Tenable One OT Exposure 4.6 Enterprise Manager User Guide

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Welcome to Tenable One OT Exposure Enterprise Manager

Tenable One OT Exposure Enterprise Manager (Tenable One OT Exposure EM) (formerly Tenable.ot Enterprise Manager) provides an additional layer of enterprise-wide visibility and control on top of the standard functionality of Tenable One OT Exposure. Each instance of Tenable One OT Exposure offers full threat detection and asset management capabilities for the site at which it is deployed. The Tenable One OT Exposure EM enables you to access the full functionality of all of your Tenable One OT Exposure instances from a single application.

Tenable One OT Exposure (Tenable One OT Exposure) (formerly Tenable.ot) protects industrial networks from cyber threats, malicious insiders, and human error. From threat detection and mitigation to asset tracking, vulnerability management, configuration control and Active Query checks, Tenable One OT Exposure's ICS security capabilities maximize your operational environment's visibility, security, and control.

Tenable One OT Exposure offers comprehensive security tools and reports for IT security personnel and OT engineers. It provides visibility into converged IT/OT segments and ICS activity, and makes you aware of situations across all sites and their respective OT assets—from Windows Servers to PLC backplanes—in a single pane of glass.

Tenable One OT Exposure has the following key features:

- **360-Degree Visibility** – Attacks can easily propagate in an IT/OT infrastructure. With a single platform to manage and measure cyber risk across your OT and IT systems, you have complete visibility into your converged attack surface. Tenable One OT Exposure also natively integrates with IT security and operational tools, such as your Security Information and Event Management (SIEM) solution, log management tools, next-generation firewalls, and ticketing systems. Together, this builds an ecosystem where all of your security products can work together as one to keep your environment secure.

- **Threat Detection and Mitigation** – Tenable One OT Exposure leverages a multi-detection engine to find high-risk events and behaviors that can impact OT operations. These engines include policy, behavioral and signature-based detection.
- **Asset Inventory and Active Detection** – Leveraging patented technology, Tenable One OT Exposure provides visibility into your infrastructure—not only at the network level, but down to the device level. It uses native communication protocols to query both IT and OT devices in your ICS environment in order to identify all of the activities and actions occurring across your network.
- **Risk-Based Vulnerability Management** – Drawing on comprehensive and detailed IT and OT asset tracking capabilities, Tenable One OT Exposure generates vulnerability and risk levels using Predictive Prioritization for each asset in your Industrial Control Systems (ICS) network. These reports include risk-scoring and detailed insights, along with mitigation suggestions.
- **Configuration Control** – Tenable One OT Exposure provides a full granular history of device configuration changes over time, including specific ladder logic segments, diagnostic buffers, tag tables and more. This enables administrators to establish a backup snapshot with the "last known good state" for faster recovery and compliance with industry regulations.

> **Tip:** The *Tenable OT Security User Guide* and user interface are available in English, Japanese, German, French, and Simplified Chinese. To change the user interface language, see Local Settings.

For additional information on Tenable One OT Exposure, review the following customer education materials:

- Tenable One OT Exposure Introduction (Tenable University)

Tenable One OT Exposure Technologies

The Tenable One OT Exposure comprehensive solution comprises two core collection technologies:

- **Network Detection** – Tenable One OT Exposure network detection technology is a passive deep-packet inspection engine designed to address the unique characteristics and requirements of industrial control systems. Network Detection provides in depth, real-time visibility into all activities performed over the operational network, with a unique focus on engineering activities. This includes firmware downloads/uploads, code updates, and configuration changes performed over proprietary, vendor-specific communication protocols. Network detection alerts in real time for suspicious/unauthorized activities and produces a comprehensive event log with forensic data. Network Detection generates three types of alerts:
    - **Policy Based** – You can activate predefined policies or create custom policies which allow list and/or block list specific granular activities indicative of cyber threats or operational mistakes to trigger alerts. Policies can also be set to trigger Active Query checks for predefined situations.
    - **Behavioral Anomalies** – The system detects deviations from a network traffic baseline, which was established based on traffic patterns during a specified time range. It also detects suspicious scans that are indicative of malware and reconnaissance behaviors.
    - **Signature Detection Policies** – These policies use signature-based OT and IT threat detection to identify network traffic that is indicative of intrusion threats. The detection is based on rules that have been cataloged in Suricata's Threats engine.
- **Active Query** – Tenable One OT Exposure's patented querying technology monitors devices that are on the network by periodically surveying the metadata of control devices in the ICS network. This capability enhances Tenable One OT Exposure's ability to automatically discover and classify all the ICS assets, including lower-level devices such as PLCs and RTUs, even when they aren't active in the network. It also identifies locally implemented changes in the device's metadata (for example firmware version, configuration details, and state) as well as changes in each code/function block of the device's logic. Since it uses read-only queries in the native controller communication protocols, it is safe and has no impact on the devices. Queries can be run periodically based on a predefined schedule or on-demand by

the user.

Solution Architecture

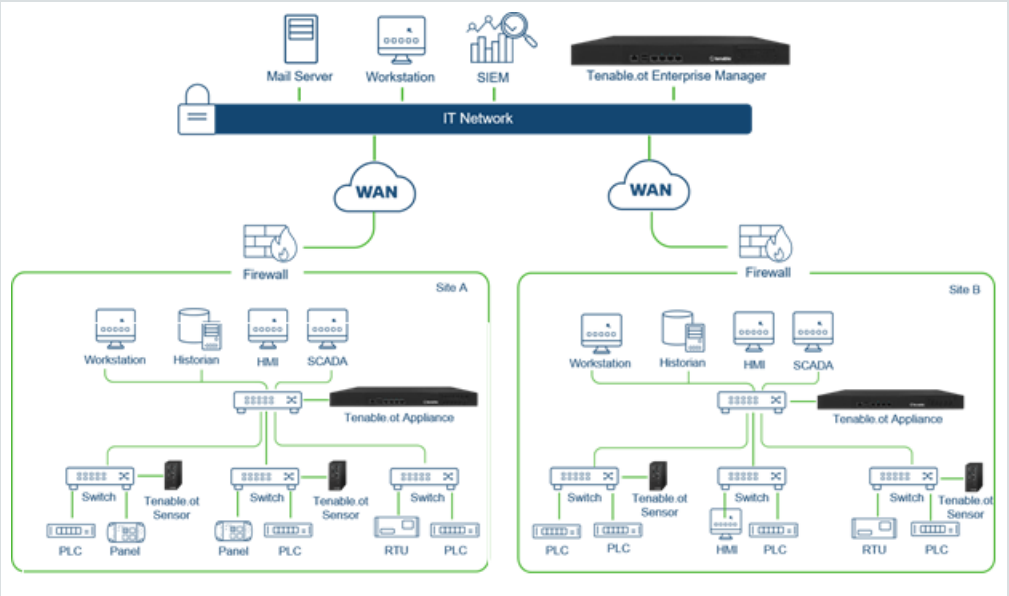
Tenable One OT Exposure Components

> **Note**: In this document, the Tenable One OT Exposure Appliance is referred to as ICP (Industrial Core Platform).

The Tenable One OT Exposure solution is composed of these components:

- **Tenable One OT Exposure Enterprise Manager (Tenable One OT Exposure EM)** – This component collects data from Tenable One OT Exposure at multiple sites, enabling you to configure, manage, control, and report on everything that happens across your OT enterprise. The Tenable One OT Exposure EM can be deployed on premises as part of your NOC/SOC on a dedicated appliance (same model as the on-site Tenable One OT Exposure appliance), or it can be deployed on a private or public cloud such as a virtual machine or AWS cloud service.
- **ICP** (**Tenable One OT Exposure Appliance**)– This component collects and analyzes the network traffic directly from the network (via a span port or network tap) and/or using a data feed from the Tenable One OT Exposure Sensor (OT Exposure Sensor). The ICP appliance executes both the Network Detection and Active Query functions.
- **Tenable One OT Exposure Sensors** – These are small devices deployed on network segments that are of interest, up to one sensor per managed switch. Tenable One OT Exposure sensors provide full visibility into these network segments by capturing all the traffic, compressing the data and then communicating the information to the Tenable One OT Exposure appliance. You can configure Sensors version 3.14 and later to send out active

queries to the network segments on which they are deployed.



Network Components

Tenable One OT Exposure supports interaction with the following network components:

- **Tenable One OT Exposure user (management)** – You can create user accounts to control access to the Tenable One OT Exposure Management Console. You can access the Management Console through a browser (Google Chrome) via a secure socket-layer authentication (HTTPS).

Note: You can only access Tenable One OT Exposure user interface from the latest version of Chrome.

- **SIEM**– Send Tenable One OT Exposure Event logs to a SIEM using Syslog protocol.
- **SMTP Server** – Tenable One OT Exposure sends event notifications by email to specific groups of employees via an SMTP server.

- **DNS Server** – Integrate DNS servers into Tenable One OT Exposure to help in resolving asset names.
- **Third-party applications** – External applications can interact with Tenable One OT Exposure using its REST API or access data using other specific integrations[1].

[1]For example, Tenable One OT Exposure supports integration with Palo Alto Networks Next Generation Firewall (NGFW) and Aruba ClearPass, enabling Tenable One OT Exposure to share asset inventory info with these systems. Tenable One OT Exposure can also integrate with other Tenable platforms such as Tenable One Vulnerability Management and Tenable Security Center. Integrations are configured under **Local Settings** > **Integrations**, see Integrations.

System Elements

Assets

Assets are the hardware components in your network such as controllers, engineering stations, and servers. Tenable One OT Exposure's automated asset discovery, classification, and management provides an accurate asset inventory by continuously tracking all changes to devices. This simplifies sustaining of operational continuity, reliability, and safety. It also plays a key role in planning maintenance projects, prioritizing upgrades, patch deployments, incident response, and mitigation efforts.

Risk Assessment

Tenable One OT Exposure applies sophisticated algorithms to assess the degree of risk posed to each asset on the network. A Risk Score (from 0 to 100) is given for each Asset in the network. The Risk score is based on the following factors:

- **Events** – Events in the network that affected the device (weighted based on Event severity and how recently the Event occurred).

  > **Note**: Events are weighted according to currency, so that more recent Events have a greater impact on the Risk score than older Events.

- **Vulnerabilities** – CVEs that affect assets in your network, as well as other threats identified in your network (for example, obsolete operating systems, usage of vulnerable protocols and vulnerable open ports). In the Tenable One OT Exposure, these are detected as plugin hits on your assets.

- **Asset Criticality** – A measure of the importance of the device to the proper functioning of the system.

  > **Note**: For PLCs that are connected to a backplane, the Risk score of other modules that share the backplane affect the PLC's Risk score.

Policies and Events

Policies define specific types of events that are suspicious, unauthorized, anomalous, or otherwise noteworthy that take place in the network. When an event occurs that meets all the Policy Definition conditions for a particular Policy, Tenable One OT Exposure generates an Event. Tenable One OT Exposure logs the Event and sends notifications in accordance with the Policy Actions configured for the policy.

There are two types of policy events:

- **Policy-based Detection** – Triggers events when the precise conditions of the policy, as defined by a series of event descriptors, are met.

- **Anomaly Detection** – Triggers events when anomalous or suspicious activity is identified in the network.

The system features a set of predefined policies (out-of-the-box). In addition, the system offers the ability to edit the predefined policies or define new custom policies.

Policy-Based Detection

For Policy-based detection, you configure the specific conditions for what events in the system trigger Event notifications. Policy-based Events are triggered only when the precise conditions of the policy are met. This ensures zero false positives, as the system alerts for actual events that take place in the ICS network, while providing meaningful detailed information about the 'who', 'what', 'when', 'where', and 'how'. The policies can be based on various Event types and descriptors.

The following are some examples of possible policy configurations:

- **Anomalous or unauthorized ICS control-plane activity (engineering)** – An HMI should not query the firmware version of a controller (may indicate reconnaissance), and a controller should not be programmed during operational hours (may indicate unauthorized, potentially malicious activity).
- **Change to controller's code** – A change to the controller logic was identified ("Snapshot mismatch").
- **Anomalous or unauthorized network communications**– An un-allowed communication protocol was used between two network assets or a communication took place between two assets that never communicated before.
- **Anomalous or unauthorized changes to the asset inventory** – A new asset was discovered or an asset stopped communicating in the network.
- **Anomalous or unauthorized changes in asset properties** – The asset firmware or state has changed.
- **Abnormal writes of set-points** – Events are generated for changes made to specific

parameters. The user can define the allowed ranges for a parameter and generate Events for deviations from that range.

Anomaly Detection

Anomaly Detection policies discover suspicious behavior in the network based on the system's built-in capabilities for detecting deviations from 'normal' activity. The following anomaly detection policies are available:

- **Deviations from a network traffic baseline**: the user defines a baseline of 'normal' network traffic based on the traffic map during a specified time range and generates alerts for deviations from the baseline. The baseline can be updated at any time.
- **Spike in Network Traffic**: a dramatic increase in the volume of network traffic or number of conversations is detected.
- **Potential network reconnaissance/cyber-attack activity**: Events are generated for activities indicative of reconnaissance or cyber-attack activity in the network, such as IP conflicts, TCP port scans, and ARP scans.

Policy Categories

The Policies are organized by the following categories:

- **Configuration Event Policies** – these Policies relate to the activities that take place in the network. There are two sub-categories of Configuration Event Policies:
    - **Controller Validation** - these Policies relate to changes that take place in the controllers in the network. This can involve changes in the state of a controller as well as changes to the firmware, asset properties, or code blocks. The Policies can be limited to specific schedules (for example firmware upgrade during a work day), and/or specific controller/s.

- **Controller Activities** – these policies relate to specific engineering commands that impact controllers' state and configuration. It is possible to define specific activities that always generate Events or to designate a set of criteria for generating Events. For example, if certain activities are performed at certain times and/or on certain controllers. Both black listing and white listing of assets, activities and schedules are supported.

- **Network Events Policies** – these Policies relate to the assets in the network and the communication streams between assets. This includes assets that were added to or removed from the network. It also includes traffic patterns that are anomalous for the network or that have been flagged as raising particular cause for concern. For example, if an engineering station communicates with a controller using a protocol that is not part of a pre-configured set of protocols (for example protocols that are used by controllers manufactured by a specific vendor), an Event is triggered. These policies can be limited to specific schedules and/or specific assets. Vendor-specific protocols are organized by vendor for convenience, while any protocol can be used in a policy definition.

- **SCADA Event Policies** – these Policies detect changes in set-point values which can harm the industrial process. These changes may result from a cyber-attack or human error.

- **Network Threats Policies** – these Policies use signature-based OT and IT threat detection to identify network traffic that is indicative of intrusion threats. The detection is based on rules that have been cataloged in Suricata's Threats engine.

Groups

An essential component in the definition of Policies in Tenable One OT Exposure is the use of Groups. When configuring a Policy each of the parameters is designated by a Group as opposed to individual entities. This greatly streamlines the Policy configuration process.

Events

When an event occurs that matches the conditions of a Policy, an Event is generated in the system. All Events are displayed on the Events screen and can also be accessed through the relevant Inventory and Policy screens. Each Event is marked with a severity level, indicating the degree of risk posed by the Event. Notifications can be automatically sent out to email recipients and SIEMs as specified in the Policy Actions of the Policy that generated the Event.

An Event can be marked as resolved by an authorized user and a comment can be added.

Deployment Specifications

You can deploy the Tenable One OT Exposure EM as an appliance installed on site or on a Public or Private cloud server.

The Tenable One OT Exposure EM specifications are the same as that for a t3.xlarge instance:

- CPU: 4
- Memory: 16 GB
- Disk: 205 GB

Set Up Tenable One OT Exposure EM

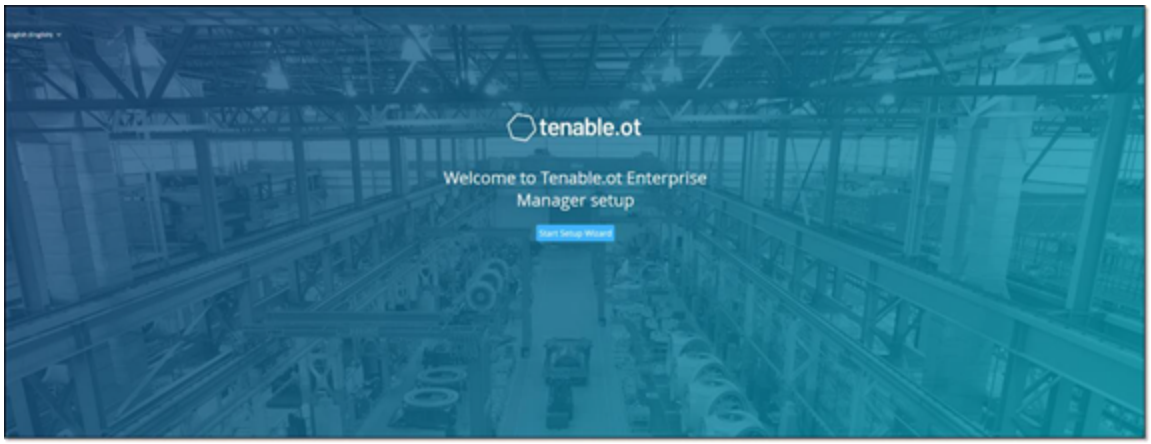
The Initial setup of Tenable One OT Exposure EM involves two steps:

1. Run the Setup Wizard and provide relevant configuration information.
2. Pair ICP with Tenable One OT Exposure EM.

To initiate the Tenable One OT Exposure EM setup:

1. From your Chrome browser, navigate to https://192.168.1.5.

   The Welcome page of the Tenable One OT Exposure EM setup wizard opens.



> **Note**: You can access the user interface from the latest Chrome browser version.

2. Click **Start Setup Wizard**.

   The setup wizard opens with the **User Info** page.

   The Tenable One OT Exposure EM Setup Wizard takes you through the process of configuring the basic system settings.

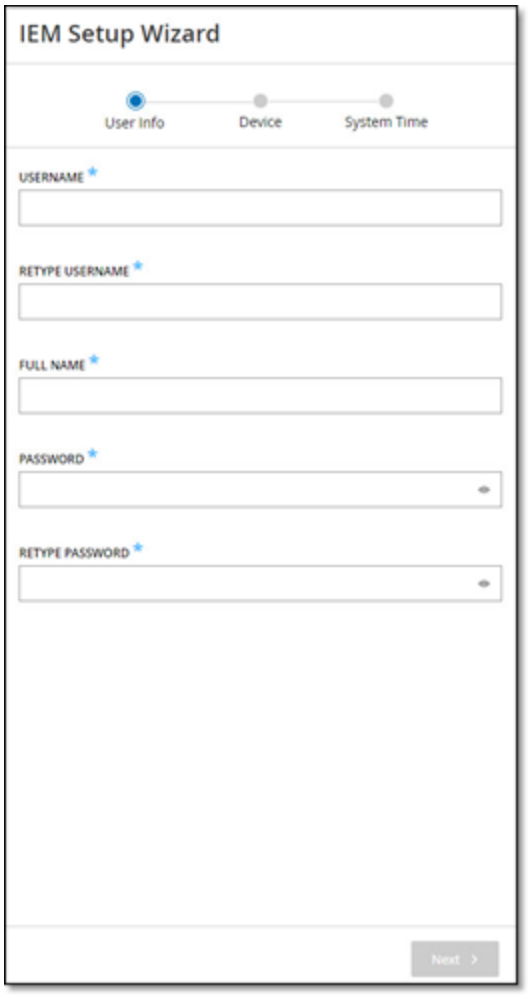
   > **Note**: To change the configuration later, you can do so from **Local Settings** in the Management Console (user interface).

Setup Wizard – User Information

On the **User Info** page, provide your user account information:

1. In the **Username** box, type a username for logging into the system.

   The username must include only lowercase letters and numbers.



2. In the **Retype Username** box, re-type the identical username.
3. In the **Full Name** box, type your complete first and last name.

   > **Note**: This is the name that appears in the header bar and on logs of your activity in the system.

4. In the **Password** box, type a password to be used for logging into the system.

   The password must contain at least:

   - 12 characters
   - One uppercase letter

- One lowercase letter
- One digit
- One special character

5. In the **Retype Password** box, re-type the identical password.
6. Click **Next**.

   The **Device** page appears.

Setup Wizard – Device

On the **Device** page, provide the information about the Tenable One OT Exposure platform:

1. In the **Device Name** box, type a unique identifier for the Tenable One OT Exposure EM.

2. In the **IP** box, type an IP address (within the network subnet) to apply to the Tenable One OT Exposure EM.

   This becomes the Tenable One OT Exposure EM IP address.

3. In the **Subnet Mask** box, type the subnet mask of the network.

4. To set up a Gateway (optional), type the gateway IP for the network in the **Gateway** box.

   > **Note**: If you do not provide this value, Tenable One OT Exposure cannot communicate with external components outside of the subnet. For example, email servers and syslog servers.

5. Click **Next**.

The **System Time** page of the setup wizard appears.

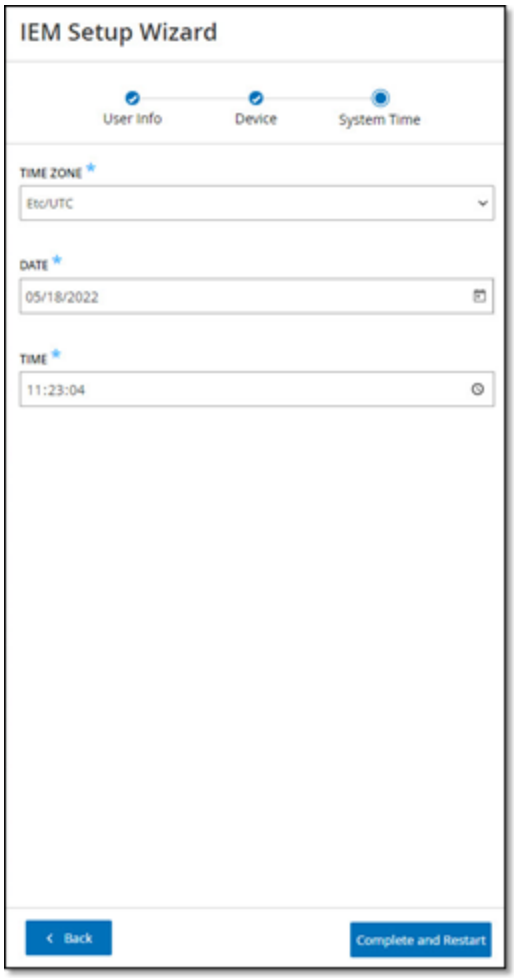
Setup Wizard – System Time

On the **System Time** page, the correct time and date are set automatically. If the correct date and time are not set, do as follows:

> **Note**: Setting the correct date and time is essential for accurate recording of logs and alerts.

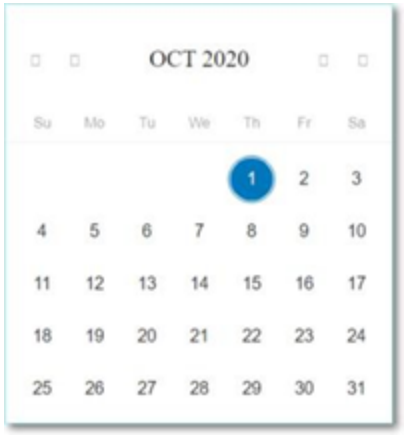
To set the date and time:

1. In the **Time Zone** drop-down box, select the local time zone at the site location.



2. In the **Date** box, click the calendar icon .

   A pop-up calendar appears.



3. Select the current date.
4. In the **Time** box, select **hours**, **minutes**, and **seconds AM/PM** respectively and type the values using either the keyboard or the up and down arrows.

   > **Note**: To edit any of the previous pages of the setup wizard, click **Back**. After you click **Complete** and **Restart**, you cannot return to the setup wizard. However, you can change the configuration settings on the **Settings** page of the user interface.

5. To complete the setup procedure, click **Complete** and **Restart**.
6. Once the restart is complete, Tenable One OT Exposure EM redirects you to the **Login** page.

   After completing the setup wizard, contact Tenable Support to add your sites to Tenable One OT Exposure EM.

Tenable One OT Exposure EM License Workflow

Licenses for Tenable accounts are calculated based on the number of unique IPs in the system. Each IP requires a separate license. For example, even if more than one device shares the same IP

address, multiple devices connected to the same backplane that share the same three IPs, the licenses can still be based on the number of IPs. In this case, you need three licenses, regardless of the number of devices.

After you install Tenable One OT Exposure EM, the next step is to activate your license.

> **Note**: To update or reinitialize your Tenable One OT Exposure license, reach out to your Tenable Account Manager. Once your Tenable account manager updates your license, you can update or reinitialize your license.

