a tag** for Oracle assets using the following settings:

<table>
<thead>
<tr>
<th>Option</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Category</td>
<td>Installed Software</td>
</tr>
<tr>
<td>Value</td>
<td>Oracle</td>
</tr>
<tr>
<td>Rules</td>
<td>Enabled, with the following rule specified:</td>
</tr>
<tr>
<td></td>
<td>• Match All</td>
</tr>
<tr>
<td></td>
<td>• <strong>Category</strong>: Installed Software</td>
</tr>
<tr>
<td></td>
<td>• <strong>Operator</strong>: is equal to</td>
</tr>
<tr>
<td></td>
<td>• <strong>Value</strong>: Oracle</td>
</tr>
</tbody>
</table>

2. **Create and automatically apply a tag** for Wireshark assets using the following settings:

<table>
<thead>
<tr>
<th>Option</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Category</td>
<td>Installed Software</td>
</tr>
<tr>
<td>Value</td>
<td>Wireshark</td>
</tr>
<tr>
<td>Rules</td>
<td>Enabled, with the following rule specified:</td>
</tr>
<tr>
<td></td>
<td>• Match All</td>
</tr>
<tr>
<td></td>
<td>• <strong>Category</strong>: Installed Software</td>
</tr>
<tr>
<td></td>
<td>• <strong>Operator</strong>: is equal to</td>
</tr>
<tr>
<td></td>
<td>• <strong>Value</strong>: Wireshark</td>
</tr>
</tbody>
</table>

3. Instruct employees to use the new tags to filter assets in the assets table or to search for assets from the tags table.

**Example: Manually Tag by Priority**

Your company owns sensitive assets and you want employees to prioritize addressing vulnerabilities on these assets first, regardless of the asset's other attributes (for example, the asset's VPR).
To make sure employees view and mediate these sensitive assets first, you can create a **High Priority** tag and manually add it to assets that you want employees to prioritize. Then, employees can search for assets using the **High Priority** tag to filter by the highest priority assets they manage.

To manually tag assets by priority:

1. **Create a tag** for your highest priority assets using the following settings:

<table>
<thead>
<tr>
<th>Option</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Category</td>
<td><strong>Priority</strong></td>
</tr>
<tr>
<td>Value</td>
<td><strong>High Priority</strong></td>
</tr>
<tr>
<td>Value Description</td>
<td>A custom description about the urgency of remediating the vulnerabilities on assets with this tag.</td>
</tr>
</tbody>
</table>

2. **Apply the tag manually** to your highest priority assets.

3. Instruct employees to use the new tag to [filter assets in the assets table](#) or to [search for assets from the tags table](#).

**Example: Update ACR Values on Tagged Assets**

Your company uses **Tenable Lumin** to assess your Cyber Exposure. You have groups of assets with common exposure, but the Tenable-assigned ACR values vary within the group of assets.

To customize asset **ACR** values, you can use attribute settings within any tag to automatically update the ACR value for any asset with that tag.

To update the ACR value for all assets with a tag:

1. **Create a tag** and apply it manually or automatically.

2. Configure an **attribute override** for assets with the tag.
   a. Click the **Attribute Override** toggle to enable automatic application of attributes to assets with this tag.

   The criteria boxes appear.
b. In the first box, select an attribute (for example, **Asset Criticality Rating (ACR)**).

c. In the second box, select a value (for example, **9 (Critical)**).

3. **Click Save.**

Tenable Vulnerability Management updates the attribute for all assets with the tag.

**Note:** When you override an asset attribute via tags, Tenable Vulnerability Management may take some time to update the attribute on assets with the tag, depending on the system load and the number of assets.

**Tip:** For information about how Tenable Vulnerability Management prioritizes tag-updated ACR values, see [Asset Criticality Rating (ACR)].

4. Instruct employees to view the updated ACR values in the **assets table.**
Tag Format and Application

An asset tag is primarily composed of a Category:Value pair. For example, if you want to group your assets by location, create a Location category with the value Headquarters.

Note: If you want to create tags without individual categories, Tenable recommends that you add the generic category Category, which you can use for all your tags.

Tag membership is reevaluated:

- When you update or create a tag
- When Tenable Web App Scanning imports data
- Every 12 hours

Manual Tags vs. Automatic Tags

When you create a tag, Tenable Web App Scanning automatically applies it to the assets on your instance that match the tags rules. These automatically applied tags are sometimes called dynamic tags. When you create an automatic tag, Tenable Web App Scanning applies that tag to all your current assets and any new assets added to your organization's account. Tenable Web App Scanning also regularly reviews your assets for changes to their attributes and adds or removes automatic tags accordingly.

Note: When you create or edit an automatic tag, Tenable Web App Scanning may take some time to apply the tag to existing assets, depending on the system load and the number of matching assets.

You can also create a tag without rules and then manually apply the tag to individual assets. Alternatively, you can manually apply an automatic tag to additional assets that may not meet the rules criteria for that tag. These manually applied tags are sometimes called static tags.

Manual tags appear with the ☐ icon, whereas automatic tags appear with the ☑ icon.

See the following examples for clarification:

<table>
<thead>
<tr>
<th>Scenarios</th>
<th>Tag Type</th>
<th>Tag Icon</th>
</tr>
</thead>
<tbody>
<tr>
<td>You create a tag with Location:Headquarters as the</td>
<td>Manual</td>
<td>☐</td>
</tr>
<tr>
<td>Category:Value pair, but you do not add any tag rules. Later, you add the tag to assets located at your headquarters.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>---</td>
<td>---</td>
<td></td>
</tr>
<tr>
<td>You create a tag with Location:Headquarters as the Category:Value pair, and you specify an IP address range in the tag rules. Tenable Web App Scanning then automatically applies the tag to all existing or new assets within that IP address range.</td>
<td>Automatic</td>
<td></td>
</tr>
</tbody>
</table>
Create a Manual or Automatic Tag

**Required Tenable Vulnerability Management User Role:** VM Scan Manager or Administrator

**Note:** When you create a tag from the Tagging page, you can select from a list of generic asset filters to create tag rules. If you want to create a tag based on filters that are specific to certain asset types, Tenable recommends that you create a tag from the Assets page, where you can select additional filters that are specific to each asset type.

If your tags fail to apply, the tag rules may return too many assets for Tenable Web App Scanning to process. For example, a long list of Fully Qualified Domain Names (FQDNs) with wildcards would cover a large number of assets. When this happens, Tenable recommends reducing the number of assets through stricter tag rules. If needed, you can then use an additional tag to join each list.

On the Create Tag page, you can create a manual tag to apply to assets individually. You can also create an automatic tag by creating tag rules that Tenable Web App Scanning uses to identify and tag matching assets.

**Note:** You can create up to 100 tag categories, and each category can have up to 100,000 tags.

To create an automatic tag from the Tags page:

1. In the upper-left corner, click the button.

   The left navigation plane appears.

2. In the left navigation plane, click Settings.

   The Settings page appears.

3. Click the Tagging tile.

   The Tags page appears. On this page, you can view your asset tag categories and values.

   The Categories tab is active.

4. In the upper-right corner of the page, click the Create Tag button.

   The Create Tag page appears.
5. Click the **Category** drop-down box.

6. In the **Add New Category** box, type a category.
   As you type, the list filters for matches.

7. From the drop-down box, select an existing category, or if the category is new, click **Create category name**.
   
   **Note:** You can create a maximum of 100 categories for your Tenable Web App Scanning instance.

8. (Optional) In the **Category Description** box, type a description of the tag category.

9. In the **Value** box, type a name for the tag.
   
   **Note:** Tag names cannot include commas or be more than 50 characters in length.

   **Tip:** Tenable recommends that you provide a tag name that directly corresponds with the tag category. For example, if the category is **Location**, **Headquarters** would be an appropriate value.

10. (Optional) In the **Value Description** box, type a description for the new tag.

11. Do one of the following:

    To save the tag as a manual tag:

    a. Click **Save**.
       
       Tenable Web App Scanning saves the tag to the tags table.

    b. (Optional) Manually **add the tag** to one or more assets.
To save and apply the tag automatically:

a. Create a tag rule.

b. Click Save.

Tenable Web App Scanning creates the tag, evaluates existing assets, and automatically applies the tag to assets that match the tag rules.

**Note:** When you create an automatic tag, Tenable Web App Scanning may take a few minutes to apply the tag and update any Excluded Assets, depending on the system load and the number of assets.
Considerations for Tags with Rules

Automatic Application

Tenable Web App Scanning evaluates assets against tag rules in the following situations:

- When you add a new asset (via scan, connector import, or leveraging the Tenable Web App Scanning API), Tenable Web App Scanning evaluates the asset against your tag rules.

- When you create or update a tag rule, Tenable Web App Scanning evaluates your assets against the tag rule.

  **Note:** When you create or edit a tag rule, Tenable Web App Scanning may take some time to apply the tag to existing assets, depending on the system load and the number of matching assets.

- When you update an existing asset, Tenable Web App Scanning re-evaluates the asset and removes the tag if the asset’s attributes no longer match the tag rules.

Manual Application

If you manually apply a tag that has been configured with rules, Tenable Web App Scanning excludes that asset from any further evaluation against the rules.
Tag Rules

Tag rules allow Tenable Web App Scanning to automatically apply tags you create to the assets on your instance that match the tags rules. These automatically applied tags are called dynamic or automatic tags.

Tag rules are composed of one or more filter-value pairs based on asset attributes. When you create a rule and add it to a tag, Tenable Web App Scanning applies the tag to all assets on your instance that match the tag rule.

**Note:** Tenable Web App Scanning supports a maximum of 1,000 rules per tag. This limit means that you can specify a maximum of 1,000 and or conditions for a single tag value. Additionally, Tenable Web App Scanning supports a maximum of 1,024 values per individual tag rule.

For more information about automatic tags, see Tag Format and Application.

