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Welcome to Tenable Core + Tenable OT Security Sensor

You can use the Tenable Core operating system to run an instance of OT Security Sensor in your environment. After you deploy OT Security Sensor, you can monitor and manage your OT Security Sensor processes through the secure Tenable Core platform.

To get started quickly with OT Security Sensor, see Get Started.

Features

- Secure, stable platform that reduces the time to your first scan.
- Provides automatic application installation and updates via Tenable public repositories.
- Built on Oracle Linux 8.
- Targets Center for Internet Security (CIS) standards for Oracle Linux 8 with SELinux enabled. For more information, see Default Security Configuration Standards.
- Root access is enabled on all builds.

Other Tenable Core Configurations

To run a different Tenable application on Tenable Core, see:

- Tenable Core + Nessus
- Tenable Core + Nessus Network Monitor
- Tenable Core + Tenable OT Security
- Tenable Core + Tenable Security Center
- Tenable Core + Tenable Sensor Proxy
- Tenable Core + Tenable Web App Scanning

Note: Tenable does not recommend deploying multiple applications on a single instance of Tenable Core. If you want to deploy several applications on Tenable Core, deploy a unique instance for each application.

Tenable Core Operating System Version Support
To see which versions of the products are currently available on each operating system version of Tenable Core, see the Versions page.
Get Started

Tenable recommends the following sequence to deploy and get started with OT Security Sensor.

To get started with Tenable Core:

1. Confirm that your environment meets the requirements in [Tenable Core Requirements](#). If necessary, prepare to increase your disk space after you deploy.

2. **Deploy or install** OT Security Sensor.

   **Note:** You can also deploy Tenable Core using the command line interface (CLI). For more information, see [Deploy Tenable Core in Microsoft Azure via the CLI](#).

3. (Optional) If you want to increase your disk space to accommodate your organization’s data storage needs, see [Disk Management and the OT Security User Guide](#).

4. Log in as a wizard user and create an administrator account, as described in [Create an Initial Administrator User Account](#).

5. (Optional) If necessary, log in as a wizard user and create an administrator account, as described in [Create an Initial Administrator User Account](#).

   **Note:** Create an administrator account if you deployed OT Security Sensor via one of the following methods:
   - As a virtual machine
   - On hardware

   If you deployed OT Security Sensor in a cloud environment and you did not create a password during deployment, you must [create a password for your administrator account](#).

6. **Log In to Tenable Core** with your new administrator credentials.

7. In the left navigation bar, click **Tenable.ot**.

   The **Tenable.ot** page appears.

8. When prompted, click **Install OT Security** and allow up to an hour for installation.

9. (Optional) If you want to create more user accounts, see [Create New User Account](#).
10. (Optional) If you want to configure Tenable Core to use a proxy server, see [Configure a Proxy Server](#).

11. Configure OT Security in the OT Security User Interface to meet the specifications you want for your application.

   For more information about configuring and operating OT Security Sensor, see the [Tenable OT Security User Guide](#).

12. Configure and manage Tenable Core. To access the application interface, see [Configure Tenable Core](#).

### Tenable Core Requirements

**Caution:** CentOS 7 will be end-of-support (EOS) as of June 30, 2024. As such, Tenable will also be ceasing support for all CentOS 7-based Tenable Core images & packages. Moving forward, Tenable urges customers to use our Oracle Linux 8-based Tenable Core images & packages to ensure that you are leveraging supported solutions.

You can deploy OT Security Sensor on any system that meets the following Tenable Core and OT Security Sensor environment requirements.

**Note:** Tenable does not recommend deploying multiple applications on a single instance of Tenable Core. If you want to deploy several applications on Tenable Core, deploy a unique instance for each application.

**System and License Requirements**

**Access Requirements**

**Default Security Configuration Standards**

Disk space requirements are also displayed on the [ISO download page](#):
System and License Requirements

To install and run Tenable Core + Tenable OT Security or Tenable OT Security Sensor, your application and system must meet the following requirements.

**Note:** Tenable Support does not assist with issues related to your host operating system, even if you encounter them during installation or deployment.

**Environment** | **Tenable Core File Format** | **More Information**
--- | --- | ---
Virtual Machine | VMware | .ova file | [Deploy Tenable Core in VMware](#)
Hardware | | .iso image | [Install Tenable Core on Hardware](#)
Tenable-provided hardware | | | 

**Note:** While you could use the packages to run Tenable Core in other environments, Tenable does not provide documentation for those procedures.
Tenable does not recommend deploying multiple applications on a single instance of Tenable Core. If you want to deploy several applications on Tenable Core, deploy a unique instance for each application.

Tenable Core + Tenable OT Security ships with the latest version of OT Security included.

For more information about requirements specifically for OT Security, see OT Security in the General Requirements Guide.

OT Security System Requirements

You can install OT Security on a hypervisor\(^1\) or directly on user-supplied hardware running Tenable Core.

\(\text{Note: Tenable strongly discourages running Tenable Core + OT Security in an environment shared with other Tenable applications. (For example, installing two products on the same virtual machine, or in the same Tenable Core system.)}\)

Storage Requirements

Tenable recommends installing OT Security on direct-attached storage (DAS) devices, preferably solid-state drives (SSD), for best performance. Tenable strongly encourages the use of solid-state storage (SSS) that have a high drive-writes-per-day (DWPD) rating to ensure longevity.

Tenable does not support installing OT Security on network-attached storage (NAS) devices. Storage area networks (SAN) with a storage latency of 10 milliseconds or less, or Tenable hardware appliances, are a good alternative in such cases.

Disk Space Requirements

Enterprise networks can vary in performance, capacity, protocols, and overall activity. Resource requirements to consider for deployments include raw network speed, the size of the network to monitor, and the configuration of the application. Processors, memory, and network card selection are heavily based on these deployment configurations. Disk space requirements vary depending on usage based on the amount of data, and length of time, you store data on the system.

\(\text{1Hypervisor must be officially supported by VMWare and known to work under Hyper-V, KVM.}\)
**ICP System Requirement Guidelines (Virtual or Tenable Core)**

<table>
<thead>
<tr>
<th>Site Size</th>
<th>Maximum SPAN/TAP Throughput (Mbps)</th>
<th>CPU Cores¹</th>
<th>Memory (DDR4)</th>
<th>Storage Requirements</th>
<th>Network Interfaces</th>
</tr>
</thead>
<tbody>
<tr>
<td>Small</td>
<td>150 Mbps or less</td>
<td>4 x 2 GHz</td>
<td>12 GB RAM</td>
<td>128 GB</td>
<td>Minimum 4 x 1 Gbps</td>
</tr>
<tr>
<td>Medium</td>
<td>150-300 Mbps</td>
<td>8 x 2 GHz</td>
<td>16 GB RAM</td>
<td>512 GB</td>
<td>Minimum 4 x 1 Gbps</td>
</tr>
<tr>
<td>Large</td>
<td>300-600 Mbps</td>
<td>16 x 2 GHz</td>
<td>32 GB RAM</td>
<td>1 TB</td>
<td>Minimum 4 x 1 Gbps</td>
</tr>
<tr>
<td>XL</td>
<td>600 Mbps to 1 GB</td>
<td>32 x 3 GHz</td>
<td>64 GB RAM or more</td>
<td>2 TB or more</td>
<td>Minimum 4 x 1 Gbps</td>
</tr>
</tbody>
</table>

**Disk Partition Requirements**

OT Security uses the following mounted partitions:

<table>
<thead>
<tr>
<th>Partition</th>
<th>Content</th>
</tr>
</thead>
<tbody>
<tr>
<td>/</td>
<td>operating system</td>
</tr>
<tr>
<td>/opt</td>
<td>application and database files</td>
</tr>
<tr>
<td>/var/pcap</td>
<td>packet captures (full packet capture, event, query)</td>
</tr>
</tbody>
</table>

The standard install process places these partitions on the same disk. Tenable recommends moving these to partitions on separate disks to increase throughput. OT Security is a disk-intensive

¹Multiply rate (Mbits/sec) * 2.7 to get storage (GB/day) - based on a compression factor of 0.25.
application and using disks with high read/write speeds, such as SSDs, results in the best performance. Tenable recommends using an SSD with high DWPD ratings on customer-supplied hardware installations when using the packet capture feature in OT Security.

**Tip:** Deploying OT Security on a hardware platform configured with a redundant array of independent disks (RAID 0) can dramatically boost performance.

**Tip:** Tenable does not require RAID disks for even our largest customers. However, in one instance, response times for queries with a faster RAID disk for a customer with more than one million managed vulnerabilities moved from a few seconds to less than a second.

## Network Interface Requirements

You must have four network interfaces present on your device before installing OT Security. Tenable recommends the use of gigabit interfaces. The VMWare OVA creates these interfaces automatically. Create these interfaces manually when you are installing the ISO on your own hardware.

**Note:** Tenable does not provide SR-IOV support for the use of 10 G network cards and does not guarantee 10 G speeds with the use of 10 G network cards.

## NIC Requirements

**nic0** (192.168.1.5) and **nic3** (192.168.3.3) have static IP addresses when you install Tenable Core + Tenable OT Security in a hardware, or virtual, environment. Other network interface controllers (NICs) use DHCP.

**nic3** (192.168.3.3) has a static IP address when you deploy Tenable Core + Tenable OT Security on VMware. Other NICs use DHCP. Confirm that the Tenable Core **nic1** MAC address matches the NIC MAC address in your VMware passive scanning configuration. Modify your VMware configuration to match your Tenable Core MAC address if necessary.

For more information, see [Manually Configure a Static IP Address](#), [Manage System Networking](#), and the *VMware Documentation*.

1 CPU Cores reference PHYSICAL cores, assumes server-class CPU (Xeon, Opteron).

## Access Requirements
Your OT Security Sensor deployment must meet the following requirements.

- Internet Requirements
- Port Requirements

## Internet Requirements

You must have internet access to download Tenable Core files and perform online installs.

After you transfer a file to your machine, internet access requirements to deploy or update Tenable Core vary depending on your environment.

**Note:** You need to be able to reach appliance.cloud.tenable.com to install from the online ISOs (and to get online updates) and sensor.cloud.tenable.com to pick up scan jobs.

<table>
<thead>
<tr>
<th>Environment</th>
<th>Tenable Core Format</th>
<th>Internet Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Virtual Machine</td>
<td>VMware .ova file</td>
<td>You do not need internet access to deploy or update Tenable Core.</td>
</tr>
<tr>
<td></td>
<td>Microsoft Hyper-V .zip file</td>
<td></td>
</tr>
<tr>
<td>Cloud</td>
<td>Amazon Web Services (AWS) n/a</td>
<td>Requires internet access to deploy or update Tenable Core.</td>
</tr>
<tr>
<td>Cloud</td>
<td>Microsoft Azure n/a</td>
<td>Requires internet access to install or update Tenable Core.</td>
</tr>
<tr>
<td>Hardware</td>
<td>.iso image</td>
<td></td>
</tr>
</tbody>
</table>

**Tip:** You do not need access to the internet when you install updates to OT Security Sensor via an offline .iso file. For more information, see [Update Tenable Core Offline](#).

## Port Requirements

Your Tenable Core deployment requires access to specific ports for inbound and outbound traffic. OT Security also requires application-specific port access. For more information, see the [OT Security Documentation](#).
Inbound Traffic

Allow inbound traffic to the following ports listed.

**Note**: Inbound traffic refers to traffic from users configuring Tenable Core, etc.

<table>
<thead>
<tr>
<th>Port</th>
<th>Traffic</th>
</tr>
</thead>
<tbody>
<tr>
<td>TCP 22</td>
<td>Inbound SSH connections.</td>
</tr>
<tr>
<td>TCP 8000</td>
<td>Inbound HTTPS communications to the Tenable Core interface.</td>
</tr>
<tr>
<td>TCP 8090</td>
<td>Inbound HTTPS communications for restoring backups.</td>
</tr>
<tr>
<td></td>
<td>Inbound communications with the file upload server.</td>
</tr>
</tbody>
</table>

Outbound Traffic

Allow outbound traffic to the following ports listed.