Before you Begin

- Install the Tenable One OT Exposure EM Appliance.
- Make sure that you have the license code (20 characters letter/numbers), which you received from Tenable when you ordered your device.
- Make sure you have access to the internet. If your Tenable One OT Exposure EM device is not connected to the Internet, you can register the license from any PC.
- Make sure you have access to the Tenable Account Management portal. For access, contact your Tenable Customer Success Manager.

Activate your Tenable One OT Exposure license

You can activate your Tenable One OT Exposure EM license and facilitate the Tenable provisioning portal for creating new sites to manage your assets.

To activate your Tenable One OT Exposure EM license:

1. Log in to the Tenable Account Management portal using your community account.

   The **Provisioning** page appears with the products for which you have licenses.

2. In the left pane, select **Tenable One OT Exposure**.

The Tenable One OT Exposure licenses appear with details such as the purchase date, expiration date, and number of licensed IPs and sites.

3. From the **Code** column, copy the 20-digit Tenable One OT Exposure license code.
4. Generate activation certificate in Tenable One OT Exposure EM:
    a. Go to the Tenable One OT Exposure EM **License Activation** page.
    b. In step 1, click **Enter new license code**.

        The **Enter new license code** panel appears on the right.
    c. In the **License code** box, paste the code that you copied from the provisioning portal.
    d. Click **Verify**.

        Tenable One OT Exposure EM enables the **Generate activation certificate** section.
    e. Click **Generate Certificate**.

        The **Generate Certificate** panel appears on the right.
    f. Click **Copy text to clipboard**, then click **Done**.

        Tenable One OT Exposure EM generates the certificate, which you must provide in the Tenable Provisioning Portal to add your sites.
5. In step **3 Enter activation code**, click the **Self-service** link to open the Tenable Provisioning portal.

    > **Note**: To activate your evaluation period, click the **Click here** link.
6. Navigate to the **Tenable One OT Exposure Provisioning** page and click **+ Add Site**.

    The **Add New Tenable One OT Exposure Site** window appears.

a. (Optional) In the **Label** box, type a name for the site.

b. In the **Activation Certificate** box, paste the certificate that you copied from Tenable One OT Exposure EM. See step f.

c. Click **Create**.

   A dialog box appears with an activation code. This is a one-time generated code that you must copy to the Tenable One OT Exposure instance.

d. Click the button, then click **Confirm**.

7. Navigate back to the Tenable One OT Exposure EM instance and in the step **3 Enter activation code** section, click **Enter Activation Code**.

   The **Enter Activation Code** panel appears on the right.

8. In the **Activation Code** box, paste the one-time generated code that you copied from the **Tenable One OT Exposure Provisioning** page. See step e.

9. Click **Activate**.

   Tenable One OT Exposure EM shows a confirmation message that the system activated successfully and the Tenable One OT Exposure EM interface appears.

10. Click **Enable**.

    Tenable One OT Exposure EM is now enabled and ready to use.

11. Navigate back to the Tenable Provisioning portal and in the one-time generated activation code dialog box, click the **I have saved this certificate information or copied it to Tenable.ot for activation** checkbox.

12. Click **Confirm**.

    The newly added site appears in the **Provisioning** page for Tenable One OT Exposure EM.

Update your license

When you want to increase your asset limit, extend your license period, or change your license type, you can update your license.

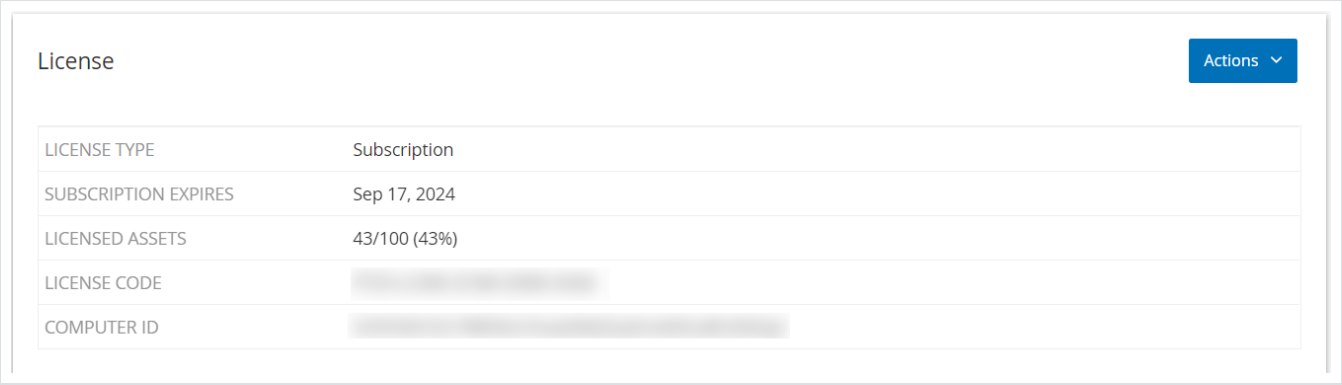
Before you Begin

- Your Tenable Account Manager must have already updated your license information in their system before you can update the new license.
- You need access to the internet. If your Tenable One OT Exposure EM device is not connected to the Internet, you can register the license from any PC.

To update your license:

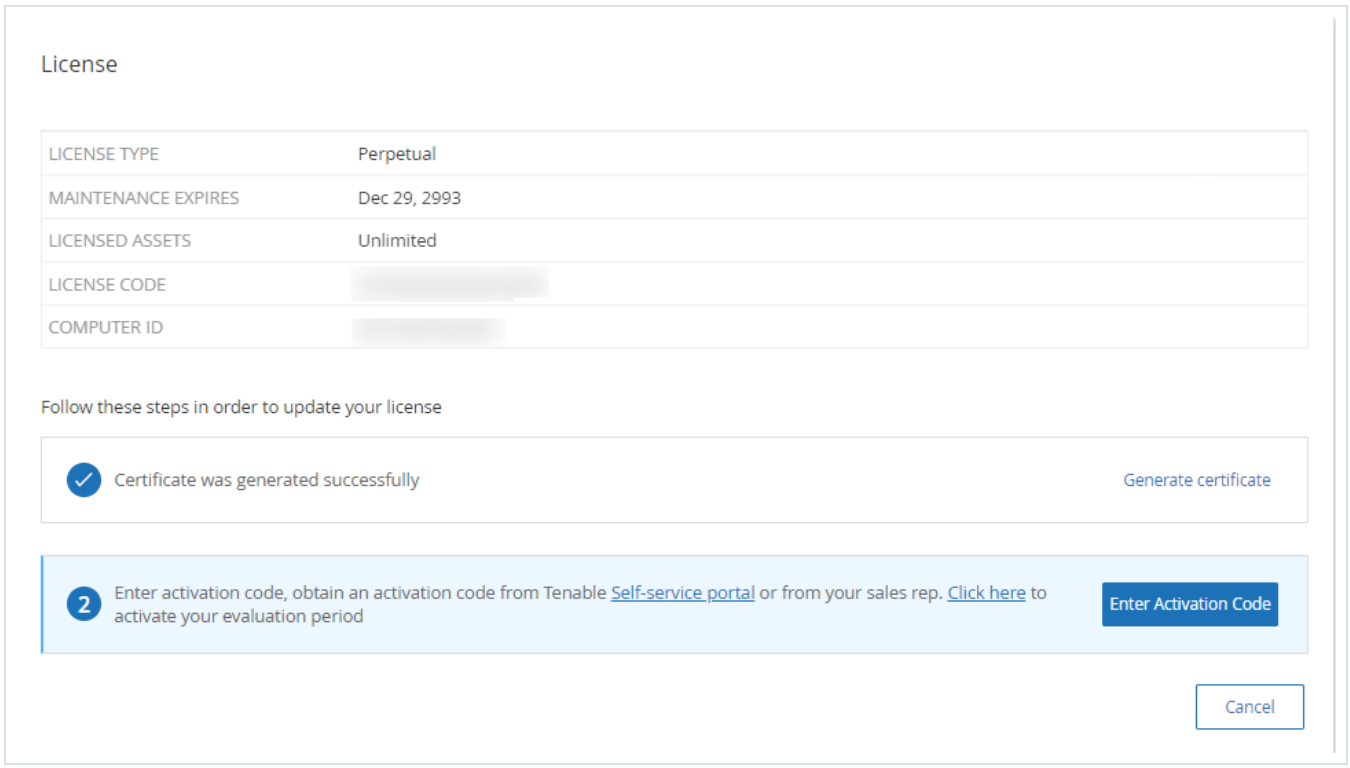
1. Go to **Local Settings** > **System Configuration** > **License**.

   The **License** window appears.



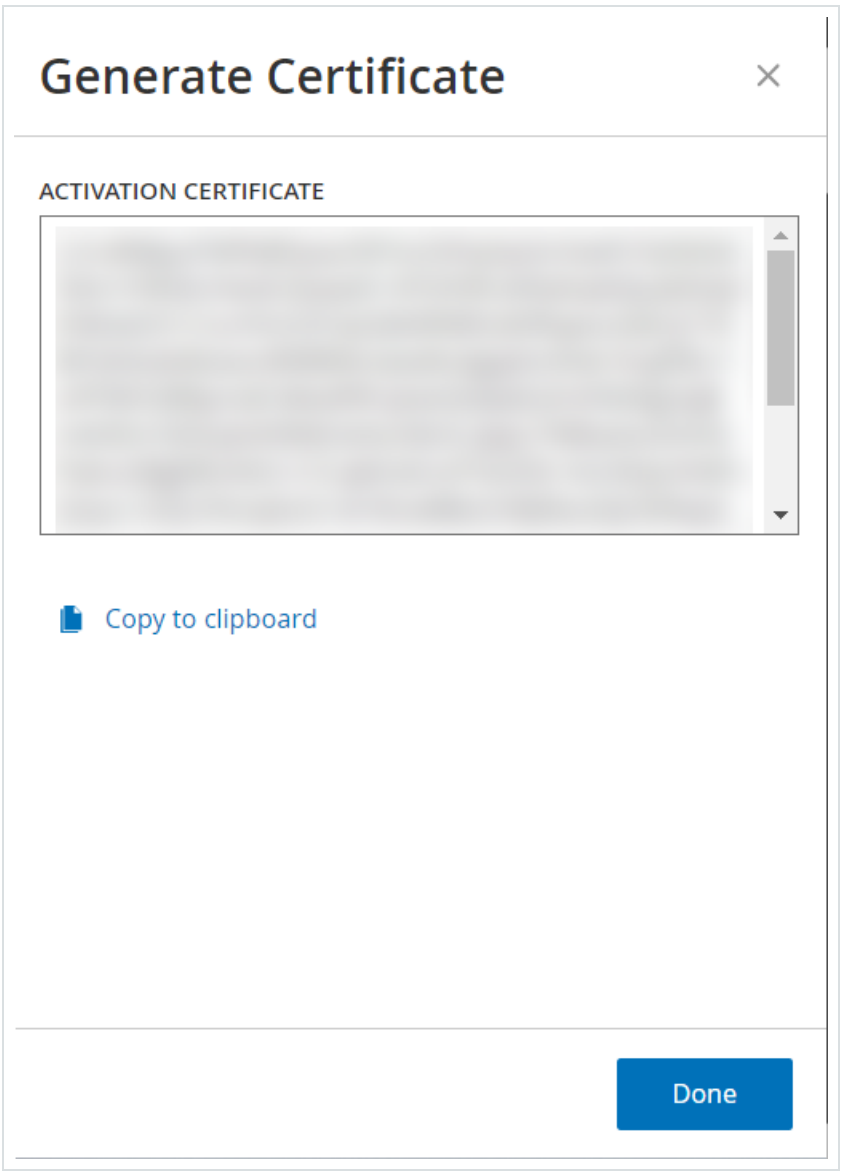
2. From the **Actions** menu, select **Update license**.

   The **Generate Certificate** and **Enter Activation Code** steps appear.



3. In the **(1) Generate activation certificate** box, click **Generate Certificate**.

   The **Generate Certificate** panel appears with the **Activation Certificate**.



4. Click **Copy text to clipboard**, then click **Done**.

   The side panel closes.

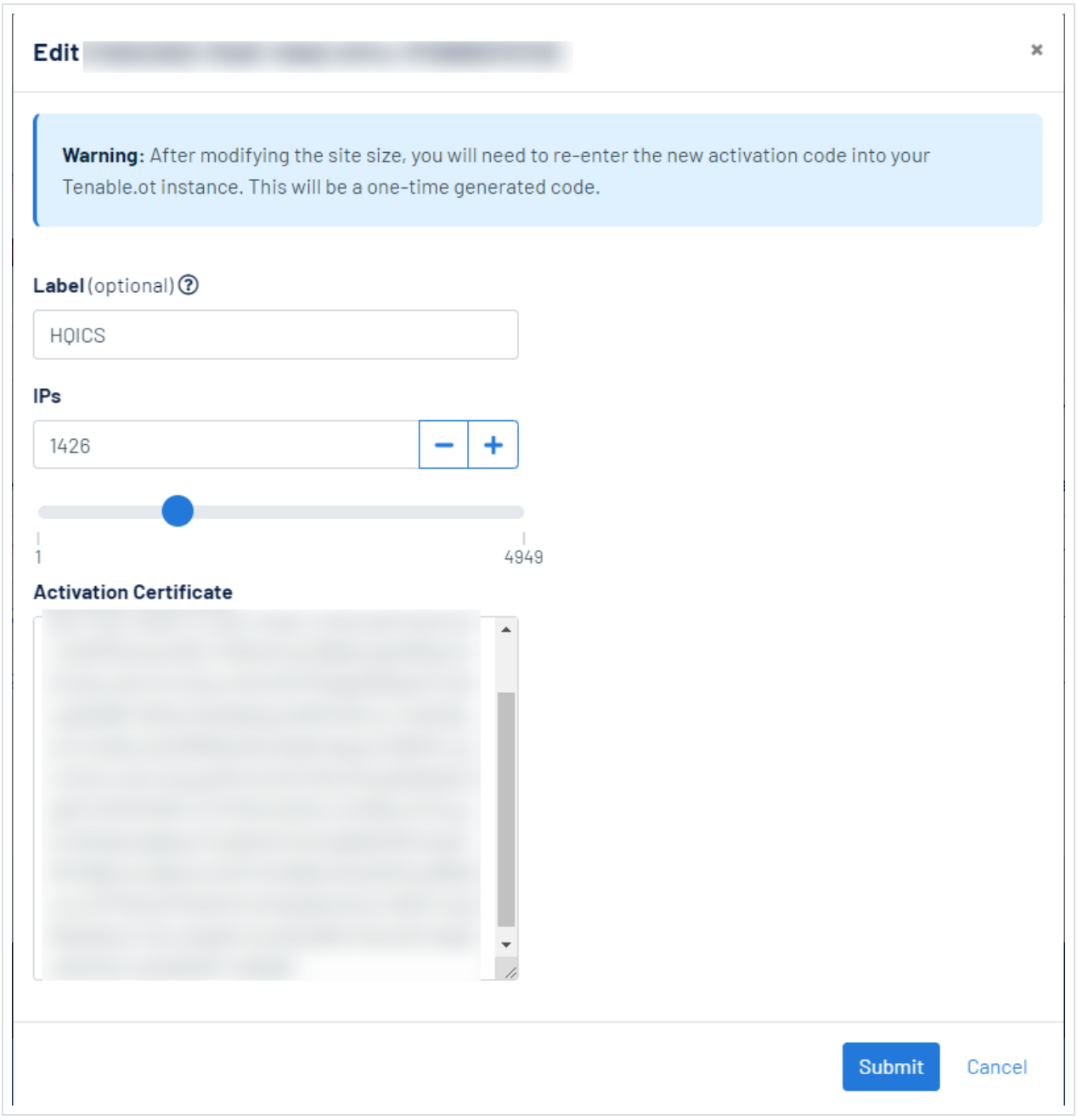
5. Edit the site details in the Tenable Provisioning portal:

   a. In the Tenable Provisioning portal, navigate to the **Tenable One OT Exposure Provisioning** page and in the row of the site that you want to update, click the ••• button.

   A menu appears.

b. Click **Edit Site**.

The edit window for the site appears.



c. Adjust the details as needed.

d. In the **Activation Certificate** box, paste the certificate that you copied from the **Generate Certificate** window in Tenable One OT Exposure EM.

e. Click **Submit**.

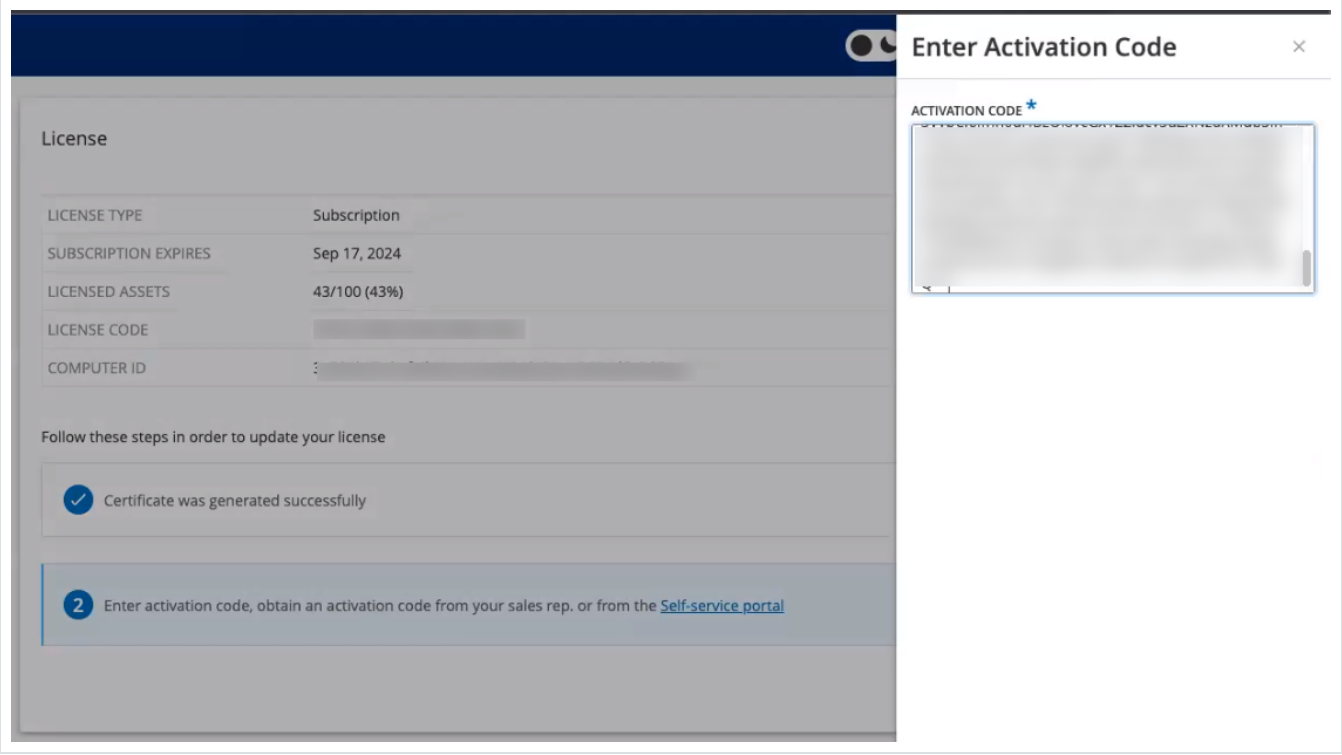
The portal displays a dialog box with an activation code. This is a one-time generated code that you must copy to the Tenable One OT Exposure EM instance.

f. Click the button, then click **Confirm**.

6. Navigate back to the Tenable One OT Exposure EM instance.

7. In the **(2) Enter activation code** box, click **Enter Activation Code**.

8. In the **Activation Code** box, paste the one-time generated code that you copied from the **Tenable One OT Exposure Provisioning** page.

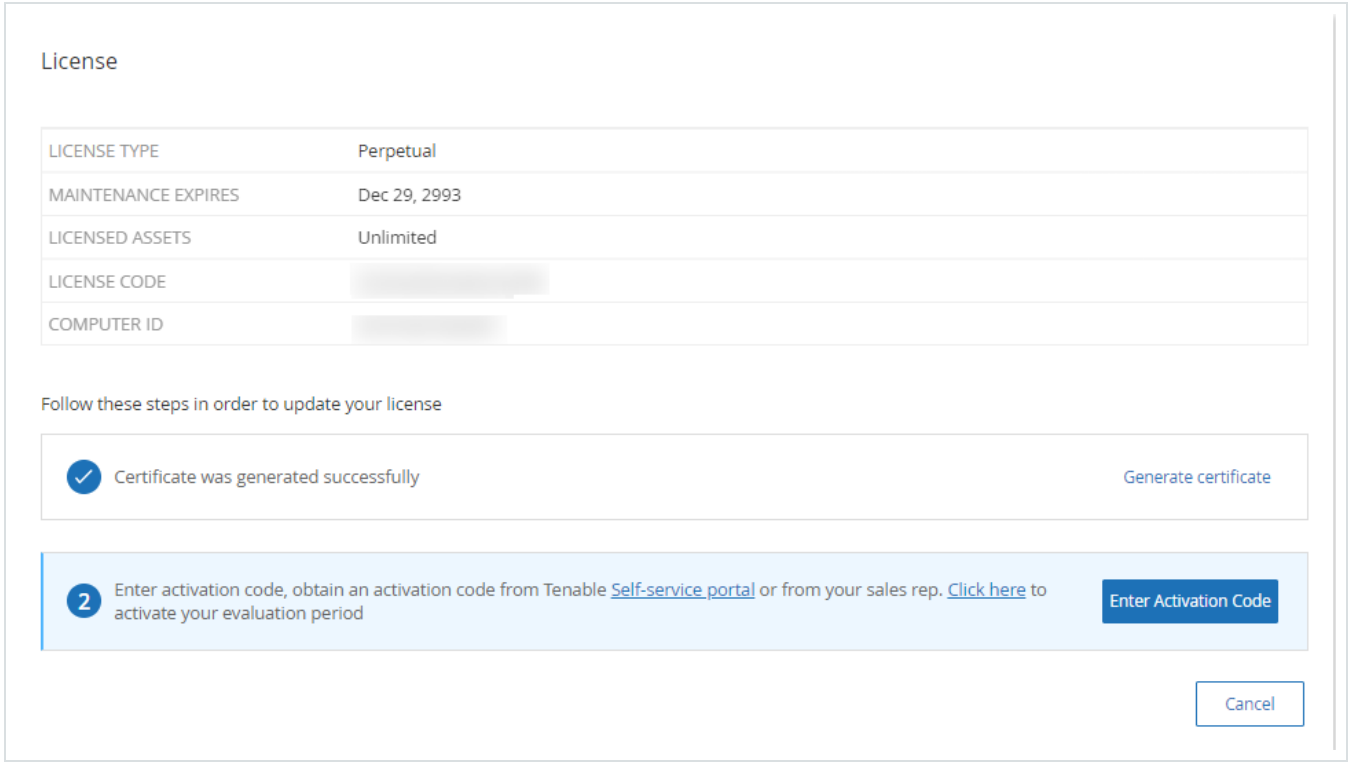


9. Click **Activate**.

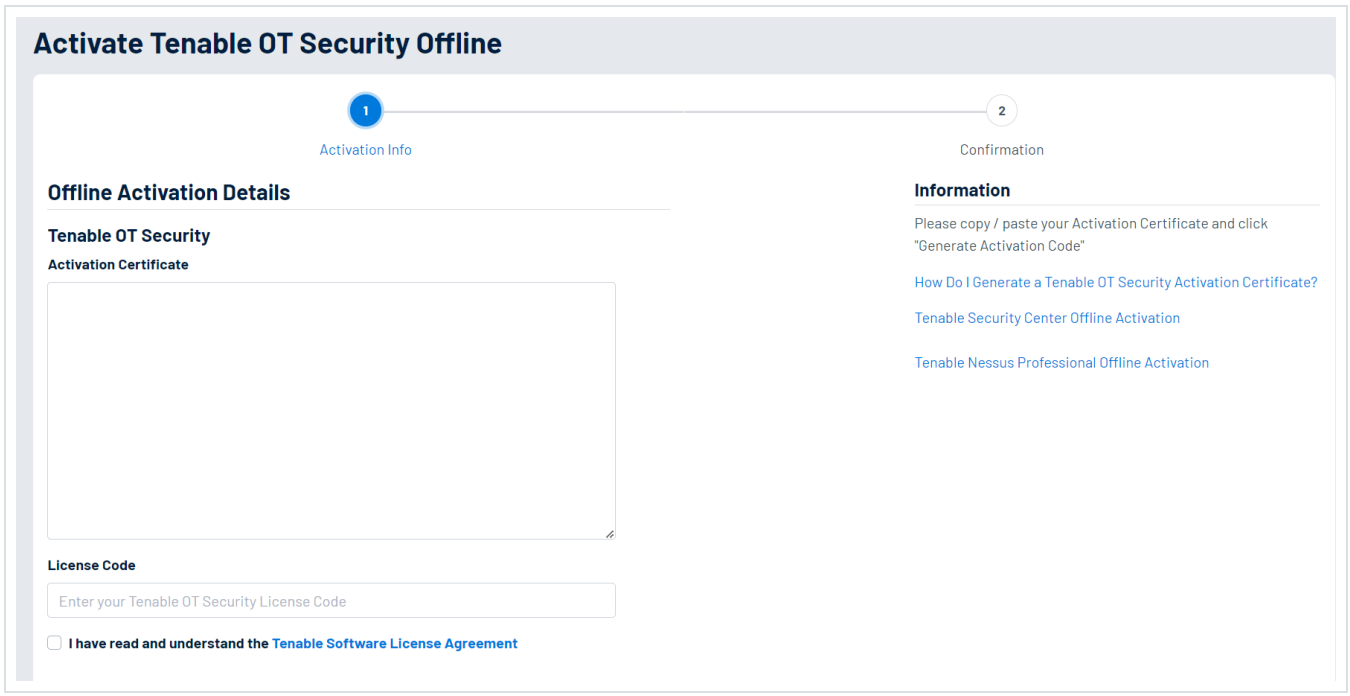
Tenable One OT Exposure EM shows a confirmation message that the system was activated successfully and the **License** page shows the updated license details.