In the Tags section, you can complete the following tasks with tag rules:

- [Create a Tag Rule](#)
- [Edit a Tag Rule](#)
- [Delete A Tag Rule](#)
Create a Tag Rule

**Required Tenable Vulnerability Management User Role:** VM Scan Manager or Administrator

**Required Tenable Vulnerability Management Permission:** Can Edit, Can Use permission for applicable asset tags.

When you create or edit a tag to apply automatically, you must create and apply rules to the tag via tag rules filters. You can create a tag rule in either Basic or Advanced mode.

**Caution:** If you create a tag rule in Basic mode and then switch to Advanced mode, the rules you created appear in the Advanced mode format. However, if you switch from Advanced mode to Basic mode, Tenable Web App Scanning removes all rules from the rules section.

**Note:** When you create a tag from the Tagging page, you can select from a list of generic asset filters to create tag rules. If you want to create a tag based on filters that are specific to certain asset types, Tenable recommends that you create a tag from the Assets page, where you can select additional filters that are specific to each asset type.

For more information about applying tags automatically, see Considerations for Tags with Rules.

Before you begin:

- Create or edit a tag.

To create and add a rule to a tag:

1. In the upper-left corner, click the menu button. The left navigation plane appears.
2. In the left navigation plane, click Settings. The Settings page appears.
3. Click the Tagging tile. The Tags page appears. On this page, you can view your asset tag categories and values. The Categories tab is active.
4. Click the Values tab.
The **Values** page appears, containing a table of all the tags on your Tenable Web App Scanning instance.

5. Click the **Rules** toggle to enable the rule settings.

   The **Rules** section appears.

6. For each tag rule you want to create, do one of the following:

   ![Note: Basic mode is active by default.]

   **To create a tag rule in **Basic** mode:**
   
   a. In the **Rules** section, click **Select Filters**.

   A drop-down box appears, listing the tag rule filter options.

   ![Note: Each tag rule filter has different limits on the number of values you can apply to a single filter. For information about those limits, see Tag Rules Filters.]

   b. Select a filter.

   The filter you select appears in the **Rules** section.

   c. Click outside the drop-down box.

   The drop-down box closes.

   d. In the filter, click the **v** button.

   The filter expands.

   e. In the first drop-down box, select the operator you want to apply to the filter.

   f. In the second drop-down box, select or type one or more values for the filter.

   g. (Optional) To create another rule, repeat the steps to create a tag in **Basic** mode.

   h. (Optional) To create another rule:

      i. Repeat the steps to create a tag rule in **Basic** mode.

      ii. In **Rules** section, in the **Match Any** **v** drop-down box, do one of the following:
• To apply the tag to assets that match any of the rules, select **Match Any**.

An **OR** operator appears between each rule, and Tenable Web App Scanning applies the tag to assets that meet any of the rules specified in the tag.

• To apply the tag to only assets that match all of the rules, select **Match All**.

An **AND** operator appears between each rule.

Tenable Web App Scanning applies the tag to only assets that meet all of the rules specified in the tag.

To create a tag rule in **Advanced** mode:

a. In the **Rules** section, click **Advanced**.

A text box appears.

b. Place your cursor in the text box.

A drop-down box appears, listing the **tag rule filter** options.

---

**Note:** Each tag rule filter has different limits on the number of values you can apply to a single filter. For information about those limits, see [Tag Rules Filters](#).

**Note:** If there is a typo in the tag rule, an error will appear in the **Rules** box with a description of the issue.

---

c. Select or type the filter you want to apply.

**Tip:** You can use the arrow keys to navigate filter drop-down boxes, and press the **Enter** key to select an option.

The filter appears in the text box.

An operator drop-down box appears to the right of the filter.

d. Select one of the following operators, which are contextual based on the selected filter:

---

**Note:** If you want to filter on a value that starts with (`'`) or (`"`), or includes (`*`) or (`,`), then you must wrap the value in quotation marks (`"`).
<table>
<thead>
<tr>
<th>Operator</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>exists</td>
<td>Filters for items for which the selected filter exists.</td>
</tr>
<tr>
<td>does not exist</td>
<td>Filters for items for which the selected filter does not exist.</td>
</tr>
<tr>
<td>is equal to</td>
<td>Filters for items that match the filter value.</td>
</tr>
<tr>
<td>is not equal to</td>
<td>Filters for items that do not include the filter value.</td>
</tr>
<tr>
<td>is greater than</td>
<td>Filters for items with a value greater than the specified filter value. If you want to include the value you specify in the filter, then use the <strong>is greater than or equal to</strong> operator.</td>
</tr>
<tr>
<td>is greater than or equal to</td>
<td>Filters for items with a value greater than or equal to the specified filter value.</td>
</tr>
<tr>
<td>is less than</td>
<td>Filters for items with a value less than the specified filter value. If you want to include the value you specify in the filter, then use the <strong>is less than or equal to</strong> operator.</td>
</tr>
<tr>
<td>is less than or equal to</td>
<td>Filters for items with a value less than or equal to the specified filter value.</td>
</tr>
<tr>
<td>within last</td>
<td>Filters for items with a date within a number of hours, days, months, or years before today. Type a number, then select a unit of time.</td>
</tr>
<tr>
<td>after</td>
<td>Filters for items with a date after the specified filter value.</td>
</tr>
<tr>
<td>before</td>
<td>Filters for items with a date before the specified filter value.</td>
</tr>
<tr>
<td>older than</td>
<td>Filters for items with a date more than a number of hours, days, months, or years before today. Type a number, then select a unit of time.</td>
</tr>
<tr>
<td>is on</td>
<td>Filters for items with a specified date.</td>
</tr>
<tr>
<td>between</td>
<td>Filters for items with a date between two specified dates.</td>
</tr>
<tr>
<td>Operator</td>
<td>Description</td>
</tr>
<tr>
<td>-------------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td><strong>contains</strong></td>
<td>Filters for items that contain the specified filter value.</td>
</tr>
<tr>
<td><strong>does not contain</strong></td>
<td>Filters for items that do not contain the specified filter value.</td>
</tr>
<tr>
<td><strong>wildcard</strong></td>
<td>Filters for items with a wildcard (*) as follows:</td>
</tr>
<tr>
<td></td>
<td>• <strong>Begin or end with</strong> – Filters for values that begin or end with text you specify. For example, to find all values that begin with &quot;1&quot;, type 1*. To find all values that end in &quot;1&quot;, type *1.</td>
</tr>
<tr>
<td></td>
<td>• <strong>Contains</strong> – Filters for values that contain text you specify. For example, to find all values with a &quot;1&quot; between the first and last characters, type <em>1</em>.</td>
</tr>
<tr>
<td></td>
<td>• <strong>Turn off case sensitivity</strong> – Filters for values without case sensitivity. For example, to search for findings with a Plugin Name of &quot;TLS Version 1.2 Protocol Detection&quot; or &quot;tls version 1.2 protocol detection&quot;, type <em>tls version 1.2 protocol detection</em>.</td>
</tr>
</tbody>
</table>

To the right of the operator, select or type a value for the filter.

**Tip:** Some text filters support the character (*) as a wildcard to stand in for a section of text in the filter value. For example, if you want the filter to include all values that end in 1, type *1*. If you want the filter to include all values that begin with 1, type 1*. You can also use the wildcard operator to filter for values that contains certain text. For example, if you want the filter to include all values with a 1 somewhere between the first and last characters, type *1*.

e. **(Optional)** To create more rules for the tag:

   i. Press the **Space** key.

      A modifier drop-down box appears, with **AND And** and **OR Or** as options.

   ii. Select a modifier.
iii. Press the **Space** key.

   A drop-down box appears listing the tag rule filter options.

iv. Repeat the steps to create a tag rule in **Advanced** mode.

7. Click **Save**.

   Tenable Web App Scanning creates the rule and applies it to the tag.
Edit a Tag Rule

**Required Tenable Vulnerability Management User Role:** VM Scan Manager or Administrator

**Required Tenable Vulnerability Management Permission:** Can Edit, Can Use permission for applicable asset tags.

Once you create an automatic tag, you can edit the rules that apply to the tag from the **Edit Value** page.

**Note:** When you edit rules from the **Tagging** page, you can select from a list generic asset filters to create tag rules. However, if you want to add filters that are specific to a certain asset type (e.g., web application assets), Tenable recommends that you **edit the tag** from the **Assets** page, where you can select filters that are specific to each asset type.

Before you begin:

- **Create** an automatic tag.

To edit a tag rule:

1. In the upper-left corner, click the button. The left navigation plane appears.

2. In the left navigation plane, click **Settings**. The **Settings** page appears.

3. Click the **Tagging** tile. The **Tags** page appears. On this page, you can view your asset tag categories and values. The **Categories** tab is active.

4. Click the **Values** tab. The **Values** page appears, containing a table of all the tags on your Tenable Web App Scanning instance.

5. In the tags table, click the tag for which you want to edit a tag rule.
The **Edit Value** page appears.

**Tip:** You can also navigate to the **Edit Value** page from the **Edit Category** page by clicking the tag you want to review in the **Values** table.

6. Click the **Rules** toggle to enable the rule settings.

   The **Rules** section appears.

7. In the **Rules** section, in the rule **filter** you want to edit, click the dropdown button.

   A drop-down box appears with the lists of rule values previously selected for that filter.

   **Note:** You can apply up to 10 filters to a tag rule.

8. (Optional) In the first drop-down box, select a new operator.

9. (Optional) In the second box, add or remove a rule value.

   **Note:** If the rule filter has selectable options (e.g., dates ranges), those options appear below the filter. Otherwise, you must type the value.

10. Click outside the rules drop-down box.

    The drop-down box closes.

11. Click **Save**.

    Tenable Web App Scanning save your changes, evaluates existing assets, and automatically applies the tag to assets that match the updated tag rules.

   **Note:** Tenable Web App Scanning may take some time to apply the tag to assets and update asset attributes, depending on the system load and the number of assets.
Delete A Tag Rule

**Required Tenable Vulnerability Management User Role:** VM Scan Manager or Administrator

**Required Tenable Vulnerability Management Permission:** Can Edit, Can Use permission for applicable asset tags.

When you delete a rule from an automatic tag, Tenable Web App Scanning removes the tag from any assets that match the tag rule. When you delete all rules from an automatic tag, the tag becomes a manual tag.