<table>
<thead>
<tr>
<th>Port</th>
<th>Traffic</th>
</tr>
</thead>
<tbody>
<tr>
<td>TCP 22</td>
<td>Outbound SSH connections, including remote storage connections.</td>
</tr>
<tr>
<td>TCP 443</td>
<td>Outbound communications to the appliance.cloud.tenable.com and sensor.cloud.tenable.com servers for system updates.</td>
</tr>
<tr>
<td>UDP 53</td>
<td>Outbound DNS communications for OT Security and Tenable Core.</td>
</tr>
</tbody>
</table>

Default Security Configuration Standards

By default, Tenable Core applies security configurations based on the following Center for Internet Security (CIS) standards. For more information about CIS standards, see [cisecurity.org](http://cisecurity.org).

**Note**: SELinux: is enabled by default on the Tenable Core operating system.

CIS Standards

**CIS Benchmarks**: Tenable has implemented the following parts of the CIS Level 1 Benchmark on the Tenable Core:
CIS Level 1 - 1.x

- CIS 1.1.1.* (Disable mounting of miscellaneous filesystems)
- CIS 1.1.21 (Ensure sticky bit is set on all world-writable directories)
- CIS 1.4.* (Bootloader adjustments)
  - CIS 1.4.1 Ensure permissions on bootloader config are configured
- CIS 1.7.1.* (Messaging/banners)
  - Ensure message of the day is configured properly
  - Ensure local login warning banner is configured properly
  - Ensure remote login warning banner is configured properly
  - Ensure GDM login banner is configured - banner message enabled
  - Ensure GDM login banner is configured - banner message text

CIS Level 1 - 2.x

- CIS 2.2.* (disabled packages)
  - x11
  - avahi-server
  - CUPS
  - nfs
  - Rpc

CIS level 1 - 3.x

- CIS 3.1.* (packet redirects)
  - 3.1.2 Ensure packet redirect sending is disabled - 'net.ipv4.conf.all.send_redirects = 0'
  - 3.1.2 Ensure packet redirect sending is disabled - 'net.ipv4.conf.default.send_redirects = 0'
• CIS 3.2.* (ipv4, icmp, etc)
  • 3.2.1 Ensure source routed packets are not accepted - 'net.ipv4.conf.all.accept_source_route = 0'
  • 3.2.1 Ensure source routed packets are not accepted - 'net.ipv4.conf.default.accept_source_route = 0'
  • 3.2.2 Ensure ICMP redirects are not accepted - 'net.ipv4.conf.all.accept_redirects = 0'
  • 3.2.2 Ensure ICMP redirects are not accepted - 'net.ipv4.conf.default.accept_redirects = 0'
  • 3.2.3 Ensure secure ICMP redirects are not accepted - 'net.ipv4.conf.all.secure_redirects = 0'
  • 3.2.3 Ensure secure ICMP redirects are not accepted - 'net.ipv4.conf.default.secure_redirects = 0'
  • 3.2.4 Ensure suspicious packets are logged - 'net.ipv4.conf.all.log_martians = 1'
  • 3.2.4 Ensure suspicious packets are logged - 'net.ipv4.conf.default.log_martians = 1'
  • 3.2.5 Ensure broadcast ICMP requests are ignored
  • 3.2.6 Ensure bogus ICMP responses are ignored
  • 3.2.7 Ensure Reverse Path Filtering is enabled - 'net.ipv4.conf.all.rp_filter = 1'
  • 3.2.7 Ensure Reverse Path Filtering is enabled - 'net.ipv4.conf.default.rp_filter = 1'
  • 3.2.8 Ensure TCP SYN Cookies is enabled

• CIS 3.3.* (IPv6)
  • 3.3.1 Ensure IPv6 router advertisements are not accepted
  • 3.3.2 Ensure IPv6 redirects are not accepted

• CIS 3.5.* (network protocols)
  • 3.5.1 Ensure DCCP is disabled
  • 3.5.2 Ensure SCTP is disabled
• 3.5.3 Ensure RDS is disabled
• 3.5.4 Ensure TIPC is disabled

CIS Level 1 - 4.x

• CIS 4.2.* (rsyslog)
  • 4.2.1.3 Ensure rsyslog default file permissions configured
  • 4.2.4 Ensure permissions on all logfiles are configured

CIS Level 1 - 5.x

• CIS 5.1.* (cron permissions)
  • 5.1.2 Ensure permissions on /etc/crontab are configured
  • 5.1.3 Ensure permissions on /etc/cron.hourly are configured
  • 5.1.4 Ensure permissions on /etc/cron.daily are configured
  • 5.1.5 Ensure permissions on /etc/cron.weekly are configured
  • 5.1.6 Ensure permissions on /etc/cron.monthly are configured
  • 5.1.7 Ensure permissions on /etc/cron.d are configured
  • 5.1.8 Ensure at/cron is restricted to authorized users - at.allow
  • 5.1.8 Ensure at/cron is restricted to authorized users - at.deny
  • 5.1.8 Ensure at/cron is restricted to authorized users - cron.allow

• CIS 5.3.* (password/pam)
  • 5.3.1 Ensure password creation requirements are configured - dcredit
  • 5.3.1 Ensure password creation requirements are configured - lcredit
  • 5.3.1 Ensure password creation requirements are configured - minlen
  • 5.3.1 Ensure password creation requirements are configured - ocredit
  • 5.3.1 Ensure password creation requirements are configured - ucredit
• 5.3.2 Lockout for failed password attempts - password-auth 'auth [default=die] pam_faillock.so authfail audit deny=5 unlock_time=900'

• 5.3.2 Lockout for failed password attempts - password-auth 'auth [success=1 default=bad] pam_unix.so'

• 5.3.2 Lockout for failed password attempts - password-auth 'auth required pam_faillock.so preauth audit silent deny=5 unlock_time=900'

• 5.3.2 Lockout for failed password attempts - password-auth 'auth sufficient pam_faillock.so authsuff audit deny=5 unlock_time=900'

• 5.3.2 Lockout for failed password attempts - system-auth 'auth [default=die] pam_faillock.so authfail audit deny=5 unlock_time=900'

• 5.3.2 Lockout for failed password attempts - system-auth 'auth [success=1 default=bad] pam_unix.so'

• 5.3.2 Lockout for failed password attempts - system-auth 'auth required pam_faillock.so preauth audit silent deny=5 unlock_time=900'

• 5.3.2 Lockout for failed password attempts - system-auth 'auth sufficient pam_faillock.so authsuff audit deny=5 unlock_time=900'

• 5.3.3 Ensure password reuse is limited - password-auth

• 5.3.3 Ensure password reuse is limited - system-auth

• CIS 5.4.* (user prefs)
  • 5.4.1.2 Ensure minimum days between password changes is 7 or more
  • 5.4.1.4 Ensure inactive password lock is 30 days or less
  • 5.4.4 Ensure default user umask is 027 or more restrictive - /etc/bashrc

• CIS 5.6.* (wheel group)
  • 5.6 Ensure access to the su command is restricted - pam_wheel.so
  • 5.6 Ensure access to the su command is restricted - wheel group contains root

CIS Level 1 - 6.x
- CIS 6.1.* (misc conf permissions)
  - 6.1.6 Ensure permissions on /etc/passwd- are configured
  - 6.1.8 Ensure permissions on /etc/group- are configured

**Deploy or Install Tenable Core**

You can run OT Security Sensor in the following environments.

**Note:** Tenable Support does not assist with issues related to your host operating system, even if you encounter them during installation or deployment.

<table>
<thead>
<tr>
<th>Environment</th>
<th>Tenable Core File Format</th>
<th>More Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Virtual Machine</td>
<td>VMware</td>
<td>.ova file</td>
</tr>
<tr>
<td>Hardware</td>
<td>.iso image</td>
<td></td>
</tr>
<tr>
<td>Tenable-provided hardware</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Note:** While you could use the packages to run Tenable Core in other environments, Tenable does not provide documentation for those procedures.

**Deploy Tenable Core in VMware**

To deploy OT Security Sensor as a VMware virtual machine, you must download the OT Security Sensor .ova file and deploy it on a hypervisor.

**Before you begin:**

- Confirm your environment will support your intended use of the instance, as described in [System and License Requirements](#).
- Confirm your internet and port access will support your intended use of the instance, as described in [Access Requirements](#).
• For more information on configuring VMware, refer to Configure vSphere Scanning in the Tenable Nessus user guide.

To deploy OT Security Sensor as a VMware virtual machine:

1. Download the Tenable Core + OT Security .ova file.
2. Open your VMware virtual machine in the hypervisor.
3. Import the OT Security Sensor VMware .ova file from your computer to your virtual machine. For information about how to import a .ova file to your virtual machine, see the VMware documentation.
4. In the setup prompt, configure the virtual machine to meet your organization's storage needs and requirements, and those described in System and License Requirements.
5. Launch your OT Security Sensor instance.

The virtual machine boot process appears in a terminal window.

**Note:** The boot process may take several minutes to complete.

What to do next:

• Continue getting started with OT Security Sensor, as described in Get Started.

Install Tenable Core on Hardware

You can install OT Security Sensor directly on Tenable-provided hardware using an .iso image. When you install Tenable Core via an .iso image on your computer, Tenable Core replaces your existing operating system with the Tenable Core operating system.

Before you begin:

• Confirm your environment will support your intended use of the instance, as described in System and License Requirements.
• Confirm your internet and port access will support your intended use of the instance, as described in Access Requirements.
• Confirm that Tenable Core + Tenable OT Security was not preinstalled on your hardware for any new instance of Tenable Core + Tenable OT Security. Not all new instances require manual installation.

To install OT Security Sensor on hardware:

1. Download the [Tenable Core Tenable.ot Sensor Installation ISO](#) file from the [Tenable Downloads](#) page.

2. Boot the .iso. For more information, see your environment documentation.

   **Caution:** Booting the .iso replaces your existing operating system with the Tenable Core operating system.

   **Tip:** To monitor the progress of the installation, select Install TenableCore using serial console from the boot menu. For more information about the OT Security serial console, see the OT Security User Guide.

   The installer installs OT Security Sensor on your hardware.

3. The installation begins if there are no configuration errors.

   The **Installation** menu appears if there are configuration errors (such as errors after setting up a Base Repository, for example):
The installation runs and the server restarts.

What to do next:

- Continue getting started with OT Security Sensor, as described in [Get Started](#).

**Edit the Network Configuration**

During installation, you may need to edit the network configuration settings. Perform this procedure to resolve errors [!] with your 4) **Installation source** and/or 5) **Software selection** settings.

**Caution:** Do not enter any other menus or modify any other settings.

To edit the network configuration:
1. From the **Installation** menu, press the **8** key.

2. Press the **Enter** key.

   The **Network Configuration** menu appears.

3. Press the **2** key.

4. Press the **Enter** key.

   The **Device Configuration** menu appears.

5. Review the 1) **IPv4 address** or "dhcp" for DHCP, 2) **IPv4 netmask**, 3) **IPv4 gateway**, and 6) **Nameservers** settings and, if necessary, edit them.

   For example, you must edit these settings if you are installing Tenable Core on a static network without DHCP.

6. Check **8) Apply configuration in installer**.

7. Press the **c** key until you return to the **Installation** menu.

8. Press the **r** key to refresh the menu.

9. Confirm that settings 1-7 show an **[x]**. If the settings all show an **[x]** proceed to step 11.

10. If **4) Installation source** still shows a **[I]**:

    **Refresh the repository URL:**

    a. Press the **4** key.

    b. Press the **Enter** key.

       The **Installation Source** menu appears.

    c. Press the **3** key.

    d. Press the **Enter** key.

       The **Installation Source** submenu appears.

    e. Press the **2** key.

    f. Press the **Enter** key.

       The **Specify Repo Options** menu appears.
g. Press the c key.

h. Press the Enter key.

The system refreshes the repository URL and the Installation menu appears.

11. Press the r key to refresh the menu.

12. Press the c key until you return to the Installation menu.

Edit the Proxy Configuration

During installation, you may need to edit the proxy configuration settings to identify the proxy you want to use for internet access.

Caution: Do not enter any other menus or modify any other settings.

Note: You need to be able to reach appliance.cloud.tenable.com to install from the online ISOs (and to get online updates). For more information, see Access Requirements.

To edit the proxy configuration:

1. From the Installation menu, press the 3 key.

2. Press the Enter key.

   The Proxy Configuration menu appears.

3. Type the proxy you want to use. For example, https://username:password@192.0.2.221:3128.

   Note: If your password includes a special character, the special character must be HTML URL encoded.