Update your license in offline mode

1. Perform steps 1 to 4 as mentioned in the Update your license section.
2. In the **(2) Enter activation code** box, click the Self-service portal link.



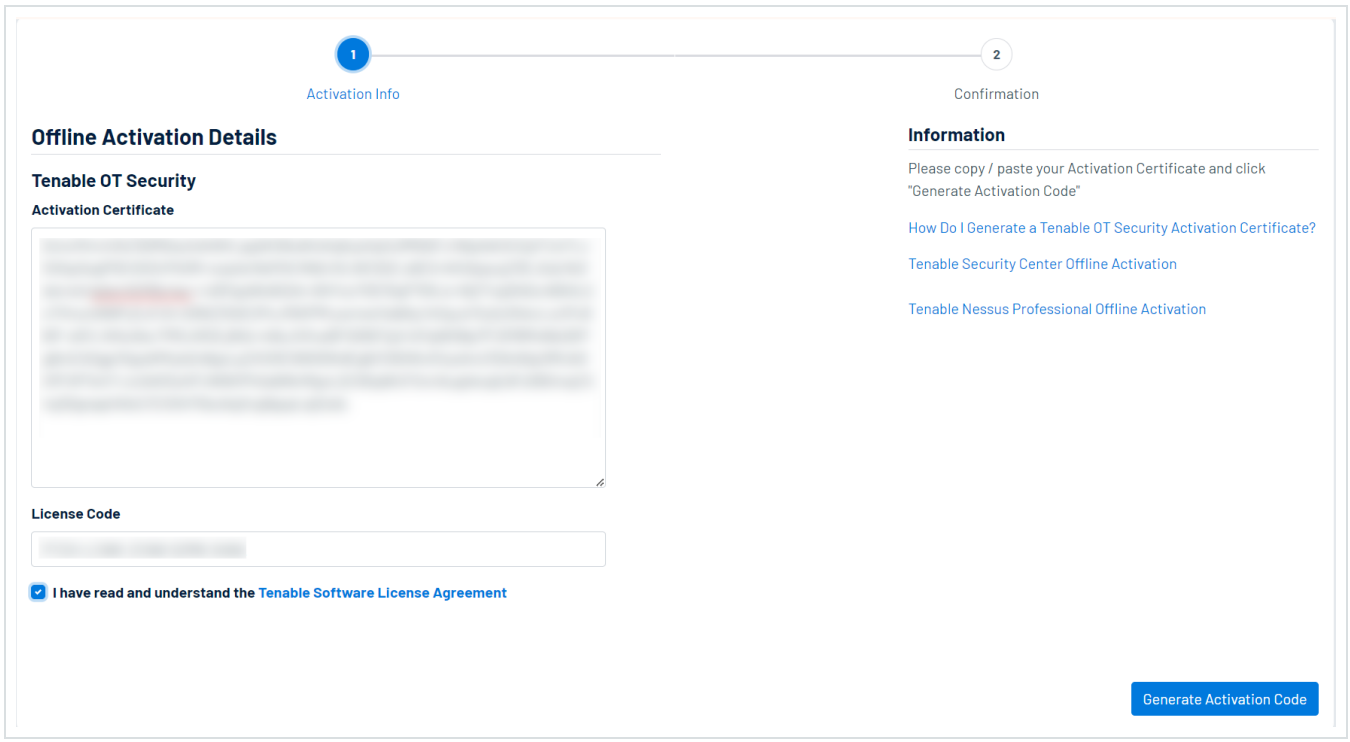
The **Activate Tenable One OT Exposure Offline** window opens in a new tab.



Note: You can access the Activate Tenable One OT Exposure EM Offline screen from an Internet-connected device using the following URL: https://provisioning.tenable.com/activate/offline/tenable-ot.

Note: If you are not logged in to tenable.com, you can log in using your email address and password. Use the email account where you received your **License Code**. If you do not have the login credentials, you can either click on **Don't remember your password** (and follow the prompts) or reach out to your Tenable account manager.

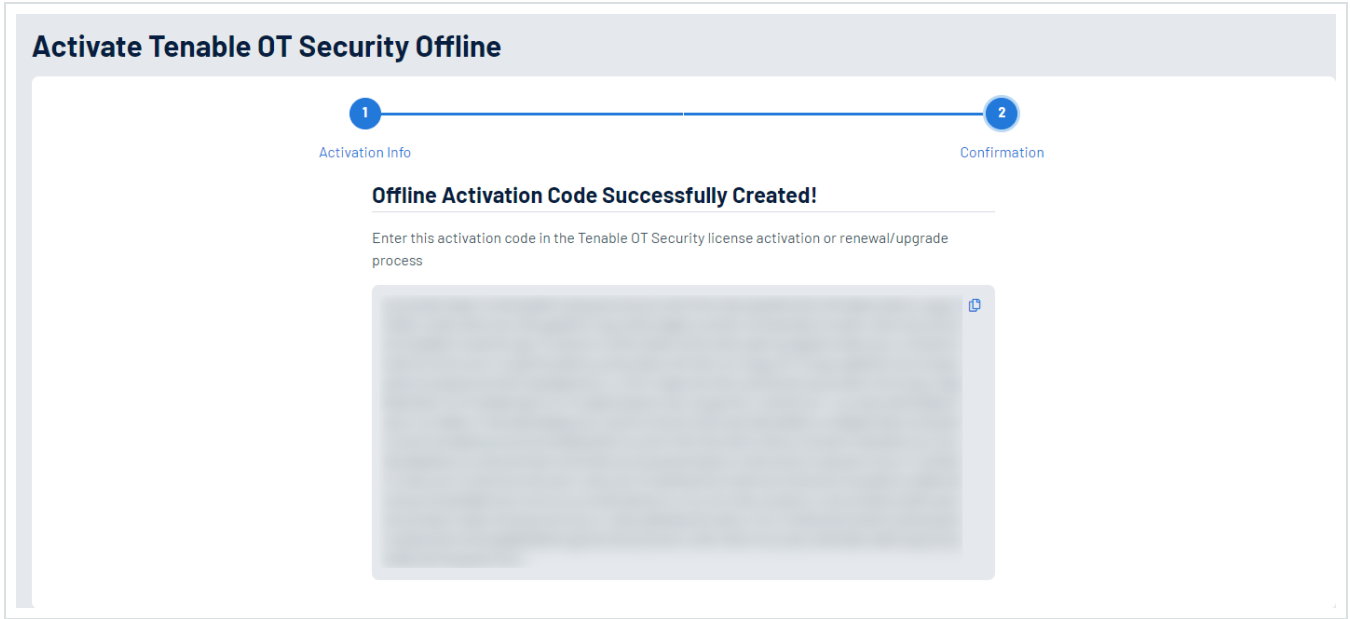
3. In the **Activation Certificate** box, paste the **Activation Certificate**.
4. In the **License Code** box, type your 20-character **License Code** (which you can copy and paste from the **License** screen).
5. Click the **I have read and understand the Tenable Software License Agreement** checkbox.



Note: To view the license agreement, click the **Tenable Software License Agreement** link.

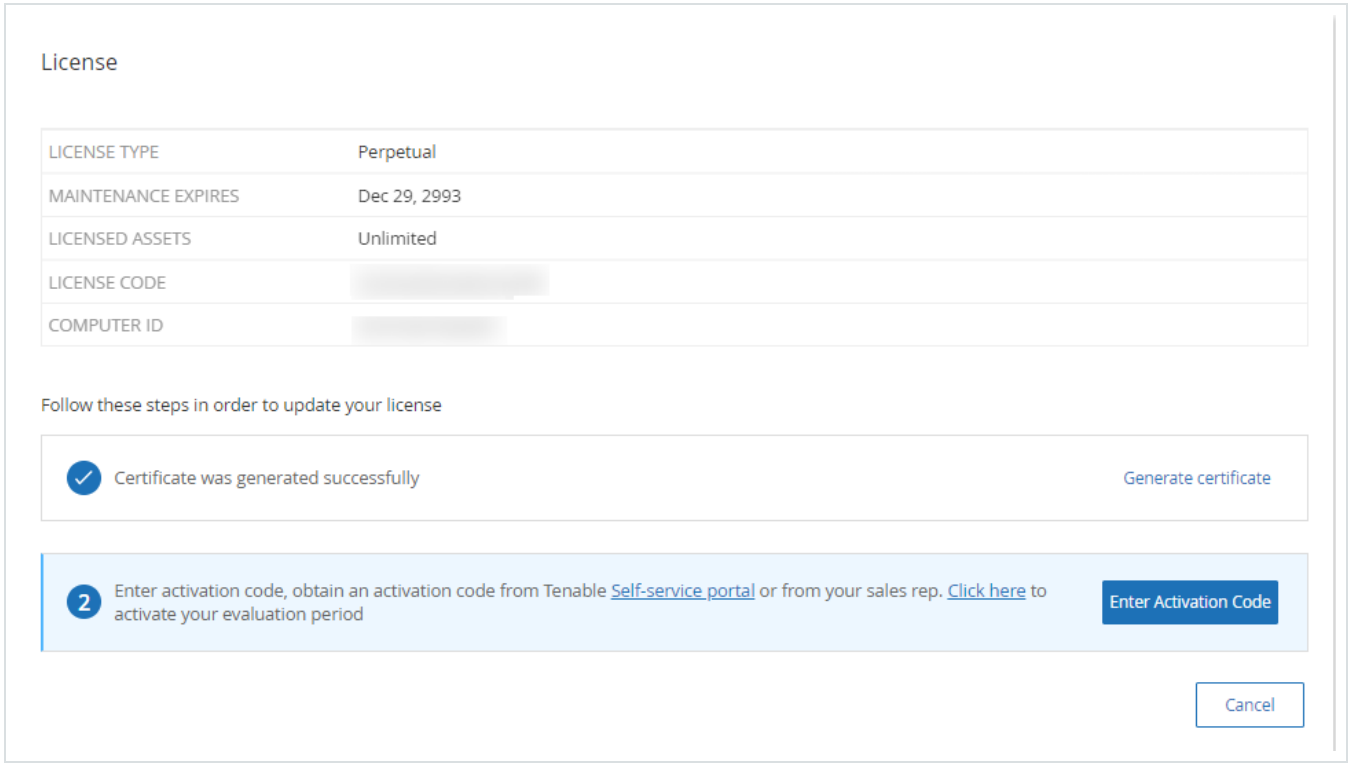
6. Click **Generate Activation Code**.

   The **Offline Activation Code Successfully Created!** window appears.



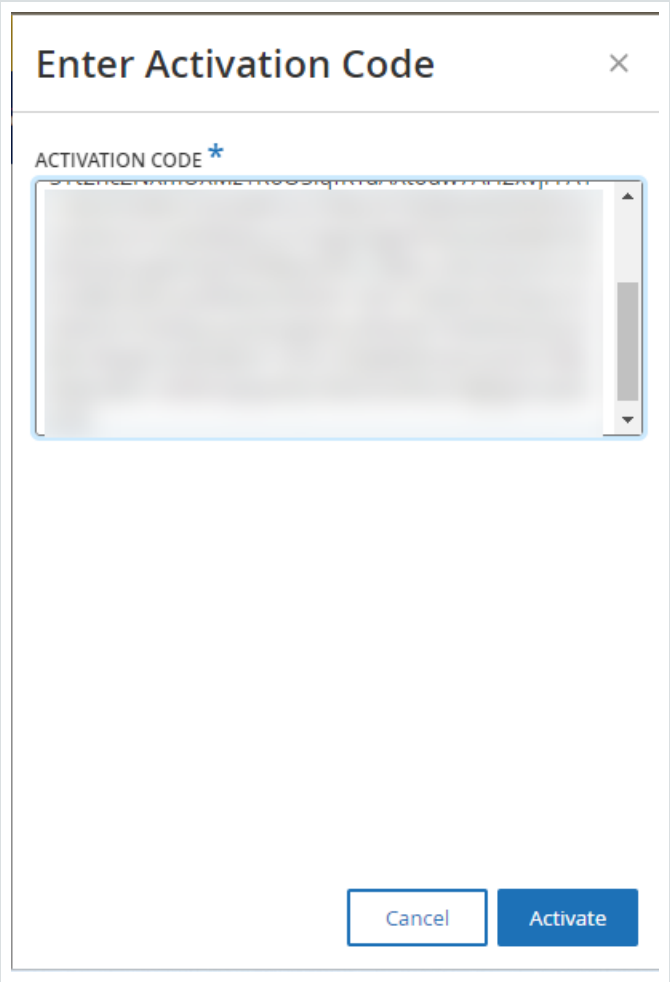
7. Click the ⧉ button.

8. Navigate back to the **License** tab, and click **Enter Activation Code**.



The **Enter Activation Code** side panel appears.

9. In the **Activation Code** box, paste your activation code and click **Activate**.



The side panel closes, and Tenable One OT Exposure updates the license.

Reinitialize your license

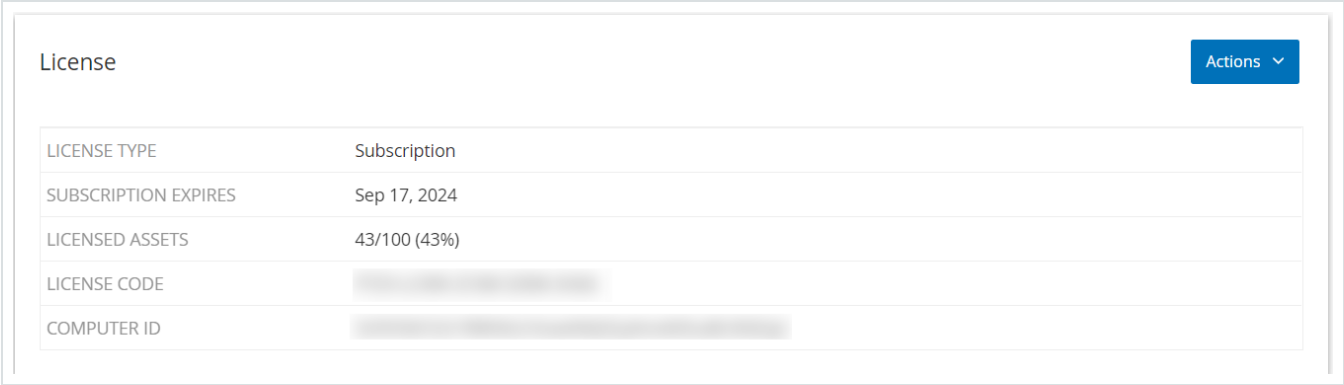
Reinitializing your license removes your current license from the system and activates a new license, similar to the license activation during your system startup. If you need to reinitialize your license (that is, if you are issued a new license), use the following procedure.

Before you Begin

- Your Tenable account manager must have already issued your new license in their system and provided you with a License Code (20 characters letter/numbers).
- You need access to the Internet. If your Tenable One OT Exposure EM device is not connected to the Internet, you can register the license from any PC.

To reinitialize your license:

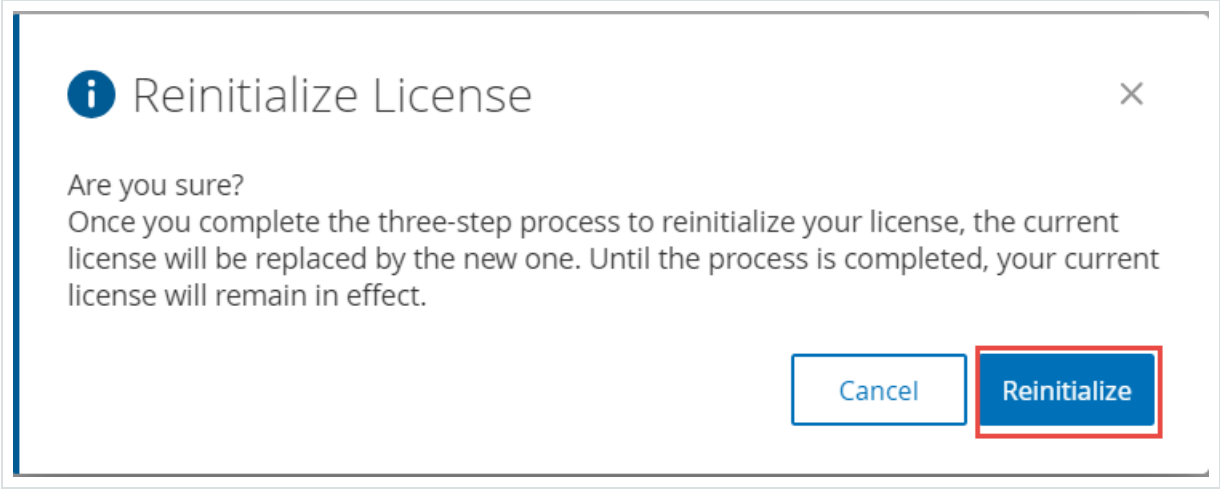
1. Go to **Local Settings** > **System Configuration** > **License**.



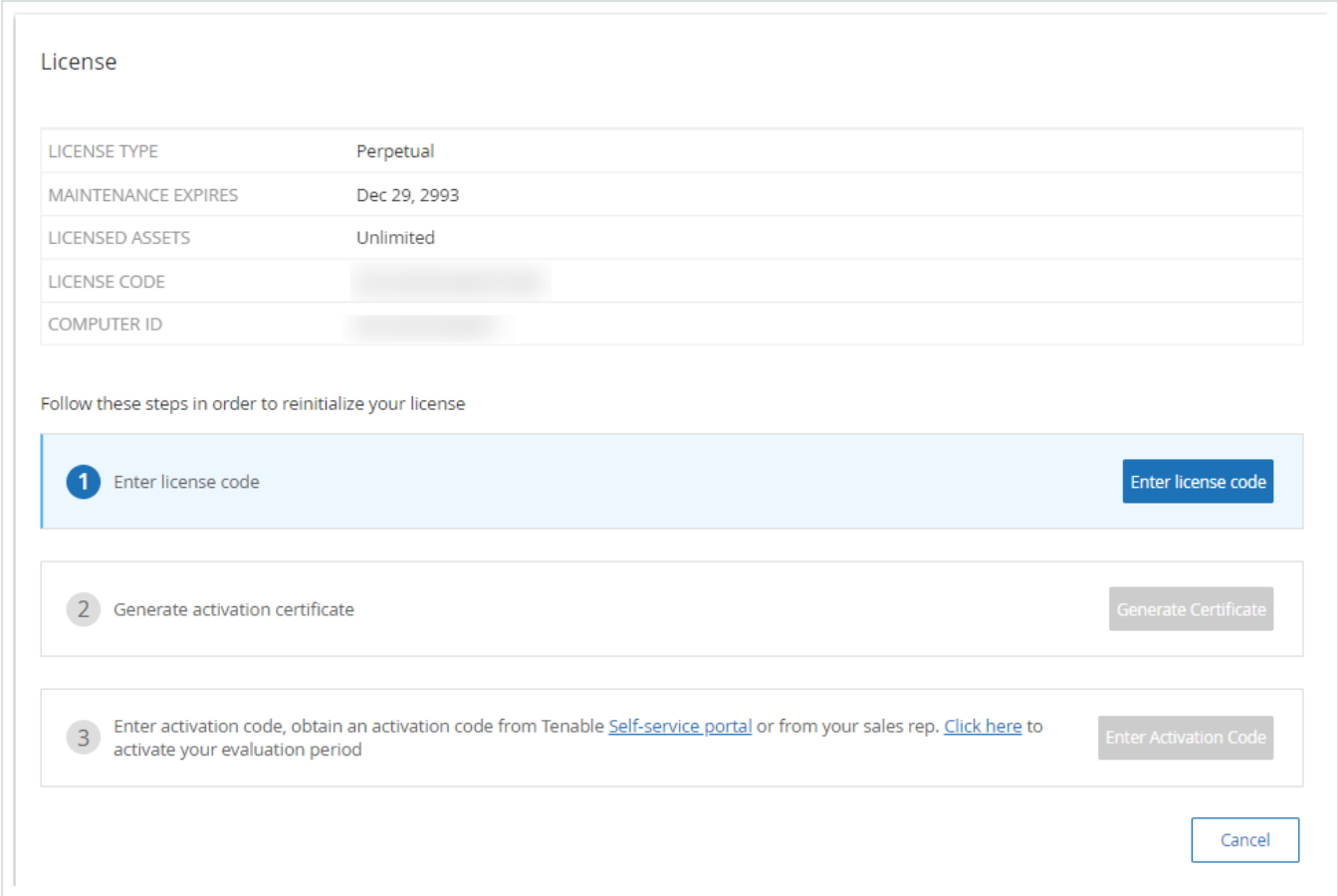
2. From the **Actions** menu, select **Reinitialize license**.

   A confirmation window appears.

3. Click **Reinitialize**.



The **License** window appears with the three reinitialization steps.



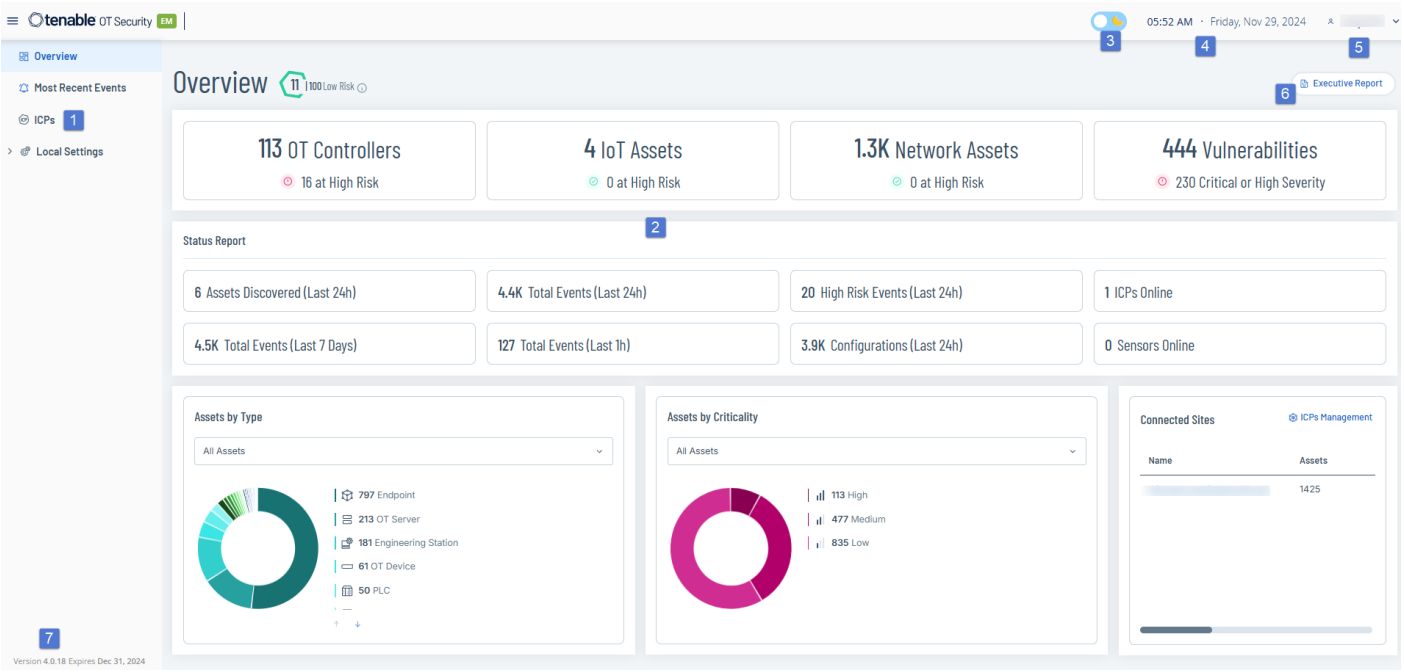
4. Follow the system start-up steps for activating your license. See Activate your License.

