

Tenable Core + Tenable OT Security User Guide

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Welcome to Tenable Core + Tenable OT Security

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

To get started quickly with Tenable Core + Tenable OT Security, see Get Started.

Features

- Secure, stable platform.
- Provides automatic application installation and updates via Tenable public repositories.
- Built on CentOS 7.
- Targets Center for Internet Security (CIS) standards for CentOS 7 with SELinux enabled. For more information, see Default Security Configuration Standards.
- Root access enabled on 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 Security Center
- Tenable Core + Tenable Web App Scanning
- Tenable Core + Tenable OT Security Sensor

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.

Get Started

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

To get started with Tenable Core:

- 1. Confirm that your environment meets the requirements in <u>Tenable Core Requirements</u>. If necessary, prepare to increase your disk space after you deploy.
- 2. Deploy or install Tenable Core + Tenable OT Security.

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 Tenable OT Security User Guide.
- 4. (Optional) If Dynamic Host Configuration Protocol (DHCP) is not available on the network where you deployed Tenable Core, <u>configure an IP address</u> for your Tenable Core + Tenable OT Security deployment.
- 5. Log in as a wizard user and create an administrator account, as described in Create an Initial
 Administrator User 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 Tenable 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. <u>Configure Tenable OT Security in the Tenable OT Security User Interface</u> to meet the specifications you want for your application.



12. Configure and manage Tenable Core. To access the application interface, see <u>Configure and Manage</u>.

Tenable Core Requirements

You can deploy Tenable Core + Tenable OT Security on any system that meets the following Tenable Core and Tenable OT Security 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

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System and License Requirements

To install and run Tenable Core + Tenable OT Security, 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
Tenable-provided	hardware	.iso image	Install Tenable Core on Tenable-Provided Hardware Note: Tenable Core + Tenable OT Security requires Tenable-provided hardware. For more information, contact your Tenable representative.

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

Tenable OT Security 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.

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

For more information about requirements specifically for Tenable OT Security, see <u>Tenable</u> OT Security in the *General Requirements Guide*.

Tenable OT Security System Requirements

You can Install Tenable OT Security on a hypervisor¹ or directly on user-supplied hardware running Tenable Core.

Note: Tenable strongly discourages running Tenable Core + Tenable 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 Tenable 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 Tenable 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.

Note: Tenable OT Security needs to be able to perform full packet captures of monitored traffic², and the size of the policy event data stored by Tenable OT Security depends on the number of devices and the type of environment.

ICP System Requirement Guidelines (Virtual or Tenable Core)

Site Size	Maximum	CPU	Memory	Storage Require-	Network

¹Hypervisor must be officially supported by VMWare and known to work under Hyper-V, KVM.

²Multiply rate (Mbits/sec) * 2.7 to get storage (GB/day) - based on a compression factor of 0.25.

	SPAN/TAP Throughput (Mbps)	Cores ¹	(DDR4)	ments	Interfaces
Small	150 Mbps or less	4 x 2 GHz	12 GB RAM	128 GB	Minimum 4 x 1 Gbps
Medium	150-300 Mbps	8 x 2 GHz	16 GB RAM	512 GB	Minimum 4 x 1 Gbps
Large	300-600 Mbps	16 x 2 GHz	32 GB RAM	1 TB	Minimum 4 x 1 Gbps
XL	600 Mbps to 1 GB	32 x 3 GHz	64 GB RAM or more	2 TB or more	Minimum 4 x 1 Gbps

Disk Partition Requirements

Tenable OT Security uses the following mounted partitions:

Partition	Content	
1	operating system	
/opt	application and database files	
/var/pcap	packet captures (full packet capture, event, query)	

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

Tip: Deploying Tenable 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 Tenable 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 <u>Manually Configure a Static IP Address</u>, <u>Manage System Networking</u>, and the *VMware Documentation*.

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

Access Requirements

Your Tenable Core + Tenable OT Security deployment must meet the following requirements.

- Internet Requirements
- Port Requirements

Internet Requirements

You must have internet access to download Tenable Core files.

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

Environment		Tenable Core Format	Internet Requirement
Virtual Machine	VMware	.ova file	You do not need internet access to deploy or update Tenable Core.
Hardware		.iso image	Requires internet access to install or update Tenable Core.

Tip: You do not need access to the internet when you install updates to Tenable Core + Tenable OT Security 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. Tenable OT Security also requires application-specific port access. For more information, see the Tenable 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.

Port	Traffic
TCP 22	Inbound SSH connections.
TCP 443	Inbound communications to the Tenable OT Security interface.
TCP 8000	Inbound HTTPS communications to the Tenable Core interface.

Outbound Traffic

Allow outbound traffic to the following ports listed.

Port	Traffic
TCP 22	Outbound SSH connections, including remote storage connections.
TCP 443	Outbound communications to the sensor.cloud.tenable.com server for system updates.
UDP 53	Outbound DNS communications for Tenable OT Security and Tenable Core.

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 <u>cisecurity.org</u>.