4. Press the Enter key.

5. If your proxy is a man-in-the-middle proxy that intercepts SSL traffic, a prompt appears.

   In the prompt:
   1. Type yes.
   2. Press the Enter key.
The system temporarily disables SSL verification. The system automatically re-enables SSL verification after the installation completes.

The Installation menu appears.

6. Press the 4 key.

7. Press the Enter key.

   The Installation Source menu appears.

8. Press the 3 key.

9. Press the Enter key.

   The Installation Source submenu appears.

10. Press the 2 key.

11. Press the Enter key.

   The Specify Repo Options menu appears.

12. Press the c key.

13. Press the r key, then the Enter key.

14. If necessary, continue pressing the r key, then the Enter key until 4) Installation source no longer says (Processing...).

   The system refreshes the repository URL.

Configure Tenable Core Multi-Factor Authentication

You can log into the Tenable Core user interface with multi-factor authentication (MFA). This topic explains how to configure MFA for Tenable Core and only applies to the user interface. Using MFA requires a Google Authenticator token.

**Note:** Multi-Factor Authentication is only supported on OL8 operating system deployments of Tenable Core.

To enable MFA for Tenable Core user interface login:
1. Install the Oracle EPEL repositories by running the following command:

   ```bash
   sudo dnf install oracle-epel-release-el8
   ```

   **Note:** It may require several minutes for the install to complete.

2. Disable Oracle EPEL repositories by default by running the following command:

   ```bash
   sudo dnf config-manager --disable 'ol8_developer_EPEL*'
   ```

3. Install the Google Authenticator client and dependencies by running the following command:

   ```bash
   sudo dnf install --enablerepo=ol8_developer_EPEL google-authenticator qrencode
   ```

4. For each user that needs to use MFA when logging in to the Tenable Core user interface, do one of the following:

   a. Run the following command as the user:

      ```bash
      google-authenticator -t -d -f -u -w 5
      ```

      **Note:** If using the Tenable Core user interface terminal, add -Q utf8 to the google-authenticator -t -d -f -u -w 5 command.

      **Note:** Running this command for the same user more than once invalidates previous codes.

      i. In your authenticator app, scan the QR code.

      ii. Enter the confirmation code from the app.

      iii. (Optional, but recommended) Save the emergency scratch codes.

   b. Alternatively, for full control over the MFA token creation options, run the following
command:

```
google-authenticator
```

5. Run the following command:

```
sudoedit /etc/pam.d/cockpit
```

6. Under the `auth substack password-auth` line add:

```
auth required pam_google_authenticator.so
```

7. Confirm that the first six lines of the `/etc/pam.d/cockpit` file look like this:

```
#%PAM-1.0
auth required pam_sepermit.so
auth substack password-auth
auth required pam_google_authenticator.so
auth include postlogin
auth optional pam_ssh_add.so
.......
```

8. Log into the Tenable Core user interface.

**Disk Management**

You can use the Tenable Core interface to manage some aspects of your Tenable Core machine disk space. Tenable Core uses Linux logical volume management (LVM) for disk management.

Disk management via the Tenable Core interface assumes you understand basic LVM terminology:

- **Volume group** – A group of one or more physical volumes.
- **Physical volume** – A hard disk, hard disk partition, or RAID unit.
• Logical volume – A block of space on the volume group sized to mirror several or all of your physical volumes.

• File system – The file system on the logical volume.

• Mount point – The location where you mounted the file system in your operating system.

For more information about these concepts, see the general documentation for Linux.

**Tenable Core Partitions**

Tenable Core deploys with the following preconfigured partitions:

- /boot
- Swap
- /
- /var/log
- /var/pcap
- /opt

To add more storage space to Tenable Core (typically, in /opt), add a disk or expand a disk as described in [Add or Expand Disk Space](#).

**Add or Expand Disk Space**

If you need more space in Tenable Core to meet the [requirements](#), add space to your machine by expanding an existing disk or adding a new disk. For general information about Tenable Core disk management, see [Disk Management](#).

**Caution:** You cannot reassign disk space after you have assigned the space to a file system.

To add or expand existing disk space on your Tenable Core machine:

1. Power down your machine, as instructed by your local administrator or the documentation for your local environment.
2. Add a new disk or expand an existing disk in your machine configuration, as instructed by your local administrator or the documentation for your local environment.

3. Power up your machine, as instructed by your local administrator or the documentation for your local environment.

4. Log in to Tenable Core.
   
   The System page appears.

5. In the left navigation bar, click Storage.
   
   The Storage page appears.

6. In the Storage section, locate the filesystem with `/opt` as the mount point and note the containing volume group (typically vg0).

   ![Storage Table]

   **Tip:** Typically, you want to add space to `/opt`. To add more storage space to a less common partition (for example, `/` or `/var/log`), locate the file system for that partition.

7. Click the row for the volume group that includes your preferred partition as the mount point.

   The LVM2 Volume Group page appears:
8. Click the **Add Physical Volume** button.

9. Click the checkbox for the space you added.

10. Click **Add**.

    The **Volume Group** page appears, updated to show the added space in the **Physical Volumes** section.
11. In the LVM2 Logical Volumes section, click the context button for the file system Name that includes your preferred partition as the Mount Point.

12. Click Grow.

The Grow Logical Volume window appears.

13. Use the slider to increase the size of the file system to your desired size (typically, to the new maximum).

14. Click Grow.

The system expands the logical volume and the file system.

The Volume Group page appears, refreshed to reflect the new size.

Manually Configure a Static IP Address

If you deploy Tenable Core in an environment where DHCP is configured, Tenable Core automatically receives network configurations (including your IP address). If DHCP is not configured, you must manually configure a static IP address in Tenable Core.
For more information about the default NIC configuration in your environment, see System and License Requirements.

Before you begin:

- Deploy or install OT Security Sensor, as described in Deploy or Install Tenable Core.
- Contact your network administrator and obtain your network's netmask and the IP address for your OT Security Sensor deployment.

To configure a static IP address manually:

1. In the command-line interface (CLI) in Tenable Core, type the following to log in as a wizard user:

   ```
   tenable-y3u1xwh1 login: wizard
   Password: admin
   ```

   A prompt appears asking if you want to configure a static IP address.

2. Press the y key.

   (Optional) If the prompt does not appear, in the command-line interface (CLI) in Tenable Core, run the following command to access the configuration user interface:

   ```
   nmtui edit
   ```

   The list of connections page appears.

3. Select the connection you want to configure.

4. Press Tab to select <Edit>.

5. Press Enter.

   The Edit Connection window appears.

6. In the IPv4 Configuration row, press Tab to select <Automatic>.

7. Press Enter.

8. Select <Manual> from the drop-down box.

10. Press Tab to select <Show>.

11. Press Enter.
    More configuration fields appear.

    **Note:** Type the value for each configuration field as four numbers separated by a period. Refer to the examples for each field.

12. In the **Addresses** field, type the IPv4 IP address for your OT Security Sensor deployment, followed by a forward slash and your netmask.
    Example:
    
    **192.0.2.57/24**

13. In the **Gateway** field, type your gateway IP address.
    Example:
    
    **192.0.2.177**

14. In the **DNS servers** field, type your DNS server IP address.
    Example:
    
    **192.0.2.176**

15. Press Tab to select <Add...>.

    **Note:** Complete steps 12-15 only if you have more DNS server IP addresses to add. Repeat for each IP address.

16. Press Enter.
    An empty box appears in the **DNS servers** row.

17. In the new row, type your second DNS server IP address.
    Example:
192.0.2.8

18. Select the check the box in the **Require IPv4 addressing for this connection** row.

19. Press **Tab** to select **<OK>**.

   The list of connections appears.

20. Press **Tab** to select **<Quit>**.

21. Press **Enter**.

   If you log in with a wizard, a prompt appears asking if you want to create an administrator account.

   To create an administrator account, see **Create a First-Time User Account**.

   You are logged out of the wizard account.

22. Log into the CLI using the administrator account.

23. Restart the connection. In the command-line interface (CLI) in Tenable Core, run the following command:

   ```bash
   $ nmcli connection down "nic0" && nmcli connection up "nic0"
   ```

   **Note**: Restarting the connection enables the system to recognize your static IP address. You can reboot the system instead to trigger the response.

What to do next:

- Confirm that the Tenable Core **nic1** MAC address matches the NIC MAC address in your VMware passive scanning configuration. If necessary, modify your VMware configuration to match your Tenable Core MAC address. For more information, see [System and License Requirements](#).

**Create an Initial Administrator User Account**

The first time you access OT Security Sensor, you log in as a wizard user.

Then, you create an initial administrator account.
Tip: If you delay creating an initial administrator account, after a few minutes, the system locks you out of the wizard user account. Reboot Tenable Core to proceed with the initial administrator account creation.

Before you begin:

- Deploy or install OT Security Sensor, as described in Deploy or Install Tenable Core.

To create an initial administrator user account:

1. Navigate to the URL for your Tenable Core virtual machine.
   The login page appears.
2. In the User name field, type wizard.
3. In the Password field, type admin.
4. Click Log In.
   The Create New Administrator window appears.
5. In the Username field, type the username you want to use for your administrator account.
6. In the Password field, type a new password for your administrator account.
   
   Note: Your password must meet the following minimum requirements:
   - Minimum 14 characters long
   - Cannot be a palindrome (i.e., a word or phrased spelled the same backward and forward)
7. Click Create Account.
   A confirmation window appears.
8. Click Finish Setup.
   Tenable Core creates your user account.
9. Click Log Out.
   Tenable Core logs you out.

What to do next:
• (Optional) If you want to log in again, see [Log In to Tenable Core](#).

• (Optional) If you want to create another user account, see [Create New User Account](#).

**Note:** Log in again to create a new user account.

---

**Create a Password for the Initial Administrator User Account**

If you deployed in a [cloud environment](#) and did not create a password during deployment, you cannot access the Tenable Core interface. Create a password for your administrator account via SSH to access the Tenable Core interface.

You do not need to create a password via SSH when deploying in any of the other supported environments.

**Before you begin:**

• Confirm that you have an SSH client installed that can access your Tenable Core server.

**To create a password for the initial administrator user account:**

1. Open a connection to Tenable Core with your SSH client via one of the following methods:

   • If your SSH client uses a command-line interface (CLI), run the following command:

     ```bash
     ssh <your administrator username>@<your Tenable Core hostname or IP address>
     ```

   • If your SSH client uses a user interface, open the interface and follow the prompts to connect to Tenable Core via SSH.

     Tenable Core connects to your SSH client.

     **Note:** When prompted, provide your Tenable Core username via one of the following methods:

     • If you deployed in Amazon Web Service (AWS), type `ec2-user` as your username.

     • If you deployed in Microsoft Azure, type the username you configured during your deployment.

2. Run the `sudo passwd` command.
```bash
sudo passwd "$USER"
```

The SSH client prompts you to provide a password.

3. Type the password you want to use for your administrator account.

**Note:** Your password must meet the following minimum requirements:
- Minimum 14 characters long
- Cannot be a palindrome (i.e., a word or phrased spelled the same backward and forward)

4. Press **Enter**.

   Tenable Core assigns the password to your administrator account.

5. Run the `exit` command to log out of Tenable Core.

What to do next:
- Continue getting started with OT Security Sensor, as described in [Get Started](#).

**Log In to Tenable Core**

Log in to Tenable Core to configure and manage your OT Security Sensor instance in the Tenable Core interface.

**Before you begin:**
- Deploy OT Security Sensor, as described in [Deploy or Install Tenable Core](#).

**Note:** For information on inbound and outbound port requirements, see [Access Requirements](#).

**To log in to Tenable Core:**

1. Navigate to the URL for your Tenable Core virtual machine.
   
   The login page appears.

2. In the **User name** field, type your username.
3. In the **Password** field, type your password.

4. Click **Log in**.

   Tenable Core logs you in to the user interface.

**To access administrative or limited access modes:**

- You can access an administrative access mode by clicking the **Administrative access** button at the top of the page. In administrative access mode, you can switch back to a limited access mode by clicking the **Limited access** button in the same location.
Configure Tenable Core

You can use the Tenable Core user interface to configure OT Security Sensor.

Tenable Core + Tenable OT Security Sensor Information

Configure OT Security in the OT Security User Interface

Configure a Proxy Server

SNMP Agent Configuration

Configure an SNMP Agent via the User Interface

Configure an SNMP Agent via the CLI

View the Dashboard

Add a Server

Edit a Server

Delete a Server

Synchronize Accounts

View the System Log

Filter the System Log

Generate a Diagnostic Report

View OT Security Sensor Logs

Access the Terminal

Start, Stop, or Restart Your Application

Tenable Core + Tenable OT Security Sensor Information

The OT Security Sensor information page displays several information tiles related to your instance. This information allows you to monitor installation elements and view logs.

