Tenable Attack Surface Management User Guide

Last Revised: April 04, 2024

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Welcome to Tenable Attack Surface Management

Tenable Attack Surface Management (formerly known as Tenable.asm) is a web-based inventory tool that you can use to identify internet-accessible assets that may or may not be known to your organization. Tenable Attack Surface Management identifies assets using DNS records, IP addresses, and ASN, and includes more than 180 columns of metadata to help you organize and inventory your assets.

Before you begin, review the following customer education materials:

- Tenable Attack Surface Management Self Help Guide
- Tenable Attack Surface Management Introduction (Tenable University)

> **Note:** Tenable Attack Surface Management can be purchased alone or as part of the **Tenable One Enterprise Edition** package. For more information, see Tenable One.

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

Tenable Attack Surface Management exists as a standalone product, or can be purchased as part of the Tenable One Exposure Management platform (Enterprise Edition only).

> **Tip:** For additional information on getting started with Tenable One products, check out the Tenable One Deployment Guide.

Getting Started with Tenable Attack Surface Management

Use the following steps to get started with Tenable Attack Surface Management:

1. Log in to Tenable Attack Surface Management
2. Create Your First Inventory
3. Add Users to Tenable Attack Surface Management
4. Filter Your Assets
5. Create Subscriptions
6. Set Up Notifications

Tip: For additional information on Tenable Attack Surface Management, review the following customer education materials:

- Tenable Attack Surface Management Self Help Guide
- Tenable Attack Surface Management Introduction (Tenable University)

Log in to Tenable Attack Surface Management

To log in to Tenable Attack Surface Management:

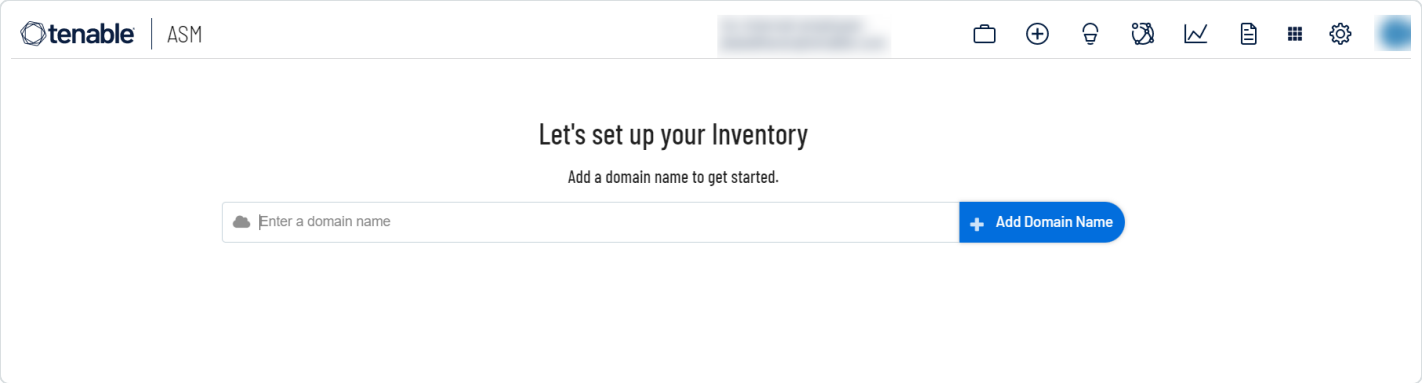
1. In a supported browser, navigate to https://cloud.tenable.com/. The login page appears.
2. Type your **Username** and **Password** credentials.
3. Click **Sign In**.

   The **Workspace** page appears.
4. Click the Tenable Attack Surface Management tile.

   The Tenable Attack Surface Management interface appears, where you can identify internet-accessible assets that may or may not be known to your organization.

Create Your First Inventory

When you log in to Tenable Attack Surface Management for the first time, you can see the **Let's set up your Inventory** page. Type your organization's domain name and click the **+ Add Domain Name** button. Tenable Attack Surface Management starts discovering subdomains and creating your inventory.



If you entered wikipedia.org as your main domain name, you can see the following inventory:

Your Inventory

Team: Lex

Total Assets	Domains	Subdomains
1,058	1	666

+ Add filter

1-25 of 1,058

Search

Sort by **Asset Count - High to Low** Select All

1. wikipedia.org
1,058 assets

wikipedia.org

Host	Record Type	IP	Ports	Screenshot
bo.wikipedia.org	CNAME	198.35.26.96	80, 4	
to.m.wikipedia.org	CNAME	198.35.26.96	80, 4	
hu.wikipedia.org	CNAME	91.198.174.192	80, 4	
el.wikipedia.org	CNAME	198.35.26.96	80, 4	
ff.wikipedia.org	CNAME	198.35.26.96	80, 4	
pa.m.wikipedia.org	CNAME	198.35.26.96	80, 4	
ltg.wikipedia.org	CNAME	91.198.174.192	80, 4	
pms.m.wikipedia.org	CNAME	198.35.26.96	80, 4	
rue.m.wikipedia.org	CNAME	91.198.174.192	80, 4	
krc.m.wikipedia.org	CNAME	198.35.26.96	80, 4	

Add Users to Tenable Attack Surface Management

To add users to Tenable Attack Surface Management, you must first create users in Tenable Vulnerability Management.

For information about creating users in Tenable Vulnerability Management, follow the instructions in Create a User Account in the *Tenable Vulnerability Management User Guide*.

(**Business Admins** only) You can modify user roles and add inventories for users in the Tenable Attack Surface Management administrator interface.

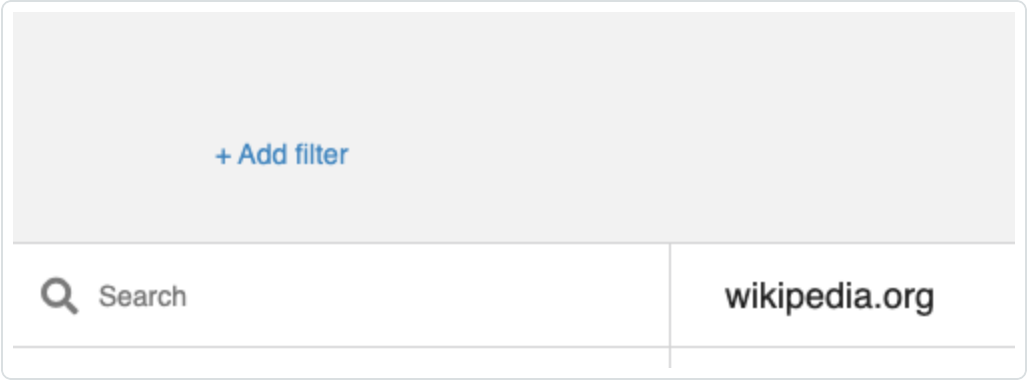
For more information, see Edit User Account Details and Edit Inventory Details.

Filter Your Assets

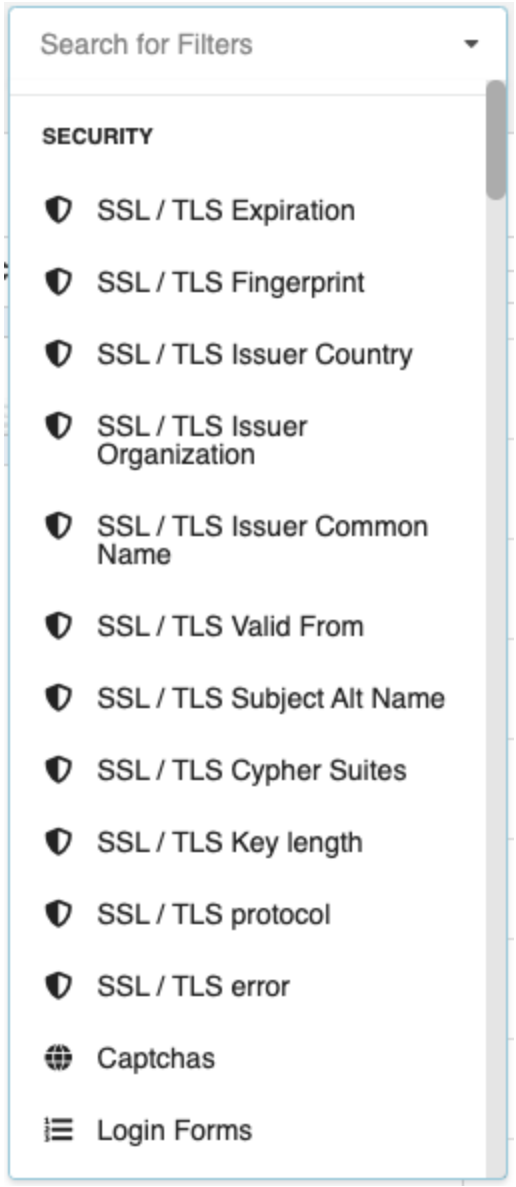
Tenable Attack Surface Management uses filters to provide powerful inventory search capabilities. Filters allow you to view specific subsets of assets in your inventory.

To apply a filter:

1. Above the search box, click **+ Add filter**.



   A drop-down menu appears with a list of filters:



2. Select the filter you want to use.

   A list of operators appears. This list varies based on the filter you select.

3. If the operator requires a value, type that value in the text box.

   In this example, Filter = **SSL/TLS Expiration**, Operator = **expires in**, and Value =**30**.

4. Click **Done**.

   Your inventory displays only assets matching the filter criteria.

In this example, your inventory displays only assets with a TLS certificate that expires within the next 30 days. The SSL/TLS Expiration column also appears.

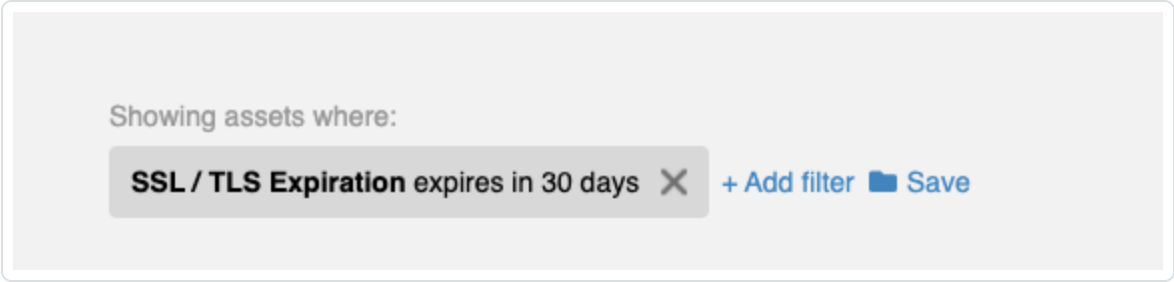
Create Subscriptions

You can save one or more filters as a **Subscription**. Tenable Attack Surface Management updates subscriptions automatically and these contain only the assets that match the applied filters.

For example, if you want to know which assets have TLS certificates that expire within the next 30 days, you can create a **Subscription** to refer the filter quickly.

To create a **Subscription**:

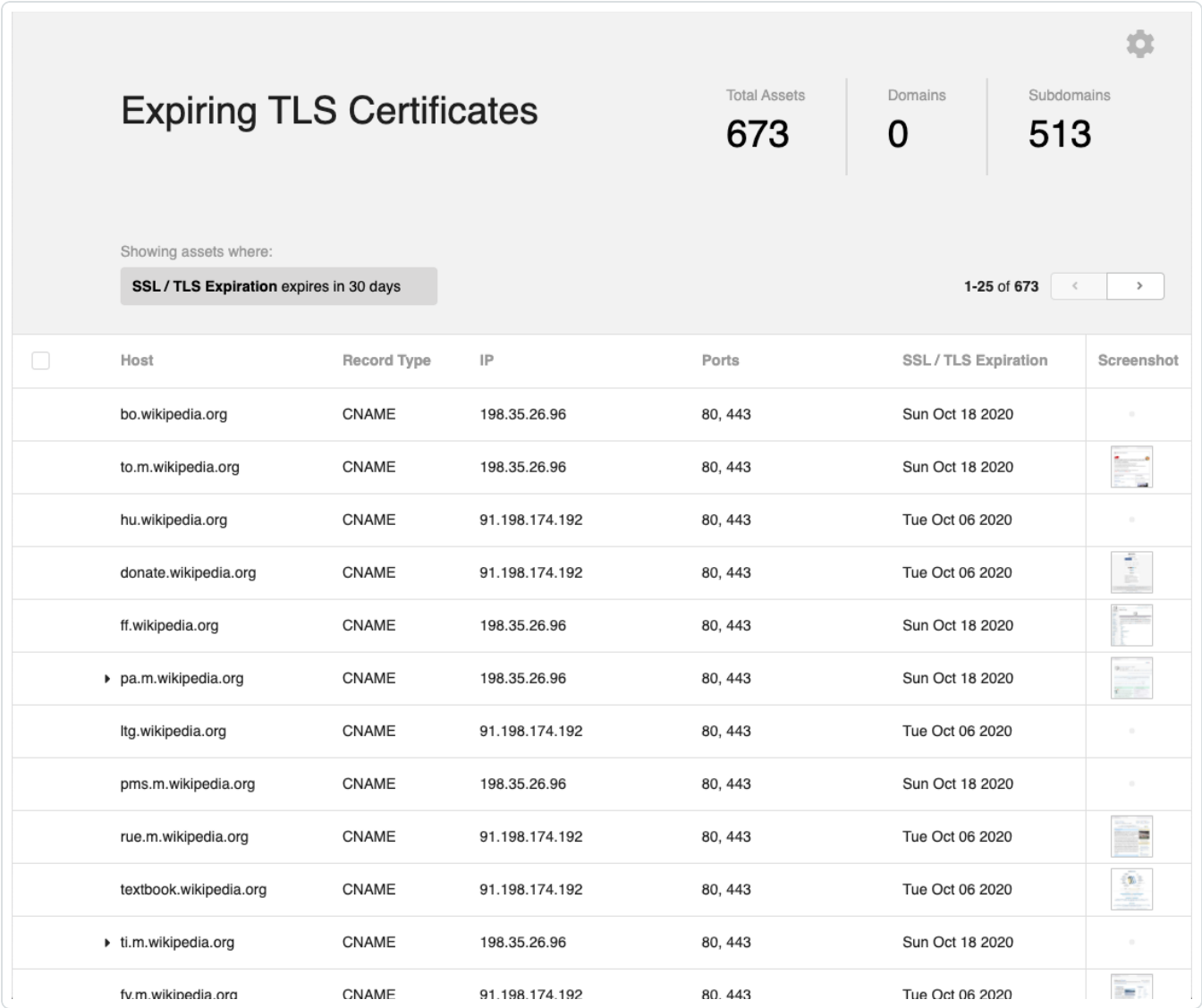
1. Apply one or more filters to your assets.
2. To the right of the applied filter, click **Save**.

   The **Create Subscription** window appears.
3. In the **Subscription name** box, type a name for the subscription.
4. Click **Create Subscription**.

   A confirmation window appears with a link to the newly created subscription.
5. Click the link in the confirmation window.

Your subscription appears with a list of assets that match the applied filter.



Expiring TLS Certificates

Total Assets	Domains	Subdomains
673	0	513

Showing assets where:

SSL / TLS Expiration expires in 30 days

1-25 of **673**

Host	Record Type	IP	Ports	SSL / TLS Expiration	Screenshot
bo.wikipedia.org	CNAME	198.35.26.96	80, 443	Sun Oct 18 2020	
to.m.wikipedia.org	CNAME	198.35.26.96	80, 443	Sun Oct 18 2020	
hu.wikipedia.org	CNAME	91.198.174.192	80, 443	Tue Oct 06 2020	
donate.wikipedia.org	CNAME	91.198.174.192	80, 443	Tue Oct 06 2020	
ff.wikipedia.org	CNAME	198.35.26.96	80, 443	Sun Oct 18 2020	
pa.m.wikipedia.org	CNAME	198.35.26.96	80, 443	Sun Oct 18 2020	
ltg.wikipedia.org	CNAME	91.198.174.192	80, 443	Tue Oct 06 2020	
pms.m.wikipedia.org	CNAME	198.35.26.96	80, 443	Sun Oct 18 2020	
rue.m.wikipedia.org	CNAME	91.198.174.192	80, 443	Tue Oct 06 2020	
textbook.wikipedia.org	CNAME	91.198.174.192	80, 443	Tue Oct 06 2020	
ti.m.wikipedia.org	CNAME	198.35.26.96	80, 443	Sun Oct 18 2020	
fv.m.wikipedia.org	CNAME	91.198.174.192	80, 443	Tue Oct 06 2020	

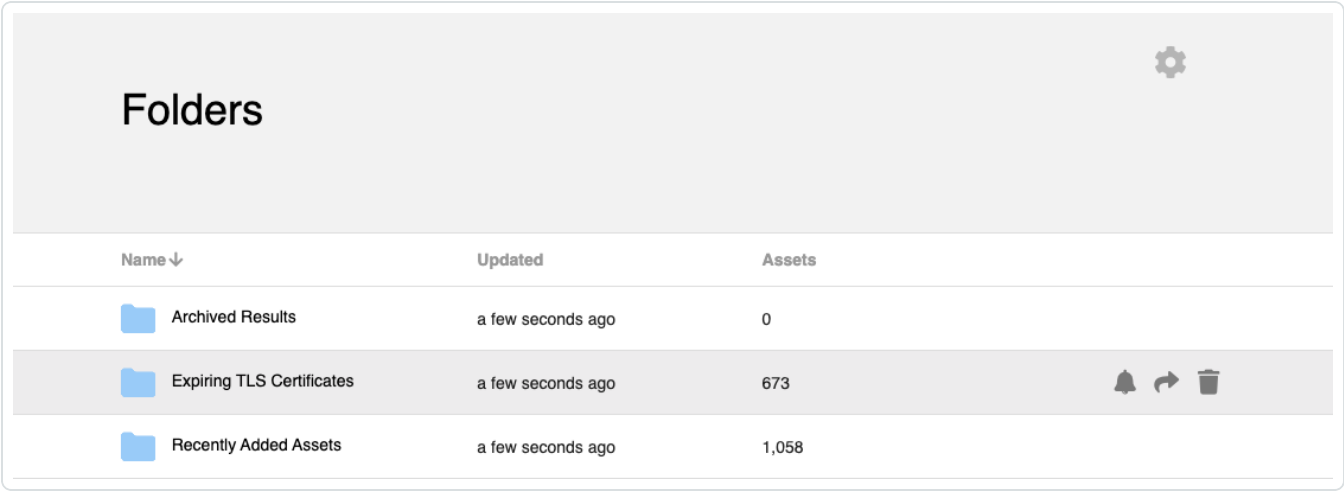
To see a list of all your subscriptions click the icon in the top navigation bar.

Set Up Notifications

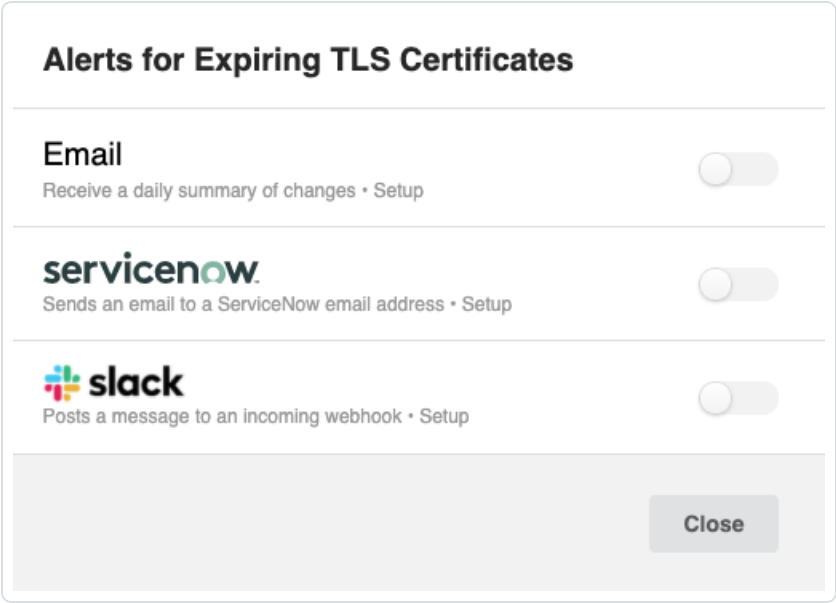
If certain aspects of your inventory change, Tenable Attack Surface Management provides a notification system that can email you, send you a Slack message, or communicate though ServiceNow.