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 =
 - 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'
 - 3.2.5 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 Fnsure DCCP is disabled
 - 3.5.2 Ensure SCTP is disabled
 - 3.5.3 Ensure RDS is disabled
 - 3.5.4 Fnsure 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 Icredit
 - 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_fail-lock.so authfail audit deny=5 unlock_time=900'
 - 5.3.2 Lockout for failed password attempts password-auth 'auth [success=1 default-t=bad] pam_unix.so'
 - 5.3.2 Lockout for failed password attempts password-auth 'auth required pam_fail-lock.so preauth audit silent deny=5 unlock_time=900'
 - 5.3.2 Lockout for failed password attempts password-auth 'auth sufficient pam_faillock.so authsucc audit deny=5 unlock_time=900'
 - 5.3.2 Lockout for failed password attempts system-auth 'auth [default=die] pam_fail-lock.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 authsucc 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 Tenable Core + Tenable OT Security 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.

Environment		Tenable Core File Format	More Information
Virtual Machine	VMware	.ova file	Deploy Tenable Core in VMware
Tenable-provided	hardware	.iso image	Install Tenable Core on Tenable-Provided Hardware Note: Tenable Core + Tenable OT Security requires Tenable-provided hardware. For more information, contact your Tenable representative.

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 Tenable Core + Tenable OT Security as a VMware virtual machine, you must download the Tenable Core + Tenable OT Security .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 <u>System and License Requirements</u>.
- Confirm your internet and port access will support your intended use of the instance, as described in <u>Access Requirements</u>.

VMware Version Support

VMware vCenter: Tenable supports versions 7 and 8. The SOAP API is supported on versions 7 and 8, and the REST API is supported on versions 7.0.3 and later.

VMware vSphere: Tenable supports versions 7 and 8. The SOAP API is supported on versions 7 and 8, and the REST API is not supported.

To deploy Tenable Core + Tenable OT Security as a VMware virtual machine:

- 1. Download the Tenable Core + Tenable OT Security .ova file.
- 2. Open your VMware virtual machine in the hypervisor.
- 3. Import the Tenable Core + Tenable OT Security VMware .ova file from your computer to your virtual machine. For information about how to import a .ova file to your virtual machine, see 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 Tenable Core + Tenable OT Security 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 Tenable Core + Tenable OT Security, as described in <u>Get Started</u>.

Install Tenable Core on Tenable-Provided Hardware

You can install Tenable Core + Tenable OT Security 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.

Note: Tenable Core + Tenable OT Security requires Tenable-provided hardware. For more information, contact your Tenable representative.

Before you begin:

- Confirm your environment will support your intended use of the instance, as described in <u>System and License Requirements</u>.
- 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 Tenable Core + Tenable OT Security on hardware:

- 1. Download the Tenable Core + Tenable OT Security .iso image.
- 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 Tenable OT Security serial console, see the Tenable OT Security User Guide.

The installer installs Tenable Core + Tenable OT Security on your hardware.

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

For Tenable Core deployments with EL7 operating systems:

The **Installation** menu appears if there are configuration errors.

If you need to resolve configuration errors [!] with your **4) Installation source** or **5) Software selection** settings, see Edit the Network Configuration or Edit the Proxy Configuration.

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

The installation runs and the server restarts.

Note: When installing on the Lenovo M90n-1 supported hardware platform, it is important that you connect the installer image to the right-most USB port on the side of the unit with the serial ports (location 10 in the following image):



• For Lenovo hardware: nic0 is port 1, nic1 is port 3

To watch the install on either unit, you need to select the **ttySO** console entry in the menu.

What to do next:

 Continue getting started with Tenable Core + Tenable OT Security, as described in <u>Get</u> 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 [!]:

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 \mathbf{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.

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 \mathbf{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.

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 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 <u>requirements</u>, add space to your machine by expanding an existing disk or adding a new disk. For general information about Tenable Core disk management, see <u>Disk Management</u>.

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:

- 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 **Filesystems** section, locate the file system with /opt as the **Mount Point** and note the file system **Name** (for example, /dev/vg0/00).

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 file system **Name** that includes your preferred partition as the **Mount**Point.

The **Volume Group** page appears.

8. In the **Physical Volumes** section, click the + button.

The Add Disks window appears.

- 9. Click the check box 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 **Logical Volumes** section, expand the section 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 <u>System and</u> License Requirements.

Before you begin:

- Deploy or install Tenable Core + Tenable OT Security, as described in <u>Deploy or Install Tenable</u>
 Core.
- Contact your network administrator and obtain your network's netmask and the IP address for your Tenable Core + Tenable OT Security 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.
- 9. Press Enter.
- 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 Tenable Core + Tenable OT Security deployment, followed by a forward slash and your netmask.

Example:

192.0.2.57

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 **<0K>**.

The list of connections appears.

- 20. Press **Tab** to select **<Ouit>**.
- 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:

\$ nmcli connection down "Wired connection 1" && nmcli connection up
"Wired connection 1"

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 <u>System and License</u> Requirements.