   After you provide your **Activation Code**, your new license replaces your current license.

Tenable One OT Exposure EM Management Console Elements

The Tenable One OT Exposure EM Management Console (user interface) provides easy access to enterprise-wide data that Tenable One OT Exposure appliances discover at the various sites. This data relates to asset management, network activity, and security events. Tenable One OT Exposure EM also enables you to configure and manage the Tenable One OT Exposure appliance for each of your sites.

Main User Interface Elements



The following table describes the main user interface elements:

Sl.No	User interfaceElement	Description
1	**Main Navigation**	Main navigation menu. Click the button to show/hide the main navigation menu.
2	**Current Date and Time**	The current date and time as in the system.
3	**Current User**	The name of the user currently logged in. Click the down arrow for a selection menu. Options are: **About** (shows software information) and **Logout**.
4	**Version Info**	The version of Tenable One OT Exposure EM.
5	**Main Screen**	The screen that you select in the main navigation.

6	**Dark Mode/Daylight Mode**	Change the display color scheme to Dark mode or Daylight mode.
7	**Executive Report**	Generates a risk assessment report in PDF format.
	Resource Center	Tenable One OT Exposure EM resource center where you can access product announcements and Tenable resources. To access Resource Center, enable the **Enable Usage Statistics** toggle on the **Settings** > **System Configuration** > **Device** page.

Enterprise Manager Navigation Pages

For Enterprise Manager (EM), the following navigation options are available:

- **Overview** – View widgets that give an at-a-glance view of your entire enterprise's inventory and security posture based on the aggregated data from your sites. See Tenable One OT Exposure EM Overview
- **Most Recent Events** – Shows the list of events in your EM environment in the last 24 hours. See Most Recent Events.
- **ICPs** – Displays all ICP systems paired with the EM. See ICPs.
- **Local Settings** – View and configure the EM settings, and view and generate a certificate for secure HTTPS connections for the EM. See Settings.
- **User Management** – View and configure users for the Tenable One OT Exposure EM. See Users Management.
- **System** – Displays system-level options. For example: **Factory Reset**, **Download Diagnostics Data**, **Restart**, and **Shut Down**. See Syslog Servers.

Other Actions

Enable or Disable Dark Mode

You can use the Dark Mode color scheme on all pages by toggling the Dark Mode switch.

To enable or disable Dark Mode:

1. In the upper-right corner of the page, click the (Dark Mode) button to enable the Dark Mode.

   Tenable One OT Exposure EM applies the setting to all pages.

2. To restore the Daylight Mode setting, click the (Daylight Mode) button.

Customize Tables

Tenable One OT Exposure displays the data in a table format with a record for each item. These tables have standardized customization features such as show / hide columns, filter, and sort results.

For more information about interacting with tables, see Customize Tables in the Tenable One OT Exposure User Guide.

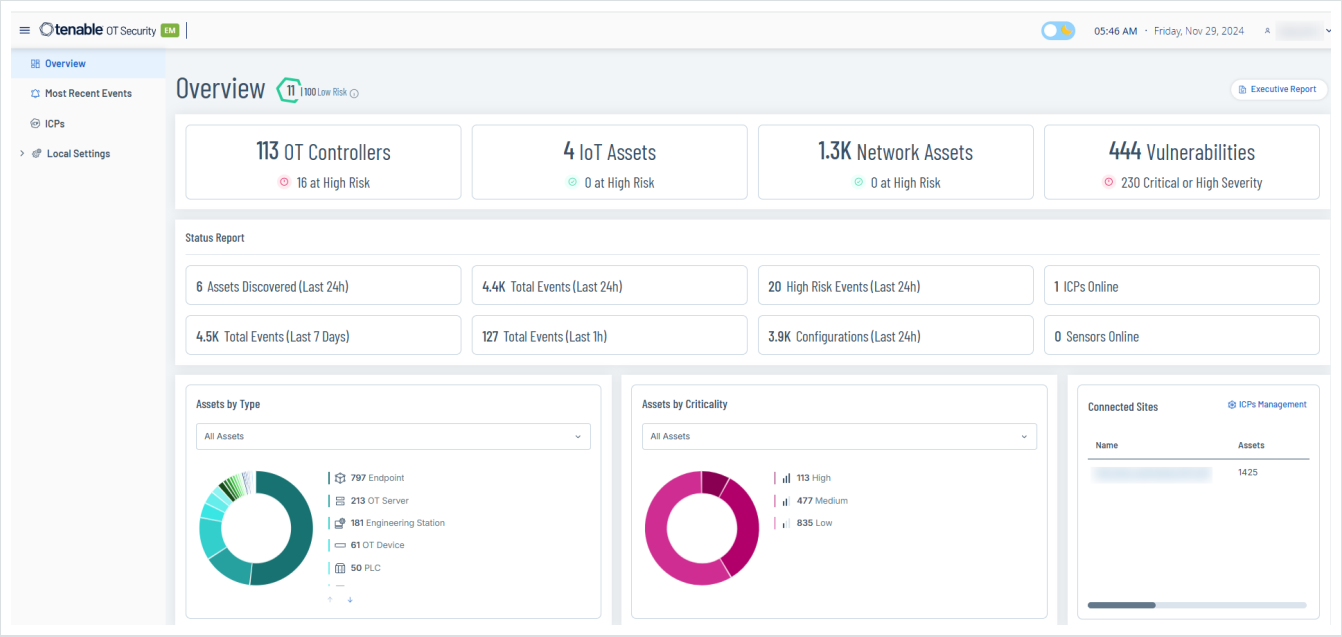
Tenable One OT Exposure EM Overview

The **Overview** page features widgets that offer an at-a-glance view of your complete enterprise inventory and security posture. Tenable One OT Exposure EM aggregates data from all sites and displays it in widgets. Along with the standard widgets for individual sites, the EM Overview page includes an ICP Status widget showing each site's the connectivity status.

To access the **Overview** page:

1. In the left hand navigation bar, click **Overview**.

   The Tenable One OT Exposure EM **Overview** page appears.



The Overview page includes the following widgets:

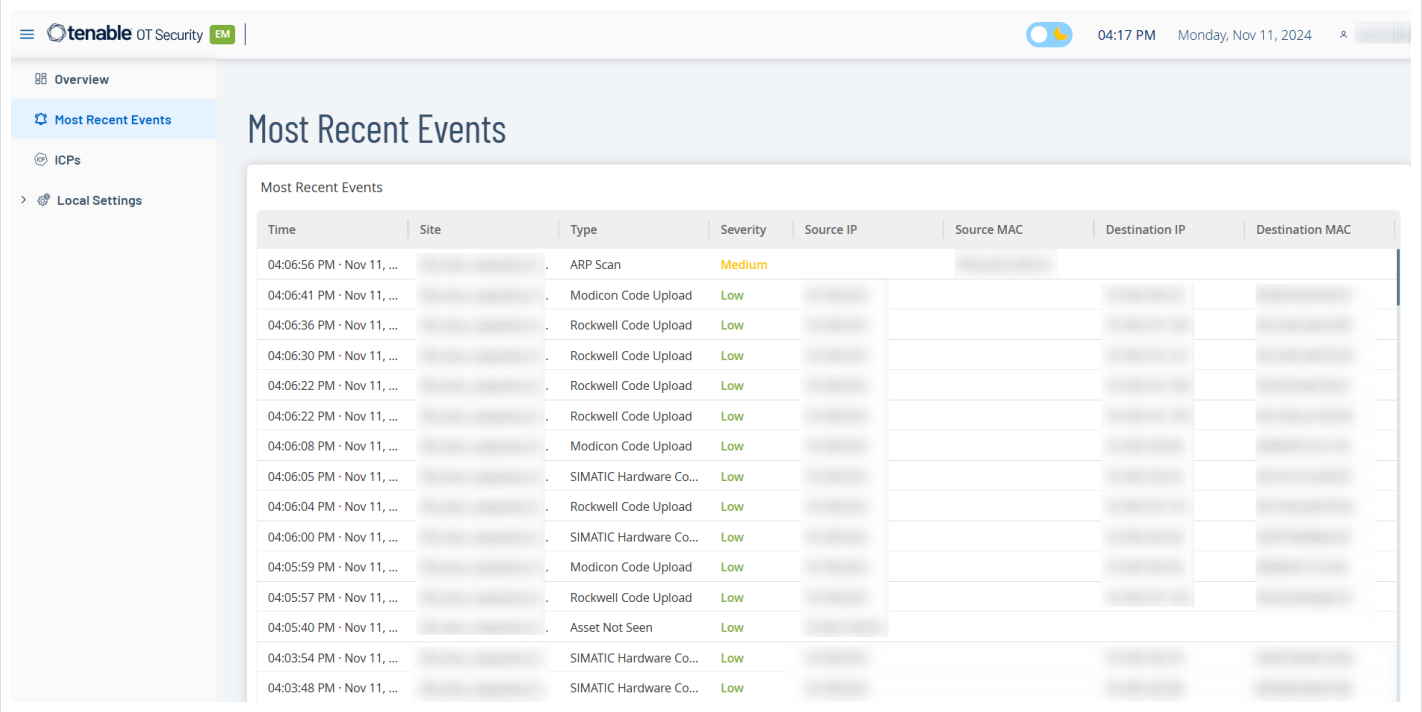
Widget	Description
Risk Score	The **Average Risk Score** is the average of all asset scores in your environment. To view a breakdown of the score, hover over the value.

	The **Average Risk Score** uses the following color codes to indicate the severity of the risk: • **Low (Green)**:0–29 • **Medium (Yellow)**: 30–69 • **High (Red)**: 70–100 Tenable One OT Exposure calculates the asset scores based on the following factors that changes with time (decaying events, firmware, and state changes): • Criticality - Based on the asset type and purdue level. For example, a PLC controls production, so it is considered critical, whereas a camera is typically less critical. • Vulnerabilities - Based on the Vulnerability Priority Rating (VPR) asset. • Events - Based on the events associated with the asset. Policies trigger events and each policy defines a severity. The severity is calculated based on the number of events, their severity, and how long they existed. Older events affect the score less than recent events. • Backplane - An asset that resides on a backplace affects the scores of its neighbor assets. For example, if one module is vulnerable, the entire backplane is also vulnerable.
Executive Report	Click this link to generate a risk assessment report for your environment based on the data from the last 30 days. The report opens on your browser. To download the report as PDF, click **Save as PDF** at the top of the page.

Assets and Vulnerabilities	The current state of assets and vulnerabilities in your environment. Includes separate widgets for each asset type (OT Controllers, Network Assets, IoT Assets) that show the number of assets in that category and the number of assets that are at high risk.
Status Report	The overall status of your environment, such as assets discovered, total events, number of high risk events, number of configuration events in the last 24 hours. The widget also shows the number of ICPs and sensors that are online. The widget also includes total events in the last 7 days and in the last one hour.
Assets by Type	The number of assets by type, such as endpoint, PLC, and OT device.
Assets by Criticality	The number of assets by their criticality: High, Medium, or Low.
Connected Sites	Lists the ICPs connected to the EM. The widget includes the following details: • **Name** – The name of the ICP. • **Assets** – The number of assets within the ICP. • **Average Risk Score** – The average risk score of the ICP. • **Severe Vulnerability** – The number of vulnerabilities in the critical state. • **Last 24h Events** – The number of events recorded in the ICP in the last 24 hours. To open the ICPs page, in the upper-right corner, click **ICPs Management**.

Most Recent Events

Use the **Most Recent Events** page to view the list of events in your EM environment in the last 24 hours.



To access the **Most Recent Events** page:

1. In the left navigation bar, click **Most Recent Events**.

   The **Most Recent Events** page appears with the following details:

Column	Description
Time	The time stamp of the event.
Site	The name of the site or ICP where the event is recorded.
Type	The type of event.

Severity	The severity of the event: Low, Medium, or High.
Source IP	The IP address of the event source.
Source MAC	The MAC address of the event source.
Destination IP	The IP address of the destination.
Destination MAC	The MAC address of the destination.

ICPs

Required Tenable One OT Exposure User Role: Administrator, Supervisor, Security Manager, Security Analyst, Site Operator, Read Only

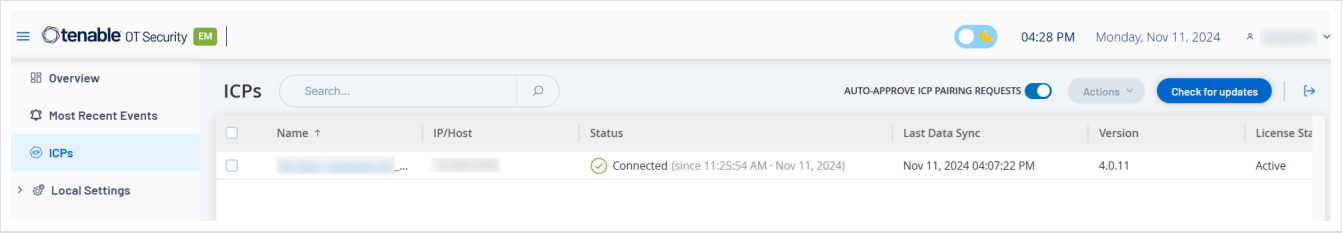
Use the **ICPs** page to view all ICP systems paired with the EM in a table format.

Note: After you pair an ICP with the EM, you must perform all updates at the EM level so that the sites and their sensors receive the latest version updates.

To access the **ICPs** page:

1. In the left navigation bar, click **ICPs**.

   The **ICPs** page appears with the list of paired ICPs.



The ICP table includes the following columns:

Column	Description
Name	The name of the ICP paired with the EM.
IP/Host	The IP address or the hostname of the ICP.
Status	The status of the ICP: • **Connected** • **Pending Approval** • **Disconnected** • **Update in progress**
Last Data Sync	The date of the last data synchronization between the ICP with the EM.
Version	The version of Tenable One OT Exposure.
License Status	The status of the license: • **Active** • **Expired**
License Type	The type of license: **Perpetual** or **Subscription**.
License Expires	The date when the license ages out for the ICP.
Licensed Assets	The number of licensed assets for the ICP.
Computer ID	The unique ID of the ICP system.
Sensors Info	The online or offline status of the connected sensors. Click the sensors link to go to the **Sensors** page in Tenable One OT Exposure.

	Note: To return to the Tenable One OT Exposure EM interface, from the profile button, click **Return to EM**.
License Usage	The number of licensed assets currently in use.
Last Nessus Plugin Set	The date of the last Nessus plugin update.
Last IDS Engine Ruleset	The date of the last IDS Engine Ruleset.
Memory Usage	The percentage of memory usage by the ICP.
CPU Usage	The percentage of CPU usage by the ICP.

Manage ICP Pairings

You can perform the following actions from the **ICPs** page:

Approve pairing requests automatically

To automatically approve ICP pairing with EM , enable the **Auto Approve ICP Pairing Requests** toggle.

Approve pairing requests manually

To approve ICP pairing requests manually, do one of the following:

a. In the row of the ICP you want to approve:

- Right-click the ICP and select **Approve**.

- Click the ICP row. This highlights the row and enables the **Actions** button.

b. Click **Actions** > **Approve**.

Disconnect an ICP pairing

To disconnect an ICP from the EM, use one of the following methods:

- In the row of the ICP you want to disconnect, right-click and click **Delete**.
- Click the row of the ICP you want to disconnect, then click **Actions** > **Delete**.

Access the ICP from Tenable One OT Exposure EM

To navigate to the ICP from the EM:

a. In the row of the ICP that you want to open, click the link in the **Name** column.

Tenable One OT Exposure EM opens the Tenable One OT Exposure **Dashboards** page.

When accessing the ICP from **ICPs** page, the Tenable One OT Exposure header displays the **ICP** label.

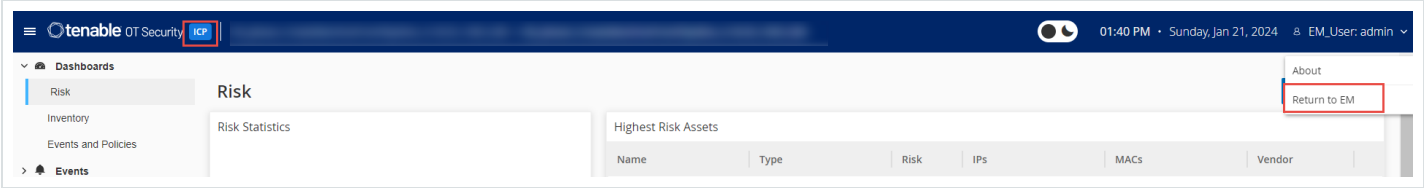
To return to the Tenable One OT Exposure EM interface from the ICP:

a. In the upper-right corner, click the profile button,

A menu appears.

b. Select **Return to EM**.

Tenable One OT Exposure EM interface appears.



Prepare Paired ICPs for Centralized Updates

Before an EM can update its paired ICPs, you must configure each ICP to receive packages from the EM instead of updating independently. Perform this procedure once on each paired ICP, including any ICP paired at a later date.

Before you begin

- The ICP must be paired and approved, with a status of **Connected**.
- You must have command line access to each ICP with `sudo` privileges.

To prepare a paired ICP for centralized updates:

1. On the ICP, list the contents of the offline ISO directory:

   ```
   ls -l /srv/tenablecore/offlineiso/
   ```

   If the directory contains an offline update ISO, delete it. An ISO file stored locally on the ICP causes the ICP to update from its local copy instead of receiving updates from the EM.

2. On the ICP, disable and stop the automatic update timer:

   ```
   sudo systemctl disable --now dnf-automatic-install.timer
   ```

3. Verify that the timer is disabled:

```
systemctl is-enabled dnf-automatic-install.timer
```

   The command returns `disabled`.

4. On the ICP, disable all Tenable repositories and enable the EM shared repository:

```
sudo dnf config-manager --disable 'tenable*' && sudo dnf config-manager --enable 'tenable-em-share'
```

5. Verify that `tenable-em-share` is the only enabled Tenable repository:

```
sudo dnf repolist --enabled | grep tenable
```

6. Repeat steps 1 through 5 on every remaining paired ICP.

> **Note**: Until you complete this procedure on an ICP, that ICP may not display an available version when you click **Check for Updates**, or its update attempt may fail.

Update ICPs

You can update the ICP and its operating system to the latest version, or you can update only the operating system. Updating only the operating system helps reduce system downtime, but Tenable recommends updating both components.

Before you begin

- The offline update ISO must be present on the EM at `/srv/tenablecore/offlineiso/tenable-offline-updates.iso`. This ISO contains the update packages for all Tenable One OT Exposure components (EM, ICPs, and sensors) and

it is the only source the EM uses when updating ICPs and sensors.

- The ICP must be able to communicate with the EM on TCP ports `28305` and `8000`.
- The EM must be running version 4.1 or later. For example, an EM running version 4.1 can update ICPs running version 4.0.
- Each paired ICP must be configured for centralized updates. See Prepare Paired ICPs for Centralized Updates.

Important! You can update the EM online or using an offline ISO file. However, paired ICPs and sensors receive updates only from the ISO stored on the EM. If you update the EM online without placing the ISO on the EM, clicking **Check for Updates** does not return available ICP versions.

You can download the ISO file from the **Tenable Core Offline Update ISO** section of the Tenable Downloads page. For more information, see Update Tenable Core Offline.

Note: The ISO requirement applies to ICP version updates only. You can distribute data ruleset updates (Nessus plugins, IDS Engine, DFE) from an online EM. For more information, see Manage Data Updates.

To update ICP and operating system:

1. On the **ICPs** page, in the upper-right corner, click **Check for Updates**.

   The **Version** column of the ICPs table displays an **updates available** message.

2. Do one of the following:

Update	Action
A single ICP	To update a single ICP: 1. In the ICPs table, select the checkbox next to the ICP you want to update. Tenable One OT Exposure EM enables the **Actions** button in the header bar. 2. Click **Actions** > **Update ICP Version**. The **Update ICP Version** panel appears. 3. Select one of the following options: • **Update ICP Application to version xx.xx.xx, including OS (recommended)** (default). • **Update OS only** 4. Click **Update**. The **Update ICP Version** panel appears with the message that the update process of the selected ICP is starting.
Multiple ICPs	To update multiple ICPs: 1. In the ICPs table, select one or more ICPs you want to update. Tenable One OT Exposure EM enables the **Actions** button in the header bar. 2. Click **Actions** > **Update ICP Version**.

	3. Select one of the following options: • **Update ICP Application to version xx.xx.xx, including OS (recommended)** (default). • **Update OS only** 4. Click **Update**. The **Update ICP Version** panel appears with the message that the update process of the selected ICPs is starting.

Note: The update process can take up to an hour to complete. During this time, Tenable One OT Exposure application is inaccessible.

During the update, the **Status** column in the **ICPs** table shows **Update in progress**. When the update is complete, the status changes to **Connected**.

Manage Data Updates

Use this option to manage updates across environments, even in air-gapped or internet-restricted sites. For more information, see Manage Data Updates.

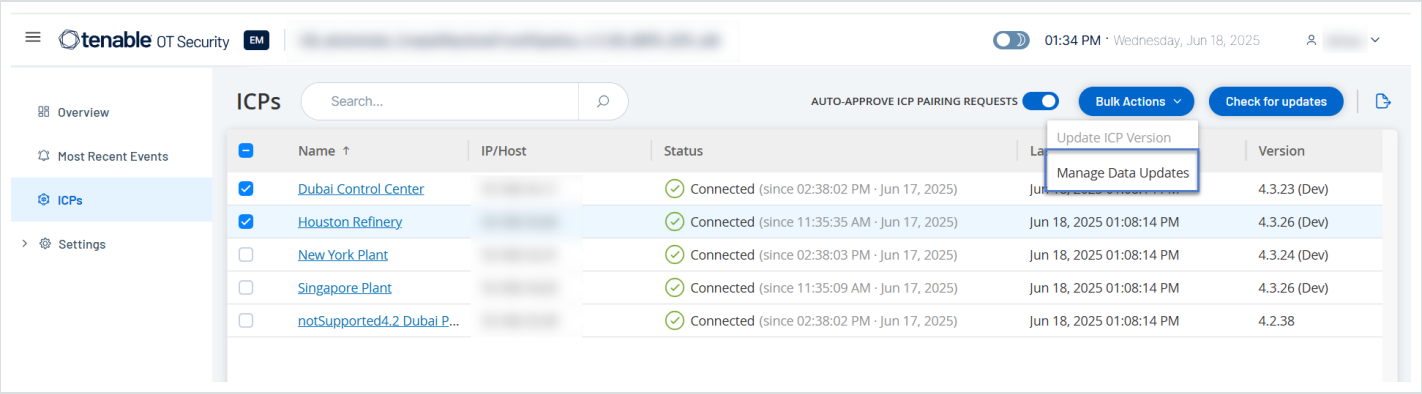
Manage Data Updates

The **Manage Data Updates** option allows you to centralize distribution of bulk ruleset updates, including plugins, Intrusion Detection Systems (IDS), and Dynamic Fingerprinting Engine (DFE) rulesets. You can use this option to manage updates for all your connected ICPs across various

environments, even those with limited or no internet access. In air-gapped or internet-restricted sites, the EM acts as a proxy and facilitates the delivery of updates from Tenable feed to ICPs.

Using centralized update management from EM, you can make sure that your entire environment is running the latest rulesets.

Note: This functionality is available only for licensed EM instances.



To manage updates from EM:

1. In the left navigation bar, click **ICPs**.

   The **ICPs** page appears with the list of paired ICPs.

2. To manage data updates, do one of the following:

   ### To update a single ICP:

   a. Do one of the following:

   - In the ICPs table, select the checkbox next to the ICP you want to update.

     Tenable One OT Exposure EM enables the **Actions** button in the header bar.

- Right-click the ICP you want to update.

  A menu appears.

b. Click **Manage Data Updates**.

   The **Manage Data Updates** panel appears.