For example, you can receive an email notification when an asset has a TLS certificate that expires soon by using the **Subscription** that you created previously.

1. Hover over the row that contains your *Expiring TLS Certificates* subscription, and click the bell icon:



The following window appears:



2. To enable email notifications, click the **Email** toggle.
3. Type your email address and press **Save**.

   Tenable Attack Surface Management now sends daily emails that give you a list of assets that have a TLS certificate expiring in 30 days.

Tenable Attack Surface Management Licensing

This topic breaks down the licensing process for Tenable Attack Surface Management as a standalone product. It also explains how assets are counted and describes what happens during license overages or expirations. To learn how to use Tenable Attack Surface Management, see the Tenable Attack Surface Management User Guide.

Tenable Attack Surface Management Versions

You can purchase Tenable Attack Surface Management in two versions:

- **Tenable Attack Surface Management Fortnightly Frequency**
- **Tenable Attack Surface Management Daily Frequency**

Licensing Tenable Attack Surface Management

To use any version of Tenable Attack Surface Management, you purchase licenses based on your organizational needs and environmental details. Tenable Attack Surface Management then assigns those licenses to your *assets*: observable objects, which include domain names, subdomains, or IP addresses for internet-connected or internal network devices.

> **Tip**: An observable object is a unique quadruple of DNS record name, DNS record type, DNS record value, and IP address.

When your environment expands, so does your asset count, so you purchase more licenses to account for the change. Tenable licenses use progressive pricing, so the more you purchase, the lower the per-unit price. For prices, contact your Tenable representative.

> **Note**: Tenable offers simplified pricing to managed security service providers (MSSPs). To learn more, contact your Tenable representative.

> **Note**: When you purchase a Tenable Attack Surface Management license, inventory is set to 10% of the purchase limit by default. You can increase this limit on the **Inventory Settings** page. For more information, see Inventory Settings.

How Assets are Counted

All assets in all inventories are counted towards your license, except archived assets.

Reclaiming Licenses

Tenable Attack Surface Management's license count updates daily. The license count updates when you archive individual assets or remove asset sources—and it also updates when assets age out. Removed assets are only counted when restored.

> **Note**: By default, Tenable Attack Surface Management watches a non-responsive asset for 60 days before removing it from the inventory. To customize this number, contact Tenable support.

Exceeding the License Limit

In Tenable Attack Surface Management, when your asset count exceeds your license limit, Tenable clearly communicates the overage as follows.

Scenario	Result
You add a source that is greater than your inventory limit.	A message appears in the Source column: *"We could not add all of the subdomains for this domain because your inventory is full."*
You reach your inventory asset limit.	When you click the inventory, a message appears: *"You have reached your limit of # assets. Please contact us to increase your limit."*
You reach your business limit, which is related to your licensed asset purchase.	A message appears in Tenable Attack Surface Management: *"Business Asset limit reached. Please contact support to increase the Business Asset limit."*

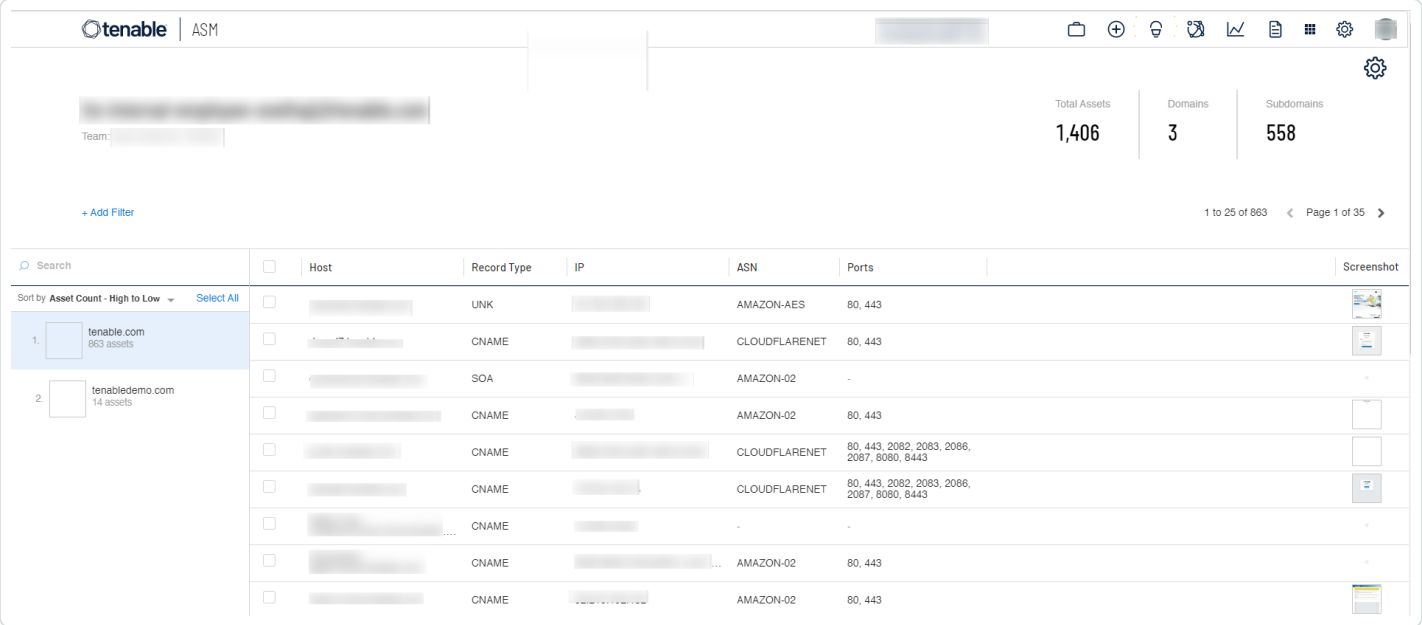
Expired Licenses

The Tenable Attack Surface Management licenses you purchase are valid for the length of your contract. 30 days before your license expires, a warning appears in the user interface. During this renewal period, work with your Tenable representative to add or remove products or change your license count.

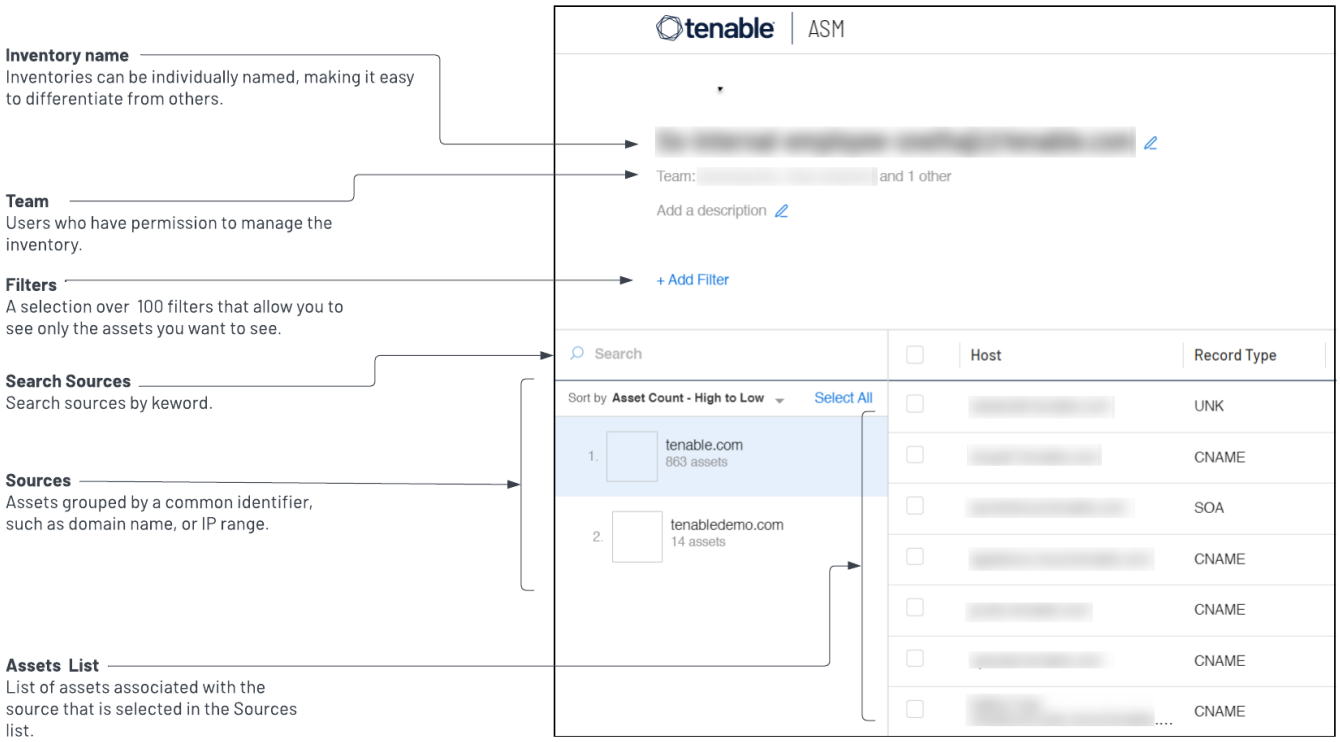
After your license expires, you can no longer sign in to the Tenable platform.

Navigate Tenable Attack Surface Management

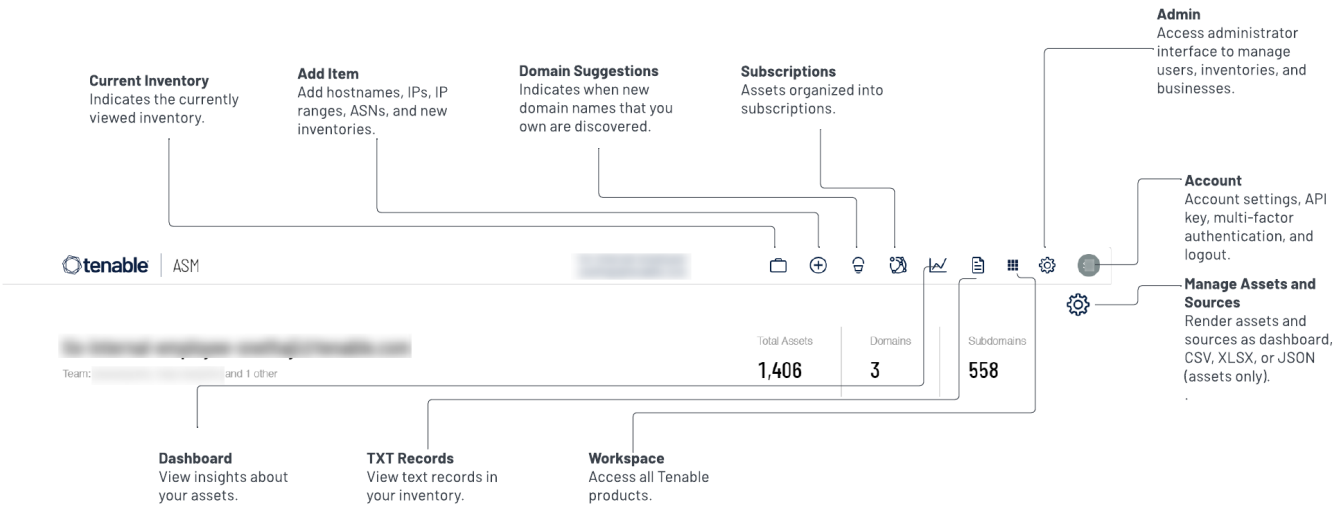
Your inventory page is the top-level view of your assets. The following images give you a closer look at what each of the items in this interface are.



Left Navigation



Top Navigation



Access the Workspace

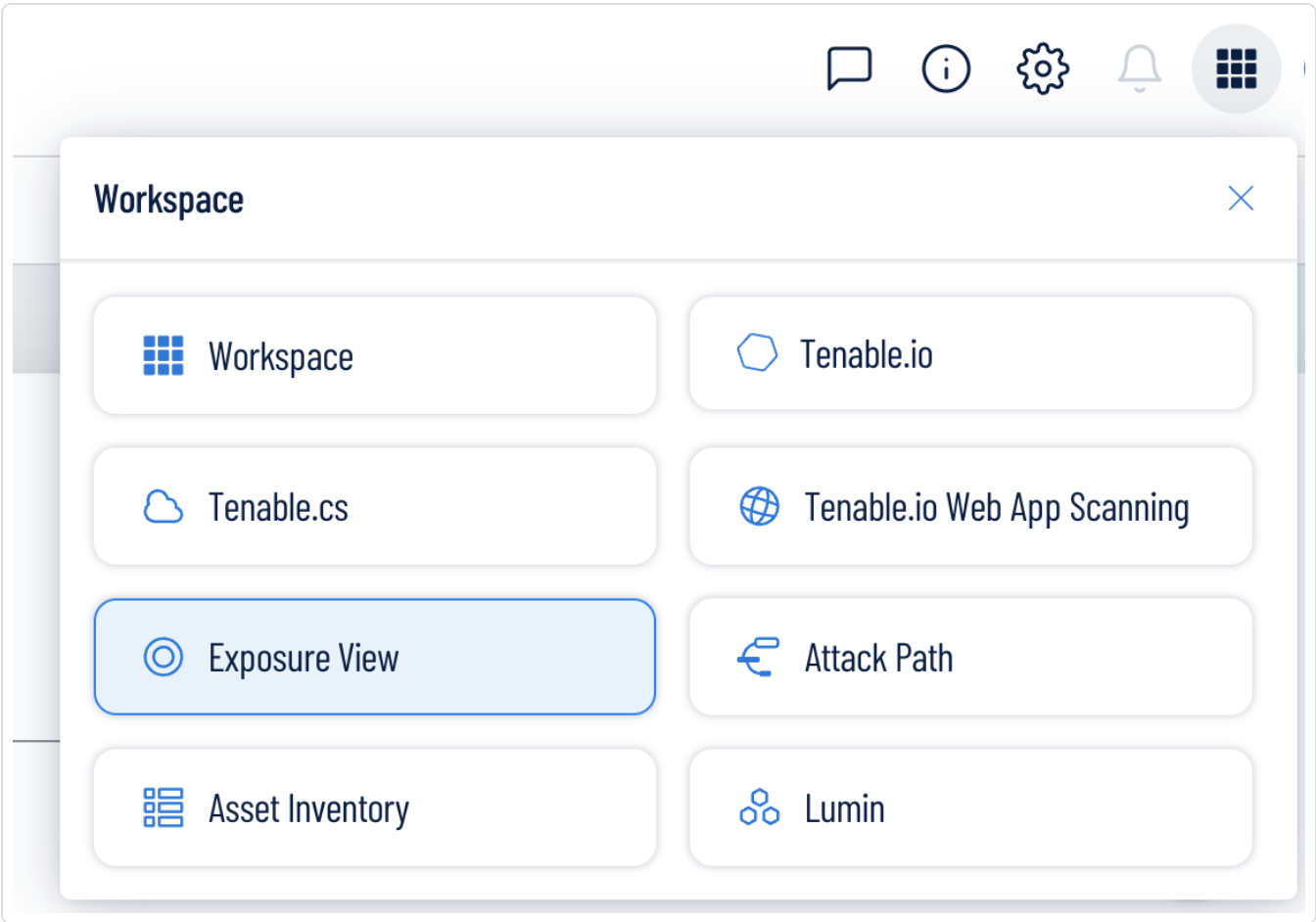
When you log in to Tenable, the **Workspace** page appears by default. On the **Workspace** page, you can switch between your Tenable applications or set a default application to skip the **Workspace** page in the future. You can also switch between your applications from the **Workspace** menu, which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

   The **Workspace** menu appears.



2. Click an application tile to open it.

View the Workspace Page

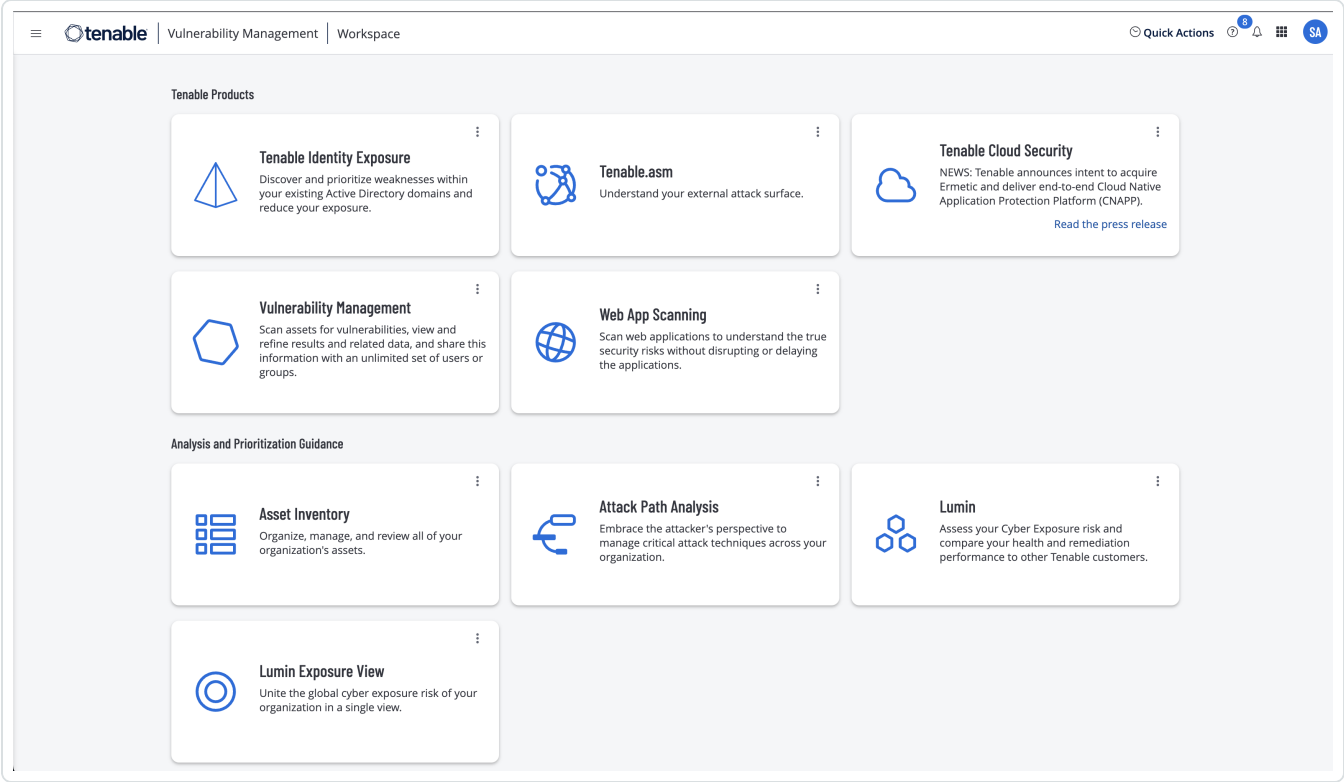
To view the Workspace page:

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.



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.

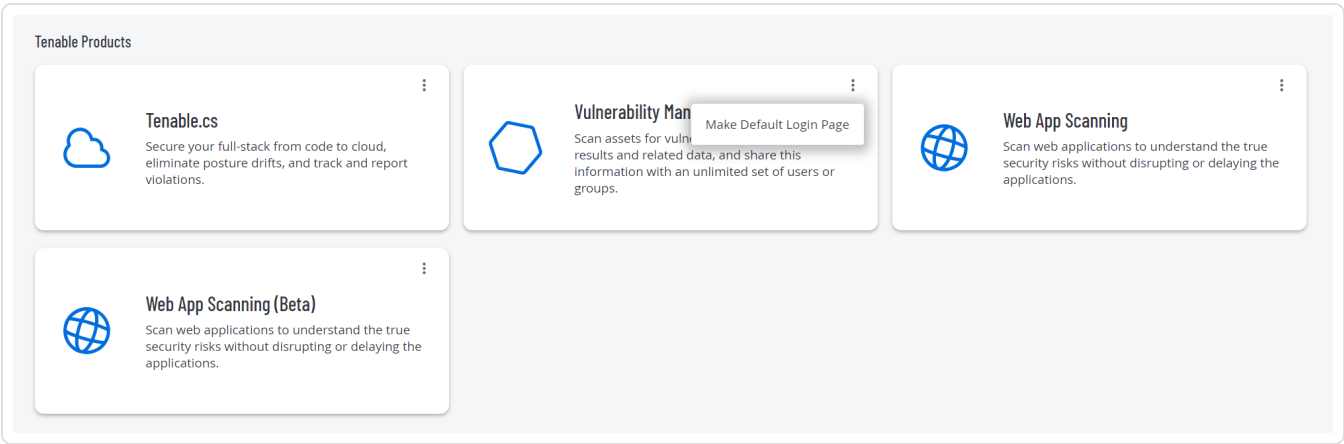
To set a default login application:

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.