Create an Initial Administrator User Account

The first time you access Tenable Core + Tenable OT Security, 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 Tenable Core + Tenable OT Security, as described in <u>Deploy or Install Tenable</u>
 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
- One capital letter
- One lowercase letter
- One numeric digit (0-9)
- One special character (~\!@#\$\%^&*()+=_-{}[]\|:;""?/<>,.)

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 <u>Log In to Tenable Core</u>.
- (Optional) If you want to create another user account, see Create New User Account.

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

Log In to Tenable Core

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

Before you begin:

• Deploy Tenable Core + Tenable OT Security, 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. (EL7 deployments only) Select the Reuse my password for privileged tasks check box.

Note: You cannot configure or manage your instance of Tenable Core + Tenable OT Security if you do not select the **Reuse my password for privileged tasks** check box.

5. Click Log in.

Tenable Core logs you in to the user interface.

Configure Tenable OT Security in the Tenable OT Security User Interface

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

To access the Tenable OT Security interface from the Tenable Core interface:

Log in to Tenable Core via the user interface, as described in <u>Log In to Tenable Core</u>.
 The **System** page appears.

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

The **Tenable.ot** page appears.

3. If prompted, provide your Tenable 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 Tenable OT Security interface appears.

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

Configure and Manage

You can use the Tenable Core user interface to configure and manage Tenable Core + Tenable OT Security.

View the Dashboard

Add a Server

Edit a Server

Delete a Server

Synchronize Accounts

Manage the System

Change Performance Profile

Restart Tenable Core

Shut Down Tenable Core

Edit Your Tenable Core Hostname

Edit Your Time Settings

View the System Log

Filter the System Log

Generate a Diagnostic Report

View Container Status

View Tenable OT Security Logs

Manage System Networking

Add a Bonded Interface

Add a Team of Interfaces

Add a Bridge Network

Add a VLAN

Manage System Storage

Rename a Filesystem

Delete a Filesystem

Manage User Accounts

Create New User Account

Edit a User Account

Delete a User Account

Manage Services

Create a Timer

Access the Terminal

Configure a Proxy Server

Start, Stop, or Restart Your Application

Manage Updates

Configure Automatic Updates

Update On Demand

Update Tenable Core Offline

Manage Certificates

Manage the Server Certificate

SNMP Agent Configuration

Configure an SNMP Agent via the User Interface

Configure an SNMP Agent via the CLI

Take a Virtual Machine Snapshot

View the Dashboard

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

To view the Tenable Core dashboard:

- Log in to Tenable Core via the user interface, as described in <u>Log In to Tenable Core</u>.
 The **System** page appears.
- 2. Hover over the left navigation bar and click **Overview**.

The **Overview** page appears.

You can:

Section	Action
Data graphs	View a graph of the CPU usage on your instance.
	• View a graph of the Memory usage on your instance.
	View a graph of the Network bandwidth usage on your instance.
	• 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 <u>Add a Server</u> .
	• Edit a server, as described in <u>Edit a Server</u> .
	• Delete a server, as described in <u>Delete a Server</u> .
	Synchronize user accounts, as described in <u>Synchronize Accounts</u> .
	 To view detailed information about a server, click a server row. For more information, see <u>System</u>.

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 <u>Synchronize Accounts</u> 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 $\overline{\ \ }$ 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:

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**.

Manage the System

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

To manage the Tenable Core system:

Log in to Tenable Core via the user interface, as described in <u>Log In to Tenable Core</u>.
 The **System** page appears.

You can:

Section	Action
System details section	View summary information about your Tenable Core instance.
	 Change the performance profile for your instance, as described in <u>Change Performance Profile</u>.
	 Restart or shut down your instance, as described in <u>Restart Ten-able Core</u> and <u>Shut Down Tenable Core</u>.
	• Edit the hostname for your instance, as described in Edit Your Tenable Core Hostname .
	 Edit the time and time zone settings for your instance, as described in <u>Edit Your Time Settings</u>.
Data graphs	View a graph of the CPU usage on your instance.
	View a graph of the Memory & Swap usage on your instance.
	• View a graph of the Disk I/O bandwidth usage on your instance.
	 View a graph of the Network Traffic bandwidth usage on your instance.
	To change the time range for data displayed in the graphs:
	 In the top-right corner of the graph, click the drop-down box.
	2. Select a time range.

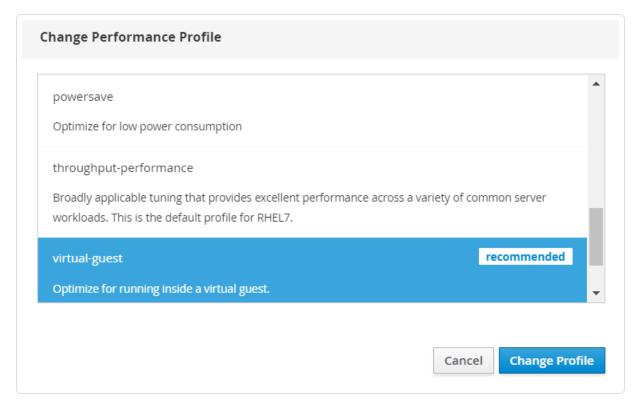


The system refreshes the graph.