Installation Info

Parameters unique to your OT Security Sensor installation.
Note: Some items in this section may be hidden to users with insufficient permissions.

<table>
<thead>
<tr>
<th>Installation Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Service Status</td>
<td>The current status of your OT Security Sensor. Possible values are: running, stopping, stopped, starting, and failed.</td>
</tr>
<tr>
<td>Application Version</td>
<td>The version of OT Security Sensor currently running</td>
</tr>
<tr>
<td>RPM Version</td>
<td>The version of OT Security Sensor that is currently installed on the system.</td>
</tr>
<tr>
<td>Sensor Identifier</td>
<td>The identification string of the OT Security Sensor you are running.</td>
</tr>
<tr>
<td>ICP Identifier</td>
<td>The identification string of the ICP server on which your system is running.</td>
</tr>
<tr>
<td>ICP IP Address</td>
<td>The IP address of the ICP server on which your system is running.</td>
</tr>
</tbody>
</table>

Pairing Info

The pairing information pulled from OT Security appears in the parameters described in the following table.

<table>
<thead>
<tr>
<th>Status Type</th>
<th>Current Status</th>
<th>User Interface Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pairing Status</td>
<td>Possible values are: Pairing and Waiting for ICP approval</td>
<td><strong>Restart Pairing:</strong> You can click this button to use the previously saved credentials to start the pairing process again. Connects outside of the tunnel via HTTPS to reconfigure the tunnel to repair various broken connections. This is useful if your keys or certifications have changed.</td>
</tr>
<tr>
<td>Connection Status</td>
<td>Possible values are: Connected and Not Connected</td>
<td><strong>Pause Data Transfer:</strong> You can enable or disable passing collected OT traffic data to the ICP with this button.</td>
</tr>
</tbody>
</table>
OT Security ICP Certificate

The ICP certificate information for your OT Security Sensor instance.

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Certificate Subject</td>
<td>Human-readable certificate subject information.</td>
</tr>
<tr>
<td>Certificate Issuer</td>
<td>Human-readable certificate issuer information.</td>
</tr>
<tr>
<td>Certificate Fingerprint</td>
<td>Brief cryptographic hash that can be used to confirm the certification set on the ICP is the one being received by OT Security Sensor.</td>
</tr>
<tr>
<td>Not Valid Before</td>
<td>The beginning date for which the offered certificate is valid.</td>
</tr>
<tr>
<td>Not Valid After</td>
<td>The ending date for which the offered certificate is valid.</td>
</tr>
<tr>
<td>Approval Status</td>
<td>Possible values are: Approved, N/A, Pending user approval, and Mismatching certificates</td>
</tr>
<tr>
<td>Upload Approved Certificate</td>
<td>You can upload the ICP’s certificate (.pem format) and pre-approve it as an alternative to examining the certificate fingerprint after the ICP offers it. This is helpful when configuring a sensor before it has network connectivity to the ICP, or before the ICP has been provisioned. The ICP needs the custom certificate and key applied before allowing the sensor to attempt a connection.</td>
</tr>
</tbody>
</table>

View Logs

The OT Security Sensor information page contains a tile for OT Security Sensor logs. For more information, see View Logs.

Configure OT Security in the OT Security User Interface

After you deploy Tenable Core + Tenable OT Security, you can access the OT Security interface from the Tenable Core interface to configure OT Security.
To access the OT Security interface from the Tenable Core interface:

1. Log in to Tenable Core via the user interface, as described in Log In to Tenable Core.
   The Tenable Core web user interface page appears.

2. In the left navigation bar, click Tenable.ot.
   The Tenable.ot page appears.

3. If prompted, provide your OT Security instance password.
   For more information, contact your Tenable representative.

4. In the Installation Info section, next to URLs, click the URL hyperlink.
   The OT Security interface appears.

5. Configure OT Security, as described in the OT Security User Guide.

Configure a Proxy Server

If your organization configured a proxy server to conceal your IP address, share an internet connection on your local network, or control internet access on your network, set the proxy configuration in Tenable Core.

**Note:** This proxy configuration only applies to updates and Tenable Core + Tenable Web App Scanning connections. The proxy configuration for the application updates itself needs to be completed from the application user interface.

Before you begin:

- Log in to Tenable Core in a browser, as described in Log In to Tenable Core.

To configure a proxy server:

1. In the left navigation bar, click Update Management.
   The Updates page appears.

2. In the Proxy Host box, type the hostname and port for your proxy server in the format `hostname:port` (for example, https://192.0.2.1:2345).

3. (Optional) In the Proxy Username box, type a username for your proxy server.
4. (Optional) In the **Proxy Password** box, type a password for the proxy.

5. Click **Save Proxy**.

   The system initiates your proxy configuration.

**SNMP Agent Configuration**

If your organization uses a Simple Network Monitoring Protocol (SNMP) network management station (NMS) for device monitoring, you can install a `net-snmp` agent onto Tenable Core to report device data to your NMS.

You can use the user interface to configure common SNMPv2 or SNMPv3 settings. To configure other advanced or uncommon SNMP settings, use the CLI.

- [Configure an SNMP Agent via the User Interface](#)
- [Configure an SNMP Agent via the CLI](#)

To stop, start, restart, or reload the SNMP service in Tenable Core, or to view SNMP logs, see **Manage Services**.

**Configure an SNMP Agent via the User Interface**

**Required User Role:** Administrator with **Reuse my password for privileged tasks** enabled

If your organization uses a Simple Network Monitoring Protocol (SNMP) network management station (NMS) for device monitoring, you can install a `net-snmp` agent onto Tenable Core to report device data to your NMS.

You can use the user interface to configure common SNMPv2c or SNMPv3 settings. To configure other advanced or uncommon SNMP settings, use the CLI as described in **Configure an SNMP Agent via the CLI**.

To install and configure an SNMP agent on Tenable Core via the user interface:

1. Log in to Tenable Core via the user interface, as described in **Log In to Tenable Core**.
   
   The Tenable Core web user interface page appears.

2. In the left navigation bar, click **SNMP**.
If you already installed an SNMP agent on Tenable Core, the **SNMP** page appears. If you do not have an SNMP agent installed on Tenable Core, the **Install SNMP Packages** window appears.

3. (Optional) In the **Install SNMP Packages** window, click **Install SNMP** to install the SNMP service.

Tenable Core installs the SNMP service and opens inbound ports 161 and 162 on Tenable Core.

The **SNMP** page appears.

4. In the **SNMP common setup** section, configure the contact properties you want to appear on your NMS for this instance of Tenable Core.

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contact</td>
<td>A name, email address, or other identifier for the person you want to list as the contact for questions about this instance of Tenable Core.</td>
</tr>
<tr>
<td>Location</td>
<td>A geographic, organizational, or other location descriptor for the person you want to list as the contact for questions about this instance of Tenable Core.</td>
</tr>
</tbody>
</table>

5. If you want to grant an SNMPv2c NMS access to Tenable Core, in the **SNMPv2c access control setup** section, configure one or both of the settings:

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>read-only access community name</td>
<td>Specifies the read-only community string for the SNMPv2c NMS.</td>
</tr>
<tr>
<td>read-write access community name</td>
<td>Specifies the read-write community string for the SNMPv2c NMS.</td>
</tr>
</tbody>
</table>

6. If you want to grant an SNMPv3 NMS read-only access to Tenable Core, in the **SNMPv3 access control setup** section, configure the settings:

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
</table>
Read-only Hash algorithm | Specifies the read-only hash algorithm for the SNMPv3 NMS.
--- | ---
Read-only access username | Specifies the username and password for an account on the SNMPv3 NMS.
Read-only access user password

7. If you want to grant an SNMPv3 NMS read-write access to Tenable Core, in the **SNMPv3 access control setup** section, configure the settings:

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Read-write Hash algorithm</td>
<td>Specifies the read-write hash algorithm for the SNMPv3 NMS that you want to grant read-write access on Tenable Core.</td>
</tr>
<tr>
<td>Read-write access username</td>
<td>Specifies the username and password for an account on the SNMPv3 NMS.</td>
</tr>
<tr>
<td>Read-write access user password</td>
<td></td>
</tr>
</tbody>
</table>

8. Click **Save Configuration**.

Tenable Core saves your SNMP configuration.

**Configure an SNMP Agent via the CLI**

**Required User Role:** Root user

If your organization uses a Simple Network Monitoring Protocol (SNMP) network management station (NMS) for device monitoring, you can install a `net-snmp` agent onto Tenable Core to report device data to your NMS.

To install and configure an SNMP agent on Tenable Core via the CLI:
1. Prepare the `net-snmp` agent configuration file and add it to Tenable Core, as described in the *Net-SNMP Documentation*.

2. Log in to Tenable Core via the Terminal page or command line interface (CLI).
   
   The command line appears.

3. In the `/etc/snmp/` directory, open the `snmpd.local.conf` file.
   
   The file opens.

4. Locate the `IncludeFile` line in the file.

5. Comment out the `IncludeFile` line to instruct Tenable Core to ignore all current and future configurations on the SNMP page of the Tenable Core user interface.

   Tenable Core ignores SNMP configurations in the Tenable Core user interface.

   **Note**: IP tables may need to be updated to facilitate SNMP communication. Be sure to confirm that your OS configuration allows for this communication.

**View the Dashboard**

You can use the Dashboard page to view usage statistics and manage your attached servers.

**To view the Tenable Core dashboard:**

1. Log in to Tenable Core via the user interface, as described in Log In to Tenable Core.

   The Tenable Core web user interface page appears.

2. Hover over the left navigation bar and click Overview.

   The Overview page appears.

   You can:

<table>
<thead>
<tr>
<th>Section</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Data graphs</td>
<td>• View a graph of the CPU usage on your instance.</td>
</tr>
<tr>
<td></td>
<td>• View a graph of the Memory usage on your instance.</td>
</tr>
<tr>
<td></td>
<td>• View a graph of the Network bandwidth usage on your instance.</td>
</tr>
</tbody>
</table>
- View a graph of the **Disk I/O** bandwidth usage on your instance.
- To change the time range for data displayed in the graph:
  1. In the top-right corner of the graph, click the drop-down box.
  2. Select a time range.
     The system refreshes the graph.

| Servers table | • Add a server, as described in [Add a Server](#).
|               | • Edit a server, as described in [Edit a Server](#).
|               | • Delete a server, as described in [Delete a Server](#).
|               | • Synchronize user accounts, as described in [Synchronize Accounts](#).
|               | • To view detailed information about a server, click a server row. For more information, see [System](#).

### Add a Server

To add a server:

**Note**: You can add as many servers to the Dashboard as you want.

1. Hover over the far-left navigation bar.
   The left navigation plane appears.
2. Click **Dashboard**.
   The **Dashboard** page appears.
3. Click the 🔄 icon.
   The **Add Machine to Dashboard** window appears.
4. In the **Address** field, type the IP address or hostname for the server you want to add.
5. In the **Color** field, click the color you want to represent the server.
6. Click **Add**.
A confirmation window appears.

**Note:** If Tenable Core cannot establish authentication, the Unknown Host window appears. Contact your administrator to confirm your server’s name or IP address.

7. Click **Connect**.

A credentials window appears.

8. Type your credentials in the **User name** and **Password** fields.

**Note:** To synchronize your accounts so that your account information and passwords are the same across multiple servers, click the *synchronize accounts and passwords* link. Refer to [Synchronize Accounts](#) for more information.

9. Click **Log In**.

Tenable Core adds the server to your list of servers in the **Servers** table.

**Note:** If the server does not appear in the list right away, refresh the browser.

**Edit a Server**

To edit a server:

1. From the top bar in the **Servers** table, click the ✏️ icon.

A pencil icon (✏️) and a trashcan icon (🗑️) appear next to each server name.

2. Click the ✏️ icon.

The **Edit Server** window appears.

3. Do any of the following:

   - In the **Host Name** box, type the name you want for your server.
   
   - Update the server color:
     
     - In the **Color** box, click the color bar.
     
     A color menu appears.
• Click the color you want to represent the server.

The server color changes.

4. Click **Set**.

   Tenable Core updates your server information.