To delete a tag rule:

1. In the upper-left corner, click the button.
   
The left navigation plane appears.

2. In the left navigation plane, click **Settings**.
   
The **Settings** page appears.

3. Click the **Tagging** tile.
   
The **Tags** page appears. On this page, you can view your asset tag categories and values.
   
The **Categories** tab is active.

4. On the **Tags** page, click the **Values** tab.
   
The **Values** page appears, containing a table with all the tags on your Tenable Web App Scanning instance.

5. In the tags table, click the tag from which you want to delete a tag rule.
   
The **Edit Value** page appears.

   **Tip:** You can also navigate to the **Edit Value** page from the **Edit Category** page by clicking the tag you want to review in the **Values** table.

6. In the **Rules** section, in the rule you want to delete, click the button.
   
The rule disappears from the **Rules** section.
7. Click **Save**.

   Tenable Web App Scanning saves and applies your changes.
Tag Rules Filters

Note: If there is a typo in the tag rule, an error appears in the Rules box with a description of the issue.

Note: Tenable Web App Scanning supports a maximum of 1,000 rules per tag. This limit means that you can specify a maximum of 1,000 and or conditions for a single tag value. Additionally, Tenable Web App Scanning supports a maximum of 1,024 values per individual tag rule.

On the Tags page, you can select from the following filters to create rules for an automatic tag:

<table>
<thead>
<tr>
<th>Filter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Account ID</td>
<td>The unique identifier assigned to the asset resource in the cloud service that hosts the asset.</td>
</tr>
<tr>
<td>ACR</td>
<td>(Requires Tenable Lumin license) The asset's ACR (Asset Criticality Rating).</td>
</tr>
<tr>
<td>ACR Severity</td>
<td>(Requires Tenable Lumin license) The ACR category of the ACR calculated for the asset.</td>
</tr>
<tr>
<td>AES</td>
<td>(Requires Tenable Lumin license) The Asset Exposure Score (AES) calculated for the asset.</td>
</tr>
<tr>
<td>AES Severity</td>
<td>(Requires Tenable Lumin license) The AES category of the AES calculated for the asset.</td>
</tr>
<tr>
<td>Agent Name</td>
<td>The name of the Tenable Nessus agent that scanned and identified the asset.</td>
</tr>
<tr>
<td>ARN</td>
<td>The Amazon Resource Name (ARN) for the asset.</td>
</tr>
<tr>
<td>ASN</td>
<td>The Autonomous System Number (ASN) for the asset.</td>
</tr>
<tr>
<td>Assessed vs. Discovered</td>
<td>Specifies whether Tenable Web App Scanning scanned the asset for vulnerabilities or if Tenable Web App Scanning only discovered the asset via a discovery scan. Possible values are:</td>
</tr>
<tr>
<td></td>
<td>• Assessed</td>
</tr>
<tr>
<td></td>
<td>• Discovered Only</td>
</tr>
<tr>
<td><strong>Asset ID</strong></td>
<td>The asset's UUID.</td>
</tr>
<tr>
<td>--------------</td>
<td>-------------------</td>
</tr>
<tr>
<td><strong>AWS Availability Zone</strong></td>
<td>The name of the Availability Zone where AWS hosts the virtual machine instance. For more information, see Regions and Availability Zones in the AWS documentation.</td>
</tr>
<tr>
<td><strong>AWS EC2 AMI ID</strong></td>
<td>The unique identifier of the Linux AMI image in Amazon Elastic Compute Cloud (Amazon EC2). For more information, see the Amazon Elastic Compute Cloud Documentation.</td>
</tr>
<tr>
<td><strong>AWS EC2 Instance ID</strong></td>
<td>The unique identifier of the Linux instance in Amazon EC2. For more information, see the Amazon Elastic Compute Cloud Documentation.</td>
</tr>
<tr>
<td><strong>AWS EC2 Name</strong></td>
<td>The name of the virtual machine instance in Amazon EC2.</td>
</tr>
<tr>
<td><strong>AWS EC2 Product Code</strong></td>
<td>The product code associated with the AMI used to launch the virtual machine instance in Amazon EC2.</td>
</tr>
<tr>
<td><strong>AWS Instance State</strong></td>
<td>The state of the virtual machine instance in AWS at the time of the scan. For possible values, see API Instance State in the Amazon Elastic Compute Cloud Documentation.</td>
</tr>
<tr>
<td><strong>AWS Instance Type</strong></td>
<td>The type of virtual machine instance in Amazon EC2. Amazon EC2 instance types dictate the specifications of the instance (for example, how much RAM it has). For a list of possible values, see Amazon EC2 Instance Types in the AWS documentation.</td>
</tr>
<tr>
<td><strong>AWS Owner ID</strong></td>
<td>A UUID for the Amazon AWS account that created the virtual machine instance. For more information, see AWS Account Identifiers in the AWS documentation. This attribute contains a value for Amazon EC2 instances only. For other asset types, this attribute is empty.</td>
</tr>
<tr>
<td><strong>AWS Region</strong></td>
<td>The region where AWS hosts the virtual machine instance, for example, us-east-1. For more information, see Regions and Availability Zones in the AWS documentation.</td>
</tr>
<tr>
<td><strong>AWS Security Group</strong></td>
<td>The AWS security group (SG) associated with the Amazon EC2 instance.</td>
</tr>
<tr>
<td><strong>AWSSubnet ID</strong></td>
<td>The unique identifier of the AWS subnet where the virtual machine instance was running at the time of the scan.</td>
</tr>
<tr>
<td>------------------</td>
<td>-------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td><strong>AWS VPC ID</strong></td>
<td>The unique identifier of the public cloud that hosts the AWS virtual machine instance. For more information, see the Amazon Virtual Private Cloud User Guide.</td>
</tr>
<tr>
<td><strong>Azure Resource Group</strong></td>
<td>The name of the resource group in the Azure Resource Manager. For more information, see the Azure Resource Manager Documentation.</td>
</tr>
<tr>
<td><strong>Azure Resource ID</strong></td>
<td>The unique identifier of the resource in the Azure Resource Manager. For more information, see the Azure Resource Manager Documentation.</td>
</tr>
<tr>
<td><strong>Azure Resource Type</strong></td>
<td>The resource type of the resource in the Azure Resource Manager. For more information, see the Azure Resource Manager Documentation.</td>
</tr>
<tr>
<td><strong>Azure Subscription ID</strong></td>
<td>The unique subscription identifier of the resource in the Azure Resource Manager. For more information, see the Azure Resource Manager Documentation.</td>
</tr>
<tr>
<td><strong>Azure VM ID</strong></td>
<td>The unique identifier of the Microsoft Azure virtual machine instance. For more information, see Accessing and Using Azure VM Unique ID in the Microsoft Azure documentation.</td>
</tr>
<tr>
<td><strong>BIOS ID</strong></td>
<td>The NetBIOS name for the asset.</td>
</tr>
<tr>
<td><strong>Cloud Provider</strong></td>
<td>The name of the cloud provider that hosts the asset.</td>
</tr>
<tr>
<td><strong>Created Date</strong></td>
<td>The time and date when Tenable Web App Scanning created the asset record.</td>
</tr>
<tr>
<td><strong>Custom Attribute</strong></td>
<td>A filter that searches for custom attributes via a category-value pair. For more information about custom attributes, see the <a href="#">Tenable Developer Portal</a>.</td>
</tr>
<tr>
<td><strong>Deleted</strong></td>
<td>Specifies whether the asset has been deleted.</td>
</tr>
<tr>
<td><strong>Deleted Date</strong></td>
<td>The date when a user deleted the asset record or the number of days since a user deleted the asset. When a user deletes an asset record,</td>
</tr>
</tbody>
</table>
| **DNS (FQDN)** | The fully-qualified domain name of the asset host.  
**Note:** This does not apply to Web Application assets, for which you must use the **Name** filter. |
| **Domain** | The domain which has been added as a source or discovered by ASM as belonging to a user. |
| **First Seen** | The date and time when a scan first identified the asset. |
| **Google Cloud Instance ID** | The unique identifier of the virtual machine instance in Google Cloud Platform (GCP). |
| **Google Cloud Project ID** | The customized name of the project to which the virtual machine instance belongs in GCP. For more information, see Creating and Managing Projects in the GCP documentation. |
| **Google Cloud Zone** | The zone where the virtual machine instance runs in GCP. For more information, see Regions and Zones in the GCP documentation. |
| **Has Plugin Results** | Specifies whether the asset has plugin results associated with it. |
| **Host Name (Domain Inventory)** | The host name for assets found during attack surface management scans; only for use with Domain Inventory assets. |
| **Hosting Provider** | The hosting provider for the asset. |
| **IaC Resource Type** | The Infrastructure as Code (IAC) resource type of the asset. |
| **Installed Software** | A list of Common Platform Enumeration (CPE) values that represent software applications a scan identified as present on an asset. This field supports the CPE 2.2 format. For more information, see the Component Syntax section of the CPE Specification documentation, Version 2.2. For assets identified in Tenable scans, this field contains data only if a scan using Tenable Nessus Plugin ID 45590 has evaluated the asset. |
| **IPv4 Address** | The IPv4 address associated with the asset record.
This filter supports multiple asset identifiers as a comma-separated list (for example, hostname_example, example.com, 192.168.0.0). For IP addresses, you can specify individual addresses, CIDR notation (for example, 192.168.0.0/24), or a range (for example, 192.168.0.1-192.168.0.255).

**Note:** A CIDR mask of /0 is not supported for this parameter, because that value would match all IP addresses. If you submit a /0 value for this parameter, Tenable Web App Scanning returns a 400 Bad Request error message.

**Note:** Ensure the tag filter value does not end in a period. |
| **IPv6 Address** | An IPv6 address that a scan has associated with the asset record.
This filter supports multiple asset identifiers as a comma-separated list. The IPv6 address must be an exact match. (for example, 0:0:0:0:0:ff:0:ca8:0).