Attack Surface Management FAQ

What is an attack surface?

An attack surface comes from the network perspective of an adversary, the complete external asset inventory of an organization including all actively listening services (open ports) on each asset.

What is Attack Surface Mapping?

Attack Surface Mapping is the process of discovering and documenting the complete attack surface of an organization. An Attack Surface Map includes the hostnames and IP addresses of each externally facing asset, the listening ports on each, and as much meta-data about each asset as possible. Meta data may include software distribution and version information, IP geolocation, TLS stack information, and so on.

What types of things does Tenable Attack Surface Management help map?

Tenable Attack Surface Management automatically discovers all domain names, hostnames, and IP address for each asset in an organization's attack surface map. Tenable Attack Surface Management may collect over 120 columns of data about each asset. These assets may be located on-premises, in the cloud, hosted services, and more.

What is considered an asset in Tenable Attack Surface Management?

An asset is a combination of four values: IP address, Fully Qualified Domain Name (FQDN), Record Type, and Record Value. If any of the values differ, it is considered as a separate asset.

How does Attack Surface Mapping help keep organizations secure?

An organization can only secure what they know they own. Most companies have no documented Attack Surface Map at all. For those who do, it is common for the attack surface map to be highly incomplete and out-of-date, possibly leaving thousands of assets unidentified. The security team cannot protect these unidentified assets, often referred to as shadow IT, resulting in lost data and frequent cyber attacks. Tenable Attack Surface Management fills in the gaps in your data and gives you a high-fidelity view of your entire attack surface.

What other features does the Tenable Attack Surface Management service have?

Tenable Attack Surface Management platform sends alerts in real time whenever an inventory changes such as when new servers are brought online, new ports open, and server software needs patching. Tenable Attack Surface Management continually monitors your attack surface and lets you know as it constantly evolves and changes.

Tenable Attack Surface Management also offers advanced technology fingerprinting by identifying CVEs, open ports, running services, thousands of software versions, geolocation, login forms, secret keys, ASNs, programming frameworks, HTML, and much more. Tenable Attack Surface Management can do all of this within minutes as opposed to days with a competitor.

There has been an increased interest in Attack Surface Mapping over the past few years, why do you think that is?

The increased interest in Attack Surface Mapping is easy to explain. The adversary has been targeting an organization's secondary and tertiary assets for exploitation, many unknown to the organization and not just the well-known primary systems. Often these unknown assets are legacy, long forgotten, and not adequately secured. These assets often connect to other sensitive areas of the network where a breach of highly sensitive data may be achieved.

Attack Surface Glossary

Asset

An asset is a tuple of a hostname, a record type, an IP address and when applicable a record value. For instance a CNAME may point to another CNAME and so on, so where it points and the IP address it finally resolves to would be a constituent part of the asset. Assets represent Internet connected or internal network connected devices. An asset may include, but not limited to web servers, name servers, IoT devices, network printers, etc. Three examples might be:

Asset 1: www.example.com,A,123.123.123

Asset 2: www.foo.com,CNAME,www.bar.com,111.111.111.111

Asset 3: www.foo.com,CNAME,www.bar.com,222.222.222.222

In this way, you may have a single hostname with multiple assets associated with it, to ensure that all of the application virtual hosting code is properly exercised. This is a frequent feature of round robin DNS, and therefore important to find applications that are incorrectly configured within a cluster, or when geographically diverse.

Asset Inventory

A complete collection of an organization's assets and associated metadata of each asset.

Asset Management

Asset management refers to monitoring, configuring, and maintaining of assets.

Attack Surface

From the network perspective of an adversary, the complete asset inventory of an organization including all actively listening services (open ports) on each asset.

Autonomous System Number (ASN)

An ASN is a unique number that's available globally to identify an autonomous system and which enables that system to exchange exterior routing information with other neighboring autonomous systems.

Content Delivery Network (CDN)

A CDN refers to a geographically distributed group of servers which work together to provide fast delivery of Internet content.

Discovery

Discovery refers to the act of identifying assets.

Domain Name

A domain name is a label that identifies a network domain. Domain names are used to identify Internet resources, such as computers, networks, and services, with an easy-to-remember text label that is easier to memorize than the numerical addresses used in the Internet protocols.

Example: foo.tld is the domain name of URL http://www.foo.tld/index.html.

External

Refers to the accessibility of an asset that can be connected to from across the Internet.

Host

A device connected to a network that communicates with other hosts on the network.

Hostname

A unique name given to any device that is connected to a specific computer network, typically appended to a domain name, and resolves to an IP-address using the Domain Name System (DNS).

Example: 'bar' is the hostname of bar.foo.tld.

Internal

Refers to the accessibility of an asset that cannot be connected to from across the Internet, and generally resides on an internal network (i.e. Intranet).

Orphaned Hostname

A hostname that no longer resolves to an IP-address.

Internet-accessible, internet-connected, internet-facing.

Refers to an asset that can be connected to over the Internet. While the terms above are often used interchangeably, Internet-accessible considered the preferred term.

Metadata

A set of data that describes and gives information about an asset. Metadata may include, but not limited to geolocation, operating system, open ports, service banners, TLS certificate details, etc.

Reconnaissance / Recon

The act of finding assets.

Routable / Non-Routable

Refers to a type of IP-address where network traffic can be routed to over the Internet. As defined by RFC-1918, there are certain IP-address ranges where network traffic cannot be routed to over the Internet, which are referred to as 'non-routable' IP-addresses or 'private' IP-space.

Non-Routable IP-Addresses (RFC-1918)

10.0.0.0 – 10.255.255.255 (10/8 prefix)

172.16.0.0 – 172.31.255.255 (172.16/12 prefix)

192.168.0.0 – 192.168.255.255 (192.168/16 prefix)

Open / Listening Service

Short for open ports on a server, or a service on the server that responds to network requests.

Port Scan

Scan that analyzes a server to determine which ports are open.

Subdomain

A subdomain is a domain name with a hostname appended, which is sometimes more accurately described as a fully qualified domain name (FQDN).

Example: bar.foo.tld

Top-Level Domain (TLD)

Refers to the last segment of a domain name, the part following immediately after the "dot" symbol. The most common and familiar TLDs are .com, .net, and .org.

Example: TLD is the Top-Level Domain name of the domain name bar.foo.tld

There are many other TLDs, such as .co.uk and co.jp, which are technically not TLDs because they are not located at the 'top level' of the domain. These types of domains which are referred to as effective TLDs (eTLDS) because they serve a branching point for domain name registrars.

Validity

A configuration option for Apps that establishes how often the app should try to get new data.

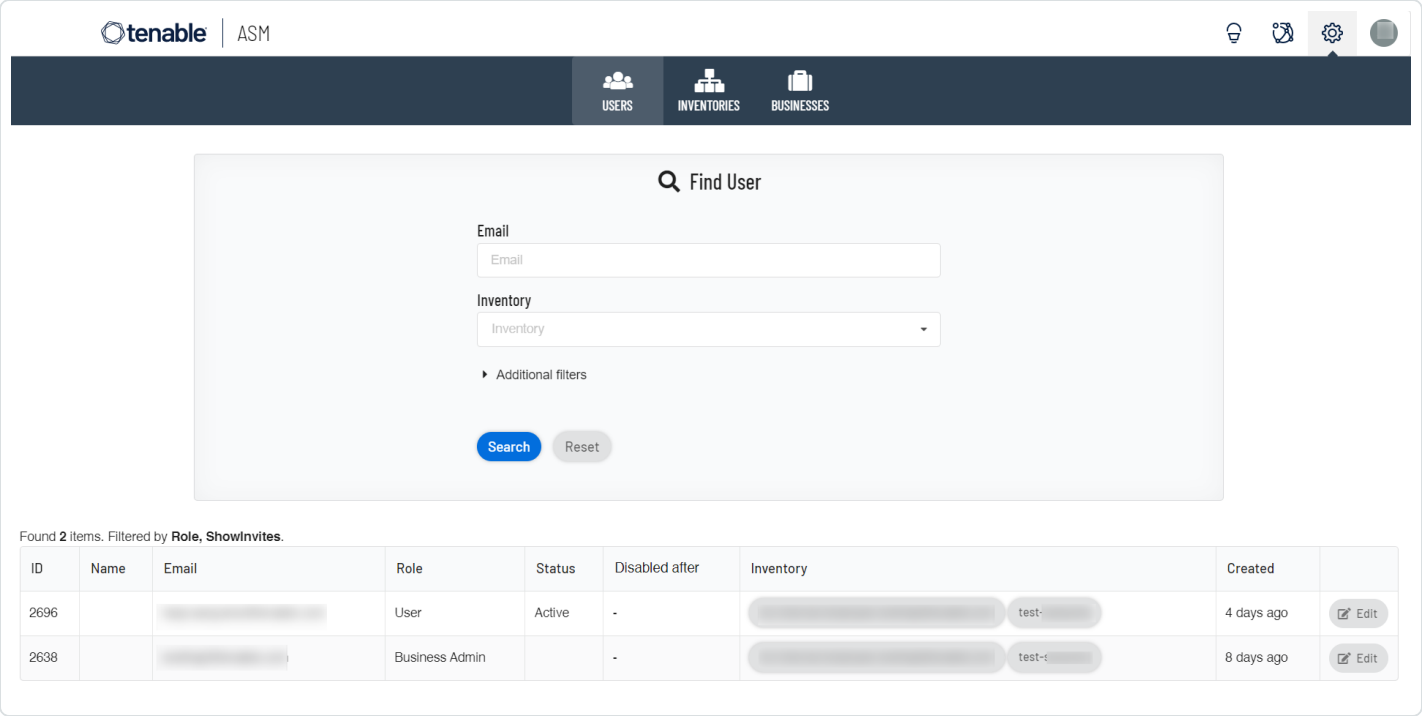
Virtual Host

Refers to a method for hosting multiple hostnames or domain names, with separate handling of each name, on a single server.

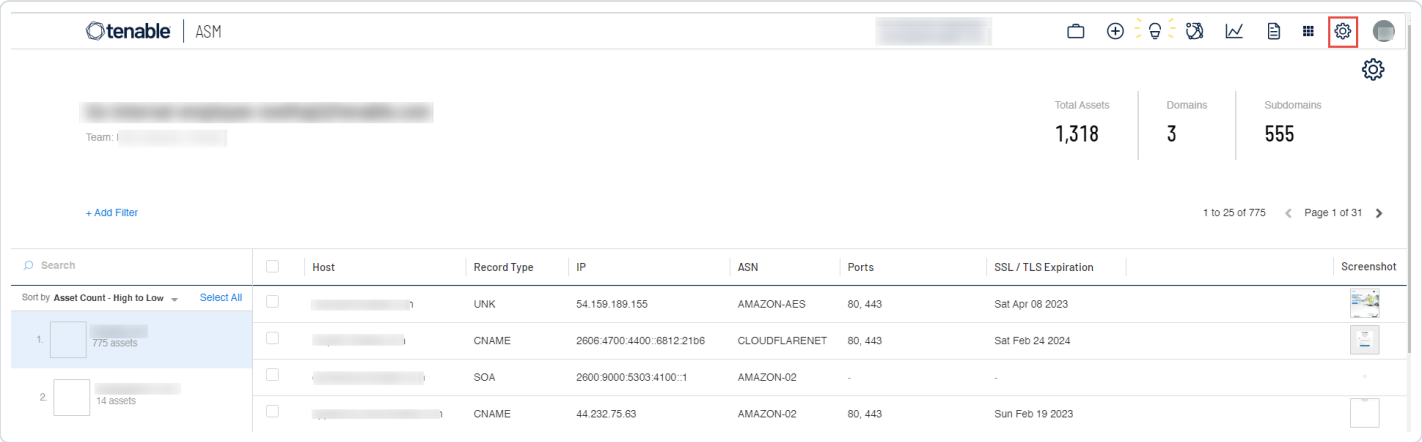
Navigating the Administrator Interface

User accounts with a **Business Admin** role can access the Tenable Attack Surface Management administrator interface. **Business Admins** can do the following:

- View and edit the list of users in the business organization.
- Assign or remove inventories to a user account.
- Change the default asset limit for a specific inventory or for all inventories.
- Create new inventories.
- Modify user role.
- Disable a user.



Access the Tenable Attack Surface Management Administrator Interface



To access the administrator interface:

1. In the upper right corner, click the ⚙ icon.

   The Tenable Attack Surface Management administrator window appears. By default, the **Users** window opens.

There are three tabs available in the administrator interface — **Users**, **Inventories**, and **Businesses**.

Add Users to Tenable Attack Surface Management

To add users to Tenable Attack Surface Management, you must first create users in Tenable Vulnerability Management. For more information, see Create a User Account in the *Tenable Vulnerability Management User Guide*.

Users appear in the Tenable Attack Surface Management administrator interface after they log in to Tenable Attack Surface Management for the first time.

Edit User Account Details

Required User Role: Business Admin

You can have multiple users in a business account and assign all or specific inventories to each user. Tenable Attack Surface Management has two user roles — **Active User** and **Business Admin**. Once the user that you create in Tenable Vulnerability Management logs in to Tenable Attack Surface Management for the first time, that user appears in the list of users in Tenable Attack Surface Management . By default, the new user's role is **Active User**.

To change the role of a user in Tenable Attack Surface Management:

1. In the upper right corner, click the ⚙ icon.

   By default, Tenable Attack Surface Management shows the **Users** window with the **Find User** section and the table listing all users.

2. (Optional) Search for a specific user by providing relevant details in the **Find User** section:

Parameters	Description
Email	The email ID of the user.
Inventory	The inventory assigned to the user. The drop-down lists all the inventories in Tenable Attack Surface Management.
Additional filters	In the **Additional filters** section, provide the following: • **First name** • **Last name** • **Role / Status**

3. Click **Search**.

   Tenable Attack Surface Management displays the list of users in a table format.

4. In the row of the user you want to edit, click **Edit**.

   The **Edit user** window appears.

> **Note**: You can edit the email ID, first name, and last name in Tenable Vulnerability Management.

5. In the **Role / Status** drop-down box, select the required user role from the options available:
   - **Active User** — Allows users to manage inventories.
   - **Not approved** — Restricts users from accessing Tenable Attack Surface Management until approval.
   - **Disabled** — Restricts access to Tenable Attack Surface Management.
   - **Business Admin** — Allows users to edit user accounts, assign roles, and add inventories to businesses.
   - **View-only User** — Allows users to only view inventories and not modify them. The **View-only** users do not have permissions to create new inventories.
6. In the **Inventories** box, select the inventories you want to assign to the user account.
7. Click **Update**.

> **Note**: If you want to grant access to all inventories for the user account, click **Grant access to all inventories in Business**.

Tenable Attack Surface Management updates the user account and displays the following user details in a table format.

Column	Description
ID	The ID assigned to the user.
Name	The name of the user.
Email	The email ID of the user.
Role	The role assigned to the user.
Status	The status of the account, whether active or disabled.
Inventory	The inventories assigned to the user account.
Created	The date on which the account was created.

Edit Inventory Details

Required User Role: Business Admin

In the administrator interface, you can modify the default asset limit of an inventory.

To modify inventory details:

1. In the upper right corner, click the ⚙ icon.

   By default, the **Users** page with the **Find User** section and the table listing all users appears.

2. Click **Inventories**.

   The **Inventories** page appears.

3. Do one of the following:

   - (Optional) Search for a specific inventory :

     a. Provide the following details in the **Find inventory** section:

Parameters	Description
Name	The inventory name.
Notes	Add any notes for the inventory.
Status	Indicates whether the inventory is **Active** or **Deleted**.

     b. Click **Search**.

     The inventories table displays the list of inventories that matches the filters.

     Note: If you want to reset the search details, click **Reset**.

   - Create a new inventory.

     a. Click **Create a new inventory**.

     The **Create a new inventory** window appears.

     b. Provide the inventory details in the relevant boxes.

> **Note**: The default asset limit is 1000.

c. Click the **Source Suggestions** toggle to enable suggestions for the inventories that you want to add.

d. In the **Template Inventory** drop-down box, you can select an inventory to use as a template for the new inventory.

e. Click **Create**.

Tenable Attack Surface Management displays the list of inventories in a table format.

4. In the row of the inventory you want to edit, click **Edit**.

   The **Edit inventory** window appears.

5. Edit the inventory details. Modify the asset limit as needed.

   > **Note**: If you click **Access Now**, Tenable Attack Surface Management adds you to the inventory and redirects you to that inventory page.

6. (Optional) Click **Add all users in the Business** to add all users in the inventory's business organization to the inventory.

7. Click **Update**.

   Tenable Attack Surface Management updates the inventory table and displays the latest changes with the following inventory details in a table format:

Column	Description
ID	The inventory ID.
Name	The name of the inventory.
Notes	The notes about the inventory, if any.
Asset count	The number of assets in the inventory.
Asset limit	The asset limit of the inventory.
Users	The number of user accounts assigned the inventory.

Pending Invites	The number of invites awaiting for the inventory.
Status	The status of the inventory, whether active or disabled.
Created	Indicates the time of the inventory creation.

Edit Business Details

Required User Role: Business Admin

In the administrator interface, you can modify the default asset limit of all inventories in your business organization.

To modify the default asset limit of all inventories in your business:

1. In the upper right corner, click the ⚙ icon.

   By default, the **Users** page with the **Find User** section and the table listing all users appears.

2. Click **Business**.

   The **Business** page appears.

3. In the row of the business that you want to modify, click **Edit**.

   The **Edit business** window appears.

4. To change the default asset limit: in the **Default Asset limit for Inventories** box, modify the value.

5. Click **Save changes**.

   Tenable Attack Surface Management saves the changes and displays the following business details in a table format:

Column	Description
ID	The ID assigned to the business.
Name	The name of the business.
Users	The number of user accounts within the business.
Asset count	The total number of assets across all inventories. Tenable Attack Surface Management refreshes the count daily.
Asset limits	The sum of inventory asset limits currently assigned and the available asset limit for the business.

Inventories	The number of inventories associated the business.

Cloud Sensors

By default, Tenable provides regional cloud sensors for use in Tenable Attack Surface Management.

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.

Note: Tenable Attack Surface Management scans the public internet from these IP addresses. To maintain a clear view of your public exposure, you should not allow these IP addresses in your firewall.

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 Vulnerability Management or Tenable Web App Scanning, see Cloud Sensors in the *Tenable Vulnerability Management User Guide*.

Sensor Group	Region	IPv4 Range	IPv6 Range
US Cloud Scanner, US West Cloud Scanners	us-west-1	3.101.216.64/26 3.101.226.128/26 3.101.230.128/25	2600:1f1c:ba0:dd00::/56
US Cloud Scanner, US East Cloud Scanners	us-east-1	44.210.119.64/27	2600:1f10:48bb:e200::/56
tenable.asm	static	209.126.151.116 209.126.151.117 209.126.151.118 209.126.151.119 209.126.151.120 209.126.151.121 209.126.151.122 209.126.151.123 209.126.151.124 209.126.151.125 207.244.234.126 207.244.251.14	2605:a140:2061:705::1 2605:a140:2061:5217::1 2605:a140:2061:5219::1 2605:a140:2061:5220::1 2605:a140:2061:5221::1 2605:a140:2061:5226::1 2605:a140:2061:5228::1 2605:a140:2061:5230::1 2605:a140:2061:5232::1 2605:a140:2060:8106::1 2605:a140:2061:164::1 2605:a140:2061:5215::1 2605:a140:2061:5234::1

Sensor Group	Region	IPv4 Range	IPv6 Range
		207.244.251.16 209.126.86.45 209.126.86.46 209.126.87.66 209.126.87.68 209.126.87.70 209.126.87.72 209.145.58.124 207.244.249.143 207.244.251.12 209.126.87.112 209.126.87.73 209.145.53.57 209.145.59.230 154.53.40.98 164.68.102.233 207.244.235.11 207.244.236.30 209.126.151.114 209.126.151.115 66.94.119.243 207.244.235.11 207.244.236.30 66.94.119.243 154.53.40.98 164.68.102.233	2605:a140:2061:5233::1 2605:a140:2060:8101::1 2605:a140:2060:8123::1 2605:a140:2092:2549::1 2a02:c207:2052:4804::1 2605:a140:2092:2546::1 2605:a140:2092:2547::1 2605:a140:2092:2548::1 2605:a140:2092:2546::1 2605:a140:2092:2547::1 2605:a140:2092:2548::1 2605:a140:2092:2549::1 2a02:c207:2052:4804::1

Inventory

In Tenable Attack Surface Management, an inventory is where you view your organization's assets.