Change Performance Profile

To change the performance profile for your Tenable Core instance:

- Log in to Tenable Core via the user interface, as described in <u>Log In to Tenable Core</u>.
 The **System** 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.



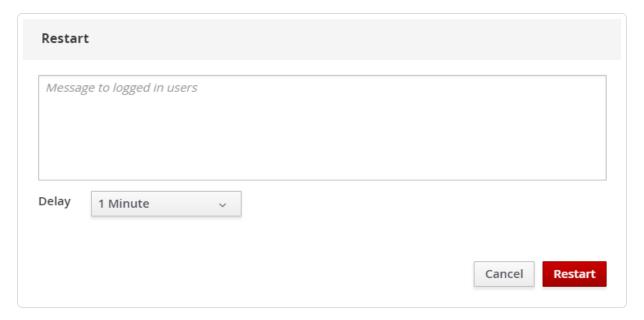
Restart Tenable Core

To restart your Tenable Core instance:

- Log in to Tenable Core via the user interface, as described in <u>Log In to Tenable Core</u>.
 The **System** page appears.
- 2. In the left navigation pane, click the **System** option.

The **System** page displays.

- Next to the **Power Options** item, 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:

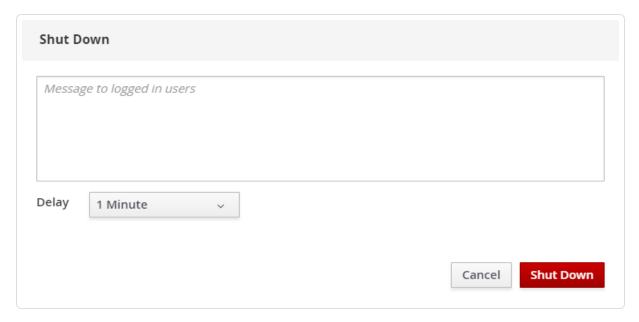
- Log in to Tenable Core via the user interface, as described in <u>Log In to Tenable Core</u>.
 The **System** page appears.
- 2. In the left navigation pane, click the **System** option.

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.



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 **System** 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.

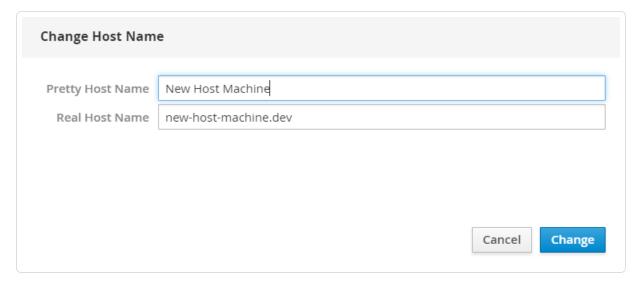
A new window appears with the options to enter or edit the **Pretty Host Name** and **Real Host Name**.

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.



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:

- Log in to Tenable Core via the user interface, as described in <u>Log In to Tenable Core</u>.
 The **System** page appears.
- 2. Access the Tenable OT Security interface, as described in <u>Configure Tenable OT Security in</u> the Tenable OT Security User Interface.:

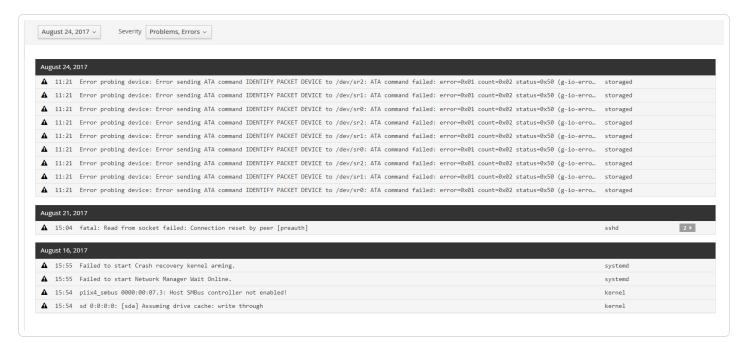
The Tenable OT Security interface appears.

- 3. Log in to Tenable OT Security.
- 4. Modify your system time settings as described in the Tenable OT Security User Guide.

Tenable Core + Tenable OT Security reboots.

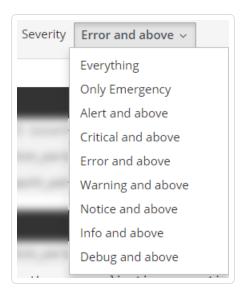
View the System Log

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. Click on an individual entry (row) to get additional information.

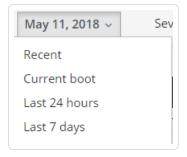


Filter the System Log

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:

- Log in to Tenable Core via the user interface, as described in <u>Log In to Tenable Core</u>.
 The **System** page appears.
- 2. In the left navigation bar, click **Diagnostic Reports**.

The **Diagnostic Reports** page appears.

- 3. Click the **Create Report** button.
- 4. A new window with a status bar appears as the report generates.
- 5. When the report is complete, the status displays **Done**.
- 6. Click the **Download Report** button to save and print the report.