To update multiple ICPs:

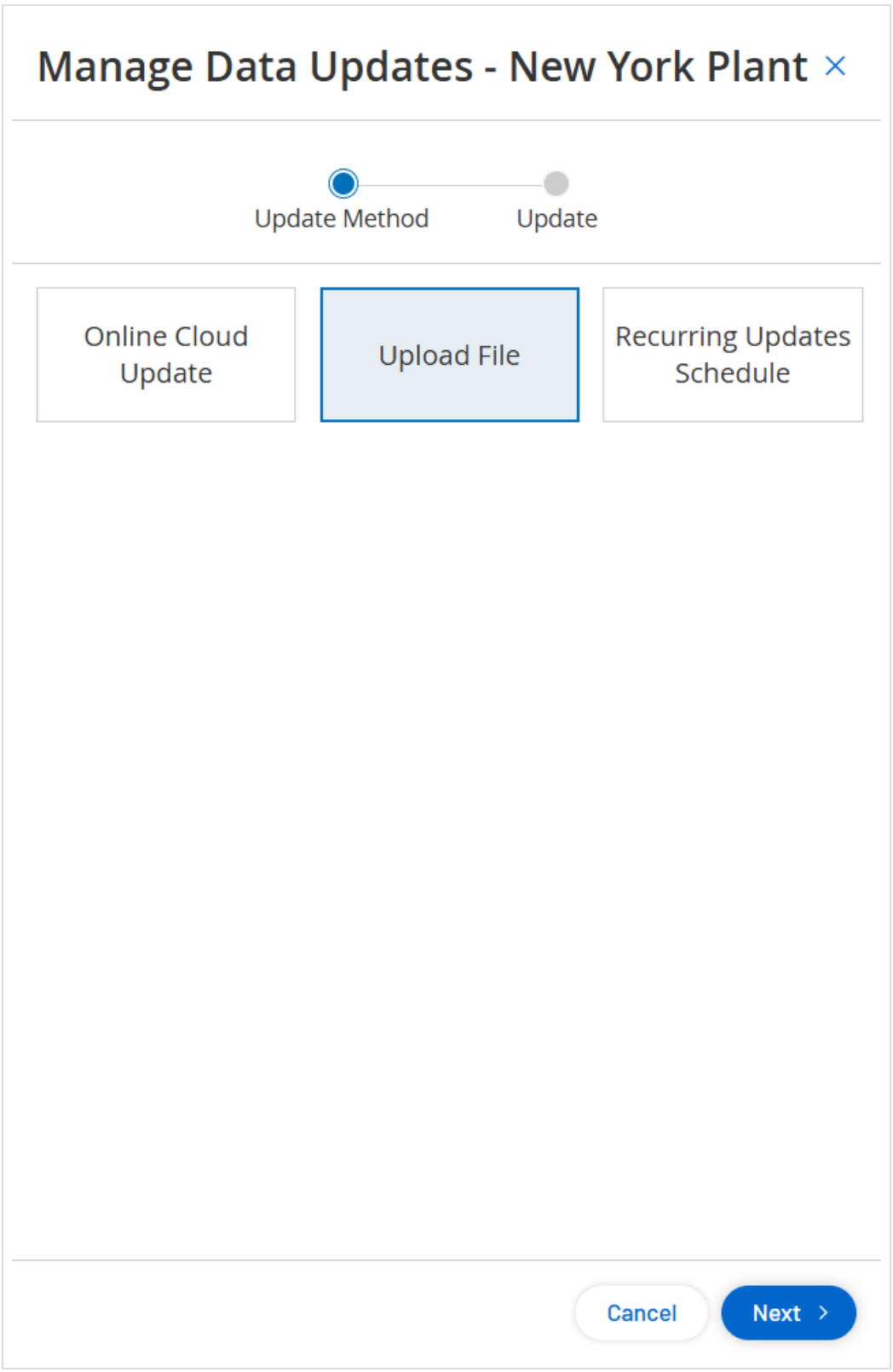
a. In the ICPs table, select one or more ICPs.

   Tenable One OT Exposure EM enables the **Action** button in the header bar.

b. Click **Actions** > **Manage Data Updates**.

   The **Manage Data Updates** panel appears.

3. In the **Update Method** section, select one of the following options:


Manage Data Updates - New York Plant
Update Method
Update
Online Cloud Update
Upload File
Recurring Updates Schedule
Cancel
Next

- Online Cloud Update
- Upload File
- Recurring Updates Schedule

Online Cloud Update

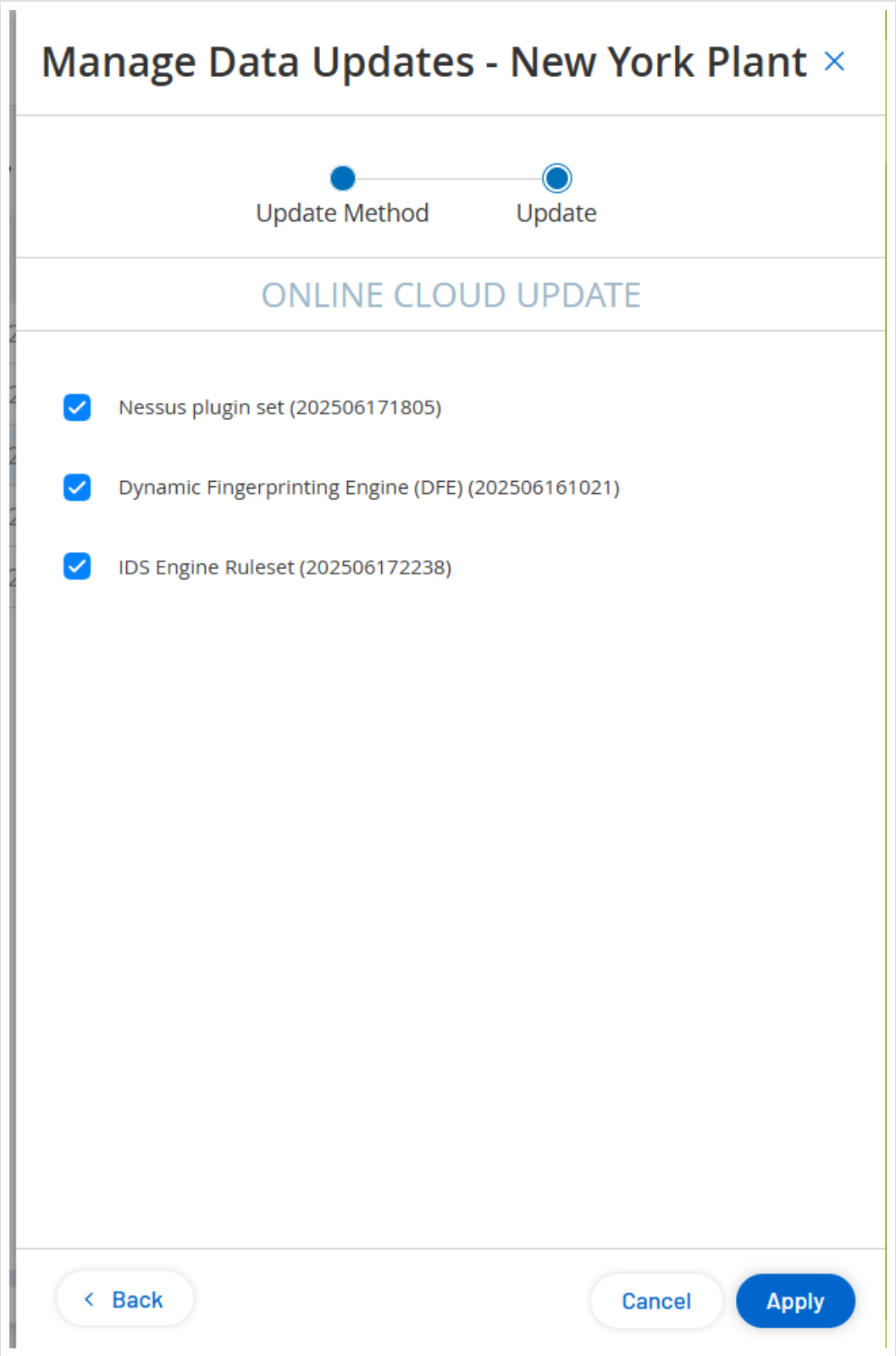
Use this option to fetch the latest rulesets directly from the Tenable Feed and push them immediately to selected ICPs.

To update ICPs using the online method:

1. Select the **Online Cloud Update** option and click **Next**.

   The **Update** section appears with the latest Nessus plugin, DFE update version, and the IDS Engine Ruleset versions. All ruleset options are selected by default.

2. Retain the default selections or clear the checkboxes for options you do not require.



3. Click **Apply**.

Tenable One OT Exposure EM connects to the Tenable feed, downloads the latest rulesets, and sends them to the selected ICPs.

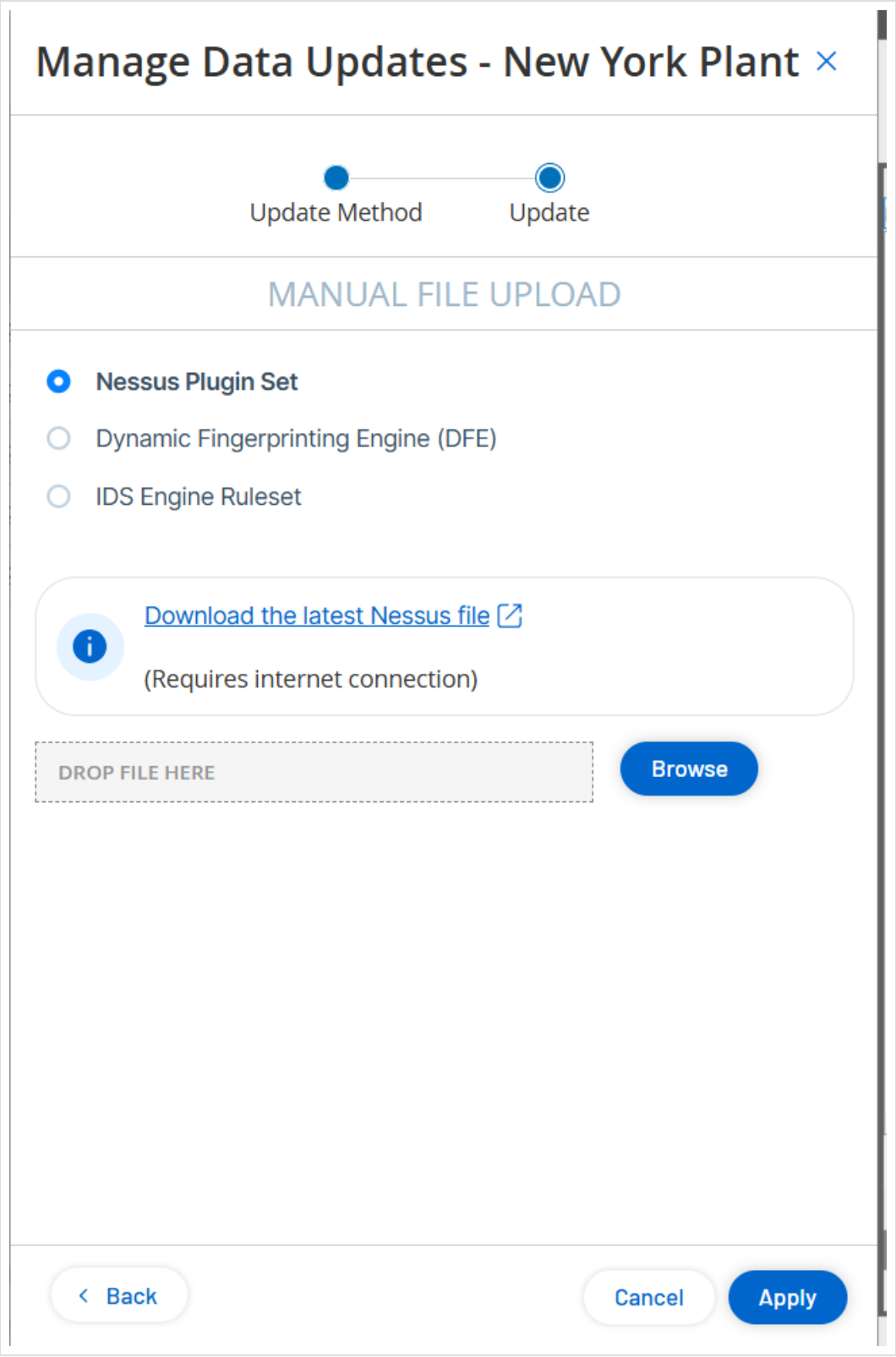
Upload File

Use this option to manually upload an offline ruleset file and distribute it to selected ICPs. This option is ideal for air-gapped environments. Once uploaded, Tenable One OT Exposure EM pushes the file to the selected ICPs.

To update ICP by uploading a ruleset file:

1. Select the **Upload File** option and click **Next**.

   The **Update** section appears.



2. Select one of the following options:

- **Nessus Plugin Set** (Default)
- **Dynamic Fingerprinting Engine (DFE)**
- **IDS Engine Ruleset**

3. To download the latest file, click the **Download the latest <Nessus, DFE, or IDS> file** link.

   Tenable One OT Exposure EM downloads the latest file.

4. In the **Drop File Here** box, click **Browse** to select the downloaded file and upload it.
5. Click **Apply**.

   Tenable One OT Exposure EM pushes the uploaded file to the selected ICPs.

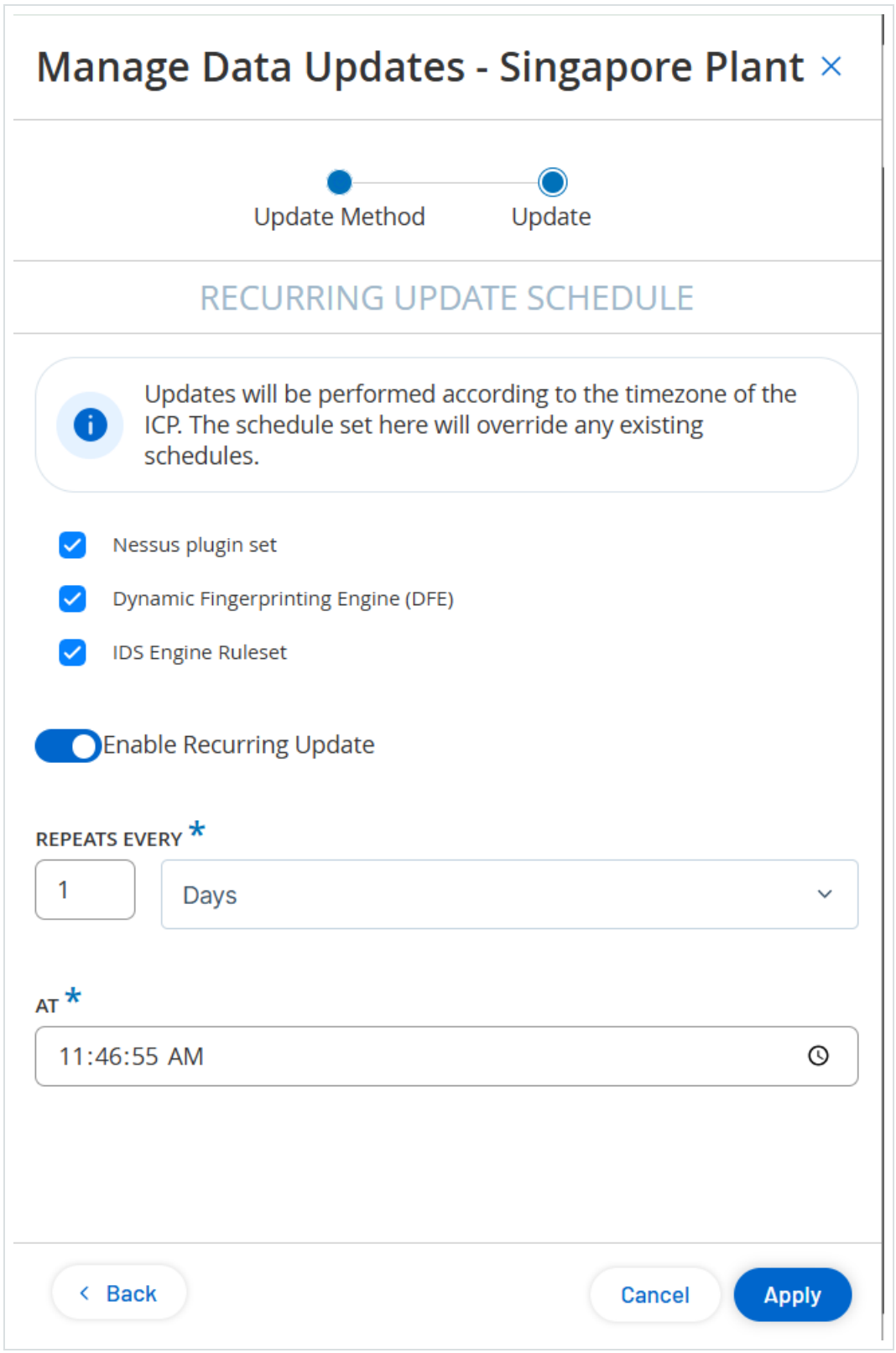
Recurring Updates Schedule

Use this option to set automatic updates by ruleset and time. The schedule runs in the ICP's time zone and overrides any existing ICP-level schedule.

To update ICPs using the recurring schedule option:

1. Select the **Recurring Updates Schedule** option.

   The **Update** section appears.



2. Check if the rulesets you want to update are selected. All options are selected by default.

- **Nessus plugin set**
- **Dynamic Fingerprinting Engine (DFE)**
- **IDS Engine Ruleset**

3. Click the **Enable Recurring Update** toggle to enable the recurring update schedule.

   Tenable One OT Exposure EM displays the schedule settings.

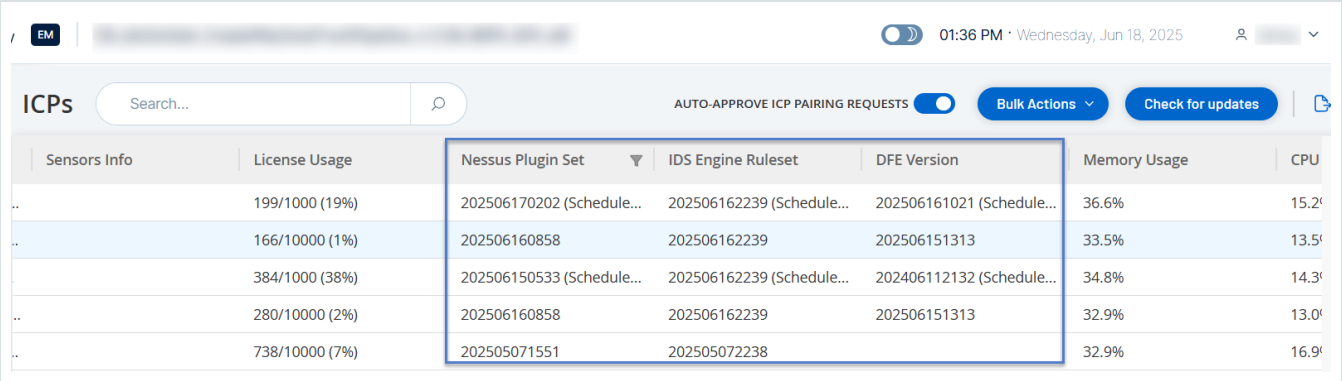
4. In the **Repeats Every** box, select the number and **Days** or **Weeks**.

5. (Optional) If you select **Weeks**, in the **On** box, select the days on which you want to schedule the update.

6. In the **At** box, click the clock icon to display the time window and select the time in the **hours: minutes: seconds** AM or PM format.

7. Click **Apply**.

   Tenable One OT Exposure EM automatically updates the ICPs at the scheduled time. The scheduled update time appears in the ICP table under the **Nessus Plugin Set**, **IDS Engine Ruleset**, and **DFE Version** columns.



Tenable One OT Exposure EM updates the selected ruleset type (Nessus, DFE, or IDS) based on the type of update.

Note: In Tenable One OT Exposure, you can still manually update the rulesets from **Settings** > **System Configuration** > **Updates**. However, if you schedule the update frequency in EM, Tenable One OT Exposure disables the **Edit Frequency** option until the EM releases the ICP, the systems unpair, or there's a license issue. For more information, see Updates.

Pair ICP with Enterprise Manager

Required Tenable One OT Exposure User Role: Administrator, Supervisor

Note: This flow is available for Tenable One OT Exposure 3.18 and later.

You can pair your Industrial Core Platform (ICP) with Tenable One OT Exposure EM and manage all your sites.

Note:Once paired with EM, all updates must be done at the EM level so that the sites and their sensors receive the latest version updates.

Before you Begin

Make sure that:

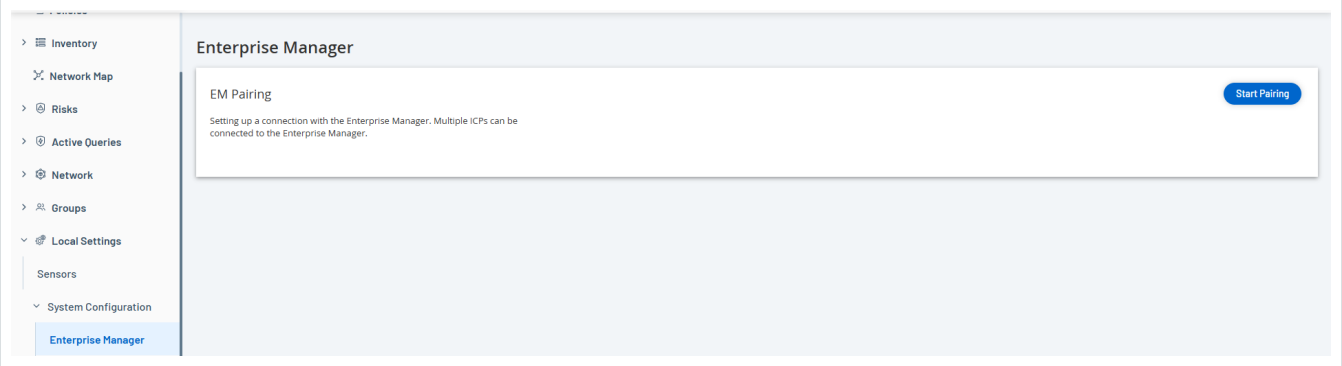
- Tenable One OT Exposure EM can connect via API to the ICP.
- Make sure TCP 443 and TCP 28305 are open for communication from ICP to Tenable One OT Exposure EM.
- HTTPS connections exist between ICP and Tenable One OT Exposure EM.
- (Optional) Generate an API Key in Tenable One OT Exposure EM.

  Note: This is required only when pairing using the API key option.

To pair ICP with Tenable One OT Exposure EM:

1. In Tenable One OT Exposure, go to **Settings** > **System Configuration** > **Enterprise Manager**.

   The **Enterprise Manager** page appears.



2. In the **EM Pairing** section, click **Start Pairing**.

   The **EM Pairing Configuration** panel appears.

3. Select one of the following:

   - **Pair using username and password**
   - **Pair using API secret**

If you select...	Action
Pair using username and password	1. In the **Hostname/IP** box, type the hostname or the IP address of the EM. 2. In the **Username** box, type the administrator username of the EM. 3. In the **Password** box, type the password of the EM. 4. In the **EM Certificate Fingerprint**, paste the certificate that you copied from the EM **Certificates** page. **Tip**: You can skip this step and manually approve the certificate from the **EM Pairing** page.

	Note: You can access the **Certificates** page from **Local Settings** > **System Configuration** in Tenable One OT Exposure EM.
Pair using API Key	1. In the **Hostname/IP** box, type the hostname or the IP address of the EM. 2. In the **API Secret** box, paste the API key that you copied from the EM. 3. In the **EM Certificate Fingerprint**, paste the certificate that you copied from the EM **Certificates** page. **Tip**: You can skip this step and manually approve the certificate from the **EM Pairing** page. **Note**: You can access the **Certificates** page from **Local Settings** > **System Configuration** in Tenable One OT Exposure EM.

4. Click **Pair**.

   Tenable One OT Exposure displays the **EM Pairing** page with the pairing status.

   Note: The status can show as **Waiting for certificate approval** (if certificate is not provided) or **Pending EM approval** (if automatic approval of pairing requests is disabled).

5. (Optional) If the status shows **Waiting for certificate** approval:

   a. Click **Show Certificate**.

      The **Approve Certificate** panel appears.

   b. Verify if the fingerprint on the panel is the same as that on the EM **Certificates** page.

Click **Approve**.

Tenable One OT Exposure approves the certificate and displays the EM pairing page with the status changed to **Pending EM approval**.

6. If the status shows **Pending EM approval**, it indicates that **Auto Approve ICP Pairing Requests** is disabled, then proceed as follows:

   Tip: To approve pairing requests automatically in Tenable One OT Exposure EM, enable the **Auto Approve ICP Pairing Requests** in the Tenable One OT Exposure EM **ICPs** page.

   a. In Tenable One OT Exposure EM, in the left navigation bar, select **ICPs**.