To view an existing inventory:

1. In Tenable Attack Surface Management, in the upper-right corner, click the 🗀 button.
2. In the drop-down list, select the inventory you want to view.

   Your inventory appears.

Related topics:

- Create an Inventory
- Inventory Settings
- Asset Prioritization
- Leave an Inventory
- Manage Inventory Sources
  - Add a Source
  - Add a Subdomain
  - Move a Domain
  - Update a Source Screenshot
  - Remove a Source
- Exclusion Rules
  - Create an Exclusion Rule
  - Run Exclusion Rules
- Automation Rules
  - Create an Automation Rule
  - Automation Rule Settings
- Asset Filters

Create an Inventory

In Tenable Attack Surface Management, you can create an inventory to identify and organize your assets.

To create an inventory and add a domain:

1. In Tenable Attack Surface Management, in the upper-right corner, click the ⊕ button.
2. In the drop-down list, click **Add Inventory**.

   The **Create new inventory** window appears.
3. In the **New Inventory Name** box, type a name for the inventory.
4. (Optional) In the **Inherit Inventory** box, select an inventory you want to use as a template for the new inventory.

   The new inventory will inherit the selected inventory's tags, custom columns, subscriptions, and exclusion rules.
5. Click the **Save** button.

   The inventory is created.
6. In Tenable Attack Surface Management, in the upper-right corner, click the ▭ button.
7. In the drop-down list, click the inventory you just created.

   The **Set up your Inventory** page appears, prompting you to add a domain to your inventory.
8. In the text box, type your organization's domain.

   > **Note**: To add multiple domain names, separate the domain names using space.
9. Click the **+ Add Domain Name** button.

   The inventory appears, with the domain added.
10. (Optional) Add additional sources to your inventory.

Inventory Settings

On the Inventory page, you can add or remove columns to the inventory table and also render the assets and sources in your inventory to different formats.

To manage your inventory settings:

1. In the upper-right corner of the Inventory page, click the ⚙ icon.

   A drop-down menu appears.

2. Select the required option.

Option	Description
Manage Columns	Allows you to add and remove columns from the assets table. To add or remove columns: a. From the drop-down menu, select **Manage Columns**. The **Select data types to list** page appears. b. Do one of the following: • To add columns, select the checkboxes next to the column names you want to add. • To remove columns, clear the checkboxes next to the column names you want to remove. c. Scroll to the bottom of the page and click **Show**. Tenable Attack Surface Management shows the updated table.
Render Assets as Dashboard	Renders the assets table in the dashboard format. When you select **Render Assets as Dashboard**, each column in the assets table appear as widgets in the dashboard. **Note**: The following columns are not supported for **Render Assets as Dashboard**: • Asset ID

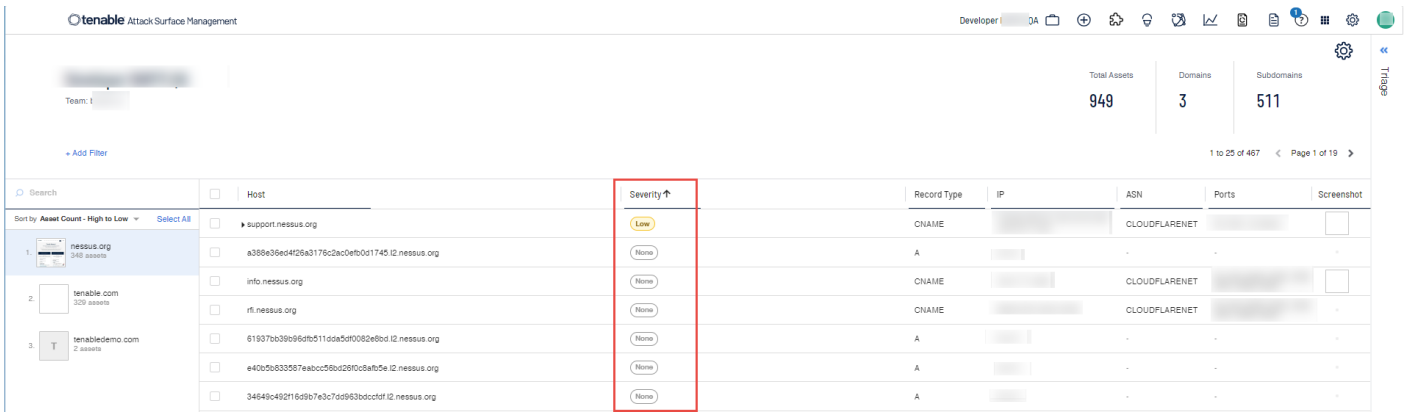
	• Screenshot • Added to Inventory • Record Value • Host • IP • Added to this Subscription • HTML • Domain • Canonical URL • SSL / TLS Subject Alt Name • Response Header Value • Response Security Header Value • Banners • Final URL • SSL / TLS Valid From • SSI / TLS Expiration To change the format back to table, from the drop-down menu, select **Render Assets as Table**. If you do not change to the table format, Tenable Attack Surface Management shows the dashboard view the next time you log in.
Render Assets as CSV	Exports the assets table to CSV.
Render Assets as XLSX	Exports the assets table to XLSX.
Render Assets as	Exports the assets table to JSON.

JSON	
Render Sources as CSV	Exports the sources to CSV.
Render Sources as XLSX	Exports the sources to XLSX.
Tag Assets Quickly	Allows you to tag assets. For more information, see Tag Assets Quickly.

Asset Prioritization

Tenable Attack Surface Management ranks your assets and assigns a severity level to the assets based on their security risk. You can use the severity ranking to prioritize the assets that require immediate attention. The **Severity** column of the asset table shows the severity of an asset as **Low**, **Medium**, **High**, **Critical**, or **None**.

Tenable Attack Surface Management calculates the severity ranking for an asset by matching the asset information with a given set of criteria. Any change or update to the asset changes the severity level of that asset. For example, an asset with a **Critical** severity with a vulnerability issue moves to **Medium** or **Low** severity after you remediate the issue and recan the asset.



To enable the **Severity** column for your assets:

1. In Tenable Attack Surface Management, click the ⚙ button.

   A menu appears.

2. In the drop-down list, click **Manage Columns**.

   The **Select data types to list** page appears.

3. In the **Tenable.asm** section, select the **Severity** checkbox.

4. Click **Show**.

   Tenable Attack Surface Management includes the **Severity** column in the assets table.

Leave an Inventory

When you leave an inventory in Tenable Attack Surface Management, other members of the organization can still access the inventory. If you leave an inventory that you own, then ownership will be passed to the next oldest member in the inventory.

To leave an inventory:

1. In Tenable Attack Surface Management, in the upper-right corner, click the button.
2. In the drop-down list, hover over the inventory that you want to leave.
3. Click the button.

   A dialog box appears, confirming your selection to leave the inventory.
4. Click the **Leave** button.

   The inventory is removed from your list of inventories.

Manage Inventory Sources

Add a Source

In Tenable Attack Surface Management, you can add a source to your inventory to identify more assets associated with your organization.

See the following procedures for how to add different types of sources.

Add a hostname, domain, or subdomain

1. In Tenable Attack Surface Management, in the upper-right corner, click the ⊕ button.
2. In the drop-down list, click **Add Hostname or Domain**.

   The **Enter Hostname** window appears.
3. In the **Enter a host to your Inventory** box, type a hostname or domain.

   A list of options appears.

   > **Note:** You can add a maximum of two domains across your organization. If you already have two domains system-wide, you must delete one before you can add another.
4. Select any applicable options:

Option	Description
Add subdomains instead of domains	Adds the domain as a subdomain instead of a host or domain.
Don't do subdomain discovery	Prevents Tenable Attack Surface Management from automatically discovering subdomains for the domain.
Elastic source	Tells Tenable Attack Surface Management to extract data using the IP address that an asset resolves to.

5. Click the **Next** button.

   The hostname, domain, or subdomain appears in your inventory and begins identifying assets.

Add an IP address or IP range

1. In Tenable Attack Surface Management, in the upper-right corner, click the ⊕ button.
2. In the drop-down list, click **Add IP addresses or IP ranges**.

   The **Enter IP address** window appears.
3. In the **Enter an IP range to your Inventory** box, type an IP address, IP range, or a comma-separated list of IP addresses.
4. To select assets, do one of the following:
   - Click **Add IP address** if you want Tenable Attack Surface Management to identify all assets associated with the IP address.
   - Click **Select Assets Manually**. The **Select IP Addresses** window appears: select the IP addresses to add to your inventory, and click **Add to Inventory** to add the assets.

Tenable Attack Surface Management adds the IP addresses to your inventory and begins identifying assets.

Add an Autonomous System Number (ASN)

1. In Tenable Attack Surface Management, in the upper-right corner, click the ⊕ button.
2. In the drop-down list, click **Add ASN**.

   The **Enter ASN** window appears.
3. In the **Enter AS number or organization name** box, type an ASN or search for an organization.
4. Click the **Add ASN** button.

   Tenable Attack Surface Management adds the ASN to your inventory and begins identifying assets.

Add sources from Cloudflare

Before you begin

Tenable Attack Surface Management requires the following permissions to add Cloudflare sources:

- `Zone Read` — Grants read access to zone management.
- `DNS Read` — Grants read access to DNS.

To add sources from Cloudflare:

1. In Tenable Attack Surface Management, in the upper-right corner, click the ⊕ button.
2. In the drop-down list, click **Add from Cloudflare**.

   The **Cloudflare keys** window appears with the list of configured API keys.
3. Do one of the following:
   - Click an API key to view the list of available zones or domains the API key has access.
   - (Optional) If you do not have any configured API keys, add a new API key:
     a. Click **Add**.

     Tenable Attack Surface Management displays the **Add Cloudflare key** box.

     b. In the **Cloudflare account name** box, type a name for the Cloudflare account.

     c. In the **API key** box, copy and paste the API key for your Cloudflare account.

     d. Click **Add**.

     Tenable Attack Surface Management adds the API key and displays the **Available zones** window with the list of Cloudflare zones (domain names) the API key has access.

     > **Note**: Tenable Attack Surface Management supports these types of DNS records: A, AAAA, CNAME, MX, NS, TXT, PTR, and SOA.
4. To add a domain to your inventory, click the **Add to inventory** link next to the domain name you want to add.

   > **Note**: To add all zones to your inventory, click **Add all**.

Tenable Attack Surface Management adds the Cloudflare assets to your inventory and redirects you to the Inventory page showing the newly added sources. The source from Cloudflare has an orange cloud icon under its name.

If there are assets from outside the zone or domain, Tenable Attack Surface Management automatically adds them as elastic assets. Tenable Attack Surface Management extracts data from

these elastic assets using the hostname rather than their IP addresses. The **IP** column in the Inventory table shows *Elastic Asset* instead of an IP address for these elastic assets.

To delete a Cloudflare API key:

1. In the **Cloudflare keys** window, click next to the Cloudflare API key to delete.

   Tenable Attack Surface Management deletes the Cloudflare API key. The sources added using this key still show up in the inventory but Tenable Attack Surface Management eventually deletes them across all inventories.

Add sources from AWS

Before you begin

- Make sure that you grant read-only permission for Tenable Attack Surface Management in your AWS account. For more information, see ReadOnlyAccess in the AWS documentation.
- Add your AWS account to Tenable Attack Surface Management. See Integrate with AWS.

To add sources from AWS:

1. In Tenable Attack Surface Management, in the upper-right corner, click the ⊕ button.
2. In the drop-down list, click **Add from AWS**.

   The **AWS keys** window appears with the list of configured AWS API keys.
3. To add sources from your AWS account, click **Add as a source**.

   Tenable Attack Surface Management adds the sources from AWS.

   > **Note**: Depending on the number of assets, the process may take some time to complete.

Add a Subdomain

In Tenable Attack Surface Management, you can add a subdomain to an existing domain in your inventory.

To add a subdomain to a domain in your inventory:

1. In Tenable Attack Surface Management, in the upper-right corner, click the 🗀 button.
2. In the drop-down list, select an inventory.
3. In the list of domains, hover over the domain to which you want to add a subdomain.
4. Click the ⚙ button.
5. In the drop-down list, click **Add subdomain**.

   The **Add missing subdomain** window appears.
6. In the text box, type a subdomain or comma-separated list of subdomains.
7. Click the **Add subdomains** button.

   The subdomains are added to your inventory and Tenable Attack Surface Management automatically begins identifying assets in the subdomain.

Move a Domain

In Tenable Attack Surface Management, you can move an existing domain to another inventory.

To move a domain to a different inventory:

1. In Tenable Attack Surface Management, in the upper-right corner, click the button.
2. In the drop-down list, select an inventory.
3. In the list of domains, hover over the domain you want to move.
4. Click the button.
5. In the drop-down list, click **Move to another inventory**.

   The **Move source to another inventory** window appears.
6. In the drop-down box, select the inventory to which you want to move the domain.
7. Click the **Move** button.

   The domain is moved to the selected inventory and Tenable Attack Surface Management automatically begins populating the inventory with assets in the domain.

Update a Source Screenshot

In Tenable Attack Surface Management, you can updated the screenshot for a source.

To update the screenshot for a source:

1. In Tenable Attack Surface Management, in the upper-right corner, click the button.
2. In the drop-down list, select an inventory.
3. In the list of sources, hover over the source for which you want to update the screenshot.

   > **Note:** Not every type of source has an available screenshot.

4. Click the button.
5. In the drop-down list, click **Refresh source screenshot**.

   Tenable Attack Surface Management takes a new screenshot of the source.

Remove a Source

When you remove a source from an inventory, Tenable Attack Surface Management will remove all assets for the source.

To remove a source from an inventory:

1. In Tenable Attack Surface Management, in the upper-right corner, click the button.
2. In the drop-down list, select an inventory.
3. In the list of sources, hover over the source you want to remove from the inventory.
4. Click the button.
5. In the drop-down list, click **Delete from Inventory**.

   The source is deleted from the inventory.

Exclusion Rules

In Tenable Attack Surface Management, exclusion rules specify specific assets to include or exclude from your inventory.

Create an Exclusion Rule

In Tenable Attack Surface Management, you can create an exclusion rule to include or exclude specific assets from your inventory.

To create an exclusion rule:

1. In Tenable Attack Surface Management, in the upper-right corner, click the ⊕ button.
2. In the drop-down list, click **Add or Modify Exclusion Rules**.

   The **Exclusion Rules** window appears.
3. Click the **Add an exclusion rule** button.

   The **Add exclusion rule** window appears.
4. In the first drop-down list, select the type of criteria you want to set for the exclusion rule:
   - **Match IP addresses** - The exclusion rule will apply to assets that match specific IP addresses.
   - **Match hostnames** - The exclusion rule will apply to assets that match specific hostnames.
   - **Record type** - The exclusion rule will apply to specific asset types.
5. In the second drop-down list, select whether you want the exclusion rule to include or exclude matches:
   - **Exclude matches** - Tenable Attack Surface Management will exclude any assets that match the exclusion rule criteria.
   - **Include matches** - Tenable Attack Surface Management will include any assets that match the exclusion rule criteria.
6. In the first text box, type the IP address, hostname, or record type to which you want to apply the exclusion rule.
7. (Optional) In the second text box, type any relevant notes about the exclusion rule.
8. Click the **Save** button.

   The exclusion rule is created.

Run Exclusion Rules

To run your exclusion rules:

1. In Tenable Attack Surface Management, in the upper-right corner, click the ⊕ button.
2. In the drop-down list, click **Add or Modify Exclusion Rules**.

   The **Exclusion Rules** window appears.
3. Click the **Run rules now** button.

   The exclusion rules run and your Tenable Attack Surface Management inventories update to reflect the rules.

Automation Rules

Automation rules perform specific actions automatically when certain events happen in Tenable Attack Surface Management.

Create an Automation Rule

You can create automation rules that run automatically when certain events happen in Tenable Attack Surface Management. For example, you can create an automation rule that adds tags to any assets that fall within a certain subscription.

Automation rules run once a day.

To create an automation rule:

1. In Tenable Attack Surface Management, in the upper-right corner, click the ⊕ button.
2. In the drop-down list, click **Add or Modify Automation Rules**.

   The **Automation Rules** window appears.
3. Click the **Add rule** button.

   The **Add Automation Rule** window appears.
4. Select the type of automation rule you want to add and modify the settings.
5. Click the **Save** button.

   The automation rule is created.

Automation Rule Settings

The different types of automation rules in Tenable Attack Surface Management have different settings.

Archive Assets

Setting	Description
Rule Name	Type a name for the automation rule.
Rule Description	Type a description for the automation rule.
Archive Asset if it matches	Select when you want the automation rule to archive an asset in your inventory. • **Filters** — Archives any assets that match the specified filter. Click **+Add Filter** to add asset filters. • **Subscription** — Archives any assets that match the specified subscription. Click the drop-down box to select a subscription.

Modify Tags

Setting	Description
Rule Name	Type a name for the automation rule.
Rule Description	Type a description for the automation rule.
Select what to do	Select whether you want the automation rule to add or remove a tag from assets in your inventory. • **Add** — Adds a tag to any asset that matches the automation rule criteria. • **Remove** — Removes a tag from any asset that matches the automation rule criteria.

Setting	Description
Select Tag	Select the tag that you want the automation rule to add or remove.
if Asset matches	Select when you want the automation rule to add or remove a tag from an asset in your inventory. • **Filters** — Adds or removes the tag from any assets that match the specified filter. Click **+Add Filter** to add asset filters. • **Subscription** — Adds or removes the tag from any assets that match the specified subscription. Click the drop-down box to select a subscription.

Update Custom Columns

Setting	Description
Rule Name	Type a name for the automation rule.
Rule Description	Type a description for the automation rule.
Select what to do	Select whether you want the automation rule to set or remove custom columns from assets in your inventory. • **Set** — Adds a custom column to any asset that matches the automation rule criteria. • **Remove** — Removes a custom column from any asset that matches the automation rule criteria.
Select Custom Column	Select the custom column that you want the automation rule to add or remove.
if Asset matches	Select when you want the automation rule to update custom columns for assets. • **Filters** — Updates custom columns for any assets that match the specified filter. Click **+Add Filter** to add asset filters.

Setting	Description
	• **Subscription** — Updates custom columns for any assets that match the specified subscription. Click the drop-down box to select a subscription.

Suggestions

Setting	Description
Rule Name	Type a name for the automation rule.
Rule Description	Type a description for the automation rule.
Select what to do	Select whether you want the automation rule to accept or deny suggestions. • **Accept** — Accepts all suggestions that match the automation rule criteria. • **Deny** — Denies all suggestions that match the automation rule criteria.
Suggestion if it matches	Select when you want the automation rule to accept or deny suggestions. • **Filters** — Accepts or denies any suggestions that match the specified filter. Click **+Add Filter** to add domain filters.

Move Assets

Setting	Description
Rule Name	Type a name for the automation rule.
Rule Description	Type a description for the automation rule.
Moves Asset to	Select the inventory to which you want to move assets that meet the automation rule criteria.
if it matches	Select when you want the automation rule to move assets.

Setting	Description
	• **Filters** — Moves any assets that match the specified filter. Click **+Add Filter** to add domain filters.

Run ad-hoc query

Setting	Description
Rule Name	Type a name for the automation rule.
Rule Description	Type a description for the automation rule.
Run ad-hoc query	Select which query you want the automation rule to run.

Asset Filters

You can add filters to your inventory to view assets by their importance. Each asset has 130+ properties that can be filtered using one or more filters.