### Delete a Server

**To delete a server:**

1. From the top bar in the **Servers** table, click the check mark icon.

   A pencil icon and a trashcan icon appear next to each server name.

2. Click the trashcan icon.

   The server disappears from the server list.

### Synchronize Accounts

If you have multiple user accounts but do not want to manage credentials for each one, you can synchronize your accounts, which allows you to navigate seamlessly between accounts without providing a different username and password for each account.

**Note:** You can synchronize accounts while either adding or editing servers in the **Dashboard**.

**To synchronize accounts:**

1. While either adding or editing a server, click the **Synchronize users** link in the dialogue box.

   The **Synchronize USERS** dialogue box appears with a list of your accounts.

   **Note:** If you are adding a server, the linked text in the dialogue box is **synchronize accounts and passwords**.

2. Check the boxes next the accounts you want to synchronize.

3. Click **Synchronize**.

### View the System Log
You can use the **System Log** page to view errors encountered in the system. The system log lists, categorizes, and stores system issues that have occurred within the last seven days.

To view Tenable Sensor Proxy logs:

1. Select the desired log from the drop-down box.
2. Click **View Log**.
   
   The log appears in the text box.
3. Click on an individual entry (row) to get additional information.

Filter the System Log

Several log type filters are available. The **Everything** option is selected by default. Select another option using the drop-down menu at the top of the page. The logs are listed with the most recent entry displayed first. Previous days are divided into sections with the corresponding date displayed in the header.
Filter the logs using the drop-down menu. Click on the date to display the filter options for the logs.

Generate a Diagnostic Report

You can use diagnostic reports to assist with troubleshooting Tenable Core.

To generate a diagnostic report for troubleshooting:

1. Log in to Tenable Core via the user interface, as described in Log In to Tenable Core.

   The Tenable Core web user interface page appears.

2. In the left navigation bar, click Diagnostic Reports.

   The Diagnostic Reports page appears.

3. Click the Run report button.

4. A user interface list appears as the report generates.

5. When the report is complete, the status displays Done.
6. Click the **Download** button next to each report that you want to download. Tenable Core saves and prints the report.

**View OT Security Sensor Logs**

If you experience an issue during the OT Security Sensor installation process or an issue with the OT Security Sensor service, you can view the logs to access more troubleshooting information.

To view logs for OT Security Sensor:

1. Log in to Tenable Core via the user interface, as described in [Log In to Tenable Core](#).
   The Tenable Core web user interface page appears.

2. In the left navigation bar, click **Tenable.ot Sensor**.
   The **Tenable.ot Sensor** page appears. The logs are located at the bottom of the page.

3. (Optional) To filter the logs that appear, select values at the bottom of the OT Security Sensor page for one or more of the following filters:
   - Time Range
   - Severity
   - Service

   OT Security Sensor filters the logs based on your selected filter.

**Access the Terminal**

The **Terminal** page provides a console to access a user-specific command-line interface.
Start, Stop, or Restart Your Application

To start, stop, or restart your application via the user interface:

1. Log in to Tenable Core via the user interface, as described in Log In to Tenable Core. The Tenable Core web user interface page appears.
2. In the left navigation bar, click Tenable OT Security Sensor. The application page appears.
3. In the Installation Info section, click Start, Stop, or Restart.

To start, stop, or restart your application via the CLI:

1. Log in to Tenable Core via the Terminal page or command line interface (CLI). The command line appears.
2. To change the status of your application, see the OT Security Documentation.
Manage the System

You can use the **Overview** page to view usage statistics and manage system settings.

To manage the Tenable Core system:

1. Log in to Tenable Core via the user interface, as described in [Log In to Tenable Core](#).

   The Tenable Core web user interface page appears.

You can:

<table>
<thead>
<tr>
<th>Section</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health</td>
<td>• View your number of failed services.</td>
</tr>
<tr>
<td></td>
<td>• View your number of available updates.</td>
</tr>
<tr>
<td></td>
<td>• View the date, time, and location of the last successful login.</td>
</tr>
<tr>
<td></td>
<td>• View login history.</td>
</tr>
<tr>
<td>System information</td>
<td>• View your system <a href="#">Model</a>.</td>
</tr>
<tr>
<td></td>
<td>• View the <a href="#">Asset tag</a> of your system.</td>
</tr>
<tr>
<td></td>
<td>• View the <a href="#">Machine ID</a> of your system.</td>
</tr>
<tr>
<td></td>
<td>• View the <a href="#">Uptime</a> of your system.</td>
</tr>
<tr>
<td></td>
<td>• View your system's hardware details.</td>
</tr>
<tr>
<td>Usage</td>
<td>• View a graph of the <a href="#">CPU</a> usage on your instance.</td>
</tr>
<tr>
<td></td>
<td>• View a graph of the <a href="#">Memory</a> usage on your instance.</td>
</tr>
<tr>
<td></td>
<td>• View metrics and history of usage of your instance.</td>
</tr>
<tr>
<td>Configuration</td>
<td>• View and edit the hostname for your instance, as described in <a href="#">Edit Your Tenable Core Hostname</a>.</td>
</tr>
<tr>
<td></td>
<td>• View the <a href="#">System time</a>.</td>
</tr>
</tbody>
</table>
Manage System Storage

You can use the **Storage** page to view real-time system storage graphs, filesystem information, and logs. For more information, see [Disk Management](#).

To manage Tenable Core storage:

1. Log in to Tenable Core via the user interface, as described in [Log In to Tenable Core](#).
   
The Tenable Core web user interface page appears.

2. In the left navigation bar, click **Storage**.
   
The **Storage** page appears.

You can:

<table>
<thead>
<tr>
<th>Section</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Graphs</strong></td>
<td>• View a graph of the <strong>Reading</strong> storage activity on your instance.</td>
</tr>
<tr>
<td></td>
<td>• View a graph of the <strong>Writing</strong> storage activity on your instance.</td>
</tr>
<tr>
<td><strong>Filesystems</strong></td>
<td>• View information about each filesystem.</td>
</tr>
<tr>
<td><strong>table</strong></td>
<td>• Click a row to view more details about the filesystem.</td>
</tr>
<tr>
<td></td>
<td>• Rename a filesystem, as described in <a href="#">Rename a Filesystem</a></td>
</tr>
<tr>
<td></td>
<td>• Delete a filesystem, as described in <a href="#">Delete a Filesystem</a></td>
</tr>
</tbody>
</table>

**Rename a Filesystem**

To rename a filesystem in Tenable Core:
1. In the left navigation pane, click **Storage**.
   
   The **Storage** page appears.

2. In the **File Systems** section, click on the individual file in the file systems list.
   
   The details page appears.

3. Click the **Rename** button in the upper right section of the window.
   
   A new window appears.

4. Enter the new name for the **File System**.

5. Click **Create**.
   
   The new name appears on the page.

Delete a Filesystem

To delete a filesystem in Tenable Core:

1. In the left navigation pane, click the **Storage** option. The **Storage** page displays.

2. In the **File System** section, click the individual file in the files systems list. The details page appears.

3. Click the red **Delete** button in the system heading.

4. Confirm that you want to delete the **File System**.

   **Please confirm deletion of centos**

   This device has filesystems that are currently in use. Proceeding will unmount all filesystems on it.

   

   Deleting a volume group will erase all data on it.

   **Caution:** Deleting a volume group erases all data on it.
Manage Services

You can use the Services page to view information about targets, system services, sockets, timers, and paths.

To manage Tenable Core services:

1. Log in to Tenable Core via the user interface, as described in Log In to Tenable Core.

   The Tenable Core web user interface page appears.

2. In the left navigation bar, click Services.

   The Services page appears.

You can:

<table>
<thead>
<tr>
<th>Tab</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Targets</strong></td>
<td>1. Click <strong>Stop, Start, Restart</strong>, or <strong>Reload</strong>.</td>
</tr>
<tr>
<td></td>
<td><strong>Note</strong>: Restarting a service completely stops and restarts the service. Reloading a service only reloads the service’s configuration files.</td>
</tr>
<tr>
<td></td>
<td>The system changes the status of the service.</td>
</tr>
<tr>
<td><strong>System Services</strong></td>
<td>• View a list of system services.</td>
</tr>
<tr>
<td></td>
<td>• Click a row to view detailed information about a service.</td>
</tr>
<tr>
<td></td>
<td>• To change the status of a service:</td>
</tr>
<tr>
<td></td>
<td>1. Click a row.</td>
</tr>
<tr>
<td></td>
<td>The service details page appears.</td>
</tr>
<tr>
<td></td>
<td>2. Click <strong>Stop, Start, Restart</strong>, or <strong>Reload</strong>.</td>
</tr>
<tr>
<td></td>
<td><strong>Note</strong>: Restarting a service completely stops and restarts the service. Reloading a service only reloads the service’s configuration files.</td>
</tr>
<tr>
<td></td>
<td>The system changes the status of the service.</td>
</tr>
</tbody>
</table>
### Sockets
- View a list of socket services.
- Click a row to view detailed information about a service.
- To change the status of a service:
  1. Click a row.
     The service details page appears.
  2. Click **Stop, Start, Restart, or Reload**.

  *Note: Restarting a service completely stops and restarts the service. Reloading a service only reloads the service's configuration files.*

  The system changes the status of the service.

### Timers
- View a list of timer services.
- Click a row to view detailed information about a service.
- Create a new timer, as described in **Create a Timer**.
- To change the status of a service:
  1. Click a row.
     The service details page appears.
  2. Click **Stop, Start, Restart, or Reload**.

  *Note: Restarting a service completely stops and restarts the service. Reloading a service only reloads the service's configuration files.*

  The system changes the status of the service.

### Paths
- View a list of path services.
- Click a row to view detailed information about a service.
- To change the status of a service:
1. Click a row.

   The service details page appears.

2. Click **Stop**, **Start**, **Restart**, or **Reload**.

   **Note:** Restarting a service completely stops and restarts the service. Reloading a service only reloads the service’s configuration files.

   The system changes the status of the service.

---

**Create a Timer**

**To create a timer:**

1. In the left navigation pane, click the **Services** option. The **Services** page displays.

2. In the **Services** page heading, click the **Create Timers** button.

   A new window appears.

3. Enter the **Service Name**, **Description**, **Command**, and **Run** information.

4. Click **Save**.

   The new timer displays in the enabled section of the list.
You can use the **Updates Management** page to manage your Tenable Core and application updates.

If your deployment is online, Tenable recommends:

- Performing on-demand updates, as needed. For more information, see [Update On Demand](#).

If your deployment is offline, you can perform offline updates. For more information, see [Update Tenable Core Offline](#).

**Note:** Automatic updates are disabled by default on OT Security Sensor. Updates are delivered from the ICP system.

### Update On Demand

If you deploy Tenable Core in an online environment, you can perform updates on demand. When updating on demand, Tenable Core retrieves and installs the following:

- The latest version of OT Security Sensor.
- The latest version of host operating system included in Tenable Core.
- The latest version of any additional packages required by Tenable Core.
- The latest version of any additional host operating system packages you installed.

To update on demand:

1. Log in to Tenable Core via the user interface, as described in [Log In to Tenable Core](#).
   
   The Tenable Core web user interface page appears.

2. In the left navigation pane, click **Update Management**.
   
   The **Update Status** section on the page shows the number of available updates.

3. (Optional) Click the ![refresh](#) button to refresh the page with available updates in the **Update Status** section.

4. Click the **Install Updates** button.

   Tenable Core installs the updates.
5. Tenable Core confirms your system is up to date and prompts you to reboot, if required by any of the installed updates.

6. If prompted, restart your system.

   (Optional) Select the **Automatically reboot after updates when needed** checkbox to enable Tenable Core to reboot automatically after updates are applied to your system. For more information, see [Enable Automatic Reboots After Updates](#).

   **Caution:** Automatic reboots may cause data loss.

   **Caution:** Updates applied at automatic reboot-time may trigger a second reboot.

To activate the upgrade for OT Security or OT Security Sensor:

**Note:** All OT Security and OT Security Sensor upgrades are staged when you install all updates. The upgrade is not yet installed. Click on one of the OT Security tabs, then click the blue arrow next to **RPM Version**. (As outlined in the following procedure.)

1. In the left navigation pane, click the **OT Security** tab or the **Sensor** tab for OT Security Sensor. The installation information page appears.
2. Refresh the page to show the latest update available.