      The **ICPs** page appears.

   b. Hover over the row of the system you want to pair, do one of the following:

      - Right-click the **Status** column and select **Approve**.
      - In the upper-right corner, click **Actions** > **Approve**.

   Tenable One OT Exposure EM approves the pairing and shows the status as **Connected**.

   Tip: After the pairing is complete, Tenable One OT Exposure EM shows the following:

   - Shows the data from the ICP on the EM **Dashboards**.
   - Newly paired ICP appears on the **ICPs** page.
   - Access to the ICP by clicking the ICP name from the **ICPs** page. The ICP instance accessed from the EM shows the **ICP** label in the header. For more information, see ICPs in the Tenable OT Security Enterprise Manager User Guide.

   In Tenable One OT Exposure, the **Enterprise Manager** page shows the status as **Connected**. You can click **Edit** to modify the EM pairing configuration.

Disconnect ICP Pairing with Enterprise Manager

Required Tenable One OT Exposure User Role: Administrator, Supervisor

You can disconnect the ICP pairing from the EM or the ICP when the pairing is no longer needed.

Disconnect an ICP pairing from Tenable One OT Exposure EM

1. In Tenable One OT Exposure EM, in the left navigation bar, select **ICPs**.

   The **ICPs** page appears.

2. Hover over the row of the ICP you want to delete, do one of the following:

   - Right-click the **Status** column and select **Delete**.
   - Click the ICP row. This highlights the row and enables the **Actions** button.

3. Click **Delete**.

Tenable One OT Exposure EM disconnects the pairing with Tenable One OT Exposure.

Disconnect an ICP pairing from Tenable One OT Exposure

1. In Tenable One OT Exposure, go to **Settings** > **System Configuration** > **Enterprise Manager**.

   The **Enterprise Manager** page appears.

2. In the EM Pairing section, click **Edit**.

   The **EM Pairing** panel appears.

3. Click **No Pairing**.

4. Click **Pair**.

   Tenable One OT Exposure disconnects the pairing with Tenable One OT Exposure EM.

Settings

You can use the **Settings** to view and configure the Tenable One OT Exposure EM settings. The **Settings** section includes these pages for configuring your settings:

- Device
- Certificates
- API Keys
- License
- Users Management
- User Settings
- Local Users
- User Groups
- Authentication Servers
- SAML
- Integrations
- Syslog Servers
- System Actions

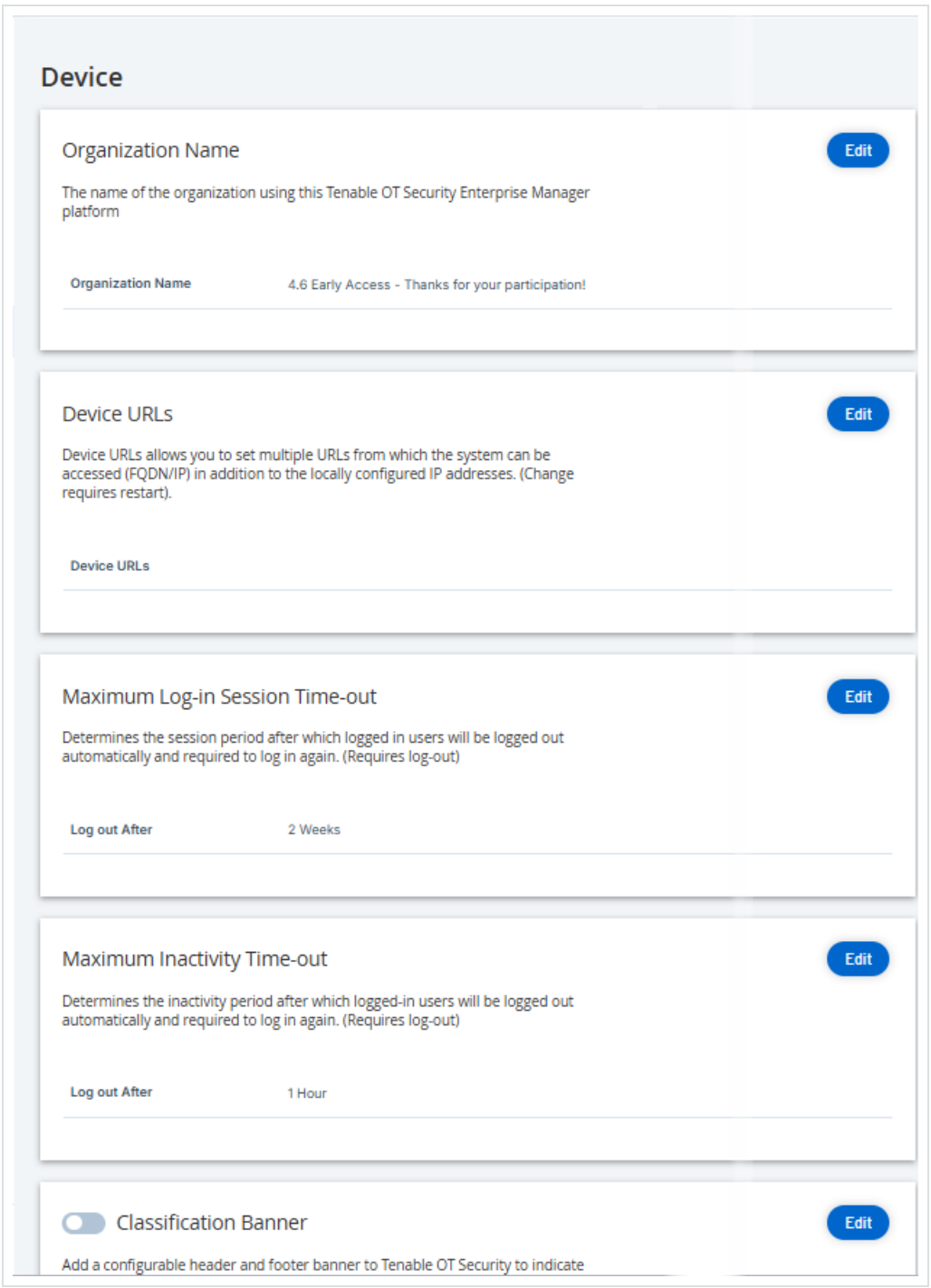
System Configuration

The System Configuration section allows administrators to manage the foundational settings of the Tenable One OT Exposure EM. This includes defining the device identity, securing connections via encryption certificates and API keys, and maintaining the system's operational status through license management. The System Configuration includes the following section:

- Device
- Certificates
- API Keys
- Tenable One OT Exposure EM License

Device

The page allows you to view and edit device details and network information such as port configuration and system time, automatic logout (inactivity timeout).


Device
Organization Name
Edit
The name of the organization using this Tenable OT Security Enterprise Manager platform
Organization Name
4.6 Early Access - Thanks for your participation!
Device URLs
Edit
Device URLs allows you to set multiple URLs from which the system can be accessed (FQDN/IP) in addition to the locally configured IP addresses. (Change requires restart).
Device URLs
Maximum Log-in Session Time-out
Edit
Determines the session period after which logged in users will be logged out automatically and required to log in again. (Requires log-out)
Log out After
2 Weeks
Maximum Inactivity Time-out
Edit
Determines the inactivity period after which logged-in users will be logged out automatically and required to log in again. (Requires log-out)
Log out After
1 Hour
Classification Banner
Edit
Add a configurable header and footer banner to Tenable OT Security to indicate

Device

Organization Name

Edit

The name of the organization using this Tenable OT Security Enterprise Manager platform

Organization Name	[redacted]

Device URLs

Edit

Device URLs allows you to set multiple URLs from which the system can be accessed (FQDN/IP) in addition to the locally configured IP addresses. (Change requires restart).

Maximum Log-in Session Time-out

Edit

Determines the session period after which logged in users will be logged out automatically and required to log in again. (Requires log-out)

Log out After	2 Weeks

Maximum Inactivity Time-out

Edit

Determines the inactivity period after which logged-in users will be logged out automatically and required to log in again. (Requires log-out)

Log out After	1 Hour

Classification Banner

Edit

Add a configurable header and footer banner to Tenable OT Security to indicate the classification of the data accessible via the software.

Banner Background Color	Yellow

Enable Usage Statistics

Enable this option to turn on telemetry and to access the OT Security Resource Center. After enabling or disabling, refresh your browser for the change to take effect.
Note: When enabled, Tenable collects anonymous telemetry data from your account. This information cannot be attributed to a specific individual; it does not

The **Device** page shows the following information:

Parameter	Description
Organization Name	The name of the Tenable One OT Exposure management system.
Device URLs	The URL used to access the Tenable One OT Exposure EM console in a DNS environment.
Maximum Log-in Session Time-out	The session period after which users are logged out automatically.
Maximum Inactivity Time-out	The period of inactivity that causes the system to log out automatically.
Classification Banner	Add a banner to Tenable One OT Exposure EM to indicate the data accessible via the software. To add a banner, click **Edit**. After adding the banner, click to enable the **Classification Banner** toggle.
Enable Usage Statistics	The **Enable Usage Statistics** option specifies whether Tenable collects anonymous telemetry data about your Tenable One OT Exposure EM deployment. When enabled, Tenable collects telemetry information at the company level and not at an individual level. This information does not include personal data or personally identifiable information (PII). Telemetry information includes, but is not limited to, data about your visited pages, your used reports and dashboards, and your configured features. Tenable uses the data to improve your user experience in future Tenable One OT

	Exposure EM releases and for other reasonable business purposes in accordance with the Tenable Master Agreement. This setting is enabled by default. To enable telemetry collection, click the **Enable Usage Statistics** toggle. **Note**: You can disable sharing of usage statistics at any time by clicking the toggle switch.
Auto approve ICP pairing requests	Enable this option to approve all ICP pairing requests automatically. For more information about pairing an ICP, see Pair ICP with Enterprise Manager.

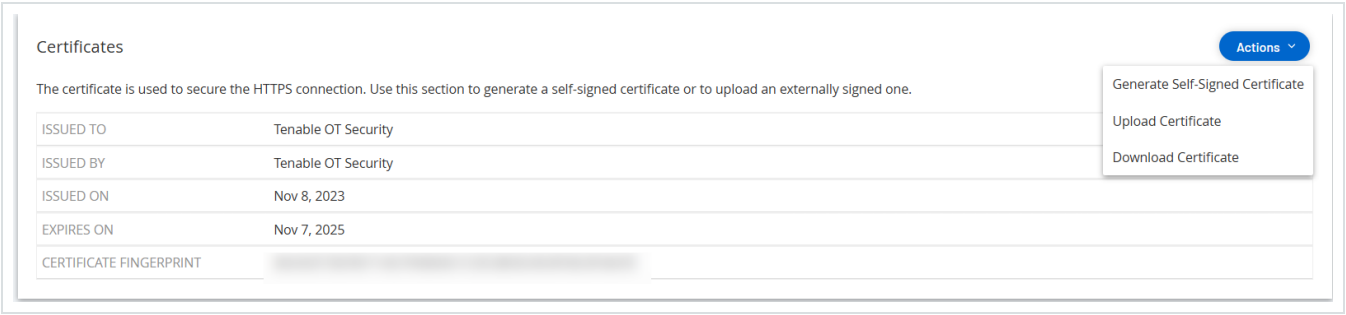
Certificates

The HTTPS certificate ensures the system uses a secure connection to the Tenable One OT Exposure EM appliance and server. The initial certificate ages out after two years. You can generate a new self-signed certificate at any time. The new certificate is valid for one year.

To generate a certificate:

1. Go to **Settings** > **System Configuration** > **Certificates**.

   The **Certificates** page appears.



2. From the **Actions** menu, select **Generate Self-Signed Certificate**.

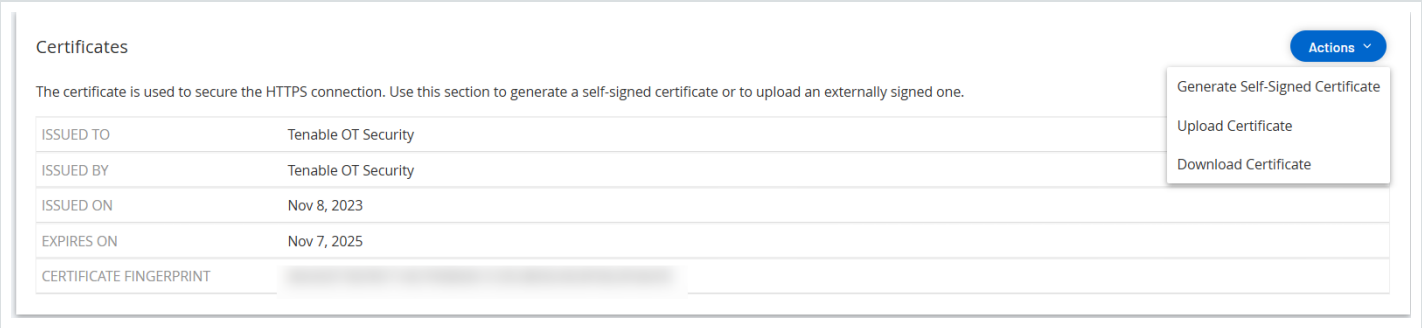
The **Generate Certificate** confirmation window appears.

3. Click **Generate**.

   Tenable One OT Exposure EM generate the self-signed certificate, which appears on the **Certificates** page.

View the Certificates page

On the **Certificate** page, you can view information about your HTTPS certificate and generate a new certificate for secure HTTPS connections for the Tenable One OT Exposure EM. Generating a new certificate overrides the current certificate. A certificate is valid for one year.



The **Certificates** page shows the following details:

Parameter	Description
Issued to	The entity to which the certificate was issued.
Issued by	The entity that issued the certificate.
Issued on	The issue date of the certificate.
Expires on	The date when the certificate ages out.

Upload a Certificate

To upload a certificate:

1. Go to **Settings** >**System Configuration** > **Certificates**.

   The **Certificates** window appears.

2. From the **Actions** menu, select **Upload Certificate**.

   The **Upload Certificate** panel appears.

3. In the **Certificate File** section, click **Browse** and navigate to the certificate file you want to upload.

4. In the **Private Key File** section, click **Browse** and navigate to the private key file you want to upload.

5. In the **Private Key Passphrase** box, type the private key passphrase.

6. Click **Upload**.

   Tenable One OT Exposure EM uploads the certificate.

Download Certificate

- To download the certificate, click **Actions** > **Download Certificate**.

  Tenable One OT Exposure EM downloads the certificate to your system.

API Keys

You can generate API keys to pair an ICP with the EM. For information about how to pair an ICP, see Pair ICP with Enterprise Manager.

To generate API keys in Tenable One OT Exposure EM:

1. Go to **Settings** > **System Configuration** > **API Keys**.

   The **API Keys** page appears.

2. In the upper-right corner, click **Generate Key**.

The **Generate Key** panel appears.

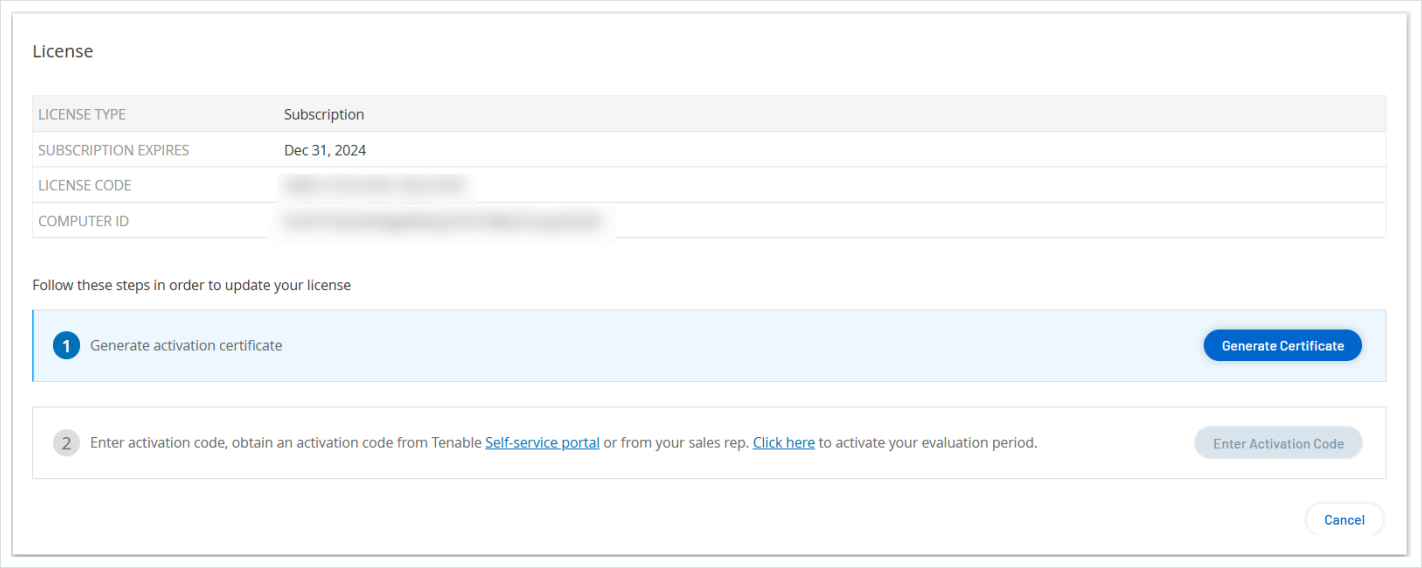
3. In the **Expiration Period** box, select the number of days after which the API key can age out.
4. In the **Description** box, type a description for the API key.
5. Click **Generate**.

   The **Generate Key** panel displays the ID and API Key.
6. Click the button to copy the API key.
7. Click **Done**.

   Tenable One OT Exposure EM displays the **API Keys** page with the newly added key ID..

Tenable One OT Exposure EM License

Starting with Tenable One OT Exposure version 3.16 or later, the Tenable One OT Exposure EM requires a license. You can view the license status here: **Settings** > **System configuration** > **License**.



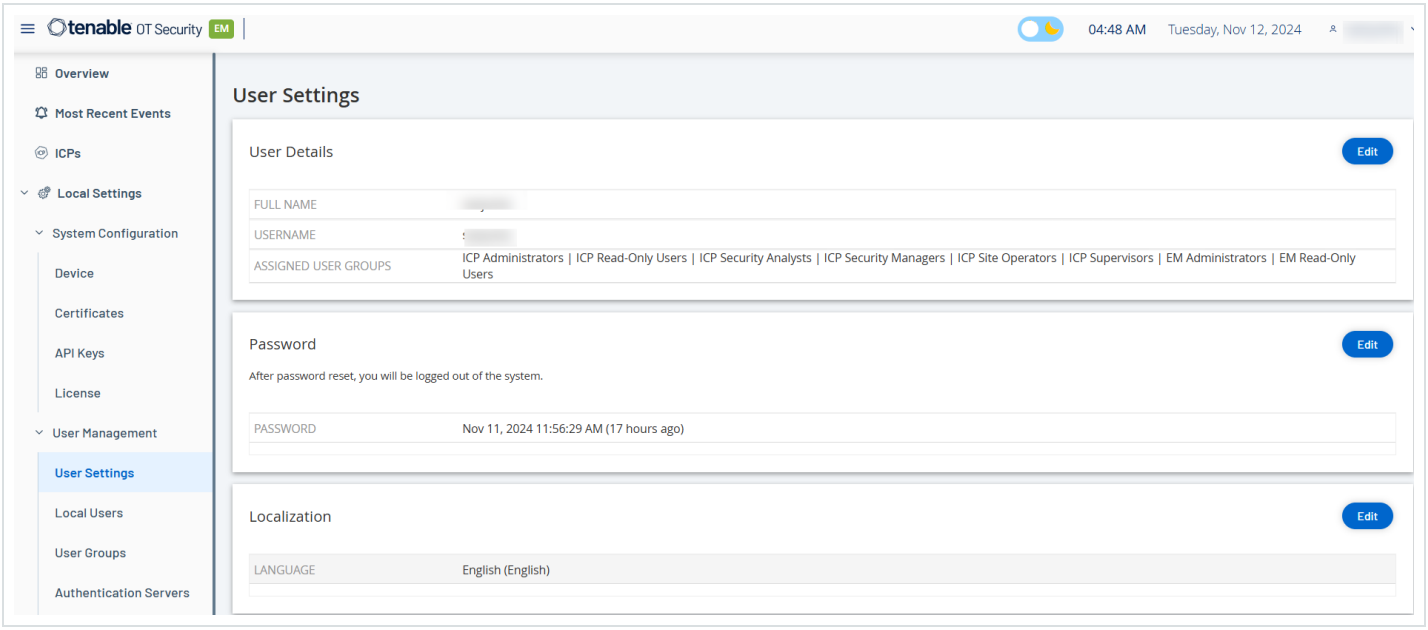
Users Management

The **Users Management** section includes these pages:

- User Settings
- Local Users
- User Groups
- Authentication Servers
- SAML

User Settings

The User Settings page allows you to view and edit information about the user who is currently logged into the system (Full Name, Username, and Password) and change the user interface language (English, Japanese, Chinese, French, or German).



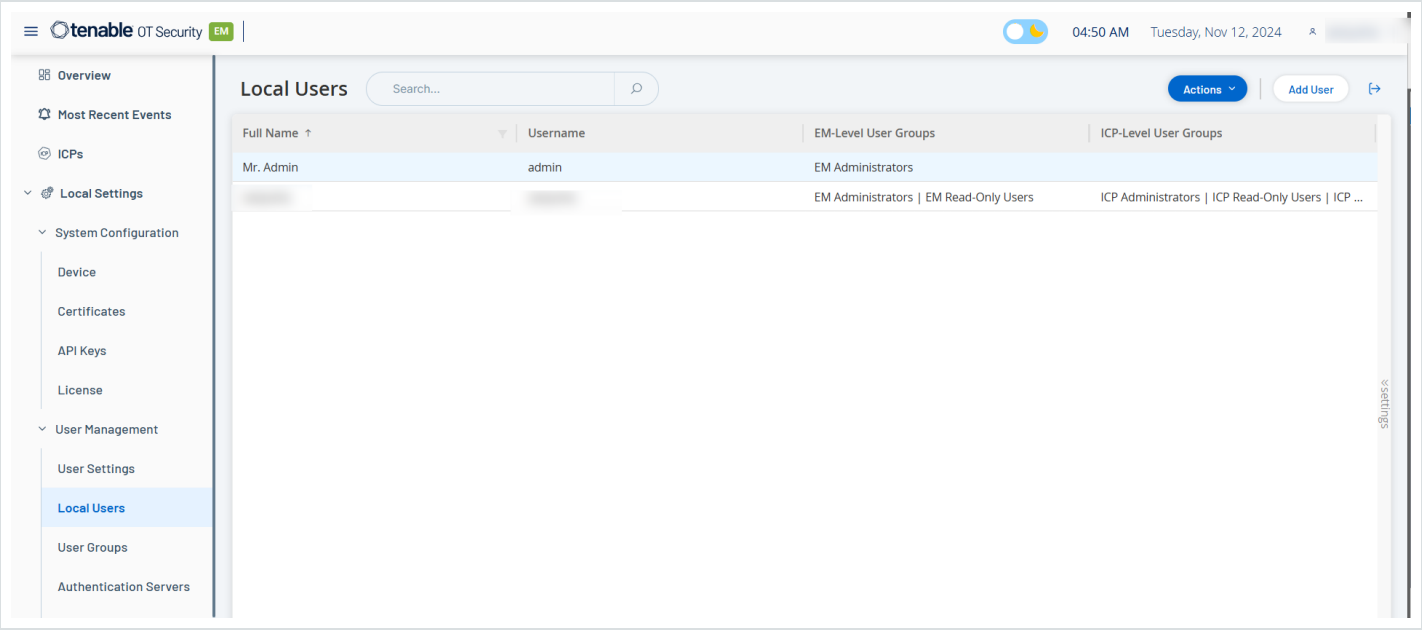
The following table describes the information on the **User Settings** page.

Parameter	Description

Full Name	The first and last name of the user.
Username	The username of the user.
Assigned User Groups	The user groups assigned to the user.
Language	The language of the user interface (English, Japanese, Chinese, French, or German).

Local Users

The **Local Users** page lists the local users for the Tenable One OT Exposure EM. On this page, an administrator user can create new user accounts, reset passwords, and edit or delete existing accounts. Each user belongs to one or more user groups, which determine the roles assigned to the user.



- To add new users, in the upper-right corner, click **Add User**.
- To modify a user, delete a user, or change a user's password, click the **Actions** button.
- To download a CSV file of the users, click the **Export** button.

You can customize the display settings by adjusting the display and position of columns. You can also sort and filter the users list as well as search for text in the **Search** box. For information about customizing features, see Customize Tables in the Tenable One OT Exposure User Guide.