You can filter your assets in two ways:

- **Legacy Filtering** — Allows you to select from available filters to match assets.
- **Robust Filtering** — Allows you to filter by matching column names using strings with AND/OR operators. You can also use two levels of nesting.

Legacy Filtering

To filter your assets:

1. At the top of the table, click + **Add Filter**.

   The Add Filter drop-down appears.

2. Use the **Search for Filters** box or select the filter from the list. For example, **Name**.

   The list of operators appears.

3. Select the operator. For example, **contains**.
4. Type the value of the filter, if needed.
5. Click **Done**.
6. (Optional) To add another filter, click + **Add Filter**.

   1. Repeat steps from 2 to 5.

      Tenable Attack Surface Management adds a new third filter to the list with the following options:

      - **that match all filters** — Lists only the assets that match all the filters.
      - **that match any filters** — Lists assets that match any one of the filters.

   2. Select one of the options and click **Done**.

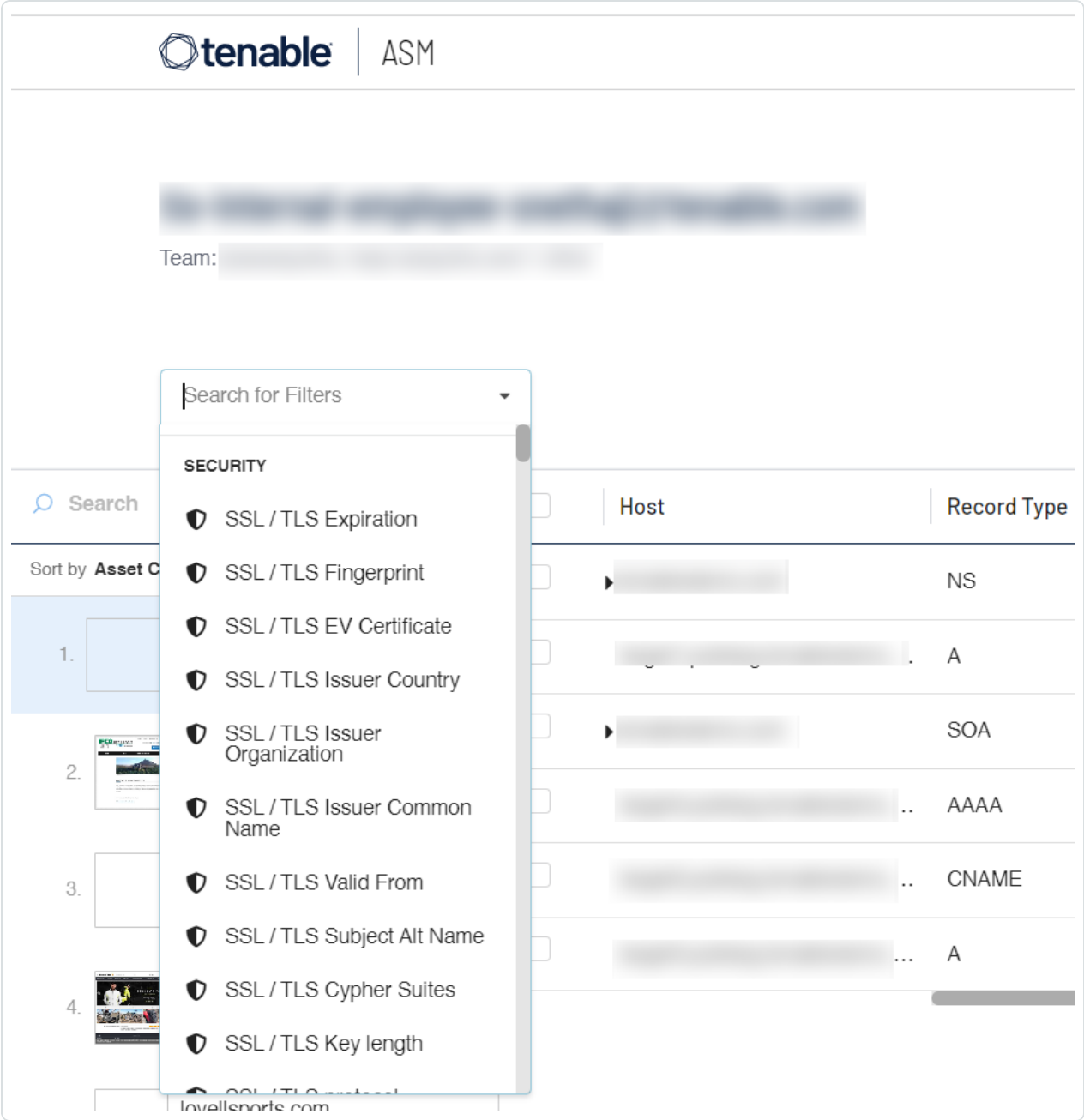
      Tenable Attack Surface Management shows the filtered results.

Examples

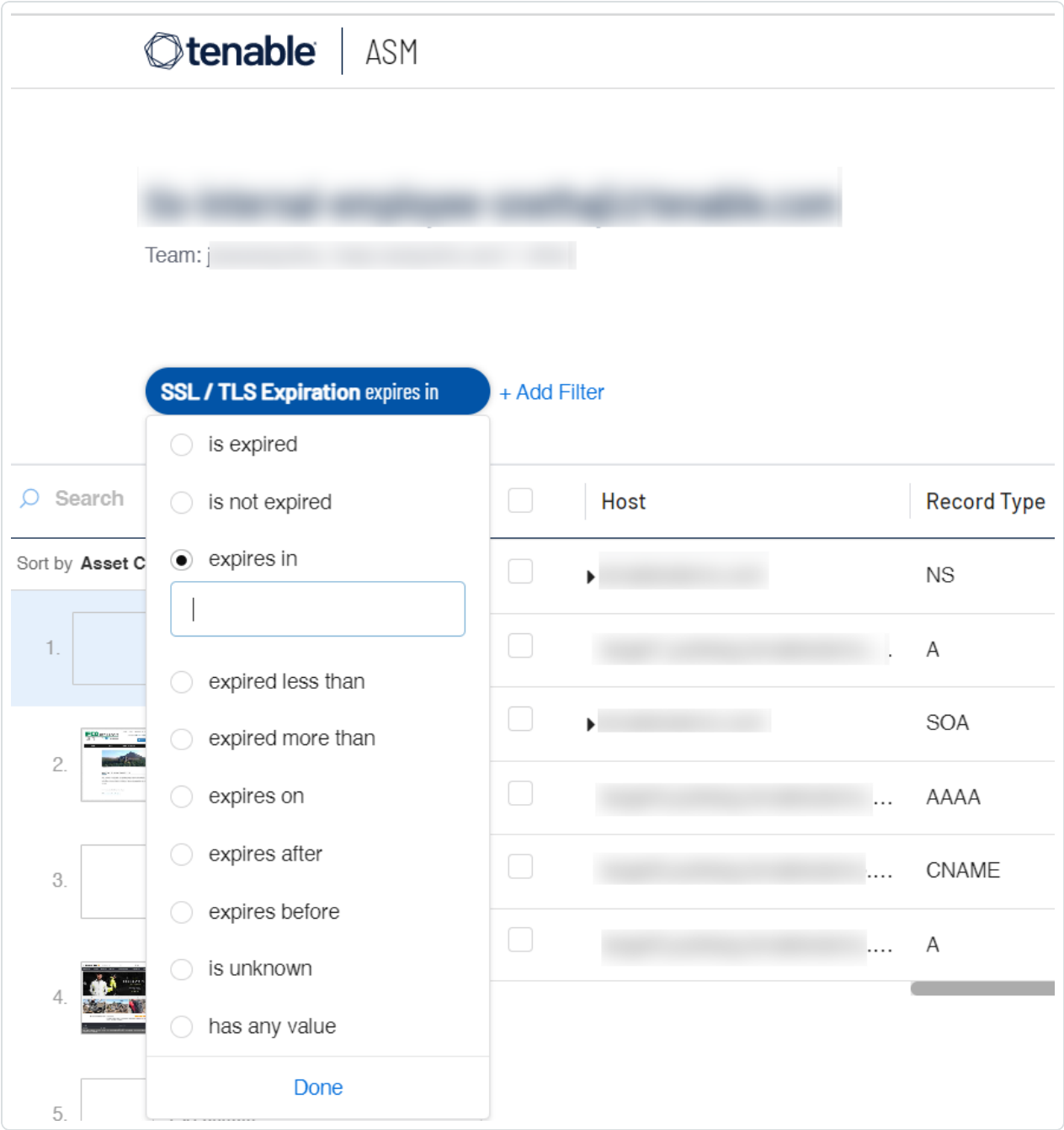
- Filter assets that have a TLS certificate that ages out within 3 days.

  a. Click **Add Filter**.

     A drop-down menu appears.



b. Select the **SSL/TLS Expiration** filter.



c. In the **expires in** box, type 3.

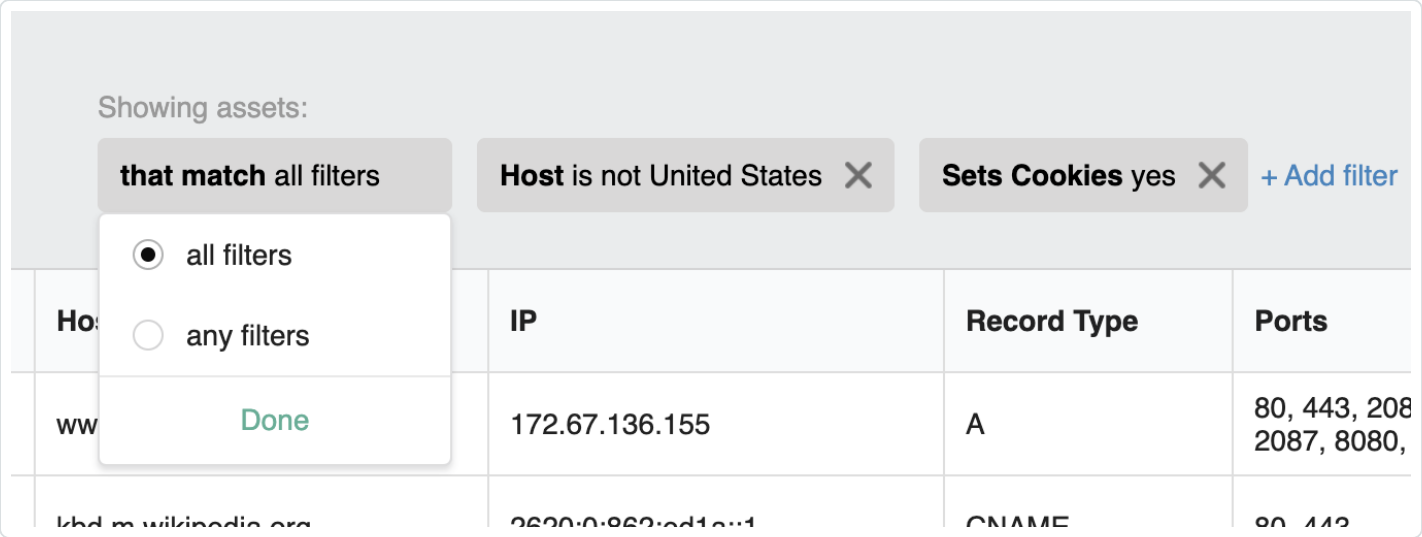
d. Click **Done**.

Tenable Attack Surface Management limits your list of assets to only those that have an SSL/TLS certificate aging out within 3 days.

When applying a filter, a column corresponding to the filter is also included in the results. In this case, because the **SSL/TLS Expiration** filter is used, Tenable Attack Surface Management adds an **SSL/TLS Expiration** column.

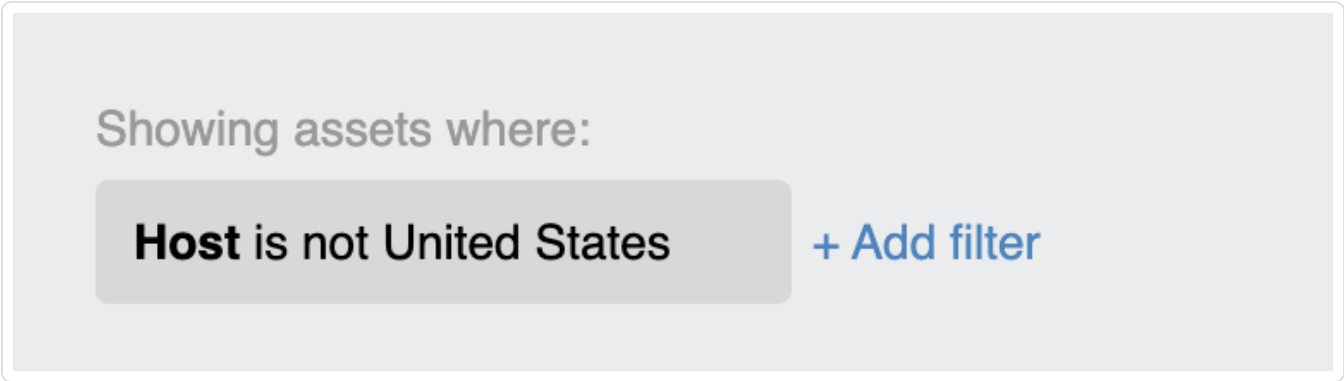
Using Multiple Filters

Multiple filters can be used at the same time to add incredible granularity. When using multiple filters, you have an option of matching "all" or "any" filters.

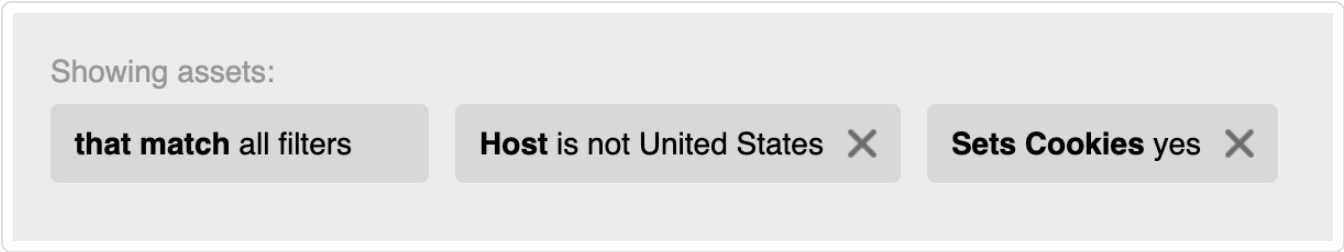


The following are examples of using multiple filters:

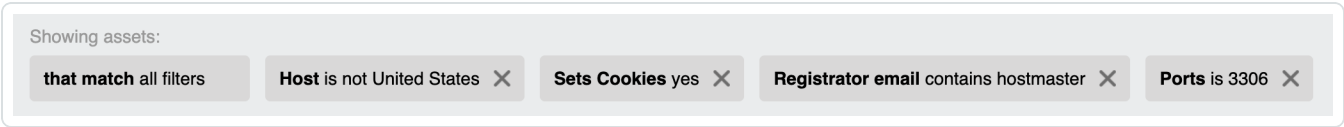
- Assets not hosted in the United States



- Assets not hosted in the USA that sets cookies



- Assets not hosted in the USA that sets cookies, whose registrar email address contains the word "hostmaster, and has port 3306 open.

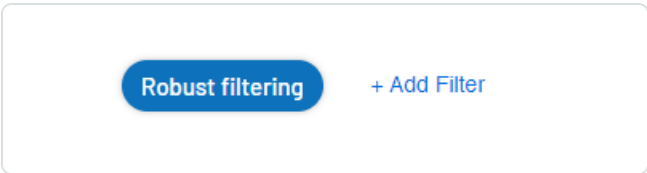


Robust Filtering

To filter your assets using **Robust filtering**:

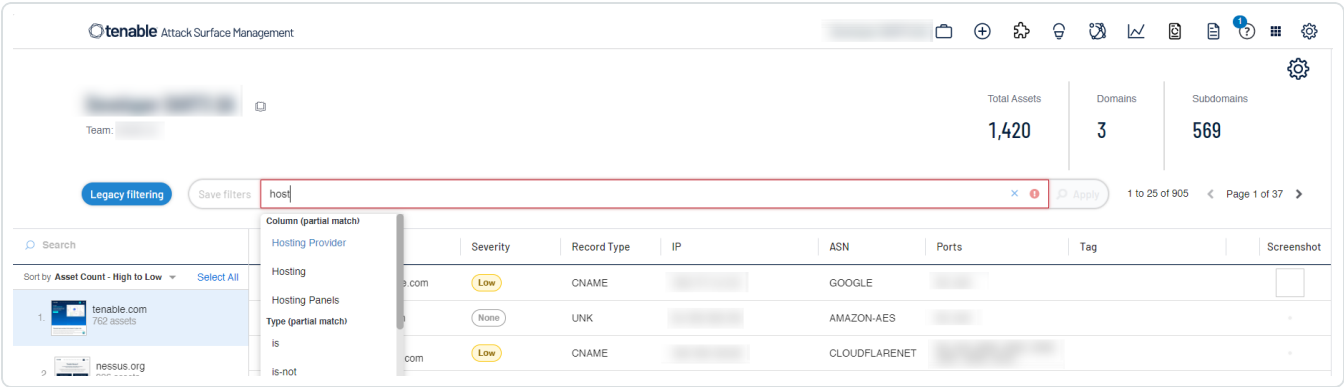
1. At the top of the table, click **Robust Filtering**.

   The **Robust filtering** box appears.



2. Click inside the box.

   A drop-down appears with a list of suggestions.



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

3. Filter the assets:

> **Note**: A single query can have only a maximum of 15 filters.

   a. Select the filter or type its name in the box.

   b. Select the column name from the list of matching suggestions and press space.

   c. Select the value type or condition from the list.

Filter Type	Description
contains	Filters for items that contain the filter value.
does not contain	Filters for items that do not contain the filter value.
ends with	Filters for items that end with the filter values.
expired less than	Filters for items that aged out within a specific number of days. This value requires an input for the number of days. For example, SSL / TLS Expiration.
expired more than	Filters for items that aged out more than a specific number of days. This value requires an input for the number of days. For example, SSL / TLS Expiration.
expires after	Filters for items that age out after a specific date. The value requires a date input. For example, SSL / TLS Expiration.
expires before	Filters for items that age out before a specific date. The value requires a date input. For example, SSL / TLS Expiration.
expires in	Filters for items that age out within a specific number of days. This value requires an input for the number of days. For example, SSL / TLS Expiration.

expires on	Filters for items that age out on a specific date. The value requires a date input. For example, SSL / TLS Expiration.
has any value	Filters for items that have any associated value.
is	Filters for items that match the selected filter value.
is expired	Filters for items that have aged out. For example, SSL / TLS Expiration.
is not	Filters for items that do not match the filter value.
is not expired	Filters for items that have not aged out. For example, SSL / TLS Expiration.
is not one of	Filters for items that do not match any of the filter values. **Note**: The filter values must be separated by commas without any spaces. For example, `Host is-not-one-of x,y,z`.
is one of	Filters for items that match one of the filter values. **Note**: The filter values must be separated by commas without any spaces. For example, `Host is-one-of x,y,z`.
is unknown	Filters for items that have unknown value.
not scanned	Filters for items that are not scanned.
scanned	Filters for items that are scanned.
starts with	Filters for items that start with the filter values.
yes	Filters for items that match the "Yes" input. For example, **Cloud Hosted**.
no	Filters for items that match the "No" input. For example, **Cloud Hosted**.

greater than	Filters for items that match a value greater than the specified number.
less than	Filters for items that match a value less than the specified number.

d. Provide the values for the selected type.

> **Note**: For special filters such as tags and dates, the filter displays the relevant menu to select the values.
>
> - Tag filter — Displays a drop-down with the list of available tags.
> - Date filter — Displays a date picker where you can input the date.

e. For multiple querying, type **AND** or **OR** operators in the box and select one of the operators.

> **Note**: AND and OR operators are not allowed on the same level.

> **Note**: If you want to filter on a value that has quotation marks (") or spaces, then you must wrap the value in quotation marks (").
> If there are quotation marks within the value, then you must use the escape character (\) for the quotation marks (\"). For example, to filter the value `<div id="filter_value"`, do this: `"<div id=\"filter_value\""`

f. (Optional) Use parentheses to add nested filters.

