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Welcome to Tenable Core + Tenable Nessus Network Monitor

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

To get started quickly with Tenable Core + Tenable Nessus Network Monitor, 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 + Tenable OT Security
- Tenable Core + Tenable OT Security Sensor
- 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 Tenable Core + Tenable Nessus Network Monitor.

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** Tenable Core + Tenable Nessus Network Monitor.

   **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 the Dynamic Host Configuration Protocol (DHCP) is not available on the network where you deployed Tenable Core, **configure an IP address** for your Tenable Core + Tenable Nessus Network Monitor deployment.

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

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

6. (Optional) If you want to create more user accounts, see Create New User Account.

7. (Optional) If you want to configure Tenable Core to use a proxy server, see Configure a Proxy Server.

8. **Configure Tenable Nessus Network Monitor** to meet the specifications you want for your application.

   For more information about configuring and operating Tenable Nessus Network Monitor, see the Nessus Network Monitor User Guide.

9. 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 Tenable Core + Tenable Nessus Network Monitor on any system that meets the following Tenable Core and Tenable Nessus Network Monitor 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](#):

### Tenable Core + Nessus (OL8)

<table>
<thead>
<tr>
<th>Product Notes</th>
<th>Tenable Core Nessus VMware Image</th>
<th>1.47 GB</th>
<th>Apr 9, 2024</th>
<th>Checksum</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>OVA Specifications:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>CPU: 4</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Memory: 8192 MB</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Disk: 94 GB</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Product Notes</th>
<th>Tenable Core Nessus HyperV Image</th>
<th>2.56 GB</th>
<th>Apr 8, 2024</th>
<th>Checksum</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tenable-Core-OL8-Nessus-20240409.zip</td>
<td></td>
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</table>

<table>
<thead>
<tr>
<th>Product Notes</th>
<th>Tenable Core Nessus Installation ISO</th>
<th>958 MB</th>
<th>Jun 3, 2024</th>
<th>Checksum</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tenable-Core-OL8-Nessus-20240604.iso</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**System and License Requirements**

To install and run Tenable Core + Tenable Nessus Network Monitor, your application and system must meet the following requirements established for Tenable Nessus Network Monitor. For more
information about Tenable Nessus Network Monitor requirements, see Tenable Nessus Network Monitor in the General Requirements User Guide.

**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></td>
<td></td>
<td><a href="#">Deploy Tenable Core in VMware</a></td>
</tr>
<tr>
<td></td>
<td>Microsoft Hyper-V</td>
<td>.zip file</td>
</tr>
<tr>
<td></td>
<td></td>
<td><a href="#">Deploy Tenable Core in Hyper-V</a></td>
</tr>
<tr>
<td>Hardware</td>
<td>.iso image</td>
<td><a href="#">Install Tenable Core on Hardware</a></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.

**License Requirements**

To deploy Tenable Core + Tenable Nessus Network Monitor, your Tenable Nessus Network Monitor application must meet the requirements described in NNM Licensing Requirements in the General Requirements User Guide.

**Tenable Nessus Network Monitor Hardware 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.

Enterprise networks can vary in performance, capacity, protocols, and overall activity. Resource requirements to consider for Tenable Nessus Network Monitor deployments include raw network speed, the size of the network being monitored, and the configuration of Tenable Nessus Network Monitor.

The following chart outlines some basic hardware requirements for operating Tenable Nessus Network Monitor:
<table>
<thead>
<tr>
<th>Version</th>
<th>Installation scenario</th>
<th>RAM</th>
<th>Processor</th>
<th>Hard Disk</th>
</tr>
</thead>
<tbody>
<tr>
<td>All Versions</td>
<td>Tenable Nessus Network Monitor managing up to 50,000 hosts * (**)&lt;br&gt; Tenable Nessus Network Monitor managing more than 50,000 hosts **&lt;br&gt; Tenable Nessus Network Monitor running in High Performance mode</td>
<td>2 GB RAM (4 GB RAM recommended)&lt;br&gt; 4 GB RAM (8 GB RAM recommended)&lt;br&gt; 16 GB RAM (HugePages memory: 2 GB)</td>
<td>2 2GHz cores&lt;br&gt; 4 2GHz cores&lt;br&gt; 10 2GHz cores with hyper-threading enabled</td>
<td>20 GB HDD minimum&lt;br&gt; 20 GB HDD minimum&lt;br&gt; 20 GB HDD minimum</td>
</tr>
</tbody>
</table>

*The ability to monitor a given number of hosts depends on the bandwidth, memory, and processing power available to the system running Tenable Nessus Network Monitor.