The **Local Users** page shows the following details:

Parameter	Description
Full Name	The first and last name of the user.
Username	The username of the user.
EM Level User Groups	The EM user groups assigned to the user. The options available are: **EM Administrators** and **EM Read-Only Users**.
ICP Level User Groups	The ICP user groups assigned to the user. The ICP user groups available are: • **ICP Administrators** • **ICP Read-Only Users** • **ICP Security Analysts** • **ICP Security Managers** • **ICP Site Operators** • **ICP Supervisors**

You can perform the following actions from the **Local Users** page:

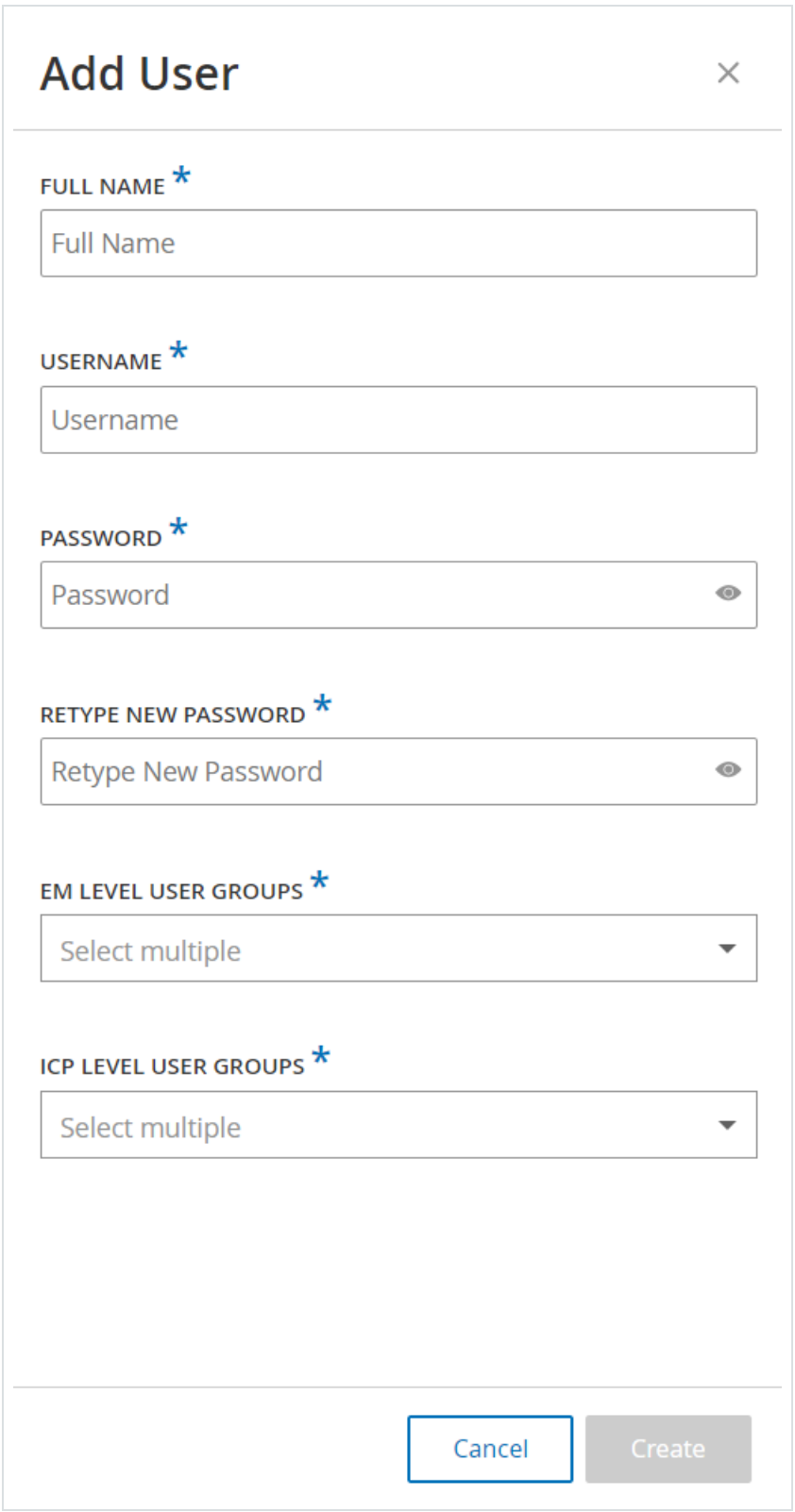
Add a Local User

You can create user accounts to authorize individual users to access the system. Each user must belong to one or more User Groups.

To create a local user account:

1. Go to **Settings** > **User Management** > **Local Users**.
2. Click **Add User**.

   The **Add User** pane appears.



3. In the **Full Name** box, type the first and last name.

> **Note**: The name that you enter appears in the header bar when the user signs in.

4. In the **Username** box, type a username to use when logging in to the system.
5. In the **Password** box, type a password.
6. In the **Retype Password** box, retype the password.

> **Note**: This is the password that the user uses for the initial login. The user can change the password in the **Settings** window after logging into the system.

7. In the **EM Level User Groups** drop-down box, select the checkbox for each user group to which you want to assign this user. The EM user groups available are: **EM Administrators** and **EM Read-Only Users**.
8. In the **ICP Level User Groups** drop-down box, select the ICP group to which you want to assign this user. The ICP user groups available are:
    - **ICP Administrators**
    - **ICP Read-Only Users**
    - **ICP Security Analysts**
    - **ICP Security Managers**
    - **ICP Site Operators**
    - **ICP Supervisors**
9. Click **Create**.

    Tenable One OT Exposure creates the new user account in the system and adds it to the list of users in the **Local Users** page.

Edit a User

You can assign a user to additional user groups or remove the user from a group.

To edit a user group:

1. Go to **Settings** > **Users Management** > **Local Users**.

   The **Local Users** page appears.

2. Do one of the following:

   - Select the row of the user you want to edit and click **Actions** in the upper-right corner.

     A menu appears.

   - Right-click the row of the user you want to edit.

     A menu appears.

3. Click **Edit User**.

   The **Edit User** panel appears.

4. In the **EM Level User Groups** box, select or clear the user groups to which the user belongs.

5. In the **ICP Level User Groups** box, select or clear the user groups to which the user belongs.

6. Click **Save**.

   Tenable One OT Exposure EM saves the changes to the user account.

Reset Password

> **Note**: Only an administrator can change the password for any account in the system. Any user can change their own password from **Settings** > **User Settings**.

To change the password of a user:

1. Go to **Settings** > **Users Management** > **Local Users**.

   The **Local Users** page appears.

2. Do one of the following:

- Select the row of the user you want to change the password and click **Actions** in the upper-right corner.

  A menu appears.

- Right-click the row of the user whose password you want to change.

  A menu appears.

3. Click **Reset Password**.

   The **Reset Password** panel appears.

4. In the **New Password** box, type a new password.

5. In the **Retype New Password** box, retype the new password.

6. Click **Reset**.

   Tenable One OT Exposure EM applies the new password to the specified user account.

Delete a User

1. Go to **Settings** > **Users Management** > **Local Users**.

   The **Local Users** page appears.

2. Do one of the following:

   - Select the row of the user you want to delete and click **Actions** in the upper-right corner.

     A menu appears.

   - Right-click the row of the user you want to delete.

     A menu appears.

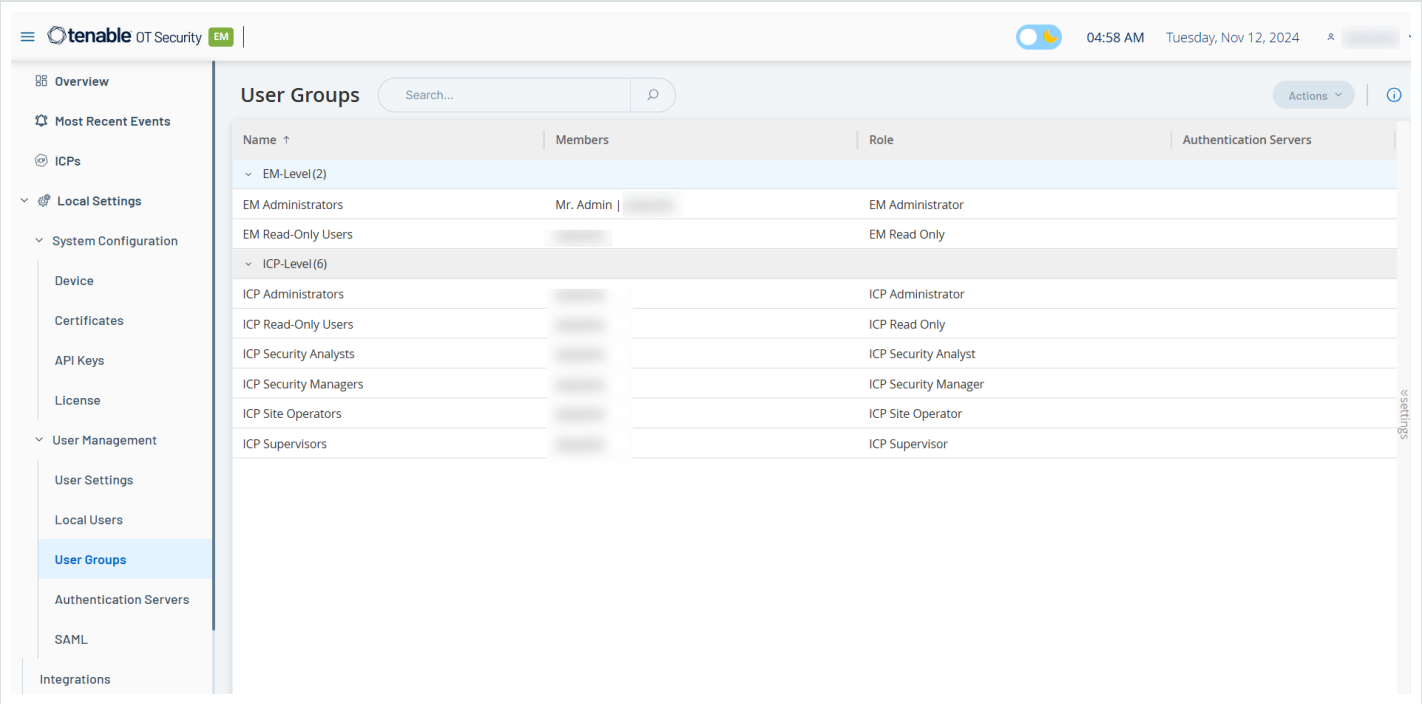
3. Click **Delete User**.

   Tenable One OT Exposure EM deletes the user account from the system.

User Groups

Required Tenable One OT Exposure User Role: EM Administrator

Use the User Groups page to view the list of users assigned to the EM Level and ICP Level User Groups. An administrator can create new user groups and edit existing groups. For more information about assigning users to a user group, see Add a Local User.



The User Groups table includes the following:

Column	Description
Name	The type of user group: **EM Level** and **ICP Level**.
Members	The user account assigned to the EM level and ICP level user group.
Role	The role assigned to the user account:

	• **EM Administrator** • **EM Read Only** • **ICP Administrator** • **ICP Supervisor** • **ICP Security Manager** • **ICP Security Analyst**

You can perform the following on the **User Groups** page:

Create an ICP-Access User Group

You can create an **ICP-Access User Group** to allow per-ICP permissions. These EM user groups are automatically and consistently synchronized with the linked ICP user groups, ensuring the EM user has the exact role and zone visibility defined at the ICP level.

This allows you to define specific roles per ICP, for instance, **Supervisor** on *ICP A*, **Read-Only** on *ICP B*, and no access to *ICP C*.

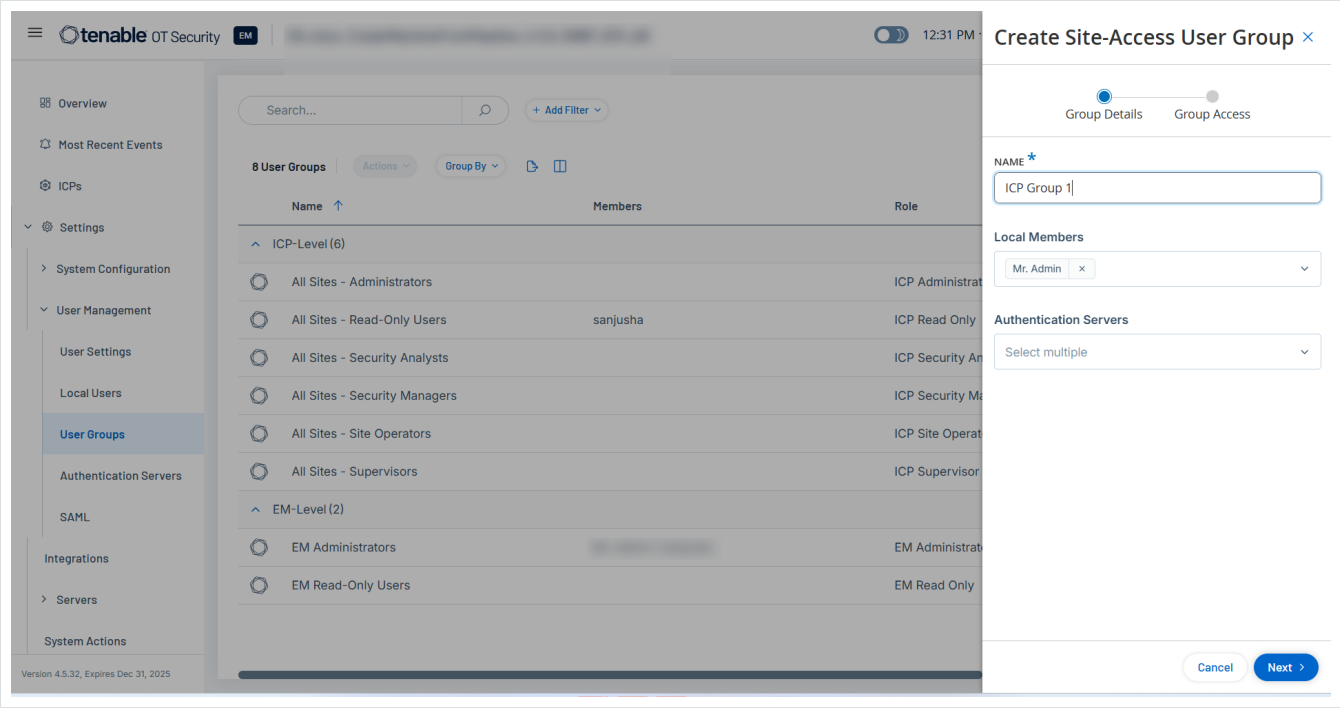
Creating ICP-Access user groups enables you to do the following:

- Assign OT Security EM users to specific ICPs using EM user groups.
- Inherit ICP-level roles and zone visibility without duplicate configuration.
- Restrict access so that users can only view ICPs or zones for which they have authorization.
- Improve security separation and limit the exposure of sensitive site information.

To create an ICP-Access User Group:

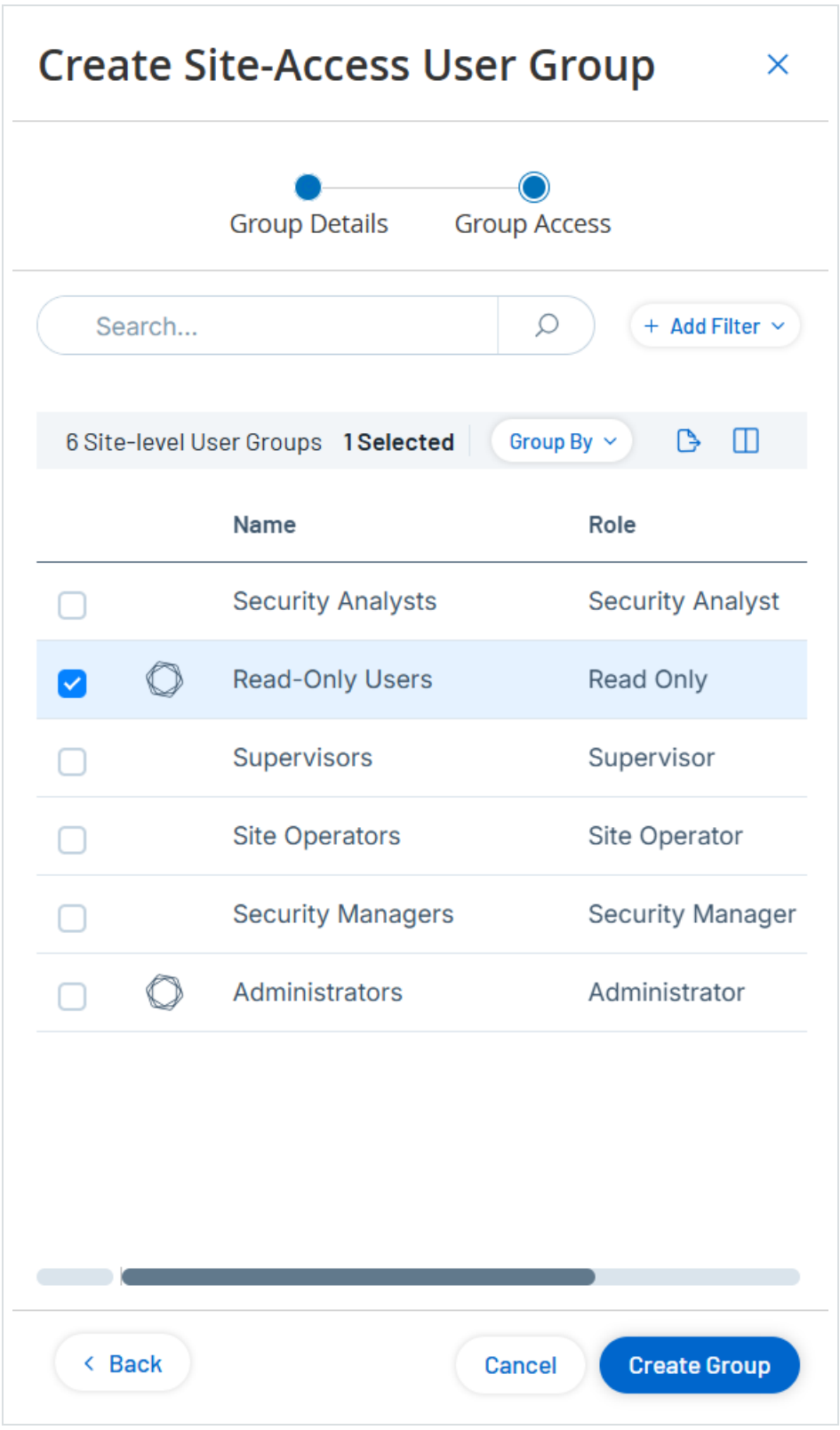
1. In the upper-right corner, click **Create ICP-Access User Group**.

   The **Create Site-Access User Group** panel appears with the **Group Details** section.



2. In the **Name** box, type a name for the user group.
3. In the **Local Members** drop-down box, select one or several users you want to add to this group.
4. In the **Authentication Servers** box, select one or more servers you want to use for authentication.
5. Click **Next**.

   The **Group Access** section appears.


Create Site-Access User Group
Group Details
Group Access
Search...
+ Add Filter
6 Site-level User Groups
1 Selected
Group By
Name
Role
Security Analysts
Security Analyst
Read-Only Users
Read Only
Supervisors
Supervisor
Site Operators
Site Operator
Security Managers
Security Manager
Administrators
Administrator
Back
Cancel
Create Group

6. Search for and select the site-level user permissions you want to assign to the group. For more information about customizing the table, see Customize Tables.
7. Click **Create Group**.

   Tenable One OT Exposure EM creates the group.

Edit an ICP-Access User Group

You can modify the settings for a user group as required.

To edit an Site-Access user group:

1. In the User Groups table, select a Site-Access user group to edit.

   Tenable One OT Exposure EM enables the **Actions** button.
2. Click **Actions** and select **Edit**.

   The **Edit Site-Access User Group** panel appears.
3. Modify the settings as needed.
4. Click **Next**.

   The **Group Access** panel appears.
5. Select or deselect site level group permissions as required.
6. Click **Create Group**.

   Tenable One OT Exposure EM saves the modified user group.

Delete an ICP-Access User Group

You can delete a site-access user group you no longer need.

1. In the User Groups table, select a Site-Access user group to delete.

   Tenable One OT Exposure EM enables the **Actions** button.

2. Click **Actions** and select **Delete**.

   Tenable One OT Exposure EM prompts you to confirm the deletion.

3. Click **Delete**.

   Tenable One OT Exposure EM deletes the site-access user group.

Authentication Servers

The **Authentication Servers** page shows your existing integrations with authentication servers. You can add a server by clicking the **Add server** button.

You can integrate Tenable One OT Exposure EM with the following types of servers:

Active Directory

You can integrate Tenable One OT Exposure EM with your organization's Active Directory (AD). This enables users to log in to Tenable One OT Exposure EM using their Active Directory credentials. The configuration involves setting up the integration and then mapping groups in your AD to User Groups in Tenable One OT Exposure EM.

To configure your Active Directory:

1. Go to **Settings** > **Users Management** > **Authentication Servers**.

   The **Authentication Servers** window appears.

2. In the upper-right corner, click **Add server**.

   The **Create Authentication Server** panel opens with the **Server Type**.

3. Click **Active Directory**, then click **Next**.

   The **Active Directory** configuration pane appears.

4. In the **Name** box, type the username used for logging in to the server.

5. In the **Domain** box, type the FQDN of the organizational domain (for example, company.com).

   > **Note**: To find your domain, type the command “set” in the Windows CMD or command line. The value given for the “USERDNSDOMAIN” attribute is the Domain Name.

6. In the **Base DN** box, type the name of the domain. The format for this value is ‘DC={second-level domain},DC={top-level domain}’ (for example DC=company,DC=com).

7. For each of the groups you want to map from the Active Directory group to an Tenable One OT Exposure EM User Group, type the Domain Name of the Active Directory group in the relevant box.

   > **Note**: These parameters are optional. However, If a parameter remains empty, no Active Directory users get assigned to that user group. You can set up an integration without mapped groups, but no user can access the system until you add at least one group mapping.

8. (Optional) In the **Trusted CA** section, click **Browse** and navigate to the file that contains your organization’s CA Certificate.

   > **Note**: You can obtain the certificate from your CA or Network Administrator.

9. Click **Save**.

   Tenable One OT Exposure EM shows a message prompting you to restart to activate the Active Directory.

10. Click **Restart**.

    After the system restarts, Tenable One OT Exposure EM activates the Active Directory settings. Any user assigned to the designated group can access the Tenable One OT Exposure EM platform using their organizational credentials.

LDAP

You can integrate Tenable One OT Exposure with your organization's LDAP. This enables users to log in to Tenable One OT Exposure EM using their LDAP credentials. The configuration involves setting up the integration and then mapping groups in your Active Directory to User Groups in Tenable One OT Exposure EM.

To configure LDAP:

1. Go to **Settings**> **User Management** > **Authentication Servers**.
2. Click **Add Server**.

   The **Add Authentication Server** panel opens with the **Server Type**.
3. Select **LDAP**, then click **Next**.

   The **LDAP Configuration** pane appears.
4. In the **Name** box, type the username that you want to use for logging in.

   > **Note**:The login name must be unique and clearly denote its usage for LDAP. If you have both LDAP and Active Directory configured, the username serves as the sole identifier that distinguishes between the various server configurations on the login screen.
5. In the **Server** box, type the FQDN or the login address.

   > **Note**: If you use a secure connection, Tenable recommends using the FQDN instead of an IP address to ensure verification of the provided secure certificate.

   > **Note**: If you use hostname, it must appear in the list of DNS Servers in the Tenable One OT Exposure EM system. See System Configuration > Device.
6. In the **Port** box, type 389 to use a non-secure connection, or 636 to use a secure SSL connection.

> **Note**: If you select 636, you must provide a certificate to complete the integration.

7. In the **User DN** box, type the domain name with parameters in DN format. For example, for a server name of AD_1.qa.com, the user DN can be CN=Administrator,CN=Users,DC=qa,DC=com.
8. In the **Password** box, type the password of the **User DN**.

   > **Note**: The Tenable One OT Exposure EM configuration with LDAP only continues to work as long as the User DN password is valid. Therefore, when the User DN password changes or ages out, you must update the Tenable One OT Exposure EM configuration.

9. In the **User Base DN** box, type the base domain name in DN format. For example, DC=qa,DC=com.
10. In the **Group Base DN** box, type the Group base domain name in DN format.
11. In the **Domain append** box, type the default domain appended to the authentication request if the user did not apply a domain to which they belong.
12. In the relevant group name boxes, type the Tenable group names for the user to use with the LDAP configuration.
13. If using Port 636 for the configuration, under **Trusted CA**, click **Browse**, and navigate to a valid PEM certificate file.
14. Click **Save**.