3. Click the blue arrow next to the application version to install the update.

**Note:** The OT Security user interface may be unavailable during an upgrade.
Enable Automatic Reboots After Updates

You can configure Tenable Core (OL8) to reboot automatically after updates are applied. The system will reboot automatically only after updates which require it. Without this enabled, you have to reboot the system manually in order to use the updates which require a reboot.

There are risks associated with automatically reboots after updates. Scheduled automatic reboots risk disrupting an ongoing system task (scanning, exporting, importing, etc.) and also cause harm to the system in some rare cases. Tenable Core includes several warnings and pop-up modals to confirm enabling this feature. Ensure that automatic updates and scheduled scans are not both scheduled within the same general timeframe.

**Caution:** Automatic reboots can cause data loss.

**Note:** Automatic reboots can trigger a second reboot.

**Note:** Tenable does not recommend automatic reboots on Tenable Security Center systems.

Before you begin, consider:

- If the **Automatically reboot after updates when needed** checkbox is not checked, you have to reboot the system to apply the updates which require it.

- If the **Automatically reboot after updates when needed** checkbox is checked, the system is now configured to reboot automatically on updates which require reboots.

  **Note:** Even if an update is installed with the **Install Updates** button, it triggers a reboot if the Tenable Core system requires it. There are risks by default with this behavior.

Enable automatic reboots after updates:

1. Log in to the Tenable Core user interface.
2. Navigate to the **Update Management** page.
3. Select the **Automatically reboot after updates when needed** checkbox to enable Tenable Core to reboot automatically after updates are applied to your system.
After selecting the checkbox to enable automatic reboots, a confirmation message appears:

**CONFIRM ENABLE AUTO REBOOT**

Enabling automatic reboot after updates comes with the risk of data loss and data corruption. Tenable does not recommend enabling this feature for Security Center customers. Enable automatic reboots?

- **CONFIRM** - Confirm your choice to enable automatic reboots after updates.

  **Note**: The **Automatically reboot after updates when needed** checkbox remains selected in Tenable Core until you uncheck it.

- **CANCEL** - Reverts back to the previous state with the checkbox disabled.

After enabling automatic reboots, a confirmation message appears:

**UPDATE STATUS:**

- **This system is up to date**
  - Last check: 1 day ago
  - **Automatically reboot after updates when needed**

  **Warning**: Automatic reboot after updates is enabled. Ensure that automatic updates are not scheduled at the same time as product scans, scan imports, or any other product operations to avoid the potential of data loss or corruption.

Update Tenable Core Offline
Tenable recommends applying all offline updates to your Tenable Core machine in chronological order. Do not skip offline updates. There are two methods available to perform an offline update. For information about the contents of individual offline update files, see the Tenable Core Release Notes.

Tip: For more information about updating Tenable Core, see the FAQ.

Note: Service pack (SP) updates to OT Security may not be available for an online update in Tenable’s repositories. Complete an offline update by downloading the latest installation ISO and performing the offline update procedure if you wish to update your version.

Note: While the quarterly update ISO can update your OT system, you may want to use the OT offline installer ISO as a source of updates. On the downloads page, you can select from two ISO types for your Tenable Core + Tenable OT Security deployment:

- **Tenable Core Tenable.ot Self-Contained Installation ISO** - provides latest Tenable.OT ICP/Sensor and system updates (for example, Tenable-Core-Tenable.ot-offline-20231019.iso and Tenable-Core-Tenable.ot.Sensor-offline-20231019.iso)

- **Offline Update ISO Image** - provides quarterly cadence for ICP/Sensor and system updates (for example, Tenable-Core-Offline-Update-2023-Q3.iso).

Note: Tenable OT has centralized sensor updates provided by the ICP as of Tenable Core + Tenable OT Security version 3.16.55. To ensure functionality, the ICP needs to have offline updates attached and mounted. When the sensor is connected to the ICP and the ICP has updates, running updates from the sensor installs the software served by the ICP.

To upload a Tenable Core offline update .iso file:

1. Navigate to the Tenable Core Offline Update ISO section of the Tenable Downloads page.

2. Click and download the offline update .iso file.

3. Upload the file via scp. For example:

   ```
   scp local-iso-file.iso user@host:/srv/tenablecore/offlineiso/local-iso-file.iso
   ```

   Note: The target line may vary; however, the destination must be the following path:

   `/srv/tenablecore/offlineiso/tenable-offline-updates.iso`
4. Rename the offline update .iso file as `tenable-offline-updates.iso`.
   
   Tenable Core updates with the new .iso file.

To update Tenable Core via external media:

1. Navigate to the Tenable Core Offline Update ISO section of the [Tenable Downloads](#) page.
2. Click and download the offline update .iso file.
3. Burn the ISO to media (for example, DVD-DL, BD, or thumb drive).
4. Attach the media to a system and have it mount automatically.

   Tenable Core updates with the new .iso file.

**Note:** By default, the hardening on OL8 operating systems prevents USB media from mounting. In order to use USB drives with a Tenable Core OL8 operating system, the `/etc/modprobe.d/usb-storage.conf` file needs to be removed from that directory.

What to do next:

- [Update on Demand](#)

**Application Data Backup and Restore**

Backup and restore requires a connection to a remote storage host. When Tenable Core begins a scheduled or on-demand backup, your files are stored temporarily in `/opt/tenablecore/backup/spool` before being sent to the configured remote storage host.

Later, you can restore your backup data by uploading your backup file to Tenable Core.

**Note:** You can also use local backups in Tenable Core. Remote storage is safer and preferred, but local storage can be enabled. In the user interface you can specify how many backups to keep and download backups that are stored locally. For more information, see [Configure Storage for Tenable Core Backups](#).

For more information, see:

- [Configure Storage for Tenable Core Backups](#)
- [Perform an On-Demand Backup](#)
• **Change the Scheduled Backup Time**

• **Restore a Backup**

If you want to enable or disable a scheduled backup, click *Scheduled backups can be configured Here.*

**Note:** During a backup or a restore, Tenable Core stops the OT Security Sensor application service. You cannot use Tenable Core during this time. After the backup or restore completes, your services restart and OT Security Sensor resumes normal function.

**Tip:** A virtual machine snapshot backs up the entire virtual machine (application-installed files, application data, OS files, and configurations.) To take a snapshot of your virtual machine, see *Take a Snapshot.*

Remote Storage Host Requirements

The location where you store your backups must:

- Have rsync installed.
- Have an SSH server installed and running.
- Have sufficient storage space to hold your application's backup data.
- Have a user with write permissions to manage the remote storage host location.

**Note:** Tenable Core does not manage your remote storage system. If you have concerns about space on your remote storage system, remove backup files manually when you no longer need them.

Configure Storage for Tenable Core Backups

Before you can back up your application data, you must set the storage location. You can establish a remote storage host with an SSH key and configure Tenable Core to use that host, or you can store backups locally.

Configure remote backup storage

Before you begin:
• Confirm your SSH private key for authenticating to the remote storage host is in OpenSSH key format.

• Prepare your remote storage host environment, as described in the Remote Storage Host Requirements.

• Confirm that you can log in to your remote storage host using SSH key authentication.

**Note:** There are several ways to create your own SSH private key. These are not Tenable-specific processes. Consult your system administrator.

To configure your remote storage host:

1. Log in to Tenable Core via the user interface, as described in Log In to Tenable Core.

   The Tenable Core web user interface page appears.

2. In the left navigation bar, click Remote Storage.

   The Remote Storage Configuration page appears.

3. In the Remote Host box, type the hostname for the remote storage host where you want to store your backup files.

4. In the Remote Path: box, type the location on the remote host where you want to store your backup files.

5. In the User box, type the username for a user on the remote host with edit permissions for the remote path location.

6. In the SSH private key box, paste the SSH private key for authenticating to the remote storage host.

7. Click Save Configuration.

**Configure local backup storage**

Storing backups exclusively on the Tenable Core system where the backup is taken is not recommended. Backups should be kept in a separate location in order to avoid data loss in the event that the Tenable Core system becomes unusable.
1. Log in to Tenable Core via the user interface, as described in Log In to Tenable Core. The Tenable Core web user interface page appears.

2. In the left navigation bar, click Remote Storage. The Remote Storage Configuration page appears.

3. In the Storage Mode drop-down menu and select Local.

4. In the left-navigation bar, click Backup/Restore. The Backup/Restore page appears.

In the user interface you can specify how many backups to keep and download backups that are stored locally.

Note: In local storage mode, backups are stored in a folder under /opt.

Any backups that have been taken appear in the list of Available Backups.

Note: A fixed number of backups are kept with the oldest ones being deleted. Tenable recommends you make sure there is enough space for that number of backups plus one on the disk that contains /opt.

What to do next:

- Perform a backup, as described in Perform a Backup on Demand.
- (Optional) Change your automatic backup schedule, as described in Change Your Automatic Backup Schedule.
- (Optional) Restore a backup, as described in Restore a Backup.
Perform an On-Demand Backup

Perform a backup of your application data anytime between scheduled backups. For more information about scheduled backups, see Change the Scheduled Backup Time.

**Note:** During a backup or a restore, Tenable Core stops the OT Security Sensor application service. You cannot use Tenable Core during this time. After the backup or restore completes, your services restart and OT Security Sensor resumes normal function.

Before you begin:

- Configure your remote storage host, as described in Configure Storage for Tenable Core Backups.

To perform an on-demand backup:

1. Log in to Tenable Core via the user interface, as described in Log In to Tenable Core.
   
   The Tenable Core web user interface page appears.

2. In the left navigation bar, click Backup/Restore.

   The Backup/Restore page appears.

3. In the AVAILABLE MODULES section, select the box next to the application you want to back up.

4. Click Take Backup Now.

   The BACKUP IN PROGRESS window appears. The window disappears after the system completes the backup.

What to do next:

- (Optional) Restore the backup, as described in Restore a Backup.

Change the Scheduled Backup Time

By default, Tenable Core backs up your applications daily at 2:30 AM local time. You can edit your schedule preferences in Tenable Core to change the time and frequency of your scheduled backups.

For more information about managing your time preferences, see Edit Your Time Settings.
Note: Tenable Core cannot perform a backup (scheduled or on-demand) until you configure a remote storage host on your computer. For more information, see Configure Storage for Tenable Core Backups.

To change the scheduled backup time:

1. Log in to Tenable Core via the user interface, as described in Log In to Tenable Core.
   
The Tenable Core web user interface page appears.

2. In the left navigation bar, click Backup/Restore.
   
The Backup/Restore page appears.

3. In the AUTOMATIC BACKUPS table, locate the Timer Config Line row.

4. Click Edit.
   
The EDIT TIMER CONFIGURATION window appears.

5. On the EDIT TIMER CONFIGURATION window, update the configuration based on your desired backup frequency:

Note: If you specify a day of the week and a day of the month for your scheduled backups, Tenable Core performs the backups only when those values overlap. For example, if you specify Monday and 15, Tenable Core performs your backups only on Mondays that fall on the 15th day of the month.

<table>
<thead>
<tr>
<th>Frequency</th>
<th>Configuration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Daily</td>
<td>• In the Day of Week and Day of Month boxes, type an asterisk (*).</td>
</tr>
<tr>
<td></td>
<td>• In the Hour box, type the hour when you want Tenable Core to perform a backup as an integer between 0 and 23.</td>
</tr>
<tr>
<td></td>
<td>• In the Minute box, type the minute when you want Tenable Core to perform a backup as an integer between 0 and 59.</td>
</tr>
<tr>
<td>Weekly</td>
<td>• In the Day of Week box, type the day of the week when you want Tenable Core to perform a backup (for example, Monday or Mon).</td>
</tr>
<tr>
<td></td>
<td>• In the Day of Month box, type an asterisk (*).</td>
</tr>
<tr>
<td></td>
<td>• In the Hour box, type the hour you want Tenable Core to perform</td>
</tr>
</tbody>
</table>
a backup as an integer between 0 and 23.

- In the **Minute** box, type the minute you want Tenable Core to perform a backup as an integer between 0 and 59.

| Monthly       | • In the **Day of Week** box, type an asterisk (*).  
|              | • In the **Day of Month** box, type the day of the month when you Tenable Core to perform a backup as an integer (for example, 15).  
|              | • In the **Hour** box, type the hour you want Tenable Core to perform a backup as an integer between 0 and 23.  
|              | • In the **Minute** box, type the minute you want Tenable Core to perform a backup as an integer between 0 and 59. |

6. Click **Save**.

Your scheduled backup time updates.