View Container Status

After you deploy Tenable Core + Tenable OT Security, you can view container and image status information to troubleshoot issues with Tenable OT Security.

To view container status information:

- Log in to Tenable Core via the user interface, as described in <u>Log In to Tenable Core</u>.
 The **System** page appears.
- 2. In the left navigation bar, click **Containers**.

The **Containers** page appears.

3. View container status information:

Section	Action
Graphs	 View a graph of the combined CPU usage on your instance.
	 View a graph of the combined memory usage on your instance.
Containers table	Expand a row to view details for a container.
	Caution: Tenable does not recommend removing a container or modifying the status of a container unless recommended by Tenable Support.
Images table	Expand a row to view details for an image.
	Caution: Tenable does not recommend removing an image or modifying the status of an image unless recommended by Tenable Support.

View Tenable OT Security Logs

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

To view logs for Tenable OT Security:

- Log in to Tenable Core via the user interface, as described in <u>Log In to Tenable Core</u>.
 The **System** page appears.
- 2. In the left navigation bar, click **Tenable.ot**.

The **Tenable.ot** page appears.

- 3. In the **Tenable.ot Logs** section, click the drop-down box and select a log type:
 - **Tenable.ot Service** Logs related to issues with the Tenable OT Security service.
 - **Tenable.ot Installation** Logs related to issues during the Tenable Core + Tenable OT Security installation.

The section refreshes to show the logs.

4. (Optional) To filter the logs that appear, select a time range, a **Severity**, or a **Service**.

The page applies the selected filters.

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:

- Log in to Tenable Core via the user interface, as described in <u>Log In to Tenable Core</u>.
 The **System** page appears.
- 2. In the left navigation bar, click **Networking**.

The **Networking** page appears.

You can:

Section	Action
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.

Add a Bonded Interface

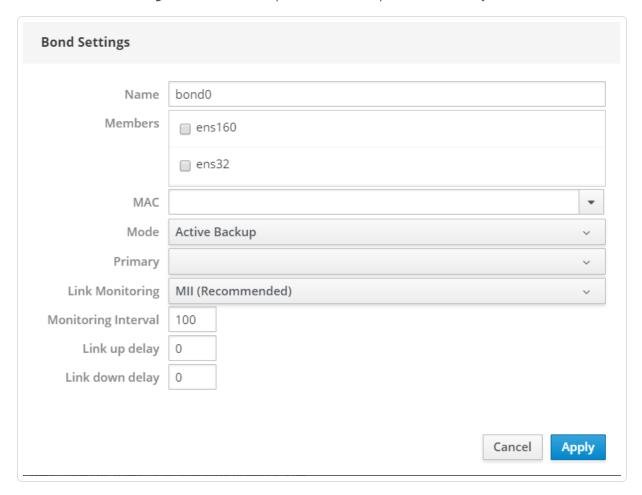
You can add a bond to aggregate multiple network interfaces into a single-bonded interface.

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.



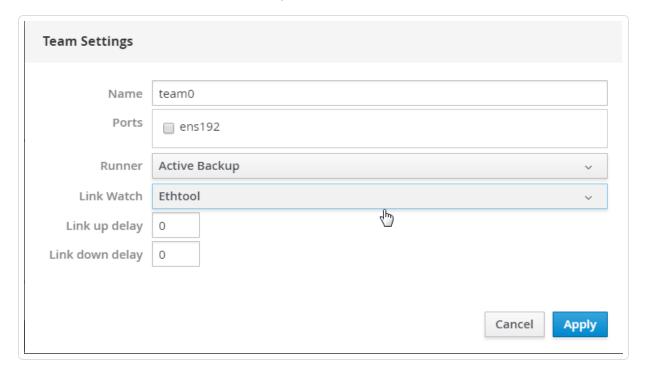
9. Enter the **Monitoring Intervals** with options to link up or down delay increments.



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.

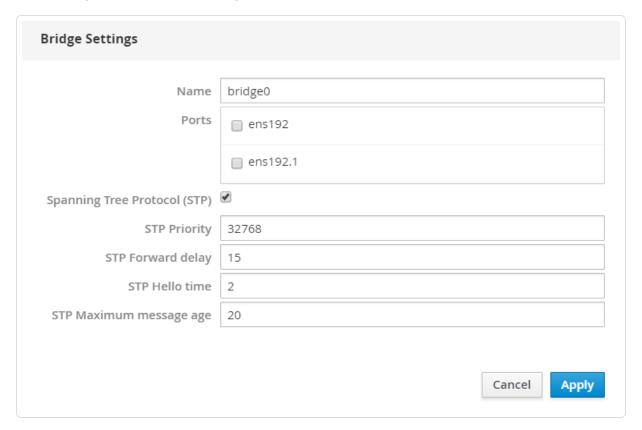


Add a Bridge Network

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.
- 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.



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.



Manage System Storage

You can use the **Storage** page to view real-time system storage graphs, filesystem information, and logs. For more information, see <u>Disk Management</u>.

To manage Tenable Core storage:

1. Log in to Tenable Core via the user interface, as described in <u>Log In to Tenable Core</u>.

The **System** page appears.