    Tenable One OT Exposure EM starts the Server in the **Disabled** mode.
15. To apply the configuration, click the enable toggle.

    The **System Restart** dialog appears.
16. Click **Restart Now** to restart and apply the configuration immediately, or **Restart Later** to continue using temporarily the system without the new configuration.

> **Note**: Enabling or disabling LDAP configuration is not complete until the system restarts. If you do not restart the system immediately, click **Restart** on the banner at the top of the page when you are ready to restart.

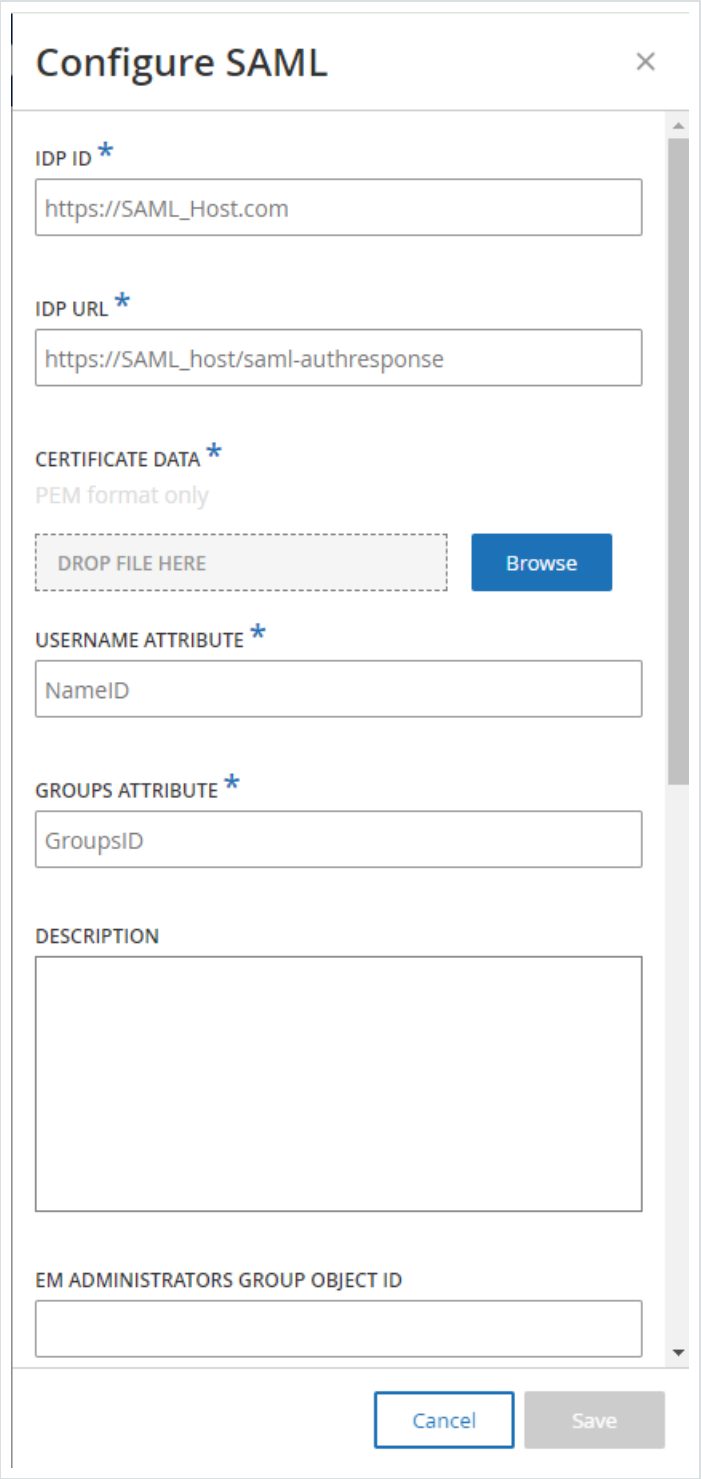
SAML

You can integrate Tenable One OT Exposure EM with your organization's identity provider (for example, Microsoft Entra ID). This enables users to authenticate using their identity provider. The configuration involves setting up the integration by creating an Tenable One OT Exposure EM application within your identity provider, by entering information about your created Tenable One OT Exposure EM application, and uploading your identity provider's Certificate to the Tenable One OT Exposure **SAML** page. Then, map the groups from your identity provider to User Groups in Tenable One OT Exposure EM.

To configure SAML:

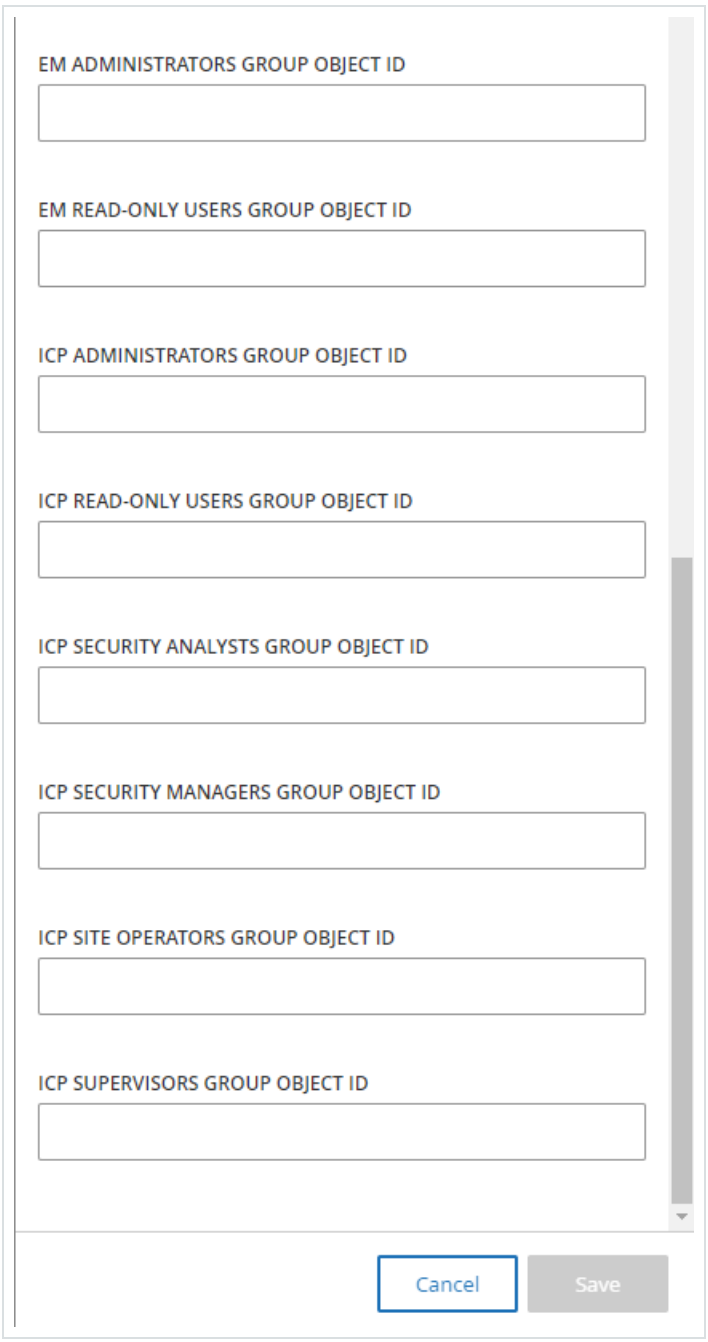
1. Go to **Settings** > **Users Management** > **SAML**.
2. Click **Configure**.

   The **Configure SAML** panel appears.



3. In the **IDP ID** box, type the Identity Provider's ID for the Tenable One OT Exposure EM application.

4. In the **IDP URL** box, type the Identity Provider's URL for the Tenable One OT Exposure EM application.
5. In **Certificate Data**, click **Drop File Here**, navigate to and open the Identity Provider's Certificate file you downloaded for use with the Tenable One OT Exposure EM application.
6. In the **Username Attribute** box, type the username attribute from the Identity Provider for the Tenable One OT Exposure EM application.
7. In the **Groups Attribute** box, type the groups attribute from the Identity Provider for the Tenable One OT Exposure EM application.
8. (Optional) In the **Description** box, type a description.
9. For each group mapping that you want to configure, access the Identity Provider's **Group Object ID** for a group of users and enter it into the required **Group Object ID** box to map it to the required Tenable One OT Exposure EM User Group.



10. Click **Save** to save and close the side panel.
11. On the **SAML** window, click the **SAML single sign-on login** toggle to enable single sign-on login.

    The **System Restart** notification window appears.

12. Click **Restart Now** to restart the system and apply the SAML configuration immediately, or click **Restart Later** to delay the application of the SAML configuration at the next system restart.

    If you choose to restart later, Tenable One OT Exposure EM shows following banner until the next restart:

    After the restart, the settings are activated to allow any user belonging to the designated groups access the Tenable One OT Exposure EM platform using their Identity Provider credentials.

Integrations

You can set up integrations for Tenable One OT Exposure EM with other Tenable products – Tenable Security Center and Tenable One Vulnerability Management. This enables Tenable One OT Exposure to send data to Tenable Security Center and Tenable One Vulnerability Management. The data from Tenable One OT Exposure EM includes Tenable One OT Exposure vulnerabilities as well as data discovered by IT-type Tenable Nessus scans initiated from Tenable One OT Exposure. By setting up the integrations on the Tenable One OT Exposure EM level, you provide a single source of data, and alleviate the need to configure separate integrations for each site.

> **Note**: To integrate the platforms, Tenable One OT Exposure must be able to reach Tenable Security Center and/or Tenable One Vulnerability Management via port 443. Tenable recommends that you create a specific user on Tenable Security Center and/or Tenable One Vulnerability Management to be used as the integration user to Tenable One OT Exposure.

Integrate with Tenable Security Center

You can integrate Tenable Security Center with Tenable One OT Exposure EM so that Tenable One OT Exposure EM sends information to the designated repositories.

Note: Tenable recommends that you create Tenable Security Center repositories with matching names to Tenable One OT Exposure Sites to optimize the mapping of Sites to repositories. The exact Tenable One OT Exposure Site names must be contained within the Tenable Security Center repository names. For example, for a site named “London”, a repository name of “OT_London” or “London – OT”. Sites without a matching repository send information to the default repository that you designate during the integration setup. For detailed instructions, click the button on the **Integrations** page.

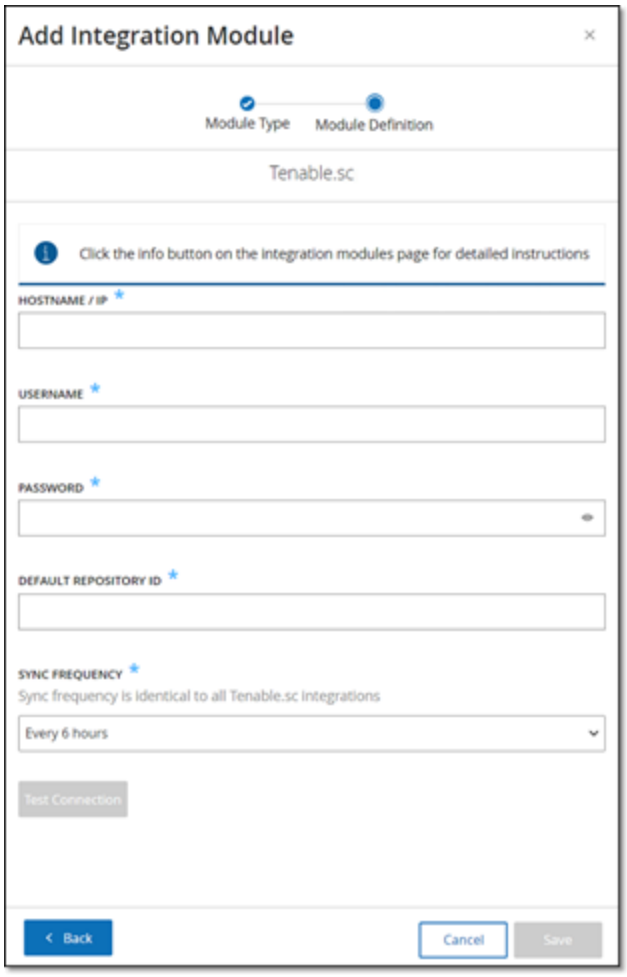
To integrate Tenable Security Center:

1. In the Tenable One OT Exposure interface, navigate to **Settings** > **Integrations**.
2. Click **Add Integration**.

   The **Add Integration** wizard opens with the **Module Type** page.

3. Click **Tenable Security Center**, then click **Next**.

   The **Module Definition** page appears.



4. In the **Hostname\IP** box, type a hostname or an IP address of the Tenable Security Center system.
5. In the **Username** box, type the username associated with the Tenable Security Center system.
6. In the **Password** box, type the password associated with the Tenable Security Center system.
7. In the **Default Repository ID** box, type the ID for the repository that can serve as the default destination for any synced information that does not have a designated repository (see the note).
8. In the **Sync Frequency** box, set the sync frequency for the integration.
9. To test the connection, click **Test Connection**.

10. Click **Save**.

> **Note**: Tenable recommends that you create a specific user on Tenable Security Center to integrate with Tenable One OT Exposure EM. The user must have the **Security** role.

Integrate with Tenable One Vulnerability Management

You can integrate Tenable One Vulnerability Management with Tenable One OT Exposure EM after generating an API key in the Tenable One Vulnerability Management console.

> **Note**: First generate an API key in the Tenable One Vulnerability Management console (**Settings** > **My Account** > **API Keys** > **Generate**). You are given an Access Key and a Secret Key which you provide in the Tenable One OT Exposure console when configuring the integration. For more information, see Generate API Keys in the Tenable One Vulnerability Management User Guide.

To integrate Tenable One Vulnerability Management:

1. In the Tenable One OT Exposure interface, navigate to **Settings** > **Integrations**.
2. Click **Add Integration**.

   The **Add Integration** wizard opens with the **Module Type** page.

3. Click **Tenable One Vulnerability Management**, then click **Next**.

   The **Module Definition** page of the **Add Integration Module** wizard opens.

4. In the **Access Key** box, type the access key for the API.
5. In the **Secret Key** box, type the secret key for the API.
6. In the **Sync Frequency** box, set the sync frequency for the integration.
7. To test the connection, click **Test Connection**.
8. Click **Save**.

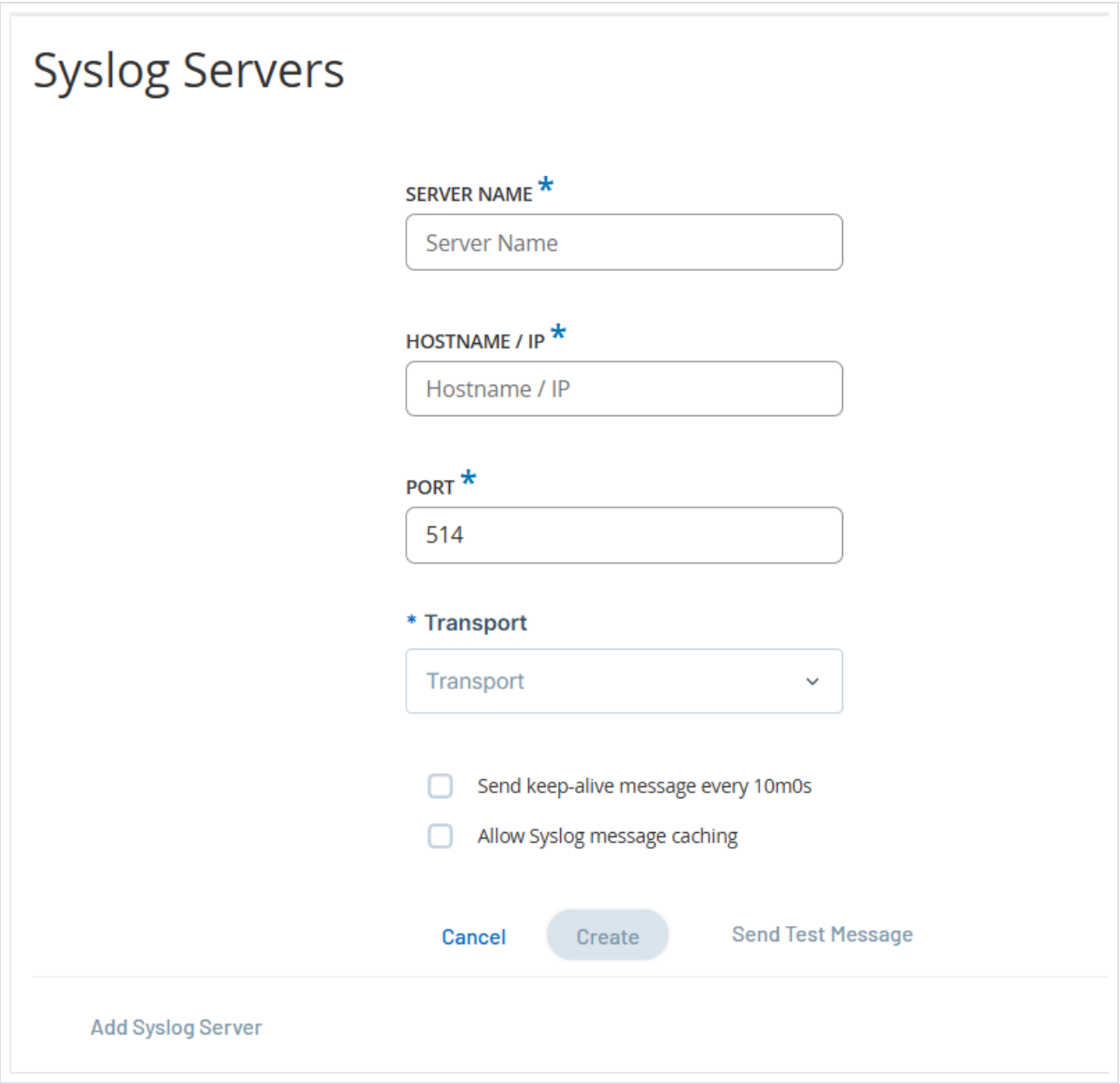
Syslog Servers

To collect log events on an external server, you need to set up a Syslog server. If you do not want to set up a Syslog server, the event logs can only be saved on the Tenable One OT Exposure EM platform.

To set up a Syslog server:

1. Go to **Settings** > **Servers** > **Syslog Servers**.
2. Click **+ Add Syslog Server**.

   The **Syslog Servers** configuration window appears.



3. In the **Server Name** box, type the name of a Syslog server for logging system events.
4. In the **Hostname/IP** box, type a hostname or an IP address of the Syslog server.
5. In the **Port** box, type the port number on the Syslog server that receives the events. (Default: 514)

6. In the **Transport** drop-down box, select the transport protocol you want to use. Options are **TCP** or **UDP**.
7. (Optional) Select the **Send keep alive message every 10m0s** option to check the connection at frequent intervals.
8. (Optional) For TCP syslog, select the **Allow syslog message caching** option to cache events when the connection is disrupted and to send them once the connection is restored.

   > **Note**: UDP syslog messages do not have any state awareness and may be lost if the connection is interrupted.

9. To send a test message to verify that the configuration is successful, click **Send Test Message**.

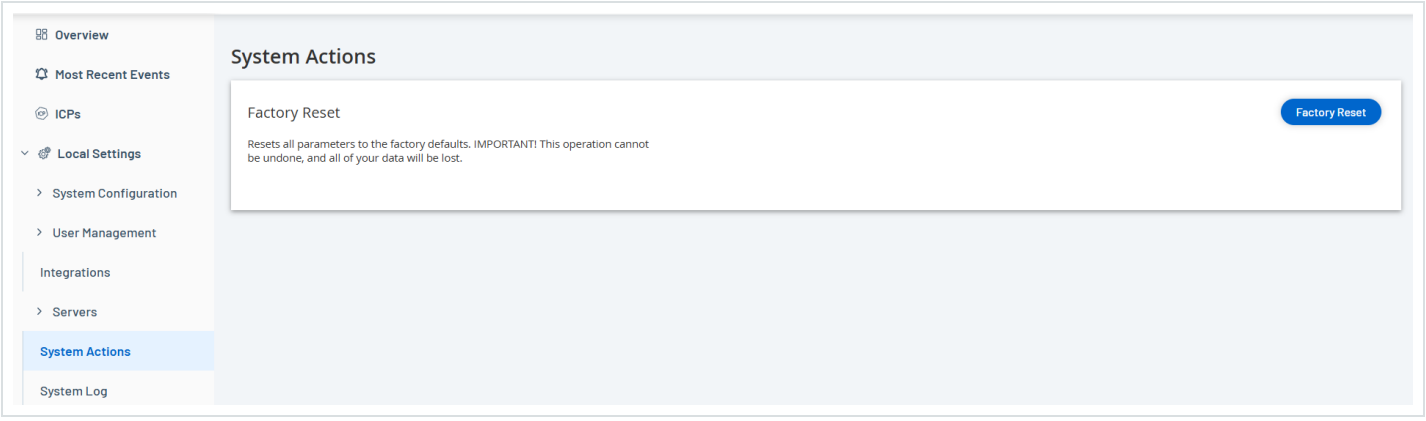
   Verify if the message arrived. If the message did not arrive, then troubleshoot to discover the cause of the problem and rectify it.

10. Click **Save**.

    You can set up additional Syslog servers by repeating this procedure.

System Actions

The **System Actions** page shows a list of system activities that you can perform.

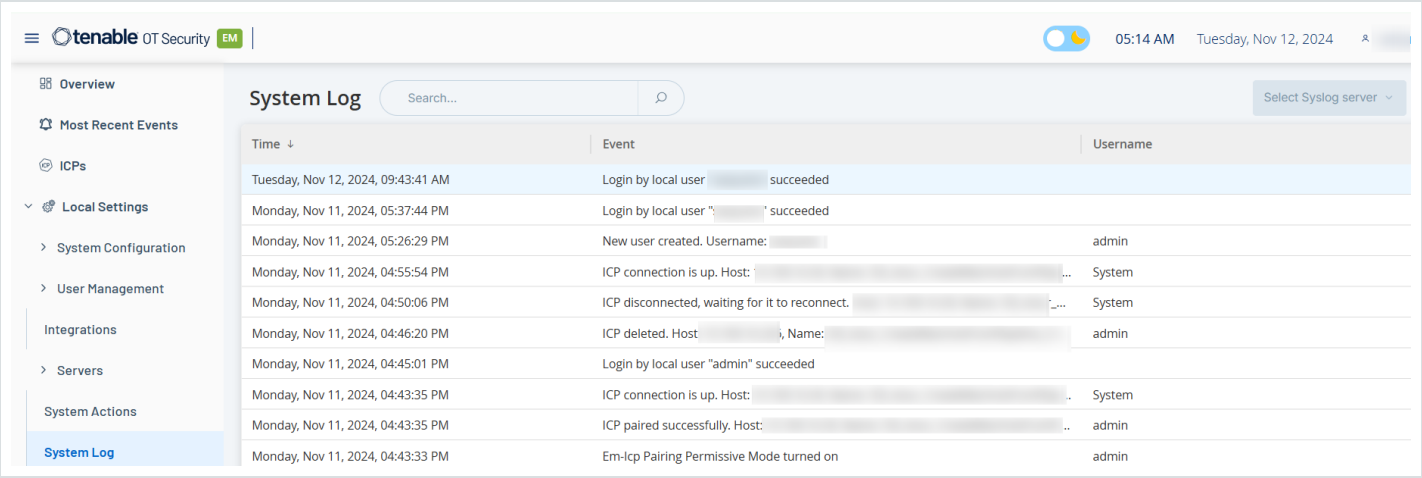


The **System Actions** page includes the following:

Parameter	Description
Factory Reset	Returns all settings to the factory default settings. **Warning**: You cannot undo this operation and you lose all data in the system.

System Log

The **System Log** page shows a list of all the system events that occurred in the system, such as Policy turned on, Policy edited, and Event Resolved. This log includes both user-initiated events as well as automatically occurring system events (for example, Policy turned off automatically because of too many hits). This log does **not** include policy-generated events (which are shown on the **Events** page). You can export the logs as a CSV file. You can also configure the system to send the **System Log** events to a Syslog server.



The following information is available for each logged event:

Parameter	Description
Time	The time and date when the event occurred.

Event	A brief description of the event.
Username	The name of the user that initiated the event. For events that occur automatically, there is no username.

Send System Log to a Syslog Server

To configure the system to send system events to a Syslog server:

1. Go to **Settings** > **System Log**.
2. In the header bar, click **Select syslog server**.

   A drop-down list of servers appears.

   > **Note**: To add a Syslog server, see Syslog Servers.

3. Select the desired server.

   Tenable One OT Exposure EM sends the system log events to the specified Syslog server.