**Note:** Ensure the tag filter value does not end in a period. |
<p>| <strong>Is Attribute</strong> | Specifies whether the asset is an attribute. |
| <strong>Is Auto Scale</strong> | Specifies whether the asset scales automatically. |
| <strong>Is Unsupported</strong> | Specifies whether the asset is unsupported in Tenable Web App Scanning. |
| <strong>Last Audited</strong> | The time and date at which the asset was last audited. |
| <strong>Last Authenticated</strong> | The date and time of the last authenticated scan run against the asset. |</p>
<table>
<thead>
<tr>
<th><strong>Scan</strong></th>
<th>An authenticated scan that only uses discovery plugins updates the <strong>Last Authenticated Scan</strong> field, but not the <strong>Last Licensed Scan</strong> field.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Last Licensed Scan</strong></td>
<td>The date and time of the last scan in which the asset was considered &quot;licensed&quot; and counted towards Tenable's license limit. A licensed scan uses non-discovery plugins and can identify vulnerabilities. Unauthenticated scans that run non-discovery plugins update the <strong>Last Licensed Scan</strong> field, but not the <strong>Last Authenticated Scan</strong> field. For more information on licensed assets, see <a href="#">Tenable Vulnerability Management Licenses</a>.</td>
</tr>
<tr>
<td><strong>Last Seen</strong></td>
<td>The date and time of the scan that most recently identified the asset.</td>
</tr>
<tr>
<td><strong>Licensed</strong></td>
<td>Specifies whether the asset is included in the asset count for the Tenable Web App Scanning instance.</td>
</tr>
<tr>
<td><strong>MAC Address</strong></td>
<td>A MAC address that a scan has associated with the asset record.</td>
</tr>
<tr>
<td><strong>Mitigation Last Detected</strong></td>
<td>The date and time of the scan that last identified mitigation software on the asset.</td>
</tr>
</tbody>
</table>
| **Name**          | The asset identifier that Tenable Web App Scanning assigns based on the presence of certain asset attributes in the following order:  
|                   | 1. Agent Name (if agent-scanned)  
|                   | 2. NetBIOS Name  
|                   | 3. FQDN  
|                   | 4. IPv6 address  
|                   | 5. IPv4 address  
|                   | For example, if scans identify a NetBIOS name and an IPv4 address for an asset, the NetBIOS name appears as the Asset Name. |
| **NetBIOS Name**  | The NetBIOS name for the asset. |
| **Network**       | The name of the network object associated with scanners that identified the asset. The default name is **Default**. For more information,
<table>
<thead>
<tr>
<th><strong>Open Ports</strong></th>
<th>Open ports on the asset.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Operating System</strong></td>
<td>The operating system that a scan identified as installed on the asset.</td>
</tr>
<tr>
<td><strong>Port</strong></td>
<td>The port associated with the asset.</td>
</tr>
<tr>
<td><strong>Public</strong></td>
<td>Specifies whether the asset is available on a public network.</td>
</tr>
<tr>
<td><strong>Record Type</strong></td>
<td>The asset type.</td>
</tr>
<tr>
<td><strong>Region</strong></td>
<td>The cloud region where the asset runs.</td>
</tr>
<tr>
<td><strong>Repositories</strong></td>
<td>Any code repositories associated with the asset.</td>
</tr>
<tr>
<td><strong>Resource Category</strong></td>
<td>The name of the category to which the cloud resource type belongs (for example, object storage or virtual network).</td>
</tr>
<tr>
<td><strong>Resource Tags (By Key)</strong></td>
<td>Tags synced from a cloud source, such as Amazon Web Services (AWS), matched by the tag key (for example, Name).</td>
</tr>
<tr>
<td><strong>Resource Tags (By Value)</strong></td>
<td>Tags synced from a cloud source, such as Amazon Web Services (AWS), matched by the tag value.</td>
</tr>
<tr>
<td><strong>Resource Type</strong></td>
<td>The asset's cloud resource type (for example, network, virtual machine).</td>
</tr>
<tr>
<td><strong>ServiceNow Sys ID</strong></td>
<td>Where applicable, the unique record identifier of the asset in ServiceNow. For more information, see the <a href="https://servicenow.com">ServiceNow</a> documentation.</td>
</tr>
<tr>
<td><strong>Source</strong></td>
<td>The source of the scan that identified the asset. Possible filter values are:</td>
</tr>
<tr>
<td></td>
<td>• AWS</td>
</tr>
<tr>
<td></td>
<td>• AWS FA</td>
</tr>
<tr>
<td></td>
<td>• Azure</td>
</tr>
<tr>
<td></td>
<td>• AZURE FA</td>
</tr>
<tr>
<td></td>
<td>• Cloud Connector</td>
</tr>
<tr>
<td><strong>SSL/TLS</strong></td>
<td>Specifies whether the application on which the asset is hosted uses SSL/TLS public-key encryption.</td>
</tr>
<tr>
<td>-------------</td>
<td>--------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td><strong>System Type</strong></td>
<td>The system types as reported by Plugin ID 54615. For more information, see <a href="#">Tenable Plugins</a>.</td>
</tr>
</tbody>
</table>
| **Tags** | A unique filter that searches tag (category: value) pairs. When you type a tag value, you must use the category: value syntax, including the space after the colon (:). You can use commas (,) to separate values. If there is a comma in the tag name, insert a backslash (\) before the comma. You can add a maximum of 100 tags.  
For more information, see [tags](#).  
**Note:** If your tag name includes double quotation marks (" "), you must use the UUID instead. |
| **Target Groups** | The target group to which the asset belongs. This attribute is empty if the asset does not belong to a target group. For more information, see [Target Groups](#). |
| **Tenable ID** | The UUID of the agent present on the asset. |
| **Terminated** | Specifies whether or not the asset is terminated. |
| **Type** | The system type on which the asset is managed. Possible filter values |
are:

- Cloud Resource
- Container
- Host
- Cloud

<table>
<thead>
<tr>
<th><strong>Updated Date</strong></th>
<th>The time and date when a user last updated the asset.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>VPC</strong></td>
<td>The unique identifier of the public cloud that hosts the AWS virtual machine instance. For more information, see the Amazon Virtual Private Cloud User Guide.</td>
</tr>
</tbody>
</table>
Create a Tag via Asset Filters

**Required User Role:** Administrator

When you filter your assets, you can use the filters as tag rules to create a new automatic tag.

After you create the tag, Tenable Web App Scanning automatically applies the tag to any assets identified through those filters.

You can also create a manual or automatic tag for your assets from the Tagging page.

To create a tag using asset filters:

1. In the upper-left corner, click the button.
   
   The left navigation plane appears.

2. In the left navigation plane, in the Explore section, click Assets.
   
   The Assets page appears.

3. Filter the table, selecting and deselecting filters based on the rules you want to add to or remove from your tag.
   
   The filters you selected appear in the header above the filter plane.

4. In the header, to the left of the first filter, click Add Tags.
   
   The Add Tags window appears.
5. Under **Create/Select Tag**, in the first drop-down box, type a category. 

As you type, the list filters for matches.

6. In the drop-down box, select an existing category, or if the category is new, click **Create category**.

   **Tip**: You can create a generic tag category and apply to different tag values to group your tags. For example, if you create a *Location* category, you can apply it to multiple values such as *Headquarters* or *Offshore* to create a group of location tags.

7. Under **Create/Select Tag**, in the second drop-down box, type a value for your new tag.

8. In the drop-down box, click **Create value**.

9. Click **Save**.

   Tenable Web App Scanning saves the tag and applies it to applicable assets on your account.

   **Note**: It can take up to several minutes for Tenable Web App Scanning to apply a tag to the applicable assets.
Edit a Tag or Tag Category

**Required Tenable Vulnerability Management User Role:** VM Scan Manager or Administrator

**Required Tenable Vulnerability Management Permission:** Can Edit, Can Use permission for applicable asset tags.

In the **Tagging** section, you can edit one or more components of a tag, including the category to which the tag belongs as well as the tag's name and description and any rules applied to the tag.

To edit a tag or tag category:

1. In the upper-left corner, click the `☰` button.
   The left navigation plane appears.

2. In the left navigation plane, click **Settings**.
   The **Settings** page appears.

3. Click the **Tagging** tile.
   The **Tags** page appears. On this page, you can view your asset tag categories and values.
   The **Categories** tab is active.

4. To edit an individual tag:
   a. On the **Tags** page, click the **Values** tab.
      The **Values** page appears, containing a table with all the tags on your Tenable Web App Scanning instance.
   b. In the **Values** table, click the tag you want to edit.
      The **Edit Value** page appears.

      **Tip:** You can also navigate to the **Edit Value** page from the **Edit Category** page by clicking the tag you want to review in the **Values** table.

   c. (Optional) In the **Value** box, edit the tag name.
   d. (Optional) In the **Value Description (Optional)** box, edit the tag description.
e. (Optional) Configure the tag rules.

5. To edit the tag category:

<table>
<thead>
<tr>
<th>Note</th>
<th>When you edit a tag category, Tenable Web App Scanning changes the category for all the tags in that category.</th>
</tr>
</thead>
</table>

a. In the tag categories table, click the category you want to edit.

   The Edit Category page appears.

b. In the tag categories table, click the category you want to edit.

   The Edit Category page appears.

c. (Optional) To edit the name, in the Category box, type a new name.

d. (Optional) To edit the description, in the Category Description box, type a new description.

6. Click Save.

   Tenable Web App Scanning saves and applies your changes.
Edit a Tag via Asset Filters

**Required Tenable Vulnerability Management User Role:** Basic, VM Scan Operator, VM Standard, VM Scan Manager, or Administrator

**Required Tenable Vulnerability Management Permission:** Can Edit, Can Use permission for applicable asset tags.

On the **Assets** page, you can use asset filters to edit a tag's rules, category, and value.

To edit a tag using asset filters:

1. In the upper-left corner, click the button.
   
   The left navigation plane appears.

2. In the left navigation plane, in the **Explore** section, click **Assets**.
   
   The **Assets** page appears. By default, the **Hosts** tab is visible.

3. Filter the table, selecting and deselecting filters based on the rules you want to add to or remove from your tag.
   
   The filters you applied appear in the header above the filter plane.