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

The **Storage** page appears.

You can:

Section	Action
Graphs	 View a graph of the Reading storage activity on your instance. View a graph of the Writing storage activity on your instance.
	view a graph of the witting storage activity on your instance.
Filesystems table	 View information about each filesystem.
	Click a row to view more details about the filesystem.
	• Rename a filesystem, as described in Rename a Filesystem.
	• Delete a filesystem, as described in <u>Delete a Filesystem</u> .

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**.

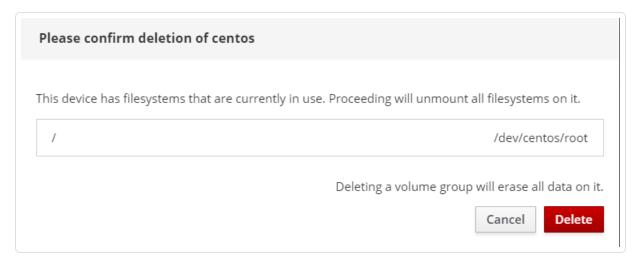
The new name appears on the page.

C

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**.



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

Manage User Accounts

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

To manage Tenable Core user accounts:

- Log in to Tenable Core via the user interface, as described in <u>Log In to Tenable Core</u>.
 The **System** 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
- One capital letter
- · One lowercase letter
- One numeric digit (0-9)
- One special character (~\!@#\$%^&*()+=_-{}[]\|:;""?/<>,.)
- 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 <u>Edit a User Account</u>.
- (Optional) If you want to delete the user account, see <u>Delete a User Account</u>.

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:

Section	Action
Full Name	Type a name for the user account.
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 indef-

initely, 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.

Password

- To set a new user account password:
 - 1. Click **Set Password**.

The **Set Password** window appears.

2. In the **New Password** box, type the password you want to use for the account.

Note: Your password must meet the following minimum

requirements:

- Minimum 14 characters long
- One capital letter
- One lowercase letter
- One numeric digit (0-9)
- One special character (~`!@#\$%^&*()+=_-{} []\\:;""?/<>,.)
- Cannot be a palindrome (i.e., a word or phrased spelled the same backward and forward)
- 3. Click Set.

Tenable Core updates the user account password.

- To force a user to change their user account password:
 - 1. Click Force Change.

The **Force password change** window appears.

2. Click Reset.

Tenable Core disables the password for the user account. The user must change the password on the next log in attempt.

 Configure the user account password to remain active indefinitely:

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.

- 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 delete the user account.

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 **System** page appears.

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

The **Services** page appears.

You can:

Tab	Action
Targets	1. 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.
System Ser- vices	View a list of system 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.



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

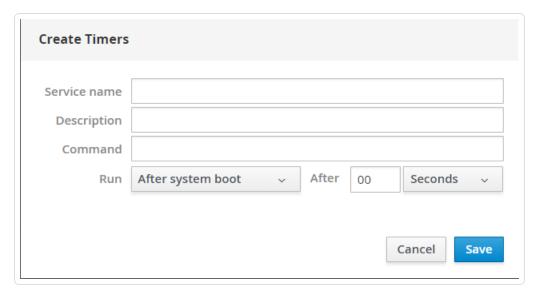
To create a timer:

- 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.

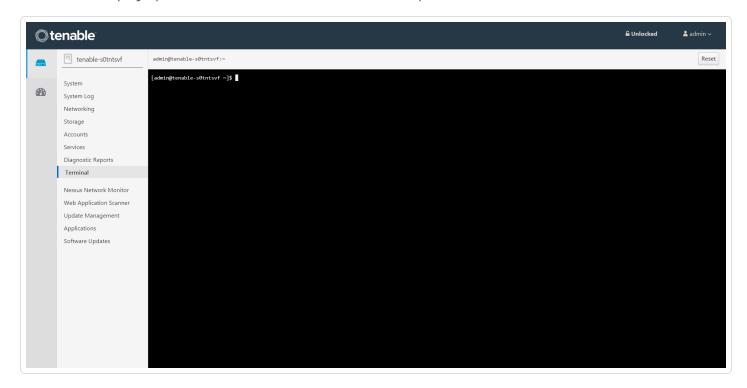
- 3. Enter the Service Name, Description, Command, and Run information.
- 4. Click Save.

The new timer displays in the enabled section of the list.



Access the Terminal

The **Terminal** page provides a console to access a user-specific command-line interface.



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 *host-name: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.

Start, Stop, or Restart Your Application

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

- Log in to Tenable Core via the user interface, as described in <u>Log In to Tenable Core</u>.
 The **System** page appears.
- 2. In the left navigation bar, click **Tenable.ot**.

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:

- 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 *Tenable OT Security Documentation*.

Manage Updates

You can use the **Updates Management** page to manage your Tenable Core updates.

If your deployment is online, Tenable recommends:

- Configuring automatic updates. For more information, see Configure Automatic Updates.
- 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 <u>Update</u> <u>Tenable Core Offline</u>.