**For optimal data collection, Tenable Nessus Network Monitor must be connected to the network segment via a hub, spanned port, or network tap to have a full, continuous view of network traffic.

**Note:** Research your VM software vendor for comparative recommendations, as VMs typically see up to a 30% loss in efficiency compared to dedicated servers. Tenable Nessus Network Monitor supports VMware's vmxnet3 driver.

**High Performance Mode**

To run Tenable Nessus Network Monitor in High Performance mode, a minimum of two of the following types of Intel NICs are required; one as a management interface and at least one as a monitoring interface:
• e1000 (82540, 82545, 82546)
• e1000e (82571, 82574, 82583, ICH8.ICH10, PCH.PCH2)
• igb (82575, 82576, 82580, I210, I211, I350, I354, DH89xx)
• ixgbe (82598, 82599, X540, X550)
• i40e (X710, XL710)
• NT40A01-4x1

Access Requirements

Your Tenable Core + Tenable Nessus Network Monitor 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.

| Environment       | Tenable Core Format | Internet Requirement                                           |
|-------------------|---------------------|-----------------------------------------------------------------
| Virtual Machine   | VMware .ova file    | You do not need internet access to deploy or update Tenable Core. |
|                   | Microsoft Hyper-V .zip file |                                               |
| 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 Nessus Network Monitor 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.

Inbound Traffic

Allow inbound traffic to the following ports listed.

<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>
<tr>
<td>TCP 8834</td>
<td>Inbound communications to the Tenable Core + Tenable Nessus interface.</td>
</tr>
<tr>
<td>TCP 8835</td>
<td>Inbound communications to the Tenable Core + Tenable Nessus Network Monitor interface.</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 Tenable Nessus Network Monitor 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.

**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
- 17 -

- 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 authsuc 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
    authsuc 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 Nessus Network Monitor in the following environments.

<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></td>
<td></td>
<td><a href="#">Deploy Tenable Core in VMware</a></td>
</tr>
<tr>
<td></td>
<td>Microsoft Hyper-V</td>
<td>.zip file</td>
</tr>
<tr>
<td></td>
<td></td>
<td><a href="#">Deploy Tenable Core in Hyper-V</a></td>
</tr>
<tr>
<td>Hardware</td>
<td></td>
<td>.iso image</td>
</tr>
<tr>
<td></td>
<td></td>
<td><a href="#">Install Tenable Core on Hardware</a></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.

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

To deploy Tenable Core + Tenable Nessus Network Monitor as a VMware virtual machine, you must download the Tenable Core + Tenable Nessus Network Monitor .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 Tenable Core + Tenable Nessus Network Monitor as a VMware virtual machine:

1. Download the Tenable Core NNM VMware Image file from the Tenable Downloads page.
2. Open your VMware virtual machine in the hypervisor.
3. Import the Tenable Core + Tenable Nessus Network Monitor 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 Tenable Core + Tenable Nessus Network Monitor instance.

The virtual machine boot process appears in a terminal window.

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

When the virtual machine boot process finishes, the Tenable Core + Tenable Nessus Network Monitor deployment is complete.

What to do next:
• Continue getting started with Tenable Core + Tenable Nessus Network Monitor, as described in Get Started.

Deploy Tenable Core in Hyper-V

To deploy Tenable Core + Tenable Nessus Network Monitor as a Microsoft Hyper-V virtual machine, you must download the Tenable Core + Tenable Nessus Network Monitor .zip file and deploy it on the host where you want to launch Tenable Core + Tenable Nessus Network Monitor.

**Note:** After you download the .zip file, you can use an external storage device to deploy it on another machine. You do not need internet access on the machine hosting Tenable Core.

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.