4. In the header, to the left of the first filter, click the button.
   
   The **Tag Matching Assets** window appears.

5. Do one of the following:
   
   - To edit a recently used tag:
     
     a. Under **Recently Used Tags**, click the tag you want to edit.

     The tag category appears in the **Select or create Category** drop-down box.

     The tag value appears in the **Select or create Value** drop-down box.

   - To edit any other tag:
a. In the **Select or create Category** drop-down box, type a category name. As you type, the list filters for matches.

b. Select the category for the tag you want to edit.

c. In the **Select or create Value** drop-down box, type a value name. As you type, the list filters for matches.

d. In the drop-down box, select the value for the tag you want to edit.

6. (Optional) To edit the tag category:

   a. In the **Select or create Category** drop-down box, type a new name for your category.

      *Create "category"* appears in the drop-down box.

   b. In the drop-down box, select *Create "category"*.

      The new category name appears selected in the drop-down box.

7. (Optional) To edit the tag value:

   a. In the **Select or create Value** drop-down box, type a new value for your tag.

      *Create "value"* appears in the drop-down box.

   b. In the drop-down box, select *Create "value"*.

      The new value name appears selected in the drop-down box.

8. (Optional) In the **Chosen Search Filters for Tag** box, click the ✗ inside any filters you want to remove from the tag.

9. Click **Save**.

   Tenable Web App Scanning saves your edits.
Add a Tag to an Asset

**Required Tenable Vulnerability Management User Role:** Basic, VM Scan Operator, VM Standard, VM Scan Manager, or Administrator

**Required Tenable Vulnerability Management Permission:** Can Use permission for applicable asset tags.

After you create a tag, you can manually apply it to one or more assets on your Tenable Web App Scanning instance.

To add a tag to an asset:

1. In the upper-left corner, click the button.
   
   The left navigation plane appears.

2. In the left navigation plane, in the Explore section, click Assets.
   
   The Assets page appears. By default, the Hosts tab is visible.

3. View your assets list.

4. (Optional) Refine the table data. For more information, see Tenable Web App Scanning Workbench Tables.

5. Do one of the following:

   To add a tag to a single asset:
a. Select the page where you want to add the tag:

<table>
<thead>
<tr>
<th>Location</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Assets</strong> page</td>
<td>To add a tag from the <strong>Assets</strong> page:</td>
</tr>
<tr>
<td></td>
<td>a. In the assets table, right-click the row for the asset to which you want to add a tag.</td>
</tr>
<tr>
<td></td>
<td>The action options appear next to your cursor.</td>
</tr>
<tr>
<td></td>
<td>-or-</td>
</tr>
<tr>
<td></td>
<td>In the assets table, in the <strong>Actions</strong> column, click the button for the asset to which you want to add a tag.</td>
</tr>
<tr>
<td></td>
<td>The action buttons appear in the row.</td>
</tr>
<tr>
<td></td>
<td>b. Click <strong>Add Tags</strong>.</td>
</tr>
<tr>
<td><strong>Asset Details</strong> page</td>
<td>To add a tag from the <strong>Asset Details</strong> page:</td>
</tr>
<tr>
<td>page preview plane</td>
<td>a. In the assets table, click the row for the asset to which you want to add a tag.</td>
</tr>
<tr>
<td></td>
<td>The preview plan for the asset’s <strong>Asset Details</strong> page appears.</td>
</tr>
<tr>
<td></td>
<td>b. In the left section of the preview plane, next to <strong>Tags</strong>, click the button.</td>
</tr>
<tr>
<td><strong>Asset Details</strong> page</td>
<td>To add a tag from the <strong>Asset Details</strong> page:</td>
</tr>
<tr>
<td></td>
<td>a. <strong>View</strong> the <strong>Asset Details</strong> page for the asset from which you want to remove the tag.</td>
</tr>
<tr>
<td></td>
<td>The <strong>Asset Details</strong> page appears.</td>
</tr>
<tr>
<td></td>
<td>b. In the upper-right corner, click the <strong>Actions</strong> button.</td>
</tr>
</tbody>
</table>
c. In the actions menu, click Add Tag.
   - or -
On the left side of the page, next to Tags, click the + button.

The Add Tags window appears.

b. Click Add.

The assets table appears. A confirmation message also appears. Tenable Web App Scanning adds the tags specified in Tags to be Added to the assets.

To add a tag to multiple assets:

a. In the assets table, select the check box for each asset to which you want to add a tag.

   The action bar appears at the top of the table.

b. Click Add Tags.

   The assets table appears. A confirmation message also appears. Tenable Web App Scanning adds the tags specified in Tags to be Added to the assets.

6. Do one of the following:

To add a recently used tag:

   • Under Recently Used Tags, select the tag you want to add.

   The tag appears in the Tags to be Added box.

   **Tip:** To remove a tag from Tags to be Added, roll over the tag and click the × button.

To add a new or existing tag:

a. In the Category box, type a category.

   As you type, the list filters for matches.
b. From the drop-down box, select an existing category, or if the category is new, click **Create "category name"**.

**Tip:** You can create a generic tag category and apply to different tag values to group your tags. For example, if you create a *Location* category, you can apply it to multiple values such as *Headquarters* or *Offshore* to create a group of location tags.

c. In the **Value** box, type a value.

As you type, the list filters for matches.

d. From the drop-down box, select an existing value, or if the value is new, click **Create "value"**.

**Note:** The system does not save new tags you create by this method until you add the new tags to the asset.

The tag appears in the **Tags to be Added** box.

**Tip:** To remove a tag from **Tags to be Added**, roll over the tag and click the ✗ button.

7. Click **Add**.

The assets table appears. A confirmation message also appears. Tenable Web App Scanning adds the tags specified in **Tags to be Added** to the assets.
Remove a Tag from an Asset via the Asset View

**Required Tenable Vulnerability Management User Role:** Basic, VM Scan Operator, VM Standard, VM Scan Manager, or Administrator

**Required Access Group Permissions:** Can View, Can Edit

This procedure describes how to remove tags from assets from the Assets page. You can also remove asset tags from the Vulnerabilities by Assets page.

If an asset matches a dynamic tag's rules but you do not want the tag applied, you can manually remove the tag from the asset. If you later want to re-apply the tag to the asset, you can remove the asset from the excluded assets list, as described in Edit Tag Rules.

To remove a tag from a single asset:

1. In the upper-left corner, click the button.
   The left navigation plane appears.

2. In the left navigation plane, in the Asset View section, click Assets.
   The Assets page appears.

3. In the left navigation plane, in the Explore section, click Assets.
   The Assets page appears. By default, the Hosts tab is visible.

4. Do one of the following:

<table>
<thead>
<tr>
<th>Location</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Assets page</td>
<td>a. In the assets table, in the row for the asset from which you want to remove a tag, click the button. A menu appears.</td>
</tr>
<tr>
<td></td>
<td>b. Click Remove Tag.</td>
</tr>
<tr>
<td>Assets page</td>
<td>a. In the assets table, select the check box for each asset from which you want to remove a tag.</td>
</tr>
</tbody>
</table>
The action bar appears at the bottom of the page.

b. On the action bar, click ☐ Remove Tag.

| Asset Details page | a. In the assets table, click the asset where you want to remove the tag. The Asset Details page appears.
| | b. In the right panel, in the Tags section, click the name of the tag you want to remove from the asset. A menu appears.
| | c. Click ☐ Remove Tag.

The Remove Tags plane appears.

5. Under Current Tags, click each tag you want to remove.

The tag appears in the Tags to be Removed box.

Tip: To remove a tag from Tags to be Removed, roll over the tag and click the ✗ button.

6. Click Remove.

Tenable Vulnerability Management removes the tags specified in Tags to be Removed from the asset.

To remove tags from multiple assets:
1. In the upper-left corner, click the button.
   The left navigation plane appears.

2. In the left navigation plane, in the Asset View section, click Assets.
   The Assets page appears.

3. In the assets table, click the check box next to each asset for which you want to remove the tag.
   The action bar appears at the bottom of the pagetop of the table.

4. In the action bar, click Remove Tag.
   The Remove Tags plane appears.

5. Under Current Tags, click each tag you want to remove.
   The tag appears in the Tags to be Removed box.

   **Tip:** To remove a tag from Tags to be Removed, roll over the tag and click the button.

6. Click Remove.
   Tenable Web App Scanning removes the tags specified in Tags to be Removed from the selected assets.
Override Asset Attributes via Tag

**Required Additional License:** Tenable Lumin

**Required Tenable Vulnerability Management User Role:** VM Scan Manager or Administrator

When editing a tag to apply manually or automatically, you can specify asset attributes you want Tenable Vulnerability Management to override for all assets with the tag.

For example, you can select the ACR attribute to bulk update a specific ACR value to all assets with the tag.

**Tip:** For information about ACR prioritization, see [Override Asset Attributes via Tag](#).

To override asset attributes via tag in the new interface:

1. Begin [creating a tag](#).

2. To automatically override an asset attribute for all assets with this tag, edit the attributes:
   
   a. Click the **Attribute Override** toggle to enable automatic application of attributes to assets with this tag.
      
      The criteria boxes appear.

   b. In the first box, select an attribute (for example, **Asset Criticality Rating (ACR)**).

   c. In the second box, select a value (for example, **9 (Critical)**).

3. Click **Save**.

Tenable Vulnerability Management updates the attribute for all assets with the tag.

**Note:** When you override an asset attribute via tags, Tenable Vulnerability Management may take some time to update the attribute on assets with the tag, depending on the system load and the number of assets.

**Tip:** For information about how Tenable Vulnerability Management prioritizes tag-updated ACR values, see [Asset Criticality Rating (ACR)](#).
Export Tags

**Required Tenable Vulnerability Management User Role:** VM Scan Manager or Administrator

On the **Tags** page, you can export tag categories and values in CSV or JSON format.

To export tag categories or values:

1. In the upper-left corner, click the button.
   
   The left navigation plane appears.

2. In the left navigation plane, click **Settings**.
   
   The **Settings** page appears.