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

4. (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.

5. Click **Apply**.

   Tenable Attack Surface Management filters your data.

6. (Optional) Save the filters to access later or share.

Convert Legacy Filtering to Robust Filtering

If you are using Legacy filtering to filter your assets, you can change your filtering method to Robust filtering by clicking **Robust Filtering**. This converts your selected filters to the Robust filtering mode. You can also convert your saved filters to Robust filtering.

> **Note**: You cannot convert the filtering method from **Robust filtering** to **Legacy filtering**.

Asset Details

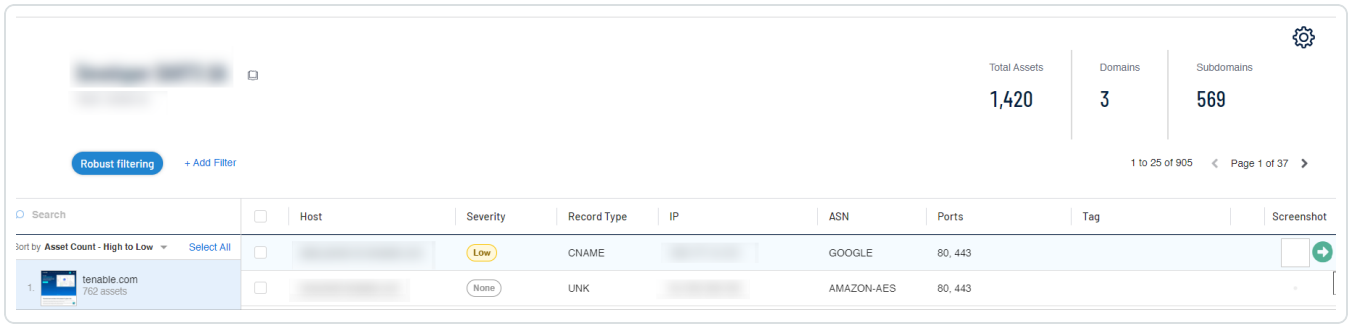
When you click on an asset in Tenable Attack Surface Management, a page appears that includes all known information about the asset.

To view details for an asset in your inventory:

1. In Tenable Attack Surface Management, in the upper-right corner, click the button.

   In the drop-down list, select an inventory.

2. In the list, hover over the asset for which you want to view more details.



3. Click the button.

   The details page for the asset appears.

4. (Optional) To refresh details for the asset, at the bottom of the asset details page, click the **Update** button.

5. (Optional) Export the asset.

The **Asset Details** page includes the following details:

Severity Breakdown

Tag

+ Add tags

Severity Breakdown LOW

Expired SSL	Asset is using SSL cert passed expiration date.
Outdated TLS	Asset supports depreciated TLS versions.

Networking Details

Networking

Domain	wikipedia.org
Record Value	dyna.wikimedia.org
Host	sh.wikipedia.org
Record Type	CNAME
IP	2620:0:862:ed1a::1
ASN	WIKIMEDIA
Final url	https://sh.wikipedia.org/wiki/Glavna_stranica
Cloud Hosted	no
Is subdomain	yes

Services Details

Services

Port	Service	Last seen	Banner
80	http-proxy	4 days ago	"<!DOCTYPE html>\n<html lang=\"en\">\n<meta charset=\"utf-8\">\n<title>Wikimedia Error</title>\n<style>\n* { margin: 0; padding: 0; }\nbody { background: #fff; font: 15px/1.6 sans-serif; color: #333; }\n.content { margin: 7% auto 0; padding: 2em 1em 1em; max-width: 640px; }\n.footer { clear: both; margin-top: 14%; border-top: 1px solid #e5e5e5; background: #f9f9f9; padding: 2em 0; font-size: 0.8em; text-align: center; }\nimg { float: left; margin: 0 2em 2em 0; }\na img { border: 0; }\nh1 { margin-top: 1em; font-size: 1.2em; }\n.content-text { overflow: hidden; overflow-wrap: break-word; word-wrap: break-word; -webkit-hyphens: auto; -moz-hyphens: auto; -ms-hyphens: auto; hyphens: auto; }\np { margin: 0.7em 0 1em 0; }\na { color: #0645ad; text-decoration: none; }\na:hover { text-decoration: underline; }\ncode { font-family: sans-serif; }\n.text-muted { color: #777; }\n</style>\n<div class=\"content\" role=\"main\">\n<a href=\"https://www.wikimedia.org\"><img src=\"https://www.wikimedia.org/static/images/wmf-log
443	https	8 days ago	HTTP/1.1 400 date: Fri, 31 Dec 2021 01:06:16 GMT server: Varnish x-cache: cp3064 int x-cache-status: int-front server-timing: cache;desc="int-front", host;desc="cp3064" permissions-policy: interest-cohort=() set-cookie: WMF-Last-Access=31-Dec-2021;Path=/;HttpOnly;secure;Expires=Tue, 01 Feb 2022 00:00:00 GMT set-cookie: WMF-Last-Access-Global=31-Dec-2021;Path=/;Domain=.invalid;HttpOnly;secure;Expires=Tue, 01 Feb 2022 00:00:00 GMT x-client-ip: 2605:a140:2061:172::1 content-type: text/html; charset=utf-8 content-length: 1812 connection: close <!DOCTYPE html> <html lang="en"> <meta charset="utf-8"> <title>Wikimedia Error</title> <style> margin: 0; padding: 0; } body { background: #fff; font: 15px/1.6 sans-serif; color: #333; } .content { margin: 7% auto 0; padding: 2em 1em 1em; max-width: 640px; } .footer { clear: both; margin-top: 14%; border-top: 1px solid #e5e5e5; back

SSL/TLS Details

SSL / TLS

SSL / TLS Issuer Country	US
SSL / TLS Issuer Organization	DigiCert Inc
SSL / TLS Issuer Common Name	DigiCert TLS Hybrid ECC SHA384 2020 CA1
SSL / TLS protocol	TLSv1.2
SSL / TLS Fingerprint	D60682CE7DBA8A1ABD8E83D238D54423D9D554ED
SSL / TLS Subject Alt Name	*.wikipedia.org wikimedia.org mediawiki.org wikibooks.org wikidata.org wikinews.org wikiquote.org wikisource.org wikiversity.org wikivoyage.org wiktionary.org wikimediafoundation.org w.wiki wmfusercontent.org *.m.wikipedia.org *.wikimedia.org *.m.wikimedia.org *.planet.wikimedia.org *.mediawiki.org *.m.mediawiki.org *.wikibooks.org *.m.wikibooks.org *.wikidata.org *.m.wikidata.org *.wikinews.org *.m.wikinews.org *.wikiquote.org *.m.wikiquote.org *.wikisource.org *.m.wikisource.org *.wikiversity.org *.m.wikiversity.org *.wikivoyage.org *.m.wikivoyage.org *.wiktionary.org *.m.wiktionary.org *.wikimediafoundation.org *.wmfusercontent.org wikipedia.org
SSL / TLS Cypher Suites	ECDHE-ECDSA-AES256-GCM-SHA384 ECDHE-RSA-CHACHA20-POLY1305 ECDHE-RSA-AES128-GCM-SHA256 ECDHE-ECDSA-CHACHA20-POLY1305 ECDHE-ECDSA-AES128-GCM-SHA256 ECDHE-RSA-AES256-GCM-SHA384
JARM Hash	28d28d28d2ad28d00042d42d0000002754d7386e47d3f44bdc269e2eaff0ff
SSL / TLS EV Certificate	no

Location Details

This section includes a pin on a map, and any known location details for the asset, including continent, country, time zone, and the country where the asset is registered.

Location

Continent	North America
Country	United States
Time zone	America/Chicago
Registered Country	United States

HTTP Details

HTTP Response

Content type	text/html; charset=UTF-8
Response code	301
Server	mw1430.eqiad.wmnet
Vary	Accept-Encoding,X-Forwarded-Proto,Cookie,Authorization
Document Title	Wikipedia, slobodna enciklopedija
Sets Cookies	yes
Login Forms	no
Login	no

HTTP Headers

Header name	Header value
server	mw1430.eqiad.wmnet
x-content-type-options	nosniff
p3p	CP="See https://sh.wikipedia.org/wiki/Special:CentralAutoLogin/P3P for more info."
vary	Accept-Encoding,X-Forwarded-Proto,Cookie,Authorization
cache-control	s-maxage=1200, must-revalidate, max-age=0
last-modified	Mon, 14 Feb 2022 06:19:51 GMT
location	https://sh.wikipedia.org/wiki/Glavna_stranica
content-length	0
content-type	text/html; charset=UTF-8
age	1419
x-cache	cp3062 hit, cp3064 hit/2
x-cache-status	hit-front
server-timing	cache;desc="hit-front", host;desc="cp3064"
strict-transport-security	max-age=106384710; includeSubDomains; preload

Export an Asset

In Tenable Attack Surface Management, you can export an asset in CSV or XLSX format.

To export an asset:

1. View the details page for the asset.
2. At the bottom of the page, click the **Export to CSV** or **Export to XLSX** button.

   The CSV or XLSX file immediately begins downloading.

Manage Asset Tags

You can add descriptive tags to define and categorize your assets. You can create tags that do not require any values and also which require values such as specific keywords, booleans, cost, and percentage.

Create a Tag

To create an asset tag:

1. In the assets list, do one of the following:
   - In any asset row, click the ⋮ button.

     A menu appears.
   - Select the checkbox next to any asset.

     Tenable Attack Surface Management enables the header bar.
2. Click **Add Tags**.

   A drop-down menu appears.
3. Click **Create new tag**.

   The **Create new tag** window appears.
4. In the **Tag name** box, type a name for the tag.

   In the **Value type** drop-down box, select one of the following:
   - **I don't want to assign values with this tag**
   - **Keyword**
   - **Number**
   - **Cost**
   - **Percentage**
   - **Boolean**
5. Click **Save**.

Tenable Attack Surface Management saves the tag, which you can then apply to assets.

When you create a tag with a value type, a column gets added to the assets table where you can edit the value for that tag. To add or edit the value, click the cell for that tag. For example, if you create a **Boolean** tag, you can select the required values **Yes** or **No** in the specific column for that tag.

Assign Tags to Assets

Before you begin

- Make sure you create the tags you require.

To assign tags to a single asset or multiple assets:

Scope	Action
Assign tags to a single asset	1. In the assets table, select the checkbox next to the asset to which you want to assign a tag. Tenable Attack Surface Management enables the action bar at the top of the table. 2. Click **Actions** > **Add Tags**. The list of available tags appears. 3. Select the checkbox next to the tags that you require. 4. Click **Add**. Tenable Attack Surface Management applies the tags that do not require any values. For tags that require a value, the **Enter Tag values** window appears. 5. Provide the values for the tags, if applicable and click **Save**. Tenable Attack Surface Management applies the selected tags to the asset. **Tip**: To assign tags that require a value, in the row of the asset for which you

	want to assign a tag, click the cell to add or edit the value for that tag.
Assign tags to multiple assets	1. In the assets table, select the checkboxes next to the assets to which you want to assign a tag. Tenable Attack Surface Management enables the action bar at the top of the table. 2. (Optional) To select all assets, select the checkbox at the top of the table. A message appears at the top of the table that all 25 assets on the page are selected along with a link with the total number of available assets that you can select. 3. Click **Actions** > **Add Tags**. The list of available tags appears. 4. Select the checkbox next to the tags that you require. 5. Click **Add**. Tenable Attack Surface Management applies the tags that do not require any values. For tags that require a value, the **Enter Tag values** window appears. 6. Provide the values for the tags, if applicable and click **Save**. Tenable Attack Surface Management assigns the selected tags to the selected assets.

Remove Tags

Removing tags for an asset removes the tags from Tenable Attack Surface Management and as a result from all the assets that have the specific tag.

To remove tags:

1. In the assets table, select the checkbox next to an asset that has the tag applied.

   Tenable Attack Surface Management enables the action bar at the top of the table.

2. Click **Actions** > **Remove Tags**.

   The list of available tags appears.

3. Select the checkbox next to the tags you want to remove.

4. Click **Remove**.

   Tenable Attack Surface Management removes the tag.

Tagging View

The **Tagging View** page is similar to the asset details page and shows all available data for an asset.

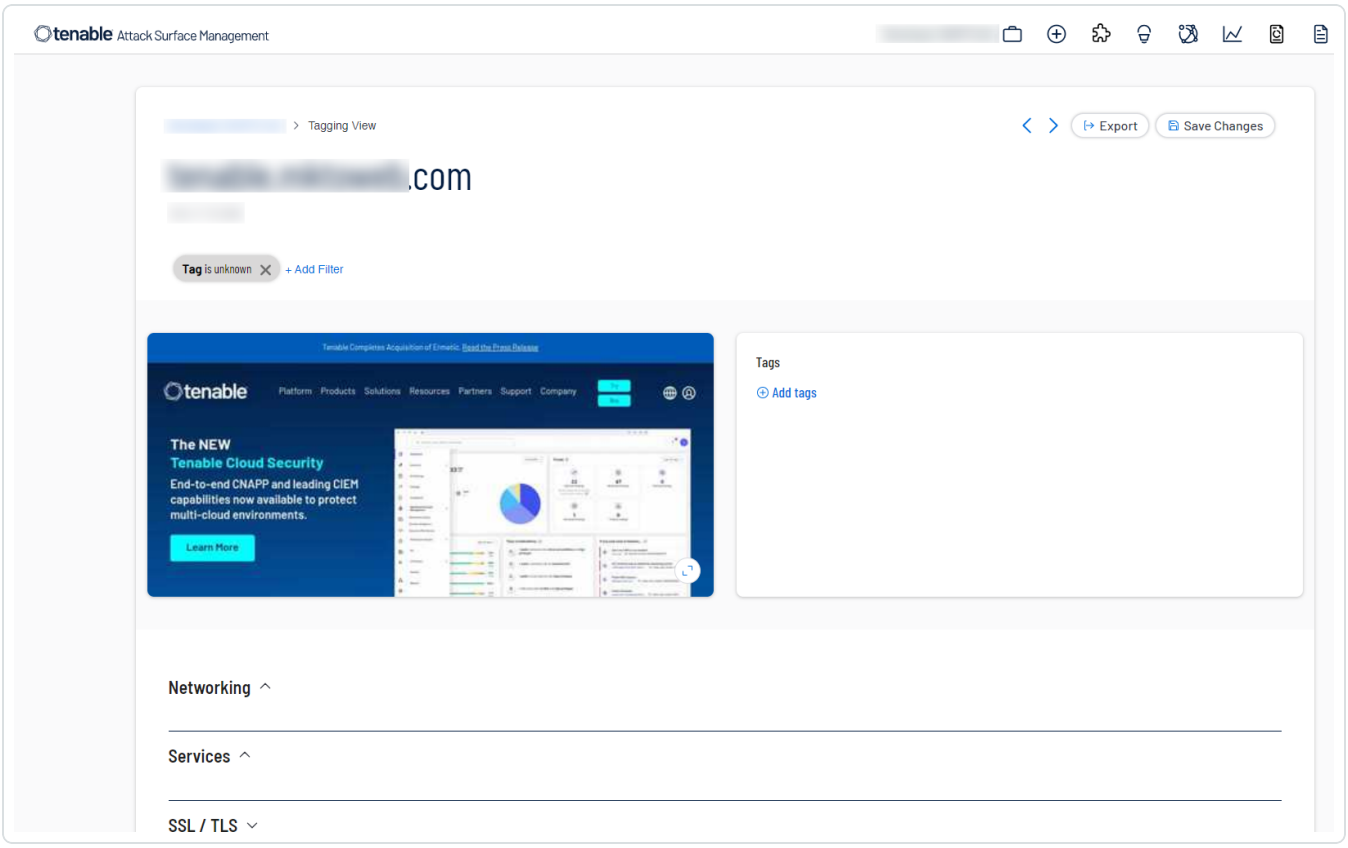
Access the Tagging View Page

1. On the Inventory page, in the upper-right corner, click the ⚙ button.

   A drop-down menu appears.

2. Select **Tag Assets Quickly**.

   The **Tagging View** page appears with details of an asset that matches the filter criteria **Tag is unknown**.



   The **Tagging View** page shows the following details about an asset:

   - Screenshot of the asset
   - Tags

- Networking
- Services
- SSL/TLS
- RBL
- Location
- General
- Web applications
- Programming
- Data
- Social
- Finance
- Marketing
- HTTP response
- HTTP headers
- HTTP Security headers
- Domain info

> **Note**: If the data for any section is not available or applicable for an asset, that section is not displayed.

> **Tip**: The shortcuts to navigate or select tags are provided at the bottom of the page.

Export the Asset Details

1. On the **Tagging View** page, in the upper- right corner, click **Export**.

   A drop-down menu appears with these options:

- Export to CSV
- Export to XLSX

2. Select a format to export the asset details.

   Tenable Attack Surface Management exports the details to the selected format and downloads it to your local system.

Tag Assets Quickly

You can use the **Tagging View** page to filter out assets that do not have any tags associated and quickly add tags to them.

To add assets:

1. On the Inventory page, in the upper-right corner, click the ⚙ button.

   A drop-down menu appears.

2. Select **Tag Assets Quickly**.

   The **Tagging View** page appears with details of an asset that matches the filter criteria **Tag is unknown**. For more information, see Tagging View.

3. (Optional) Click + **Add Filter** to add additional or new filters.

   Tenable Attack Surface Management displays an asset that matches the new filter.

4. (Optional) Click the < button or the > button to move to the next asset or the previous asset.

5. To tag the asset, in the **Tags** section, click ⊕ **Add tags** to add a new tag or click an already existing tag.

   The new tag appears in the **Tags** section.

6. Click the tag to assign them to the asset.

   The tag appears in blue indicating that the tags are selected.

7. Click **Save Changes**.

   Tenable Attack Surface Management assigns the tags to the asset.

Move or Copy Assets to another Inventory

You can move or copy assets from one inventory to another inventory. The target inventory adds these assets to a new source with the name: **From other inventories**. When you move assets, the source inventory archives these assets, whereas copying the assets leaves them in the original inventory.

Move assets from one inventory to another inventory:

1. In Tenable Attack Surface Management, in the upper-right corner, click the 🗀 button.
2. In the drop-down list, select an inventory.

   The assets list appears.
3. Select the assets you want to move to another inventory.

   Tenable Attack Surface Management enables the **Actions** menu in the upper-right corner.
4. Click **Move to another inventory**.

   The **Move Assets to another inventory** window appears.

   > **Note**: The **Move to another inventory** option is available only if the current user has **Archive** permission in the current inventory.
5. Select an inventory from the list to move the assets.

   > **Note**: Use the **Search** box to search for a specific inventory.
6. Click **Move**.

   Tenable Attack Surface Management moves the assets to the target inventory and also archives them in the source inventory.

Copy assets from one inventory to another inventory:

1. In Tenable Attack Surface Management, in the upper-right corner, click the 🗀 button.
2. In the drop-down list, select an inventory.

   The assets list appears.

3. Select the assets you want to copy to another inventory.

   Tenable Attack Surface Management enables the **Actions** menu in the upper-right corner.

4. Click **Copy to another inventory**.

   The **Copy Assets to another inventory** window appears.

5. Select an inventory to which you want to move the assets.

   > **Note**: Use the **Search** box to search for a specific inventory.

6. Click **Copy**.

   Tenable Attack Surface Management copies the assets to the target inventory and also retains them in the source inventory.

Suggested Domains

Tenable Attack Surface Management continually analyzes internet data to produce a list of suggested domains that might be related to your organization. You can use the **Suggested domains** page to verify that your organization is aware of every domain it owns. While Tenable Attack Surface Management automatically adds most assets to your inventory, some assets require further verification to confirm ownership.

To view your suggested domains:

1. In the upper right corner, click the 💡 button.

   The **Suggested domains** page appears. When there are new domain suggestions to review, the 💡 button turns yellow.

   The **Suggested domains** page shows the following details:

Columns	Description
Name	Domain names that Tenable Attack Surface Management suggests you may own.

Type	The type of suggestion. Suggestion types can be ASN, brand, domain, IP, IP range, subdomain, or nameserver.
Rules	The logic based on which Tenable Attack Surface Management suggested the domain name. Hover over the column to view the details of the logic. By default, the most recent suggestions are displayed first.
Suggestion Date	The date on which Tenable Attack Surface Management suggested the domain name.