To deploy Tenable Core + Tenable Nessus Network Monitor as a Hyper-V virtual machine:

1. Download the Tenable Core NNM HyperV Image file from the Tenable Downloads page.

2. Navigate to your Hyper-V Manager on the machine where you want to deploy Tenable Core + Tenable Nessus Network Monitor.

3. Extract the .zip file you previously downloaded. Extracting may take a few minutes.

4. In your Hyper-V Manager, create a new virtual machine.

   The Hyper-V Manager wizard appears.

5. In the setup wizard, adjust the virtual machine configurations to meet your organization's storage needs, and the requirements described in System and License Requirements.

**Note:** Tenable recommends that you select Generation 1 when the Hyper-V Manager wizard prompts you during the configuration.
6. When prompted to Connect to a Virtual Hard Disk in the wizard, select **Use an existing virtual hard disk**.

7. Click **Browse** and select the `.vhd` file.

8. Click **Finish**.

   The Hyper-V setup completes.

9. (Optional) If you want to increase the number of CPUs on your virtual machine:
   a. In the **Virtual Machines** table, right-click the row for your machine and click **Settings**.
      The settings window appears.
   b. In the **Hardware** section, click **Processor**.
   c. Modify the settings as necessary.
   d. Click **Ok**.

10. In the **Virtual Machines** table, right-click the row for your machine and click **Start** or **Connect**.

    The virtual machine load process appears in a console. The load process may take several minutes to complete.

What to do next:

- Continue getting started with Tenable Core + Tenable Nessus Network Monitor, as described in [Get Started](#).

## Install Tenable Core on Hardware

You can install Tenable Core + Tenable Nessus Network Monitor directly on 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.

To install Tenable Core + Tenable Nessus Network Monitor on hardware:

1. Download the Tenable Core NNM 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.

   The installer installs Tenable Core + Tenable Nessus Network Monitor 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 Tenable Core + Tenable Nessus Network Monitor, 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 [!]:

    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
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
- /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 Tenable Core + Tenable Nessus Network Monitor, as described in Deploy or Install Tenable Core.
- Contact your network administrator and obtain your network's netmask and the IP address for your Tenable Core + Tenable Nessus Network Monitor 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 Nessus Network Monitor 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:
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:

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

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

---

**Create an Initial Administrator User Account**

The first time you access Tenable Core + Tenable Nessus Network Monitor, 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 Nessus Network Monitor, 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.

Log In to Tenable Core

Log in to Tenable Core to configure and manage your Tenable Core + Tenable Nessus Network Monitor instance in the Tenable Core interface.

Before you begin:

• Deploy Tenable Core + Tenable Nessus Network Monitor, 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
Configure Tenable Nessus Network Monitor in the Tenable Nessus Network Monitor User Interface

1. Click on the **URL** in the Tenable Nessus Network Monitor Installation Info Card.

2. Enter the default username and password, which are both **admin**.

3. Click **Sign In to Continue**.

4. The **Change Default Password** screen of the **Quick Setup** window appears, where you can change the default password. The new password must meet the following minimum requirements:

   - Minimum 5 characters long
   - One capital letter
   - One lowercase letter
   - One numeric digit
   - One special character from the following list: !@#$%^&*()

5. Click **Next Step**. The **Set Activation Code** screen appears.
6. Enter an **Activation Code**.

7. Click **Next Step**. The **Monitoring Configuration Screen Appears**.
• The **Monitored Network Interfaces** box displays the monitored interfaces identified by Tenable Nessus Network Monitor. You can select one or more of the defined interfaces. The caret icon displays additional information about each interface.

• The **Monitored Network IP Addresses and Ranges** box displays the IP address ranges Tenable Nessus Network Monitor monitors.

• The **Excluded Network IP Addresses and Ranges** box displays the IP address ranges Tenable Nessus Network Monitor does not monitor.

• The **Monitored Network IP Addresses and Ranges** and **Excluded Network IP Addresses and Ranges** boxes accept both IPv4 and IPv6 CIDR address definitions. Separate the entries using commas or new lines when using multiple addresses.