3. Click the **Tagging** tile.
   
   The **Tags** page appears. On this page, you can view your asset tag categories and values.

   The **Categories** tab is active.

4. (Optional) Refine the table data. For more information, see [Tenable Web App Scanning Workbench Tables](#).

   **Note:** You cannot filter the tables on the **Tags** page.

5. Do one of the following:

   To export tag categories:
a. Select the tag categories that you want to export:

<table>
<thead>
<tr>
<th>Export Scope</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Selected tag categories</td>
<td>To export selected tag categories:</td>
</tr>
<tr>
<td></td>
<td>a. In the categories table, select the check box for each tag category you want to export.</td>
</tr>
<tr>
<td></td>
<td>The action bar appears at the top of the table.</td>
</tr>
<tr>
<td></td>
<td>b. In the action bar, click Export.</td>
</tr>
<tr>
<td></td>
<td><strong>Note:</strong> The Export link is available for up to 200 selections.</td>
</tr>
<tr>
<td></td>
<td>If you want to export more than 200 tag categories, select all the tag categories in the list and then click Export.</td>
</tr>
<tr>
<td>A single tag category</td>
<td>To export a single tag category:</td>
</tr>
<tr>
<td></td>
<td>a. In the categories table, right-click the row for the tag category you want to export.</td>
</tr>
<tr>
<td></td>
<td>The action options appear next to your cursor.</td>
</tr>
<tr>
<td></td>
<td>-or-</td>
</tr>
<tr>
<td></td>
<td>In the categories table, in the Actions column, click the button in the row for the tag category you want to export.</td>
</tr>
<tr>
<td></td>
<td>The action buttons appear in the row.</td>
</tr>
<tr>
<td></td>
<td>b. Click Export.</td>
</tr>
</tbody>
</table>

To export tag values:

a. Click the Values tab.

   The Values tab appears. This tab consists of a table that contains all your tag values.

b. Select the tag values that you want to export:
<table>
<thead>
<tr>
<th>Export Scope</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Selected tag values</td>
<td>To export selected tag values:</td>
</tr>
<tr>
<td></td>
<td>a. In the values table, select the check box for each tag value you want to export.</td>
</tr>
<tr>
<td></td>
<td>The action bar appears at the top of the table.</td>
</tr>
<tr>
<td></td>
<td>b. In the action bar, click [\text{Export}].</td>
</tr>
<tr>
<td></td>
<td><strong>Note:</strong> The [\text{Export}] link is available for up to 200 selections. If you want to export more than 200 tag values, select all the tag values in the list and then click [\text{Export}].</td>
</tr>
<tr>
<td>A single tag value</td>
<td>To export a single tag value:</td>
</tr>
<tr>
<td></td>
<td>a. In the categories table, right-click the row for the tag value you want you want to export.</td>
</tr>
<tr>
<td></td>
<td>The action options appear next to your cursor.</td>
</tr>
<tr>
<td></td>
<td>-or-</td>
</tr>
<tr>
<td></td>
<td>In the values table, in the \text{Actions} column, click the [\text{button} in the row for the tag value you want to export.</td>
</tr>
<tr>
<td></td>
<td>The action buttons appear in the row.</td>
</tr>
<tr>
<td></td>
<td>b. Click \text{Export}.</td>
</tr>
</tbody>
</table>

The \text{Export} plane appears. This plane contains:

- A text box to configure the export file name.
- A list of available export formats.
- A table of configuration options for fields to include in the exported file.

**Note:** By default, all fields are selected.
• A text box to set the number of days before the export expires.
• A toggle to configure the export schedule.
• A toggle to configure the email notification.

6. In the **Name** box, type a name for the export file.

7. Click the export format you want to use:

<table>
<thead>
<tr>
<th>Format</th>
<th>Description</th>
</tr>
</thead>
</table>
| CSV    | A CSV text file that contains a list of tag categories or values.  
**Note:** If your .csv export file includes a cell that begins with any of the following characters (=, +, -, @), Tenable Web App Scanning automatically inputs a single quote (') at the beginning of the cell. For more information, see the related knowledge base article. |
| JSON   | A JSON file that contains a nested list of tag categories or values.  
Empty fields are not included in the JSON file. |


9. In the **Expiration** box, type the number of days before the export file expires.

**Note:** Tenable Vulnerability Management allows you to set a maximum of 30 calendar days for export expiration.

10. (Optional) To set a schedule for your export to repeat:

• Click the **Schedule** toggle.

The **Schedule** section appears.

• In the **Start Date and Time** section, select the date and time on which you want the export schedule to start.

• In the **Time Zone** drop-down box, select the time zone to which you want the schedule to adhere.

• In the **Repeat** drop-down box, select how often you want the export to repeat.
• In the **Repeat Ends** drop-down, select the date on which you want the schedule to end.

  **Note:** If you select never, the schedule repeats until you modify or delete the export schedule.

11. (Optional) To send email notifications on completion of the export:

  **Note:** You can enable email notifications with or without scheduling exports.

  • Click the **Email Notification** toggle.

  The **Email Notification** section appears.

  • In the **Add Recipients** box, type the email addresses to which you want to send the export notification.

  • (Required) In the **Password** box, type a password for the export file. You must share this password with the recipients to allow them to download the file.

    **Note:** Tenable Web App Scanning sends an email to the recipients and from the link in the email, the recipients can download the file by providing the correct password.

12. Click **Export**.

    Tenable Web App Scanning begins processing the export. Depending on the size of the exported data, Tenable Web App Scanning may take several minutes to process the export.

    When processing completes, Tenable Web App Scanning downloads the export file to your computer. Depending on your browser settings, your browser may notify you that the download is complete.

13. Access the export file via your browser’s downloads directory. If you close the export plane before the download finishes, then you can access your export file in the **Export Management View**.
Delete a Tag Category

**Required Tenable Vulnerability Management User Role:** VM Scan Manager or Administrator

**Required Tenable Vulnerability Management Permission:** Can Edit, Can Use permission for applicable asset tags.

When you delete a tag category, Tenable Web App Scanning deletes any tags created under that category and removes those tags from all assets where they were applied.

**Caution:** When you delete a tag category, all associated values and assignments are also deleted. If you want to remove a specific tag, see Delete a Tag.

To delete a tag category:

1. In the upper-left corner, click the button.
   
The left navigation plane appears.

2. In the left navigation plane, click Settings.
   
The Settings page appears.

3. Click the Tagging tile.
   
The Tags page appears. On this page, you can view your asset tag categories and values.

4. Click the Categories tab.
   
The tag categories table appears.

5. To delete one tag category:
   
a. In the tags table, in the Action column, click the button.
      
      A menu appears.
b. Click the **Delete** button.

   A confirmation window appears, asking if you are sure that you want to delete the category and all associated tags and assignments.

**To delete multiple tag categories:**

a. In the tag category table, select the check box for each category you want to delete.

   The action bar appears at the bottom of the pagetop of the table.

b. In the action bar, click the **Delete** button.

   A confirmation window appears, asking if you are sure that you want to delete the category and all associated tags and assignments.

6. Click **Delete**.

   Tenable Web App Scanning deletes the tag category and any associated tags, and removes those tags from all assets where you applied them.
Delete a Tag

**Required Tenable Vulnerability Management User Role:** VM Scan Manager or Administrator

**Required Tenable Vulnerability Management Permission:** Can Edit, Can Use permission for applicable asset tags.

When you delete a tag, Tenable Web App Scanning removes that specific tag from all assets where you applied the tag.

To delete one or more tags:

1. In the upper-left corner, click the button.
   
   The left navigation plane appears.

2. In the left navigation plane, click Settings.
   
   The Settings page appears.

3. Click the Tagging tile.
   
   The Tags page appears. On this page, you can view your asset tag categories and values.

   The Categories tab is active.

4. Delete a one or more tags:

<table>
<thead>
<tr>
<th>Scope of Deletion</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>A single tag</td>
<td>To delete a single tag:</td>
</tr>
<tr>
<td></td>
<td>a. Click the Values tab.</td>
</tr>
<tr>
<td></td>
<td>The Values tab appears, displaying a table with all the tags on your Tenable Web App Scanning instance in Category:Value format.</td>
</tr>
<tr>
<td></td>
<td>b. In the tags table, right-click the row for the tag you want to delete.</td>
</tr>
<tr>
<td></td>
<td>The action options appear next to your cursor.</td>
</tr>
</tbody>
</table>
In the tags table, in the **Actions** column, click the ⚪️ button for the tag you want to delete.

The action buttons appear in the row.

**c. Click** ☕️ **Delete.**

<table>
<thead>
<tr>
<th>Multiple tags</th>
<th>To delete multiple tags:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>a. Click the Values tab.</strong></td>
</tr>
<tr>
<td></td>
<td>The <strong>Values</strong> tab appears, displaying a table with all the tags on your Tenable Web App Scanning instance in <strong>Category:Value</strong> format.</td>
</tr>
<tr>
<td></td>
<td><strong>b. In the tags table, select the check box for each tag you want to delete.</strong></td>
</tr>
<tr>
<td></td>
<td>The action bar appears at the top of the table.</td>
</tr>
<tr>
<td></td>
<td>**c. In the action bar, click ☕️ <strong>Delete.</strong></td>
</tr>
<tr>
<td></td>
<td><strong>-or-</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Delete all tags in a category by deleting the tag category.</strong></td>
</tr>
</tbody>
</table>

5. **Click the Values tab.**

6. **To delete one tag:**

   **a. In the tags table, roll over the tag you want to delete.**

   The action buttons appear in the row.

   **b. Click the ☕️ **Delete button.**

   A confirmation window appears.

**To delete multiple tags:**

   **a. In the tags table, select the check box for each tag you want to delete.**

   The action bar appears at the bottom of the pagetop of the table.
b. In the action bar, click the **Delete** button.

A confirmation window appears.

7. Click **Confirm**.

Tenable Web App Scanning deletes the tag and removes it from all assets where you applied the tag.
Search for Assets by Tag from the Tags Table

**Required Tenable Vulnerability Management User Role:** VM Scan Operator, VM Standard, VM Scan Manager, or Administrator

You can see which assets have a specific tag applied by searching for assets by tag.