2. On the **Suggested domains** page, you can sort the assets list as follows:
   - Filter the table to view specific suggestions.
     1. At the top of the table, click + **Add Filter**.

        The Add Filter drop-down appears.
     2. Use the **Search for Filters** box or select the filter from the list. For example, **Name**.

        The list of operators appears.
     3. Select the operator. For example, **contains**.
     4. Type the value of the filter, if needed.
     5. Click **Done**.
     6. (Optional) To add another filter, click + **Add Filter**.
        1. Repeat steps from 2 to 5.

           Tenable Attack Surface Management adds a new third filter to the list with the following options:
           - **that match all filters** — Lists only the assets that match all the filters.
           - **that match any filters** — Lists assets that match any one of the filters.

2. Select one of the options and click **Done**.

   Tenable Attack Surface Management shows the filtered results.

- Click the column header to sort the table view. For example, sorting the **Rules** column lists the domain names with multiple rules detected.

Prioritizing the Suggested Domains List

Tenable Attack Surface Management can suggest thousands of domain names. To prioritize domain names based on the likelihood of ownership:

- Sort the **Rules** column to view the suggestions with the most matching rules.
- Filter the Suggested domains table to view organization-specific assets.

Add Suggested Domains to an Inventory

Once you confirm that the suggested domains belong to your organization, you can add them to your inventory.

To add suggested domains to your inventory:

1. In the Suggested domains table, select check boxes next to the domain names you want to add to your inventory.

   Tenable Attack Surface Management displays a menu bar at the top of the table.

2. Do one of the following:

Description	Action
Add to the current selected inventory	Click the **Add to this inventory** button.
Add to a different inventory	Click the **Add to this inventory** drop-down arrow, and select an inventory from the list.

Tenable Attack Surface Management adds the domain name to the selected inventory.

Archive Suggested Domains

You can archive suggested domains to omit them from the Suggested domains list.

To archive suggested domains:

1. In the Suggested domains table, select check boxes next to the domain names to archive.

   Tenable Attack Surface Management displays a menu bar at the top of the table.

2. Click **Archive**.

   Tenable Attack Surface Management archives the selected domains and removes these domain names from the suggested domains list.

3. (Optional) To view archived suggestions:

   a. Click the ⚙ button.

      A menu appears.

   b. Select **Archived suggestions**.

      The **Archived suggestions** page appears. To go back to the **Suggested domains** page, click the 💡 button.

Suggestion Blocklist

You can add domain names, email addresses, hostname, or CIDR (Classless Inter-Domain Routing) to **Suggestion Blocklist** to exclude them from the suggested domains list.

To add items to blocklist:

1. In the **Suggested domains** page, click the ⚙ button.

   A menu appears.

2. Select **Blocklisted items**.

   The **Suggestion blocklist items** window appears with the following details:

Column	Description
Value	The domain name, email address, CIDR, or hostname for the suggestion.
Type	The type of suggestion — email, domain, hostname, or CIDR.
Extra	Additional information about the suggestion value.

3. (Optional) Use the Search blocklisted items box to search for specific blocklisted items.

4. To add a blocklist item, click **Add an additional blocklist item**.

   The **Add an additional blocklist item** window appears.

5. In the **Suggestion type** drop-down box, select one of these suggestion types: domain, email, hostname, or CIDR.

6. In the **Value** box, type a suggestion value.

7. Click **Add**.

   Tenable Attack Surface Management adds the entry to the blocklisted items list and displays the **Suggestion blocklist items** window.

8. Click **Close** to exit the window.

Manage Suggested Domains

Tenable Attack Surface Management can suggest domain names based on the assets in your inventory, brand names, email addresses, organization names, nameservers, and backref links.

To refine your suggested domains list by adding domains that belong to a specific category, you can configure the following options:

- **Manage source-based suggestions**
- **Manage brand names**
- **Manage registrator emails**
- **Manage nameservers**
- **Manage backref links**

Manage source-based suggestions

You can configure Tenable Attack Surface Management to suggest domain names based on the assets in your inventory.

To add source-based domains to your suggested domains list:

1. In the **Suggested domains** page, click the ⚙ button.

   A menu appears.

2. Select **Manage source based suggestions**.

   The **Manage source based suggestions** window appears.

3. Click **Add new suggestions based on assets in the inventory** toggle to enable this option.

4. Click **Save**.

   Tenable Attack Surface Management starts adding domain names based on the assets in your inventory.

> **Note**: You can disable the **Add new suggestions based on assets in the inventory** option to limit the suggestions to brand names.

> **Note**: When you add an entry, it may take a day for the new suggestions to appear.

Manage brand names

Configure Tenable Attack Surface Management to suggest domain names based on or similar to specific brand names. Tenable Attack Surface Management includes domain names that contain positive modifiers, and excludes those with negative modifiers.

To add suggestions based on brand names:

1. In the **Suggested domains** page, click the ⚙ button.

   A menu appears.

2. Click **Manage brand names**.

   The **Brand names** window appears.

3. Click **Add a new entry**.

   The **Add brand name** window appears.

4. Type the brand name without spaces.

5. From the **Modifier** drop-down box, select **Positive** or **Negative**.

   > **Note**: If you select a positive modifier, Tenable Attack Surface Management suggests homoglyphs or look-alike domain names based on brand names. If you select a negative modifier, Tenable Attack Surface Management excludes domain names that contain brand names.

6. Click **Save**.

   The **Brand names** window appears with the newly added brand entry.

7. (Optional) To add additional entries, click **Add a new entry** or click **Close** to exit the window.

   Tenable Attack Surface Management starts adding domain names based on brand names.

   > **Note**: When you add a new entry, it may take a day for the new suggestions to appear.

Manage registrator emails

You can add email addresses or domain names for Tenable Attack Surface Management to suggest domain names associated with these email addresses. Tenable Attack Surface Management uses the Whois registration data to uncover domain names linked to specific email addresses.

To add suggestions based on email addresses:

1. In the **Suggested domains** page, click the ⚙ button.

   A menu appears.

2. Click **Manage registrator emails**.

   The **Registrator emails** window appears.

3. Click **Add a new entry**.

   The **Add registrator email** window appears.

4. In the **Registrator email** box, type the email address or domain name. For example, *you@yourcompany.com* or *@company.com*.

5. Click **Save**.

   The **Registrator emails** window appears with the newly added entry.

6. (Optional) To add additional entries, click **Add a new entry** or click **Close** to exit the window.

   Tenable Attack Surface Management starts adding domain names that might be associated with the specified email addresses.

   > **Note**: When you add a new entry, it may take a day for the new suggestions to appear.

Manage organization names

Configure Tenable Attack Surface Management to suggest domain names based on organization names.

To add suggestions based on organization names:

1. In the **Suggested domains** page, click the ⚙ button.

   A menu appears.

2. Click **Manage organization names**.

   The **Organization Names** window appears.

3. Click **Add a new entry**.

   The **Add organization name** window appears.

4. In the **Organization name** box, type the organization name.

5. Click **Save**.

   The **Organization Names** window appears with the newly added entry.

6. (Optional) To add additional entries, click **Add a new entry** or click **Close** to exit the window.

   Tenable Attack Surface Management starts adding domain names with the specified organization names.

   > **Note**: When you add a new entry, it may take a day for the new suggestions to appear.

Manage nameservers

Configure Tenable Attack Surface Management to suggest domain names based on nameservers.

To add suggestions based on nameservers:

1. In the **Suggested domains** page, click the ⚙ button.

   A menu appears.

2. Click **Manage nameservers**.

   The **Nameservers** window appears.

3. Click **Add a new entry**.

   The **Add nameserver** window appears.

4. In the **Nameserver** box, type the nameserver to add. For example, *ns.yourcompany.com*.

5. Click **Save**.

   The **Nameservers** window appears with the newly added entry.

6. (Optional) To add more entries, click **Add a new entry** or click **Close** to exit the window.

   Tenable Attack Surface Management starts adding domain names associated with the nameservers.

   > **Note**: When you add a new entry, it may take a day for the new suggestions to appear.

Manage backref links

Configure Tenable Attack Surface Management to suggest domain names using backref links.

To add suggestions based on organization names:

1. In the **Suggested domains** page, click the ⚙ button.

   A menu appears.

2. Click **Manage backref links**.

   The **Backref links** window appears.

3. Click **Add a new entry**.

   The **Add backref link** window appears.

4. In the **Backref link** box, type the backref link. For example, `https://www.yourcompany.com/privacy-policy`.

5. Click **Save**.

   The **Backref links** window appears with the newly added entry.

6. (Optional) To add additional entries, click **Add a new entry** or click **Close** to exit the window.

   Tenable Attack Surface Management starts adding domain names associated with the backref links.

   > **Note**: When you add a new entry, it may take a day for the new suggestions to appear.

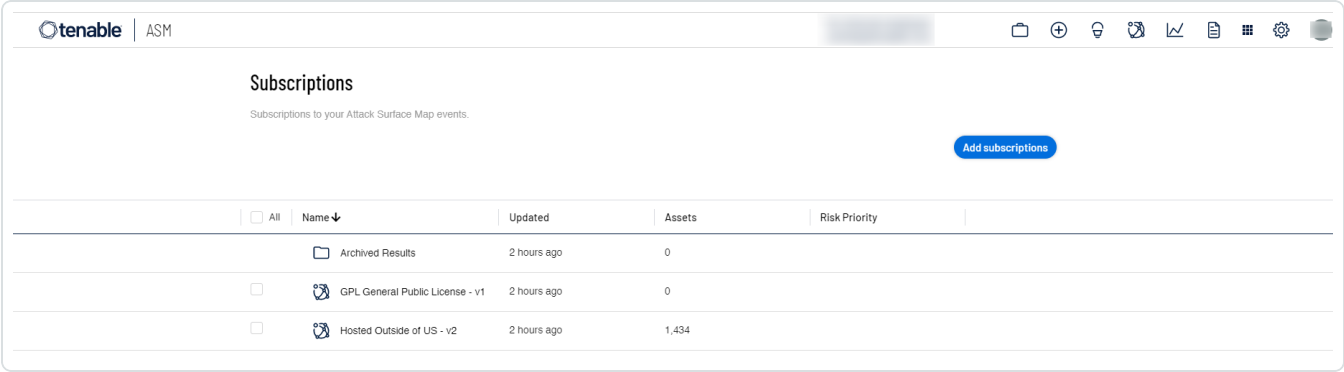
Subscriptions

Tenable Attack Surface Management subscriptions notify you about important changes to your attack surface, including new servers, newly opened or closed ports, and new software. You can configure your subscriptions to include the changes that you think are most important.

To access **Subscriptions**:

1. In the upper right corner, click the button.

   The **Subscriptions** page appears.



Set Up Notifications

When a particular event occurs on your attack surface, you can receive notifications via email, ServiceNow email, or Slack.

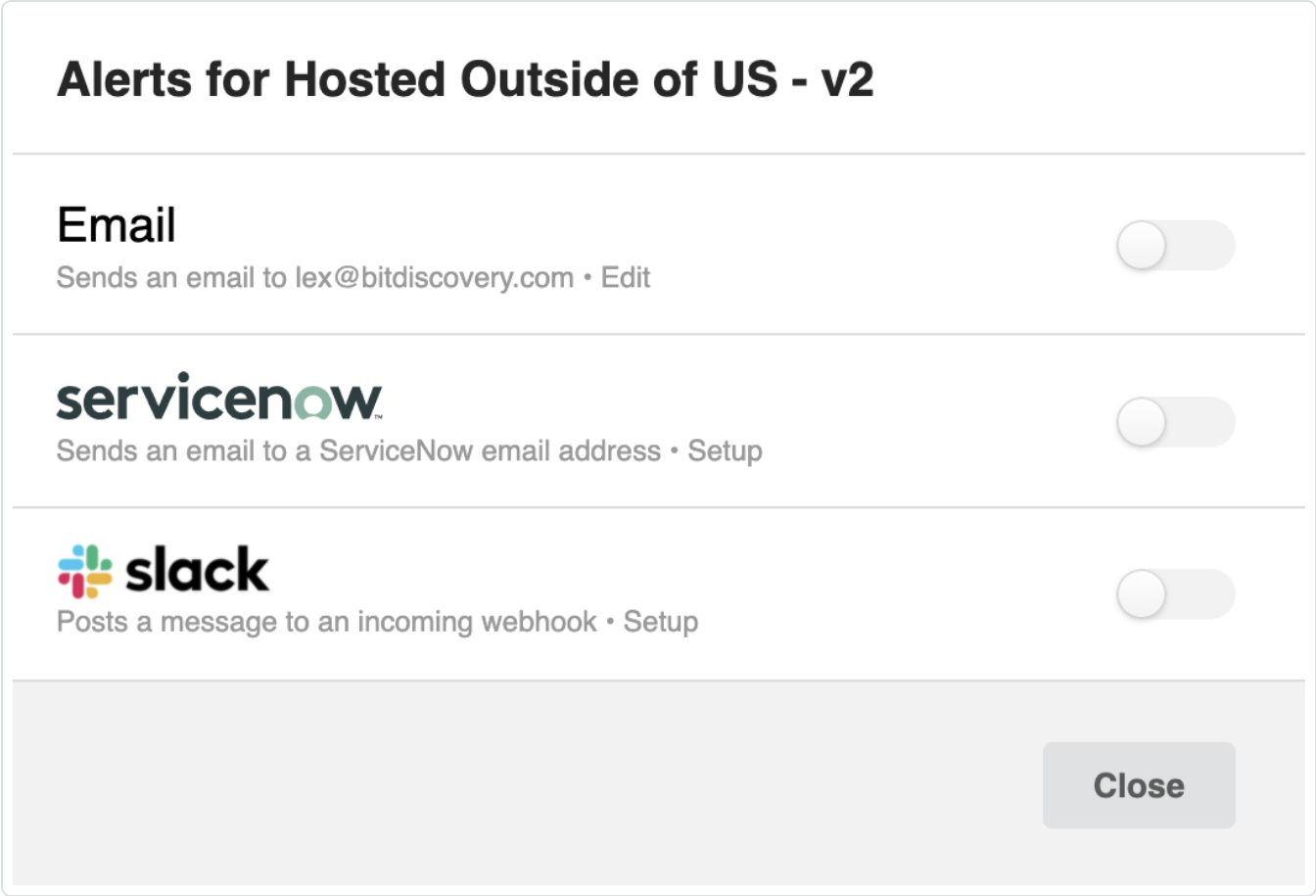
For example: You may want to receive notifications if Tenable Attack Surface Management discovers one of your assets outside of the USA.

To configure notifications:

1. Hover your mouse over the subscription titled **Hosted Outside of US**.

2. Click the bell icon.

   The following options appear:



- Email:
    a. Click the toggle to enable the Email option.
    b. Type the email address in which you want to receive the notifications.
    c. Click **Save**.

    > **Note**: You can click **Send Test Alert** to send a sample email to the specified email address.

- ServiceNow
    a. Click the toggle to enable the ServiceNow option.
    b. Type the ServiceNow email address in which you want to receive the notifications.
    c. Click **Save**.

> **Note**: You can click **Send Test Alert** to send a sample email to the specified email address.

- Slack

  a. Click the toggle to enable the Slack option.

  b. Type the Slack WebHook URL of the channel in which you want to receive the notifications.

  c. Click **Save**.

  > **Note**: You can click **Send Test Alert** to send a sample message to the specified Slack channel.

Add Subscriptions

Tenable Attack Surface Management provides an ever-growing list of hundreds of events that you can subscribe to.

To add subscriptions:

1. Click the **Add subscriptions** button.

   The **Add Subscriptions** window appears.

2. (Optional) Click **All Categories** and select the required category from the list. By default, Tenable Attack Surface Management displays all categories.

   Tenable Attack Surface Management lists the subscriptions of the selected category.

3. For the subscriptions that you want to add, in the **Action** column, click **Subscribe**.

   Tenable Attack Surface Management adds the subscription.

Predefined Subscription Categories

You can subscribe to the following predefined subscription categories:

- Compliance — Subscriptions that focus on compliance-related issues, such as GDPR, Copyleft issues, and so on.
- Exposure — Subscriptions that indicate known exposures, such as CVEs, WordPress vulnerabilities, and so on.
- Geography — Geographic subscriptions, such as assets hosted outside the US, and so on.
- IT Hygiene — Subscriptions that highlight applications that are broken or misconfigured, such as SSL/TLS issues, 500 errors, and so on.
- Marketing — Subscriptions that show SEO or marketing issues, such as lack of SEO plugins, disabled caching, and so on.
- Technology — Subscriptions that help identify certain technologies, such as F5, IoT devices, and so on.

Create Custom Subscriptions

You can create custom subscriptions by filtering your inventory and saving the filter as a subscription.

To create custom subscriptions:

1. In Tenable Attack Surface Management, in the upper-right corner, click the 🗀 button.
2. In the drop-down list, select the inventory that you want to view.

   Your inventory appears.
3. Click + **Add Filter** and add the required filter to your inventory.
4. Click Save.

   The **Create Subscription** window appears.
5. Type a name for the subscription.
6. Click **Create Subscription**.

   Tenable Attack Surface Management saves the subscription and adds it to the list of subscriptions.

Share a Subscription

You can share your subscription with others using a link.

To share a subscription:

1. Hover your mouse over the subscription.
2. Click the icon.

   The **Share Subscription** window appears.
3. Select the number of days after which you want the subscription to age out.

   The default number of days is 7. You can set a maximum limit of up to 30 days.
4. Click **Generate Link**.

   The Share Subscription window displays a link.
5. Click **Copy Link**.

   You can now share this link with others.

Copy a Subscription

In Tenable Attack Surface Management, you can copy a subscription to an inventory.

1. Select the check boxes for the subscriptions you want to copy.
2. Click **Copy Subscriptions**.

   The **Copy Subscription to the following Inventories** window appears.
3. Select the inventory to which you want to copy the subscription.
4. Click the **Next** button.

   Tenable Attack Surface Management copies the subscription to the inventory.

Delete a Subscription

1. Select the check boxes for the subscriptions you want to delete.
2. Click the **Delete** button.

   A dialog box appears, confirming you want to delete the subscription.
3. Click the **Delete** button.

   Tenable Attack Surface Management deletes the subscription.

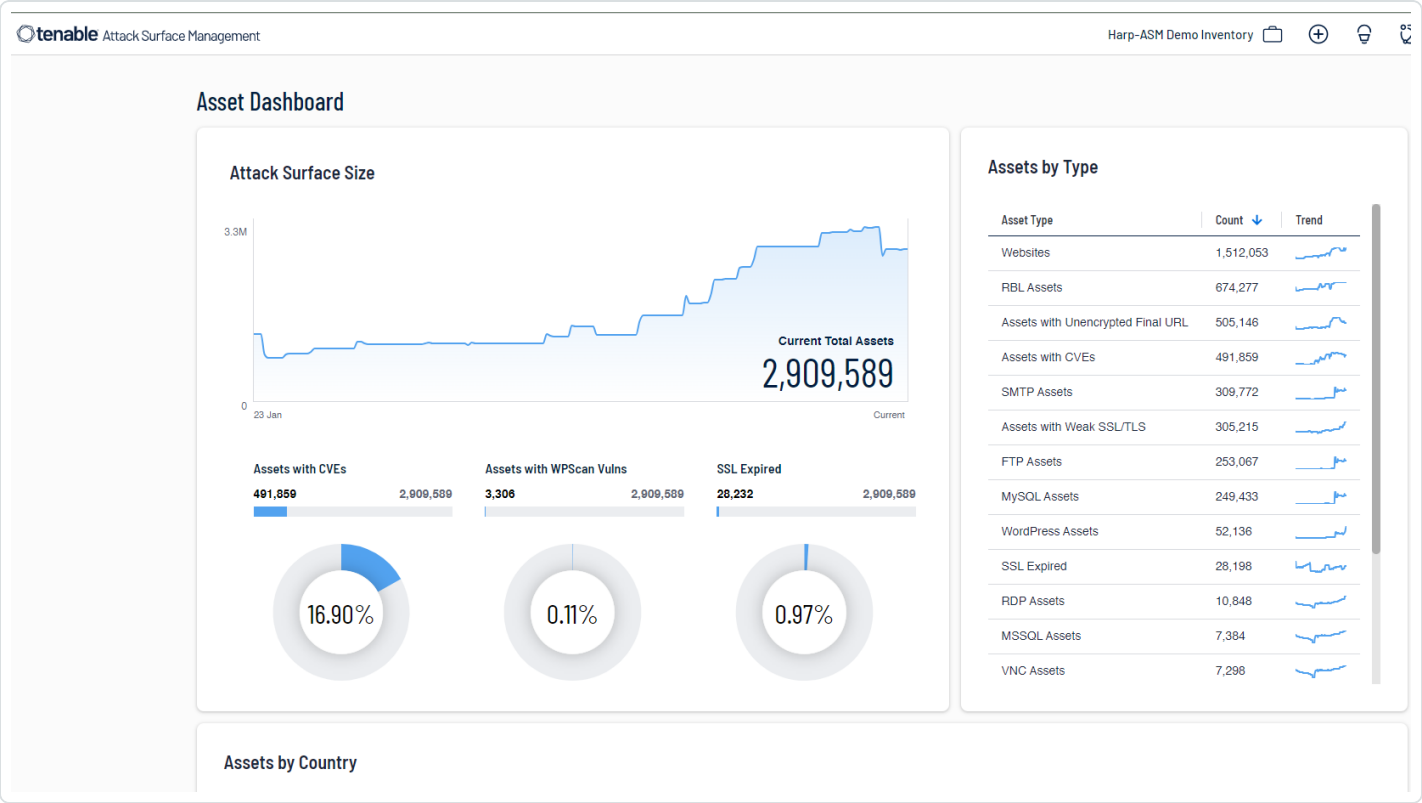
Dashboard

The Tenable Attack Surface Management dashboard provides insights into the assets in your organization.