Configure Automatic Updates

By default, Tenable Core has automatic updates enabled.

If you deploy Tenable Core in an online environment, Tenable recommends keeping automatic updates enabled. When performing an automatic update, Tenable Core retrieves and installs:

- The latest version of Tenable OT Security.
- 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.

Note: To update your Tenable OT Security application version, contact Tenable Support. You cannot use the Tenable Core interface to update Tenable OT Security.

Note: Automatic updates described here only apply to the Tenable Core operating system. For information on Tenable Security Center feed updates, see the Tenable Security Center user guide.

To configure automatic updates:

- Log in to Tenable Core via the user interface, as described in <u>Log In to Tenable Core</u>.
 The **System** page appears.
- 2. In the left navigation pane, click **Update Management**.

The **Update Management** page appears.

3. In the AUTOMATIC UPDATES section, click the Edit link in the Unit State row.

The **Services** details page appears, displaying the details for the **Scheduled System Updates** service.

- 4. Confirm that you have set **Unit State** to enabled (set to enabled by default).
- 5. Review the schedule for the automatic updates and modify, if needed, as described in <u>Configure Your Automatic Update Schedule</u>.

Configure Your Automatic Update Schedule

By default, Tenable Core has automatic updates set to enabled.

If you deploy Tenable Core in an online environment, Tenable recommends keeping automatic updates enabled.

To configure the schedule for your automatic updates:

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

The **System** page appears.

2. In the left navigation pane, click **Update Management**.

The **Update Management** page appears.

3. In the **AUTOMATIC UPDATES** section, click the link in **Timer Config Line**.

The **Edit Timer Configuration** window appears.

4. Modify the schedule.

Note: If you set both a **Day of week** and a **Day of month**, the system only performs updates on days when those two parameters are true. For example, if you set **Wednesday** as the **Day of week** and **8** as the **Day of month**, Tenable Core performs automatic updates only on the 8th of the month if it is a Wednesday.

Tip: Tenable Core uses Eastern Time as your default time zone, unless you modify it as described in Edit Your Time Settings.

5. Click Save.

Tenable Core modifies the schedule for automatic updates.

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 Tenable OT Security.
- 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.

Before you begin (Tenable Core deployments with EL7 operating systems):

- Configure for Update Checks:
 - 1. Navigate to the **Updates Management** page.
 - 2. Click **Configure** when this pop-up appears:



Confirmation of the upgrade success appears:



To update on demand (Tenable Core deployments with EL7 operating systems):

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

The **System** page appears.

2. In the left navigation pane, click **Software Updates**.

The **Software Updates** page appears.

3. Click Check for Updates.

The page refreshes and displays available updates.

4. If updates are available, click **Install all updates**.

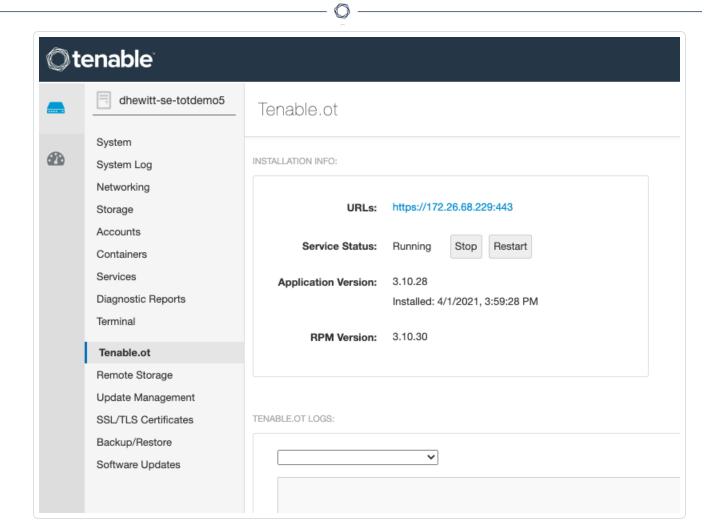
Tenable Core confirms the updates are successfully completed.

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

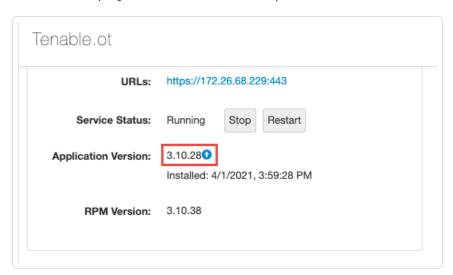
Note: All Tenable OT Security and Tenable OT Security Sensor upgrades are staged when you install all updates. The upgrade is not yet installed. Click on one of the Tenable OT Security tabs, then click the blue arrow next to **RPM Version**. (As outlined in the following procedure.)

In the left navigation pane, click the **Tenable OT Security** tab or the **Sensor** tab for Tenable OT Security Sensor.

The installation information page appears.