8. Click **Finish**.

The **Monitoring** page appears. Once Tenable Nessus Network Monitor starts monitoring traffic, the page displays various high-level charts about the vulnerabilities, assets, connections, and bandwidth usage that Tenable Nessus Network Monitor has detected, and real-time events that Tenable Nessus Network Monitor has triggered.
Note: See the Nessus Network Monitor User Guide for additional information.
Configure Tenable Core

You can use the Tenable Core user interface to configure Tenable Core + Tenable Nessus Network Monitor.

**Configure Tenable Nessus Network Monitor in Tenable Core**

- Configure a Proxy Server
- Start, Stop, or Restart Your Application
- Manage Certificates

**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
- Generate a Diagnostic Report

**Access the Terminal**

---

**Configure Tenable Nessus Network Monitor in Tenable Core**

Tenable Tenable Nessus Network Monitor (Tenable Nessus Network Monitor) is a network discovery and vulnerability analysis software solution, delivering real-time network profiling and monitoring for continuous assessment of an organization’s security posture in a non-intrusive manner. The Tenable Nessus Network Monitor monitors network traffic at the packet layer to determine topology, services, and vulnerabilities. Where an active scanner takes a snapshot of the network in time, the Tenable Nessus Network Monitor behaves like a security motion detector on the network.
Activate and configure the Tenable Nessus Network Monitor application to make the system manageable via a browser, or used by Tenable Security Center or Tenable Vulnerability Management.

![Nessus Network Monitor](image)

**Installation Info**

The Tenable Nessus Network Monitor Installation Info section provides information for the Tenable Nessus Network Monitor application. Users can view the URLs, Service Status, License, Application version, and Binary version.

**Webserver Authentication**

The Web Server Authentication section controls the configuration of the SSL Client Certificate authentication permissions. The two options are **password** or **SSL Client Certificate**. This setting controls the option available for users to log into the Tenable Nessus Network Monitor server via password authentication or SSL client certificate.
• The **SSL Client Certificate** option configures the Tenable Nessus Network Monitor web server to accept only connections from browsers that present a valid SSL client certificate. The web server rejects other connection attempts, with the exact message displayed dependent on the browser in use.

• The **password** option configures the server to ignore any SSL client certificates but allows the browser connection. This is the default setting and works with most browsers without issue.

### Tenable Nessus Network Monitor Logs

The Tenable Nessus Network Monitor Logs section contains four different log types: Application log, Webserver log, PASL log, and Realtime log

1. Click on the drop-down menu to view the different logs.

2. After making your selection, click **view log**.

### 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.

### 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.

![System Log Screenshot]

#### 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.

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 Nessus Network Monitor.
   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, select your operating system in Command Line Operations in the Tenable Nessus Network Monitor User Guide.

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

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 the same certificates for Tenable Core as well as Tenable Nessus Network Monitor. To use a different server certificate for Tenable Nessus Network Monitor, see Use Different Certificates for Tenable Core and Your Application.

**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.

**Tip:** By default, Tenable Core uses the same certificates for Tenable Core as well as Tenable Nessus Network Monitor. To use a different server certificate for your application, see [Use Different Certificates for Tenable Core and Your Application](#).

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.

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.

Upload a Certificate for a Trusted Certificate Authority

You can upload a trusted certificate authority (CA) certificate for any of the following purposes:

- You want to use certificate authentication for user accounts on Tenable Nessus Network Monitor.

You do not need to upload a trusted CA certificate for any other reasons. You can upload any number of trusted CA certificates to Tenable Core.
Note: By default, Tenable Core uses the same certificates for Tenable Core as well as Tenable Nessus Network Monitor. To decouple the certificates used for your Tenable Core system and your application, see Use Different Certificates for Tenable Core and Your Application.

If you decouple the certificates, Tenable Core disregards the custom CA certificate configuration on the System Certificate tab. Tenable Core does not use custom CA certificates for reasons other than the application use.

To view details about an existing certificate, click to expand the Filename section for a certificate. To remove an existing certificate, select the certificate and click the Delete button.

Before you begin:

- Confirm the trusted CA certificate is in .der, .pem, or .crt format.
- Move the trusted CA certificate to a location accessible from your Tenable Core server.