To search for assets by tag from the tags table:

1. In the upper-left corner, click the button.
   The left navigation plane appears.

2. In the left navigation plane, click **Settings**.
   The **Settings** page appears.

3. Click the **Tagging** tile.
   The **Tags** page appears. On this page, you can view your asset tag categories and values.
   The **Categories** tab is active.

4. Click the **Values** tab.

5. In the table, click the button.
   The actions menu appears.

6. Click **Search by Tag**.
   The **Assets** page appears and displays the assets table filtered by the tag you selected.
Cloud Sensors

By default, Tenable provides regional cloud sensors for use in Tenable Web App Scanning. You can select these sensors when you create and launch scans.

The following table identifies each regional cloud sensor and, for allow list purposes, its IP address ranges. These IP address ranges are exclusive to Tenable.

Tenable Web App Scanning

<table>
<thead>
<tr>
<th>Sensor Region</th>
<th>IPv4 Range</th>
<th>IPv6 Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>ap-northeast-1</td>
<td>13.115.104.128/25</td>
<td>2406:da14:e76:5b00::/56</td>
</tr>
<tr>
<td></td>
<td>35.73.219.128/25</td>
<td></td>
</tr>
</tbody>
</table>

**Note:** If you use cloud connectors, Tenable recommends allowing the IP addresses for the region in which the site resides.

**Note:** While these IP addresses are for outbound requests, they are also used for inbound cloud.tenable.com requests.

**Tip:** The cloud sensor and IP address information contained in the table below is also provided in JSON format for users that want to parse the data programmatically.

For Cloud IPs associated with Tenable Attack Surface Management, see Cloud Sensors in the Tenable Attack Surface Management User Guide.
<table>
<thead>
<tr>
<th>Sensor Region</th>
<th>IPv4 Range</th>
<th>IPv6 Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>ap-southeast-1</td>
<td>13.213.79.0/24</td>
<td>2406:da18:844:7100::/56</td>
</tr>
<tr>
<td></td>
<td>18.139.204.0/25</td>
<td></td>
</tr>
<tr>
<td></td>
<td>54.255.254.0/26</td>
<td></td>
</tr>
<tr>
<td>ap-southeast-2</td>
<td>13.210.1.64/26</td>
<td>2406:da1c:20f:2f00::/56</td>
</tr>
<tr>
<td></td>
<td>3.106.118.128/25</td>
<td></td>
</tr>
<tr>
<td></td>
<td>3.26.100.0/24</td>
<td></td>
</tr>
<tr>
<td>ap-south-1</td>
<td>3.108.37.0/24</td>
<td>2406:da1a:5b2:8500::/56</td>
</tr>
<tr>
<td>ca-central-1</td>
<td>3.98.92.0/25</td>
<td>2600:1f11:622:3000::/56</td>
</tr>
<tr>
<td></td>
<td>35.182.14.64/26</td>
<td></td>
</tr>
<tr>
<td>eu-west-1</td>
<td>3.251.224.0/24</td>
<td>2a05:d018:f53:4100::/56</td>
</tr>
<tr>
<td>eu-west-2</td>
<td>18.168.180.128/25</td>
<td>2a05:d01c:da5:e800::/56</td>
</tr>
<tr>
<td></td>
<td>18.168.224.128/25</td>
<td></td>
</tr>
<tr>
<td></td>
<td>3.9.159.128/25</td>
<td></td>
</tr>
<tr>
<td></td>
<td>35.177.219.0/26</td>
<td></td>
</tr>
<tr>
<td>eu-central-1</td>
<td>18.194.95.64/26</td>
<td>2a05:d014:532:b00::/56</td>
</tr>
<tr>
<td></td>
<td>3.124.123.128/25</td>
<td></td>
</tr>
<tr>
<td></td>
<td>3.67.7.128/25</td>
<td></td>
</tr>
<tr>
<td></td>
<td>54.93.254.128/26</td>
<td></td>
</tr>
<tr>
<td>us-east-1</td>
<td>34.201.223.128/25</td>
<td>2600:1f18:614c:8000::/56</td>
</tr>
<tr>
<td></td>
<td>44.192.244.0/24</td>
<td></td>
</tr>
<tr>
<td></td>
<td>54.175.125.192/26</td>
<td></td>
</tr>
<tr>
<td>us-east-2</td>
<td>13.59.252.0/25</td>
<td>2600:1f16:8ca:e900::/56</td>
</tr>
<tr>
<td></td>
<td>18.116.198.0/24</td>
<td></td>
</tr>
<tr>
<td></td>
<td>3.132.217.0/25</td>
<td></td>
</tr>
<tr>
<td>us-west-1</td>
<td>13.56.21.128/25</td>
<td>2600:1f1c:13e:9e00::/56</td>
</tr>
<tr>
<td></td>
<td>3.101.175.0/25</td>
<td></td>
</tr>
<tr>
<td></td>
<td>54.219.188.128/26</td>
<td></td>
</tr>
<tr>
<td>us-west-2</td>
<td>34.223.64.0/25</td>
<td>2600:1f14:141:7b00::/56</td>
</tr>
</tbody>
</table>

- 410 -
<table>
<thead>
<tr>
<th>Sensor Region</th>
<th>IPv4 Range</th>
<th>IPv6 Range</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>35.82.51.128/25</td>
<td></td>
</tr>
<tr>
<td></td>
<td>35.86.126.0/24</td>
<td></td>
</tr>
<tr>
<td></td>
<td>44.242.181.128/25</td>
<td></td>
</tr>
<tr>
<td>sa-east-1</td>
<td>15.228.125.0/24</td>
<td>2600:1f1e:9a:ba00::/56</td>
</tr>
<tr>
<td>static</td>
<td>162.159.129.83/32</td>
<td>2606:4700:7::a29f:8153</td>
</tr>
<tr>
<td></td>
<td>162.159.130.83/32</td>
<td>2606:4700:7::a29f:8253</td>
</tr>
</tbody>
</table>

**Tip:** Add the following for internal scanner or agent communications:

- 162.159.129.83/32
- 162.159.130.83/32
- 162.159.140.26/32
- 172.66.0.26/32
- 2606:4700:7::1a
- 2a06:98c1:58::1a
- 2606:4700:7::a29f:8153
- 2606:4700:7::a29f:8253
- *.cloud.tenable.com with the wildcard character (*) to allow cloud.tenable.com and all subdomains, such as sensor.cloud.tenable.com

**Note:** For troubleshooting Tenable Web App Scanning issues with Tenable Support, you may be asked to add the following IP range to your allow list:

- 13.59.250.76/32

Regional cloud sensors appear in the following groups:

- **US East Cloud Scanners:** A group of scanners from the us-east-1 (Virginia) or the us-east-2 (Ohio) ranges.

- **US West Cloud Scanners:** A group of scanners from the us-west-1 (California) or the us-west-2 (Oregon) ranges.
• **AP Singapore Cloud Scanners**: A group of scanners from the ap-southeast-1 (Singapore) range.

• **AP Sydney Cloud Scanners**: A group of scanners from the ap-southeast-2 (Sydney) range.

• **AP Tokyo Cloud Scanners**: A group of scanners from the ap-northeast-1 (Tokyo) range.

• **CA Central Cloud Scanners**: A group of scanners from the ca-central-1 (Canada) range.

• **EU Frankfurt Cloud Scanners**: A group of scanners from the eu-central-1 (Frankfurt) range.

• **UK Cloud Scanners**: A group of scanners from the eu-west-2 (London) range.

• **Brazil Cloud Scanners**: A group of scanners from the sa-east-1 (São Paulo) range.

• **India Cloud Scanners**: A group of scanners from the ap-south-1 (Mumbai) range.

• **Amazon GOV-CLOUD**: A group of scanners available for Federal Risk and Authorization Management Program (FedRAMP) environments.

• **US Cloud Scanner**: A group of scanners from the following AWS ranges:
  - us-east-1 (Virginia)
  - us-east-2 (Ohio)
  - us-west-1 (California)
  - us-west-2 (Oregon)

• **APAC Cloud Scanners**: A group of scanners from the following AWS ranges:
  - ap-northeast-1 (Tokyo)
  - ap-southeast-1 (Singapore)
  - ap-southeast-2 (Sydney)
  - ap-south-1 (Mumbai)

• **EMEA Cloud Scanners**: A group of scanners from the following AWS ranges:
  - eu-west-1 (Ireland)
  - eu-west-2 (London)
  - eu-central-1 (Frankfurt)
**Note:** If you are connecting to Tenable Vulnerability Management through Tenable Nessus scanners, Tenable Nessus Agents, Tenable Web App Scanning scanners, or Tenable Nessus Network Monitors (NNM) located in mainland China, you must connect through `sensor.cloud.tenablecloud.cn` instead of `sensor.cloud.tenable.com`. 
Credentials

**Note:** This section describes creating and maintaining managed credentials. For more information about scan-specific or policy-specific credentials, see [Credentials in Tenable Vulnerability Management Scans](#) or [Credentials in Tenable Web App Scanning Scans](#).

Managed credentials allow you to store credential settings centrally in a credential manager. You can then add those credential settings to multiple scan configurations instead of configuring credential settings for each individual scan.

You and users to whom you grant permissions can use managed credentials in scans. Credential user permissions control which users can use and edit managed credentials.
Create a Managed Credential

**Required Tenable Vulnerability Management User Role:** Basic, VM Scan Operator, VM Standard, VM Scan Manager, or Administrator

**Required Tenable Web App Scanning User Role:** Basic, Scan Operator, Standard, Scan Manager, or Administrator

This topic describes creating a managed credential in the Tenable Web App Scanning credential manager.

You can also create a managed credential during scan configuration, as well as convert a scan-specific credential to a managed credential. For more information, see [Add a Credential to a Scan (Tenable Vulnerability Management)](add-a-credential-to-a-scan-tenable-vulnerability-management) or [Configure Credentials Settings in Tenable Web App Scanning](configure-credentials-settings-in-tenable-web-app-scanning).