**What to do next:**

- (Optional) Perform an on-demand backup, as described in [Perform a Backup On Demand](#).

- (Optional) Restore the backup, as described in [Restore a Backup](#).

**Restore a Backup**

You can restore a backup to return an application to a prior state by uploading a backup to restore, or by restoring from your local storage.

**Note:** During a backup or a restore, Tenable Core stops the OT Security Sensor application service. You cannot use Tenable Core during this time. After the backup or restore completes, your services restart and OT Security Sensor resumes normal function.

**Note:** You can only restore backups that have been taken using the Tenable Core backup utility. Older backups from Tenable OT Security before version 3.18 are not compatible. If you are trying to restore from a backup captured in an older version of Tenable OT Security, before version 3.18, contact support for the necessary instructions and commands.

**Before you begin:**
• Check your firewall settings and confirm that your computer can access port 8090 on Tenable Core, as described in Access Requirements.

**Note:** If you do not confirm this ahead of the backup/restore process Tenable Core provides a link to click which opens a connection-check URL in a new tab so you can accept the certificate for port 8090, and have the restoration process try again.

• For help with issues encountered during the process, refer to the FAQ.

**To upload and restore an application backup:**

1. Log in to Tenable Core via the user interface, as described in Log In to Tenable Core.
   The Tenable Core web user interface page appears.
2. In the left navigation bar, click **Backup/Restore**.
   The **Backup/Restore** page appears.
3. In the **UPLOAD AND RESTORE** section, click **Choose a file**.
   Your file manager appears.
4. Select the desired backup file.
5. Click **Open**.
   A details window for the backup appears.
6. If prompted, confirm that you want to upgrade or downgrade your current Tenable Core application version to match the application version from your backup file.
   a. Click **Install Correct Version**.
      A confirmation window appears.
   b. Click **Replace**.
      Tenable Core installs the correct version of your application.
      The **Restore** window appears.
7. Click **Restore**.
   The system restores your backup to Tenable Core.
**Note**: Do not log out of Tenable Core or close your browser until after the **Uploading the archive** task is complete. If you end your session early, the restore fails.

When the restore finishes, a success message appears.

**Tip**: If the restore attempt fails, an error message appears with details and remediation instructions. Resolve the errors and click **Retry**.

**To restore a locally stored backup:**

1. Log in to Tenable Core via the user interface, as described in [Log In to Tenable Core](#).
   
The Tenable Core web user interface page appears.

2. In the left navigation bar, click **Backup/Restore**.
   
The **Backup/Restore** page appears.

3. In the **Upload and Restore** section, click **Restore from local backup storage**.
   
The **Select Local Backup** pop-up window appears.

4. Select the desired backup file.

5. Click **Restore**.
   
A details window for the backup appears.

6. Click **Restore**.
   
The system restores your backup to Tenable Core.

**Note**: You can use this feature to restore Tenable Core backups uploaded to the system by tools such as scp or rsync. Store the backups in `/opt/tenablecore/remote-storage/localstorage/` before attempting to restore.

**Manage System Networking**

You can use the **Networking** page to view real-time system network traffic information, interface connection options, and logs.

**To manage Tenable Core system networking:**
1. Log in to Tenable Core via the user interface, as described in Log In to Tenable Core.

The Tenable Core web user interface page appears.

2. In the left navigation bar, click **Networking**.

The **Networking** page appears.

You can:

<table>
<thead>
<tr>
<th>Section</th>
<th>Action</th>
</tr>
</thead>
</table>
| Graphs      | • View a graph of the **Sending** (outbound) network traffic on your instance.  
              • View a graph of the **Receiving** (inbound) network traffic on your instance.  |
| Firewall section | • View Firewall rules.  
                      • Add Zones.  
                      • Add Allowed Services. |
| Interfaces table | • Aggregate multiple network interfaces into a single-bonded interface, as described in Add a Bonded Interface.  
                      • Add a team of interfaces, as described in Add a Team of Interfaces.  
                      • Add a bridge to create a single aggregate network from multiple communication networks, as described in Add a Bridge Network.  
                      • Add a VLAN, as described in Add a VLAN. |
| Networking Logs table | View a log of activity for the system network. |

**Note:** You can only create a new interface by plugging one in, or by adding one to the virtual machine according to the instructions provided by your virtualization tools. This is not provided by Tenable Core.

**Add a Bonded Interface**
You can add a bond to aggregate multiple network interfaces into a single-bonded interface.

To add a bonded interface to Tenable Core:

1. In the left navigation pane, click the **Networking** option. The **Networking** page displays.
2. In the **Interfaces** heading, click the **Add Bond** button on the **Interfaces** section. A new window appears.
3. Enter a **Name** for the bond.
4. Select the members (interfaces) to bond to in the **Members** section.
5. Select an option for **MAC**.
6. Select the **Mode**.
7. Select a **Primary**.
8. Select the type of **Link Monitoring**. Labeled in the drop-down list is the recommended type.
9. Enter the **Monitoring Intervals** with options to link up or down delay increments.

![Bond Settings](image)

**Add a Team of Interfaces**

To add a team of interfaces to Tenable Core:

1. In the left navigation pane, click the **Networking** option. The **Networking** page displays.
2. In the **Interfaces** heading, click the **Add Team** button on the **Interfaces** section. A new window appears.
3. Enter the **Team Name**.
4. Select the **Ports** needed for the new team.
5. Select the **Runner** and **Link Watch** from the drop-down list.
6. Enter the **Link up** and **Link down delay** increments.

![Team Settings]

**Add a Bridge Network**

You can add a bridge to create a single aggregate network from multiple communication networks.

**To add a bridge network to Tenable Core:**

1. In the left navigation pane, click the **Networking** option. The **Networking** page displays.
2. In the **Interfaces** heading, click the **Add Bridge** button on the **Interfaces** section. A new window appears.
3. Enter a **Name** for the bridge.
4. Select the **Ports** that you want to connect to the bridge.
5. Click the box next to **Spanning Tree Protocol (STP)** to get more STP options.
6. Click **Apply** to add the new bridge.

### Bridge Settings

<table>
<thead>
<tr>
<th>Name</th>
<th>bridge0</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ports</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ens192</td>
</tr>
<tr>
<td></td>
<td>ens192.1</td>
</tr>
<tr>
<td>Spanning Tree Protocol (STP)</td>
<td>✓</td>
</tr>
<tr>
<td>STP Priority</td>
<td>32768</td>
</tr>
<tr>
<td>STP Forward delay</td>
<td>15</td>
</tr>
<tr>
<td>STP Hello time</td>
<td>2</td>
</tr>
<tr>
<td>STP Maximum message age</td>
<td>20</td>
</tr>
</tbody>
</table>

Add a VLAN

To add a VLAN to Tenable Core:

1. Click the **Add VLAN** button on the Interfaces section. A new window appears.
2. Select the **Parent** from the drop-down list.
3. Enter the **VLAN Id** and name.
4. Click **Apply** to add the **VLAN**.
5. The new VLAN displays in the Interface list.

### VLAN Settings

<table>
<thead>
<tr>
<th><strong>Parent</strong></th>
<th>ens192</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>VLAN Id</strong></td>
<td>1</td>
</tr>
<tr>
<td><strong>Name</strong></td>
<td>ens192.1</td>
</tr>
</tbody>
</table>

Manage Certificates

From the SSL/TLS Security Certificates page, you can manage the certificates used by Tenable Core and your application.

**Manage the Server Certificate**

Manage the Server Certificate

When you first deploy Tenable Core, Tenable provides a default server certificate for accessing the Tenable Core and application interfaces.

**Tip:** By default, Tenable Core uses separate certificates for Tenable Core and OT Security. For information about the OT Security application certificate, see the OT Security Documentation.

**Note:** The default certificate is not signed by a recognized certificate authority (CA). If your browser reports that the Tenable Core or application server certificate is untrusted, Tenable recommends uploading a custom server certificate signed by a trusted certificate authority (CA) for Tenable Core and application use. For more information, see Upload a Custom Server Certificate. Alternatively, you can download the Tenable-provided CA certificate (cacert.pem) for your server certificate and upload it to your browser.

If you upload a custom server certificate signed by a custom CA, you must also provide certificates in the chain to validate your custom server certificate.

For more information, see:
• **Upload a Custom Server Certificate**

• **Remove a Custom Server Certificate**

**Upload a Custom Server Certificate**

If you do not want to use the Tenable-provided server certificate, you can upload a custom server certificate to Tenable Core. For more information, see [Manage the Server Certificate](#).

You cannot upload multiple custom server certificates to Tenable Core. Uploading a new file replaces the existing file.

**Before you begin:**

- Confirm your custom server certificate and key files use the `*.der`, `*.pem`, or `*.crt` extension.
- Move the custom server certificate and key files to a location accessible from your browser.

**To upload a custom server certificate for Tenable Core:**

1. Log in to Tenable Core via the user interface, as described in [Log In to Tenable Core](#).

   The Tenable Core web user interface page appears.

2. In the left navigation pane, click **SSL/TLS Certificates**.

   The **SSL/TLS Certificates** page appears.

3. Click the **System Certificate** tab.

4. Locate the **Update Certificate** section in the **SERVER CERTIFICATES** section.

   ![Update Certificate](#)
5. Provide your **Server Certificate**.
   a. Click **Choose File**.
      The upload window appears.
   b. Browse to and select the file.
      Tenable Core loads the file.

6. Provide your **Server Key**.
   a. Click **Choose File**.
      The upload window appears.
   b. Browse to and select the file.
      Tenable Core loads the file.

7. *(Optional)* If your custom server certificate is signed by a custom CA that requires an intermediate certificate to validate the custom server certificate, provide your **Intermediate Certificate**.
   a. Click **Choose File**.
      The upload window appears.
   b. Browse to and select the file.
      Tenable Core loads the file.

8. *(Optional)* If your custom server certificate is signed by a custom CA, upload your **Custom Root CA Certificate**.
   a. Click **Choose File**.
      The upload window appears.
   b. Browse to and select the file.
      Tenable Core loads the file.

9. Click **Install Server Certificates**.
Tenable Core uploads the files. A success message appears to confirm the upload succeeded.

10. In the left navigation pane, click Services.

   The Services page appears.

11. Restart the Cockpit service, as described in Manage Services.

   The Cockpit service restarts and enables the new certificate.

### Remove a Custom Server Certificate

If you no longer want to use your custom server certificate for Tenable Core, you can remove the certificate and revert to using a Tenable-provided server certificate. For more information, see Manage the Server Certificate.

To remove a custom server certificate and revert to the Tenable-provided default certificate:

1. Log in to Tenable Core via the user interface, as described in Log In to Tenable Core.

   The Tenable Core web user interface page appears.

2. In the left navigation pane, click SSL/TLS Certificates.

   The SSL/TLS Certificates page appears.

3. Click the System Certificate tab.

4. In the SERVER CERTIFICATES section, in the Update Certificate section, click Reset Server Certificates.

   A confirmation window appears.

5. Click Reset.

   A success message appears to confirm the reset succeeded.

### Manage User Accounts

You can use the Accounts page to manage user accounts for your Tenable Core instance.

To manage Tenable Core user accounts:
1. Log in to Tenable Core via the user interface, as described in Log In to Tenable Core.
   The Tenable Core web user interface page appears.

2. In the left navigation bar, click Accounts.
   The Accounts page appears.

   Do any of the following:
   - Create a new user account, as described in Create New User Account.
   - Edit a user account, as described in Edit a User Account.
   - Delete a user account, as described in Delete a User Account.

Create New User Account

**Required User Role:** Administrator

You can create a new user account from the Accounts page.

To create a new user account:

1. Log in to Tenable Core, as described in Log In to Tenable Core.

2. In the left navigation bar, click Accounts.
   The Accounts page appears.

3. Click Create New Account.
   The Create New Account window appears.

4. In the Full Name box, type the user’s full name.

5. In the User Name box, type a username for the user account.

6. In the Password box, type a password for the user account.
**Note**: Your password must meet the following minimum requirements:

- Minimum 14 characters long
- Cannot be a palindrome (i.e., a word or phrased spelled the same backward and forward)

7. In the **Confirm** box, retype the password.

8. Click **Create**.

   Tenable Core creates the new account and displays it on the **Accounts** page.

What to do next:

- (Optional) If you want to configure the user account, see **Edit a User Account**.
- (Optional) If you want to delete the user account, see **Delete a User Account**.