To view your dashboard:

1. In Tenable Attack Surface Management, in the upper-right corner, click the button.

   The **Asset Dashboard** page appears.



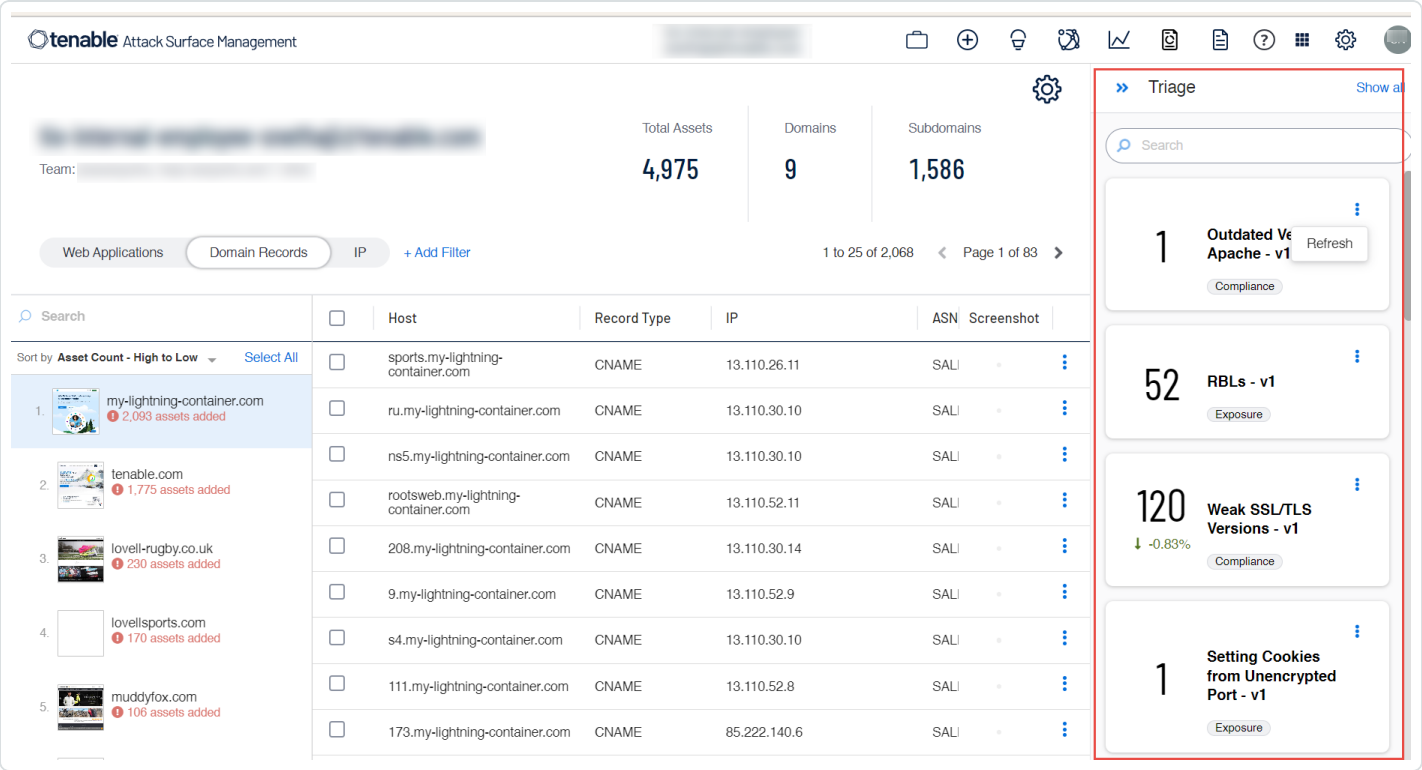
Click a widget to view a filtered list of assets in your inventory that match the widget criteria.

Widget	Description
Attack Surface Size	The attack surface percentage of the total assets.
Assets by Type	The number of assets by type.
Attack Surface by Criticality /Severity Ranking over Time	The number of affected assets by their severity. **Note**: The **Current Total Assets** number in the chart only

	includes assets that have a ranking which is not **None**.
Assets by Country	The number of assets by country.
Assets by Web Servers	The number of assets by the hosted web servers.

Triage

The **Triage** panel of Tenable Attack Surface Management provides a high-level overview of your assets by listing the critical events in your organization along with the number of your affected assets.



To view the **Triage** panel:

1. In the right-hand side bar, click **Triage**.

   The **Triage** panel appears with the following details:

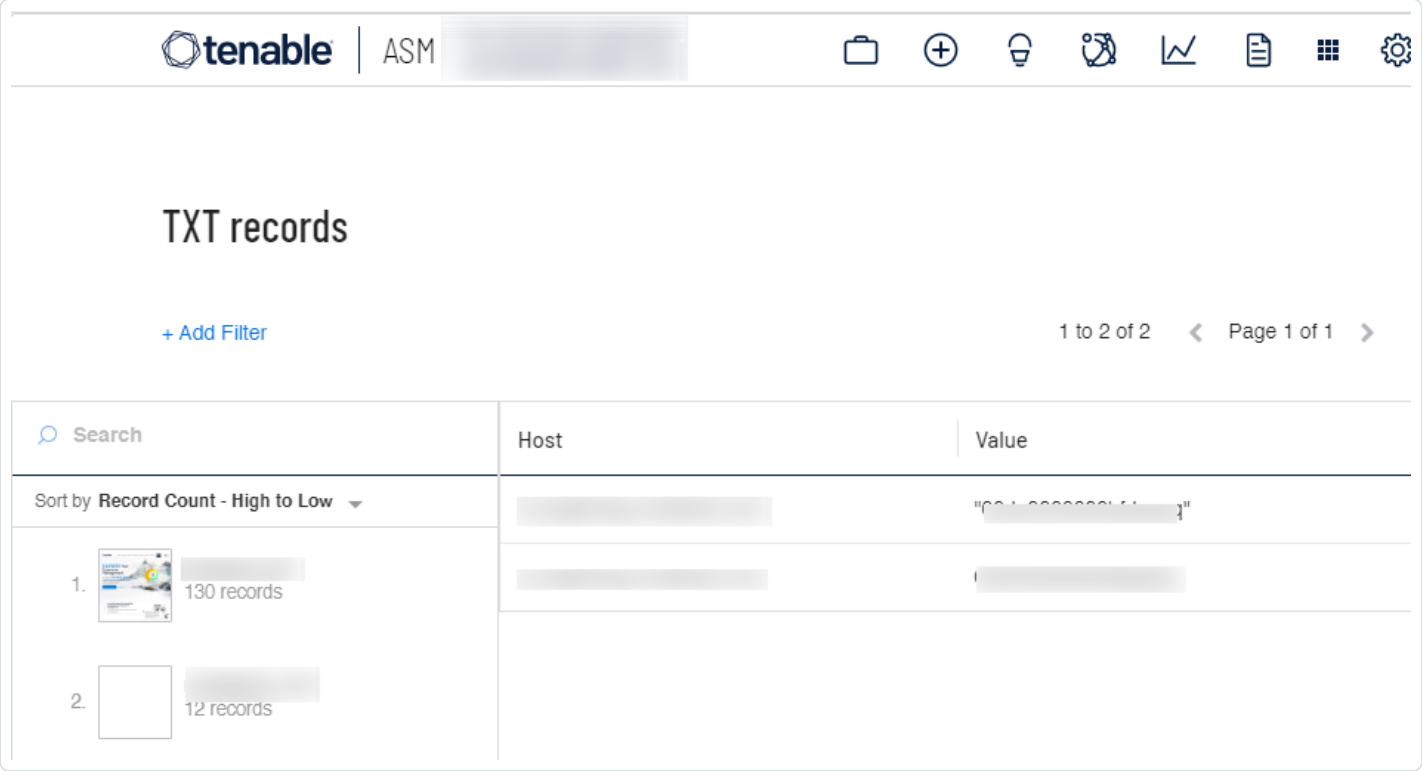
   - List of critical events or triage items in the order of their severity level with the number of affected assets and the category of the event. The events appear in the order of their severity levels — the most important ones appear first. Each triage item also displays the difference in the previous and current number of affected assets as a percentage. Event names are based on the subscription templates.
   - Tenable Attack Surface Management automatically refreshes the list daily. To refresh the data, click ⋮ > **Refresh**. Once you click **Refresh**, the option gets disabled for an hour

accordingly.

- Click an event name to view the assets with the applied filters on the **Inventory** page.
- Click **Show All** to open **Triage** on a separate page.

TXT Records

On the **TXT records** page, you can view all text files in your inventory identified by Tenable Attack Surface Management.



To view your text records:

1. In Tenable Attack Surface Management, in the upper-right corner, click the button.

   The **TXT records** page appears. The TXT records table includes the following details:

Column	Description
Host	The hostname of the asset.
Value	The value of the text record.

2. In the left navigation pane, use the **Search** box to search for a specific record or select the required record.

   Tenable Attack Surface Management displays the list of hostnames and the associated text records.

3. (Optional) Use the filter to view specific text records.

    1. At the top of the table, click + **Add Filter**.

       The Add Filter drop-down appears.

    2. Use the **Search for Filters** box or select the filter from the list: **Hostname** or **Record Value**.

       The list of operators appears.

    3. Select the operator. For example, **contains**.

    4. Type the value of the filter, if needed.

    5. Click **Done**.

    6. (Optional) To add another filter, click + **Add Filter**.

        1. Repeat steps from 2 to 5.

           Tenable Attack Surface Management adds a new third filter to the list with the following options:

           - **that match all filters** — Lists only the assets that match all the filters.
           - **that match any filters** — Lists assets that match any one of the filters.

        2. Select one of the options and click **Done**.

           Tenable Attack Surface Management shows the filtered results.

User Profile

Your user profile displays information about your account and your user settings. On this page, you can manage your personal information, set up multi-factor authentication, and manage your API keys.

To view your profile, in the upper right corner, click your profile picture or initials.

Basic Info

In this section, you can upload a profile photo and update your first name, last name, and email address.

Multi-Factor Authentication

In this section, you can enable multi-factor authentication.

To configure multi-factor authentication:

1. In the upper right corner, click your profile picture or initials.

   Your user profile appears.

2. In the **MFA** section, click the slider to enable multi-factor authentication.

3. Log out of Tenable Attack Surface Management and log back in.

   You will be prompted to select an authenticator app.

4. Select an authenticator app and follow the setup instructions.

   > **Note:** Save the provided backup codes in case you lose the device with your authenticator app.

5. Type your multi-factor authentication code from your authenticator app and finish logging in to Tenable Attack Surface Management.

   Each time you log in to Tenable Attack Surface Management, you will be prompted to enter the code.

API Keys

In this section, you can manage and copy your API keys. For more information about the Tenable Attack Surface Management API, see the Tenable Attack Surface Management API documentation.

Generate API Keys

The API keys associated with your user account allow you to access the Tenable Attack Surface Management APIs. You can generate two types of API keys:

- API keys that only give access to data in the current inventory, which you can also use to obtain API keys for other inventories.
- API key that can grant access only to the current inventory.

To generate API keys:

1. In the upper right corner, click your profile picture or initials.

   Your user profile appears.

2. Do one of the following:

   - To generate API keys for all your inventories: In the **API Key for all your inventories** section, click **Copy API Key**.

     You can click **Generate new key & invalidate current** to generate a new key, if needed.

   - To generate an API key for your inventory: In the **API Key for <your inventory name>** section, click **Copy API Key**.

     > **Note**: If you click **Invalidate all old keys**, Tenable Attack Surface Management logs you out and invalidates all your old keys. When you log in again, Tenable Attack Surface Management generates new keys.

You can now use the API keys to pull assets from all your inventories or grant access to your inventory.

For more information about the Tenable Attack Surface Management API, see the [Tenable Attack Surface Management API documentation](#).

Manage Integrations

You can integrate Tenable Attack Surface Management with AWS and Cloudflare. This allows you to add the assets data from these sources to your inventory. You can manage all your integrations from the **Integrations** page.

To access your integrations page:

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

   The **All Integrations** page appears.

Add Integrations

Before you begin

- For Cloudflare integration, make sure that you have the API keys generated from your Cloudflare account.

To add integrations:

1. Do one of the following:

    - In the upper-right corner, click + **Add**.
    - In the bar above the table, click + **Add**.
    - In the Integrations table, click **Add your first one**, if you are adding the integration for the first time,

    A drop-down appears with these options: Cloudflare and AWS.

2. Select the required product for integration.

    The **Add Integration** window for the selected product appears.

    - Integrate with Cloudflare
    - Integrate with AWS

3. Click **Add**.

    Tenable Attack Surface Management saves the integration and lists the integration in the **All Integrations** table.

Filter by Integration Type

To filter by type, in the left navigation pane, click **Cloudflare** or **AWS** to view only the integrations for the selected type.

Edit Integration

To edit an integration:

1. In the row of the integration you want to edit, click the ⋮ button.

   A list of options appears.

2. Select **Edit**.

   The Edit window for the respective integration type appears.

3. Modify the values as needed.

4. Click **Save**.

   Tenable Attack Surface Management saves the integration.

Delete Integration

To delete an integration:

1. Do one of the following:

Scope	Action
Delete a single integration	1. Do one of the following: • In the row of the integration you want to edit, click the ⋮ button. A list of options appears. • Select the check box next to the integration you want to delete. Tenable Attack Surface Management enables the action bar at the top of the table. 2. Click **Delete**.
Delete multiple integrations	1. Select the check boxes next to the integrations you want to delete. Tenable Attack Surface Management enables the action bar at the top of the table. 2. Click **Delete**.
Delete all integrations	1. Select the integrations check box at the top of the table to select all integrations. Tenable Attack Surface Management enables the action bar at the top of the table. 2. Click **Delete**.

Tenable Attack Surface Management deletes the integrations.

Integrate with Cloudflare

You can integrate Tenable Attack Surface Management with your Cloudflare account to add assets data from Cloudflare to your inventories.

Before you begin

- Make sure that you have the API keys generated from your Cloudflare account.

To integrate Cloudflare with Tenable Attack Surface Management:

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

   The **All Integrations** page appears.

2. In the left navigation pane, click **Cloudflare**.

   The Cloudflare integrations page appears.

3. Do one of the following:

   - In the upper-right corner, click **Add Cloudflare**.
   - In the bar above the table, click **Add Cloudflare**.

     The **Add Cloudflare Integration** window appears.

4. In the **Name** box, type a name for the integration.
5. In the **API Key** box, provide the API key for your Cloudflare account.
6. Click **Add**.

   Tenable Attack Surface Management saves the integration and lists the integration in the Integrations table. Once the integration is complete, you can add sources from Cloudflare. For more information, see Add sources from Cloudflare.

Integrate with AWS

You can integrate Tenable Attack Surface Management with your AWS account to add sources from AWS to your inventories.

Before you begin

- Make sure that you have the Access key and Secret key generated from your AWS account. For more information, see ReadOnlyAccess in the AWS documentation.

To integrate AWS with Tenable Attack Surface Management:

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

   The **All Integrations** page appears.

2. In the left navigation pane, click **AWS**.

   The **AWS** integrations page appears.

3. Do one of the following:

   - In the upper-right corner, click **Add AWS**.
   - In the bar above the table, click **Add AWS**.

     The **Add AWS Integration** window appears.

4. In the **Name** box, type a name for the integration.
5. In the **Access Key** box, provide the access key for your AWS account.
6. In the **Secret key** box, provide the secret key for your AWS account.
7. Click **Add**.

   Tenable Attack Surface Management saves the integration and lists it in the Integrations table. Once the integration is complete, you can add sources from AWS. For more information, see Add Sources from AWS.

   > **Note**: You cannot modify the keys after they are added. You can only rename or delete the AWS key.

Reports

You can create a report that summarizes the details of all your inventories across different indexes such as CVEs, web servers, ports, and so on. You can use the report to measure the size and scope of your organizational attack surface map.

> **Note**: To create reports, you must have the **Manage ad hoc queries** permission. To run the reports, you must have the **Run ad hoc queries** permission.

To access the **Reports** page,

1. On the **Inventory** page, in the upper-right corner, click the button.

   The **Reports** page appears with the following details:

Column	Description
Name	Name of the report.
Status	Indicates the status of the report. Available statuses are: **Waiting**, **Running**, **Done**, and **Error**.
Last Modified	Indicates when the report was last changed.
Last run	Indicates when the report was last generated.

You can do the following actions from the **Reports** page.

Add a report:

1. In the **Reports** page, click **Add Report**.

   The **Add Report** page appears.

2. In the **Name** box, type a name for the report.

3. Do one of the following:

   - **Add Report** — Click to add the report to the **Reports** page and to run it at a later time. The entries appear in bold on the **Reports** page indicating the reports are new and

remain so until you refresh the page.

- **Add and Run Report** — Click to add the report and then run it immediately. If you selected **Add and Run Report**, the **Status** column on the **Reports** page shows **Running**.

Tenable Attack Surface Management adds the report to the **Reports** page.

Run a report:

1. On the **Reports** page, run a report or multiple reports:

Scope	Action
Run a single report	1. Do one of the following: • In the row of the report you want to run, click the button. A menu appears. • Select the check box next to the report you want to run. Tenable Attack Surface Management enables the action bar. 2. Click **Run Report**.
Run multiple reports	1. Select the check boxes next to the reports you want to run. Tenable Attack Surface Management enables the action bar. 2. Click **Run Reports**.

Tenable Attack Surface Management shows a confirmation message when the report generation is complete.

View Report Details:

1. On the **Reports** page, in the row of the report you want to view the details, click the ⋮ button.
2. Click **View Report Details**.

   The **Report Details** page appears with the following information:

Section	Description
Download PDF	A link to download the generated report.
Summary	Shows details such as the start time, end time, duration of the report generation and the current status of the report.
Log	Shows any errors that occurred when generating the report. Click **Copy** to copy the log to share or for further analysis.

3. Click **Done** to close the **Report Details** page.

Edit a Report:

1. On the **Reports** page, in the row of the report you want to edit, click the ⋮ button.
2. Click **Edit Report**.

   The **Edit Report** page appears.
3. Edit the report details as needed.
4. Click **Save**.

   Tenable Attack Surface Management saves the updated report.

Delete Report:

1. On the **Reports** page, to delete a report or multiple reports:

Scope	Action
Delete a single report	1. Do one of the following: • In the row of the report you want to delete, click the ⋮ button. A menu appears. • Select the check box next to the report you want to delete. Tenable Attack Surface Management enables the action bar. 2. Click **Delete Report**.
Delete multiple reports	1. Select the check boxes next to the reports you want to delete. Tenable Attack Surface Management enables the action bar. 2. Click **Delete Reports**.

Tenable Attack Surface Management shows a confirmation message that the report is permanently deleted.