To create a managed credential:

1. In the upper-left corner, click the button.
   
The left navigation plane appears.

2. In the left navigation plane, click **Settings**.
   
The **Settings** page appears.

3. Click the **Credentials** tile.
   
The **Credentials** page appears. The credentials table lists the managed credentials you have permission to view.

4. In the upper-right corner of the page, click the **Create Credential** button.
   
The **Select Credential Type** plane appears.
5. Do one of the following:

- Select one of the available credential types.
- Click on a credential type in the category sections.

The credential settings appear.

6. In the **Title** box, type a name for the credential.
7. (Optional) In the **Description** box, type a description for the credential.

8. Configure the settings for the credential type you selected.

   For more information about credential settings, see [Credentials (Tenable Vulnerability Management)](Tenable_Vulnerability_Management) or [Credentials (Tenable Web App Scanning)](Tenable_Web_App_Scanning).

9. **Add user permissions**.

10. Click **Save**.

    Tenable Web App Scanning adds the credential to the credentials table in the **Credentials** page.
Edit a Managed Credential

**Required Tenable Vulnerability Management User Role**: Basic, VM Scan Operator, VM Standard, VM Scan Manager, or Administrator

**Required Tenable Web App Scanning User Role**: Basic, Scan Operator, Standard, Scan Manager, or Administrator

This topic describes editing a credential in the Tenable Vulnerability Management credential manager.

You can also edit managed credentials during scan configuration. For more information, see Add a Credential to a Scan for Tenable Vulnerability Management or Configure Credentials Settings in a Tenable Web App Scanning Scan for Tenable Web App Scanning.

You can edit any credentials where you have Can Edit permission.

To edit managed credentials:

1. In the upper-left corner, click the button.
   The left navigation plane appears.

2. In the left navigation plane, click **Settings**.
   The **Settings** page appears.

3. Click the **Credentials** tile.
   The **Credentials** page appears. The credentials table lists the managed credentials you have permission to view.

4. Filter or search the credentials table for the credential you want to edit. For more information, see Tenable Web App Scanning Tables.

5. In the credentials table, click the name of the credential you want to edit.
   The credential settings plane appears.
6. Do one of the following:

   • Edit the credential name or description.
      a. Roll over the name or description box.
      b. Click the ✍️ button that appears next to the box.
      c. Make your changes.
      d. Click the ✔️ button at the lower right corner of the box to save your changes.

   • Edit the settings for the credential type. For more information about these settings, see [Credentials (Tenable Vulnerability Management)](#) or [Credentials (Tenable Web App Scanning)](#).

   • Configure user permissions for the credential.

7. Click Save.
Configure User Permissions for a Managed Credential

**Required Tenable Vulnerability Management User Role:** Basic, VM Scan Operator, VM Standard, VM Scan Manager, or Administrator

**Required Tenable Web App Scanning User Role:** Basic, Scan Operator, Standard, Scan Manager, or Administrator

You configure user permissions for a managed credential separately from the permissions you configure for the scans where you use the credential.

You can configure credential permissions for individual users or a user group. If you configure credential permissions for a group, you assign all users in that group the same permissions. You may want to create the equivalent of a credential manager role by creating a group for the users you want to manage credentials. For more information, see User Groups.

If you create a managed credential, Tenable Web App Scanning automatically assigns you **Can Edit** permissions.

To configure user permissions for a managed credential:

1. Create or edit a managed credential:

<table>
<thead>
<tr>
<th>Location</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>In the credential manager</td>
<td>create or edit</td>
</tr>
<tr>
<td>In a scan configuration</td>
<td>create or edit</td>
</tr>
</tbody>
</table>

2. Do one of the following:

- **Add permissions for a user or user group.**

  **Tip:** Tenable recommends assigning permissions to user groups, rather than individual users, to minimize maintenance as individual users leave or join your organization.

  a. In the credential settings plane, click the **User Permissions** title.

     The **Add User Permission** settings appear.
b. In the search box, type the name of a user or group.

As you type, a filtered list of users and groups appears.

c. Select a user or group from the search results.

d. Click the button next to the permission drop-down for the user or group.

e. Select a permission level:

   • **Can Use** — The user can view the credential in the managed credentials table and use the credential in scans.

   • **Can Edit** — The user can view and edit credential settings, delete the credential, and use the credential in scans.

f. Click **Add**.

g. Click **Save**.

• **Edit permissions for a user or user group.**

   a. In the **User Permissions** section of the credential settings plane, click the button next to the permission drop-down for the user or group.

   b. Select a permission level:

      • **Can Use** — The user can view the credential in the managed credentials table and use the credential in scans.

      • **Can Edit** — The user can view and edit credential settings, delete the credential, and use the credential in scans.

   c. Click **Save**.

• **Delete permissions for a user or user group.**

   a. In the **User Permissions** section of the credential settings plane, roll over the user or group you want to delete.

   b. Click the button next to the user or user group.

   The user or group is removed from the **User Permissions** list.
c. Click **Save**.
Export Credentials

**Required User Role:** Administrator

On the **Credentials** page, you can export the data for one or more managed credentials.

**Note:** When you export credential data, authentication details such as usernames, passwords, or keys are not included in the export.

To export credential data:

1. In the upper-left corner, click the **button.**

   The left navigation plane appears.

2. In the left navigation plane, click **Settings**.

   The **Settings** page appears.

3. Click the **Credentials** tile.

   The **Credentials** page appears. The credentials table lists the managed credentials you have permission to view.

4. (Optional) Refine the table data. For more information, see [Tenable Web App Scanning Workbench Tables](#).

5. Select the credentials that you want to export:

<table>
<thead>
<tr>
<th>Export Scope</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Selected credentials</td>
<td>To export selected credentials:</td>
</tr>
<tr>
<td></td>
<td>a. In the credentials table, select the check box for each credential you want to export.</td>
</tr>
<tr>
<td></td>
<td>The action bar appears at the top of the table.</td>
</tr>
<tr>
<td></td>
<td>b. In the action bar, click <strong>Export</strong>.</td>
</tr>
</tbody>
</table>

**Note:** The **Export** link is available for up to 200 selections. If you...
want to export more than 200 credentials, select all the credentials in the list and then click [⇒ Export].

A single credential

To export a single credential:

a. In the credentials table, right-click the row for the credential you want to export.

The action options appear next to your cursor.

-or-

In the credentials table, in the Actions column, click the button in the row for the credential you want to export.

The action buttons appear in the row.

b. Click [⇒ Export].

The Export plane appears. This plane contains:

- A text box to configure the export file name.
- A list of available export formats.
- A table of configuration options for fields to include in the exported file.

**Note:** By default, all fields are selected.

- A text box to set the number of days before the export expires.
- A toggle to configure the export schedule.
- A toggle to configure the email notification.

6. In the Name box, type a name for the export file.

7. Click the export format you want to use:

<table>
<thead>
<tr>
<th>Format</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSV</td>
<td>A CSV text file that contains a list of credentials.</td>
</tr>
</tbody>
</table>
Note: If your .csv export file includes a cell that begins with any of the following characters (=, +, -, @), Tenable Web App Scanning automatically inputs a single quote (‘) at the beginning of the cell. For more information, see the related knowledge base article.

| JSON     | A JSON file that contains a nested list of credentials. Empty fields are not included in the JSON file. |


9. In the **Expiration** box, type the number of days before the export file expires.

Note: Tenable Web App Scanning allows you to set a maximum of 30 calendar days for export expiration.

10. (Optional) To set a schedule for your export to repeat:

- Click the **Schedule** toggle.
  
The **Schedule** section appears.

- In the **Start Date and Time** section, select the date and time on which you want the export schedule to start.

- In the **Time Zone** drop-down box, select the time zone to which you want the schedule to adhere.

- In the **Repeat** drop-down box, select how often you want the export to repeat.

- In the **Repeat Ends** drop-down, select the date on which you want the schedule to end.

Note: If you select never, the schedule repeats until you modify or delete the export schedule.

11. (Optional) To send email notifications on completion of the export:

Note: You can enable email notifications with or without scheduling exports.

- Click the **Email Notification** toggle.

  The **Email Notification** section appears.
- In the **Add Recipients** box, type the email addresses to which you want to send the export notification.

- (Required) In the **Password** box, type a password for the export file. You must share this password with the recipients to allow them to download the file.

  **Note:** Tenable Web App Scanning sends an email to the recipients and from the link in the email, the recipients can download the file by providing the correct password.

12. Click **Export**.

   Tenable Web App Scanning begins processing the export. Depending on the size of the exported data, Tenable Web App Scanning may take several minutes to process the export.

   When processing completes, Tenable Web App Scanning downloads the export file to your computer. Depending on your browser settings, your browser may notify you that the download is complete.

13. Access the export file via your browser’s downloads directory. If you close the export plane before the download finishes, then you can access your export file from the **Exports** page.
Delete a Managed Credential

**Required Tenable Vulnerability Management User Role:** Basic, VM Scan Operator, VM Standard, VM Scan Manager, or Administrator

**Required Tenable Web App Scanning User Role:** Basic, Scan Operator, Standard, Scan Manager, or Administrator

You can delete any credentials where you have Can Edit permission.

To delete a managed credential:

1. In the upper-left corner, click the button.
   The left navigation plane appears.

2. In the left navigation plane, click **Settings**.
   The **Settings** page appears.

3. Click the **Credentials** tile.
   The **Credentials** page appears. The credentials table lists the managed credentials you have permission to view.

4. Filter or search the credentials table for the credential you want to delete. For more information, see **Tenable Web App Scanning Tables**.

5. In the table, roll over the credential you want to delete.
   The action buttons appear in the row.

6. Click the button.
   The **Confirm Deletion** window appears.

7. Do one of the following:
   - If no scans use the credential, click **Delete**.
   - If any scans use the credential:
a. Click **View Scans**.

The **Scans** plane appears.

b. Filter or search for scans that use the credential.

c. Do one of the following:

   - Click **Cancel** to cancel the deletion.
   - Click **Delete** to confirm the deletion.