**Edit a User Account**

**Required User Role**: Administrator

You can edit a user account configuration, including the user’s full name, password, roles, access, and public SSH keys.

Before you begin:

**To edit a user account**:

1. Log in to Tenable Core, as described in **Log In to Tenable Core**.

2. In the left navigation bar, click **Accounts**.
   
   The **Accounts** page appears.

3. Click the user account you want to edit.
   
   The account page for the user account appears.

4. On the user account page, you can:

<table>
<thead>
<tr>
<th>Section</th>
<th>Action</th>
</tr>
</thead>
</table>

- 86 -
<table>
<thead>
<tr>
<th>Full Name</th>
<th>Type a name for the user account.</th>
</tr>
</thead>
</table>
| Roles     | • To grant the user account administrator access, select the **Server Administrator** check box.  
           | • To remove administrator access from the user account, clear the **Server Administrator** check box. |
| Access    | • To lock the user account, select the **Lock Account** check box to lock the user account.  
           | • To unlock the user account, clear the **Lock Account** check box to unlock the user account.  
           | • To configure the account to remain unlocked indefinitely:  

  **Note:** If you do not configure the account to remain unlocked indefinitely, Tenable Core automatically locks the account on the set expiration date.

  1. Click **Never lock account**.  
     The **Account Expiration** window appears.  
  2. Select the **Never lock account** option.  
  3. Click **Change**.  
     Tenable Core sets the account to remain unlocked indefinitely.

    • Select an expiration date for the account:

      1. Click **Never lock account**.  
         The **Account Expiration** window appears.  
      2. Select the **Lock account on** option.  
      3. Click the box next to the **Lock account on** option.  
         A calendar drop-down box appears.
4. In the calendar drop-down box, select the date when you want the account to age out.

5. Click **Change**.

   Tenable Core sets the expiration date for the user account.

<table>
<thead>
<tr>
<th>Password</th>
<th>• To set a new user account password:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1. Click <strong>Set Password</strong>.</td>
</tr>
<tr>
<td></td>
<td>The <strong>Set Password</strong> window appears.</td>
</tr>
<tr>
<td></td>
<td>2. In the <strong>New Password</strong> box, type the password you want to use for the account.</td>
</tr>
<tr>
<td></td>
<td><strong>Note</strong>: Your password must meet the following minimum requirements:</td>
</tr>
<tr>
<td></td>
<td>• Minimum 14 characters long</td>
</tr>
<tr>
<td></td>
<td>• Cannot be a palindrome (i.e., a word or phrased spelled the same backward and forward)</td>
</tr>
<tr>
<td></td>
<td>3. Click <strong>Set</strong>.</td>
</tr>
<tr>
<td></td>
<td>Tenable Core updates the user account password.</td>
</tr>
<tr>
<td></td>
<td>• To force a user to change their user account password:</td>
</tr>
<tr>
<td></td>
<td>1. Click <strong>Force Change</strong>.</td>
</tr>
<tr>
<td></td>
<td>The <strong>Force password change</strong> window appears.</td>
</tr>
<tr>
<td></td>
<td>2. Click <strong>Reset</strong>.</td>
</tr>
<tr>
<td></td>
<td>Tenable Core disables the password for the user account. The user must change the password on the next login attempt.</td>
</tr>
<tr>
<td></td>
<td>• Configure the user account password to remain active indefinitely:</td>
</tr>
</tbody>
</table>
**Note:** If you do not configure the password to remain active indefinitely, Tenable Core automatically ages out the password on the set expiration date.

1. Click **Never expire password**.
   
   The **Password Expiration** window appears.

2. Select the **Never expire password** option.

3. Click **Change**.
   
   Tenable Core sets the password to remain active indefinitely.

4. Select an expiration date for the user account password:

   1. Click **Never expire password**.
      
      The **Password Expiration** window appears.

   2. Select the **Require password change every [blank] days** option.

   3. In the **Require password change every [blank] days** section, type the number of days that you want to pass between password expiration dates (for example, type 90 if you want the password to age out every 90 days).

   4. Click **Change**.
      
      Tenable Core sets the expiration date for the user account password.

**Authorized Public SSH Keys**

- To add a public SSH key to the user account:

  1. In the **Authorized Public SSH Keys** table, click the icon.
     
     The **Add public key** window appears.

  2. In the text box, type or paste your public SSH key.
3. Click **Add key**.

Tenable Core adds the SSH key to the user account.

- To remove a public SSH key:

  1. In the **Authorized Public SSH Keys** table, next to the key you want to remove, click the icon.

    Tenable Core removes the SSH key from your account.

---

**Delete a User Account**

**Required User Role:** Administrator

You can delete a user account from the **Accounts** page.

To delete a new user account:

1. Log in to Tenable Core in a browser, as described in [Log In to Tenable Core](#).

2. In the left navigation bar, click **Accounts**.

   The **Accounts** page appears.

3. Click the user account you want to delete.

   The account page for the user account appears.

4. In the upper-right corner, click **Delete**.

   The delete window for the user account appears.

5. (Optional), if you want to delete files attached to the user account, select the **Delete Files** check box.

   **Note:** This file deletion is permanent. If you do not delete them, the files remain attached to the Tenable Core instance, along with their existing access permissions. Users who were previously granted access can still access the files.

6. Click **Delete**.

   Tenable Core deletes the user account.
Change Performance Profile

To change the performance profile for your Tenable Core instance:

1. Log in to Tenable Core via the user interface, as described in Log In to Tenable Core.
   The Tenable Core web user interface page appears.
2. In the left navigation pane, click the Overview option.
   The Overview page displays.
3. Click on the edit link next to the Performance profile option in the Configuration tile. A new window appears displaying Performance Profile options.
4. Select the desired Performance Profile. The recommended profile is labeled in the list.
5. Click Change Profile to confirm the new selection.

![Change Performance Profile]

Restart Tenable Core

To restart your Tenable Core instance:
1. Log in to Tenable Core via the user interface, as described in Log In to Tenable Core.
   The Tenable Core web user interface page appears.

2. In the left navigation pane, click the System option.
   The System page displays.

3. Click the Restart button or select it from the drop-down box.
   A new window appears.

4. Enter a message for the users in the text box.

5. Select the delay time from the drop-down menu. This is the time that the restart begins.
   Choose from one of the minute increments or enter a specific time. There is also an option to
   restart immediately with no delay.

6. Click the Restart button to initiate and save the updated information.

Shut Down Tenable Core

To shut down your Tenable Core instance:

1. Log in to Tenable Core via the user interface, as described in Log In to Tenable Core.
   The Tenable Core web user interface page appears.
2. In the left navigation pane, click the **System** option.  
   The **System** page displays.

3. Next to the **Power Options** item, click the arrow by **Restart** to display the drop-down menu. Select **Shut Down**.  
   A new window appears.

4. Enter a message for the users in the text box.

5. Select the delay time from the drop-down menu. This is the time that the shutdown begins. Choose from one of the minute increments or enter a specific time. There is also an option to Shut Down immediately with no delay.

6. Click **Shut Down** to initiate and save the updated information.

![Shut Down](image)

---

**Edit Your Tenable Core Hostname**

To edit the hostname for your Tenable Core instance:

1. Log in to Tenable Core via the user interface, as described in [Log In to Tenable Core](#).
   The Tenable Core web user interface page appears.

2. In the left navigation pane, click the **Overview** option.
   The **Overview** page displays.
3. Click the **edit** link next to the **Hostname** option in the **Configuration** tile.

   A new window appears with the options to enter or edit the **Pretty Host Name** and **Real Host Name**.

4. Enter the **Pretty Host Name** for the machine.

   The **Real Host Name** updates as you enter the **Pretty Host Name**.

5. Click **Change** to update the name.

   The new name displays next to the **Hostname** option.

![Change Host Name](image)

---

**Edit Your Time Settings**

**Caution:** Do not edit time settings on Tenable Core + Tenable OT Security using any method other than the one described in the following process.

To edit the system time and time zone settings for your Tenable Core instance:

1. Log in to Tenable Core via the user interface, as described in [Log In to Tenable Core](#).

   The Tenable Core web user interface page appears.

2. Access the OT Security interface, as described in [Configure OT Security in the OT Security User Interface](#).

   The OT Security interface appears.
3. Log in to OT Security.

4. Modify your system time settings as described in the *OT Security User Guide*.
   
   Tenable Core + Tenable OT Security reboots.
FAQ

When are Tenable Core offline update ISOs released?
Tenable Core releases offline updates throughout the year on a quarterly basis, within three weeks after the end of a quarter.

Can I skip offline updates?
Tenable recommends that you apply updates in order. Tenable does not test, or support, skipping updates. If you have an old version of Tenable Core, it is best to back up the data and restore it on a newer version of Tenable Core.

Does Tenable provide old Tenable Core ISOs?
The downloads page has the current ISO and images from the last four quarters. Tenable does not provide any ISOs older than what is available on the downloads page. If you are looking for an older ISO to downgrade one of the products, you can follow the Tenable Core documentation.

How can I find out what updates are in an offline Tenable Core ISO?
The release notes for offline ISOs have a section for package updates that are present in the ISO.

How long does it take for a Tenable software update to be available in Tenable Core?
Tenable Core holds a new version of Tenable Nessus until the general availability (GA) date in Tenable Vulnerability Management. This is usually a week after the stand-alone Tenable Nessus GA. Releases for other products on Tenable Core usually occur within 24 hours of the GA date. To see which versions of the products are currently available on each operating system version of Tenable Core, see the Versions page.

Do automatic updates include Security Center patches?
Patches are not included in automatic updates. Applicable patches need to be downloaded and installed per the given instructions for each patch.
How can I disable or reenable automatic updates?

Automatic update configuration is in Tenable Core documentation.

Can I use a local repository for software updates?

Tenable Core does not support this feature. Tenable encourages you to submit a feature request.

How long will Tenable Core support RHEL/CentOS 7?

CentOS 7 operating system will be end of support (EOS) as of June 30, 2024. As such, Tenable will also be ceasing support for all CentOS 7-based Core images & packages. All On-Prem products - Nessus, Nessus Manager, NNM, Sensor Proxy, WAS, or Security Center deployed on CentOS 7 versions of Tenable Core should be migrated to Oracle Linux 8 versions of Tenable Core before Jun 30, 2024.

Why are my automatic backups failing?

One of the most common reasons for an automatic backup failing is that the Security Center services failed to exit. Core will not force Security Center processes to exit. Automatic backups should be scheduled outside of normal scan times to minimize backup failures.

How often are OS updates for Tenable Core released?

Typically once every 2-3 calendar weeks (e.g., Updates were made available on March 5, 2024 and March 22, 2024)

Will tenable support X software we installed on our Core instance?

You can install any software you wish on Tenable Core instances. Tenable does not support the additional software, but fully supports Tenable Core (and the installed product) in that situation. Tenable reserves the right to require that the additional software be removed in the future if it is impacting an issue you are having and requesting support for.

Can I upgrade the hardware version of my VM?

Yes, this should not affect Tenable Core.
What versions of VMware do Tenable Core support?

Tenable Core supports all currently supported versions of VMware software. We support VM hardware versions vmx-10, vmx-11, vmx-12, vmx-13, vmx-14, vmx-15, vmx-16, vmx-17, and vmx-18.

Why are updates installed through yum missing from the update history on the Software Updates page?

The history displayed on the updates page is determined by PackageKit and not yum directly. Updates installed with yum will not populate that page. Installing updates with pkcon, however, will populate that page. Usage should be the following:

```
pkcon install [package]
pkcon update
```

Why does Tenable Core include obsolete unsupported software (e.g., Python 2.7, Openssl 1.0.2k, etc.)?

Enterprise Linux distributions (like CentOS) freeze the versions of software they ship, then maintain the security of that software using backporting.

Does Tenable support X software that I installed on my Tenable Core instance?

You can install any software you wish on Tenable Core instances. Tenable does not support the additional software, but fully supports Tenable Core and the installed product in that situation. Tenable reserves the right to require that you remove the additional software if it is impacting an issue you are having, and requesting support for.

Do any services need to be enabled to allow access to cockpit (https://ip.address:8000)?

No. Cockpit is enabled by default and services start automatically on boot. Any messages regarding cockpit on system boot can be disregarded.
How do I reset my administrator password in Tenable Core?

The process to reset your password is in this Tenable Community Knowledge Article.