2. Refresh the page to show the latest update available.



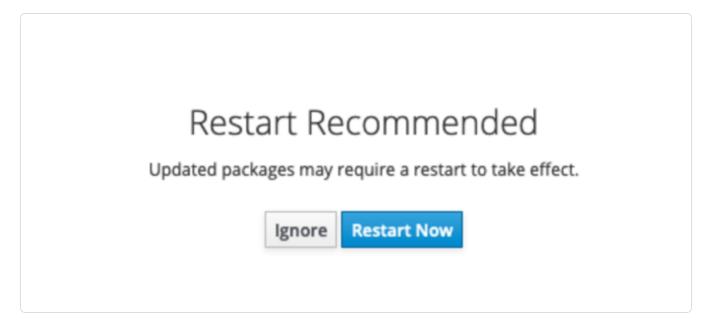
3. Click the blue arrow next to the application version to install the update.

Note: The Tenable OT Security user interface may be unavailable during an upgrade.



What to do next (Tenable Core deployments with EL7 operating systems):

- 1. If the update included any of the following packages, restart Tenable Core as described in Restart Tenable Core.
 - kernel
 - glibc
 - linux-firmware
 - systemd
- 2. After manually updating, a pop-up screen appears directing you to restart:



3. Restart your system.

Update Tenable Core Offline

Tenable recommends applying all offline updates, in order, to your offline Tenable Core machine. Do not skip offline updates.

For information about the contents of individual offline update files, see the <u>Tenable Core Release</u> Notes.

Note: Service pack (SP) updates to Tenable 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.

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. Rename the offline update .iso file as tenable-offline-updates.iso.
- 4. Upload the file via scp. For example:

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

Note: The target line may vary; however, the destination must be the following path: /srv/tenablecore/offlineiso/tenable-offline-updates.iso

After the upload, updates apply automatically at the configured time. You can also install updates manually.

Note: Once you upload the .iso file, no further action is needed. However, you can make subsequent updates by replacing the existing .iso file if desired.

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 interface.

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

Note: The default certificate is not signed by a recognized certificate authority (CA). If your browser reports that the Tenable Core server certificate is untrusted, Tenable recommends uploading a custom server certificate signed by a trusted certificate authority (CA) for Tenable Core use. For more information, see <u>Upload a Custom Server Certificate</u>. 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.

Tip: By default, Tenable Core uses the same certificates for Tenable Core as well as Tenable OT Security.

Before you begin:

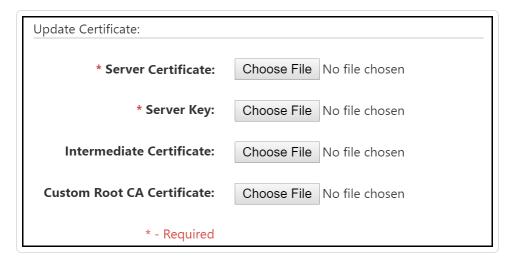
- Confirm your custom server certificate and key files use the *.der, *.pem, or *.crt extension.
- Move the custom server certificate and key files to a location accessible from your browser.

To upload a custom server certificate for Tenable Core:

- Log in to Tenable Core via the user interface, as described in <u>Log In to Tenable Core</u>.
 The **System** 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.



- 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.

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 <u>Manage Services</u>.

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 Man-

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 <u>Log In to Tenable Core</u>.

The **System** page appears.

age the Server Certificate.

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.

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 <u>Manage Services</u>.

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:

- Log in to Tenable Core via the user interface, as described in <u>Log In to Tenable Core</u>.
 The **System** 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.

Option	Description
Contact	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.
Location	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.



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:

Option	Description
read-only access community name	Specifies the read-only community string for the SNMPv2c NMS.
read-write access community name	Specifies the read-write community string for the SNMPv2c NMS.

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:

Option	Description
Read-only Hash algorithm	Specifies the read-only hash algorithm for the SNMPv3 NMS.
Read-only access user- name	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:

Option	Description
Read-write Hash algorithm	Specifies the read-write hash algorithm for the SNMPv3 NMS that you want to grant read-write access on Tenable Core.
Read-write access username	Specifies the username and password for an account on the SNMPv3 NMS.
Read-write access user pass- word	

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.

Take a Virtual Machine Snapshot

You can take a snapshot to back up your entire machine, including application-installed files, application data, OS files, and configurations.

Before you begin:

• Stop your instance of Tenable Core + Tenable OT Security, as described in <u>Start, Stop and</u> Restart Tenable Core.

To take a snapshot of Tenable Core:

1. Take a snapshot, as described in the documentation for your environment.

C

FAQ

When are Tenable Core offline update ISOs released?

Tenable Core releases offline updates throughout the year on a quarterly basis, within two 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 <u>downloads page</u> 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.

How can I disable or reenable automatic updates?

Automatic update configuration is in Tenable Core <u>documentation</u>.

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?

Tenable Core bases off of CentOS 7 and support ends when RHEL 7 support officially ends.

Why is Tenable Security Center down every morning?

Tenable Core shuts down Tenable Security Center if you have automatic updates enabled while detecting an updated version. If the update fails for any reason, or stalls because a service is not stopping, Tenable Security Center remains down pending user intervention. Automatic backups can also shut down Tenable Security Center, and if a problem occurs, it may not properly restart.

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.

How do I reset my administrator password in Tenable Core?

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