Upload a trusted CA 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 TRUSTED CERTIFICATE AUTHORITIES section, in the Add Certificate Authority section, next to Certificate, click Choose File.
The upload window appears.

5. Browse to and select the certificate file.
   
   Tenable Core uploads the certificate file.

6. Click **Install Certificate Authority**.
   
   A success message appears to confirm the upload succeeded.

Use Different Certificates for Tenable Core and Your Application

By default, Tenable Core uses the same certificates for Tenable Core as well as Tenable Nessus Network Monitor. If needed, you can decouple your system and application certificates and customize them independently.

Before you begin:

- Upload a custom server certificate for Tenable Core, as described in [Upload a Custom Server Certificate](#).

To decouple and customize your application certificates:

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 application tab.
   The application tab appears.

   The application tab refreshes to display the settings in edit mode.

5. Remain on the application tab and configure the settings for your application-specific server certificate, as described in Upload a Custom Server Certificate.

6. Remain on the application tab and configure the settings for one or more custom certificate authority (CA) certificate, as described in Upload a Certificate for a Trusted Certificate Authority.

   Note: If you upload a custom CA certificate on the application tab, Tenable Core disregards the custom CA certificate configuration on the System Certificate tab. Tenable Core does not use custom CA certificates for reasons other than the application use described in Upload a Certificate for a Trusted Certificate Authority.

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>
<tbody>
<tr>
<td>Read-only Hash algorithm</td>
<td>Specifies the read-only hash algorithm for the SNMPv3 NMS.</td>
</tr>
<tr>
<td>Read-only access username</td>
<td>Specifies the username and password for an account on the SNMPv3 NMS.</td>
</tr>
<tr>
<td>Read-only access user password</td>
<td></td>
</tr>
</tbody>
</table>

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>
<tr>
<td></td>
<td>• View a graph of the Disk I/O bandwidth usage on your instance.</td>
</tr>
<tr>
<td></td>
<td>• To change the time range for data displayed in the graph:</td>
</tr>
<tr>
<td></td>
<td>1. In the top-right corner of the graph, click the drop-down box.</td>
</tr>
<tr>
<td></td>
<td>2. Select a time range. The system refreshes the graph.</td>
</tr>
<tr>
<td>Servers table</td>
<td>• Add a server, as described in Add a Server.</td>
</tr>
<tr>
<td></td>
<td>• Edit a server, as described in Edit a Server.</td>
</tr>
<tr>
<td></td>
<td>• Delete a server, as described in Delete a Server.</td>
</tr>
<tr>
<td></td>
<td>• Synchronize user accounts, as described in Synchronize Accounts.</td>
</tr>
<tr>
<td></td>
<td>• To view detailed information about a server, click a server row. For more information, see System.</td>
</tr>
</tbody>
</table>

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**.

**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.

**Access the Terminal**

The **Terminal** page provides a console to access a user-specific command-line interface.
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 <strong>Model</strong>.</td>
</tr>
<tr>
<td></td>
<td>• View the <strong>Asset tag</strong> of your system.</td>
</tr>
<tr>
<td></td>
<td>• View the <strong>Machine ID</strong> of your system</td>
</tr>
<tr>
<td></td>
<td>• View the <strong>Uptime</strong> 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 <strong>CPU</strong> usage on your instance.</td>
</tr>
<tr>
<td></td>
<td>• View a graph of the <strong>Memory</strong> 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 <strong>System time</strong>.</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 Reading storage activity on your instance.</td>
</tr>
<tr>
<td></td>
<td>• View a graph of the Writing storage activity on your instance.</td>
</tr>
<tr>
<td><strong>Filesystems table</strong></td>
<td>• View information about each filesystem.</td>
</tr>
<tr>
<td></td>
<td>• Click a row to view more details about the filesystem.</td>
</tr>
<tr>
<td></td>
<td>• Rename a filesystem, as described in Rename a Filesystem.</td>
</tr>
<tr>
<td></td>
<td>• Delete a filesystem, as described in Delete a Filesystem.</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**.

---

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

You can use the Updates Management page to manage your Tenable Core and application 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 Update Tenable Core Offline.

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 Nessus Network Monitor.
- 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 configure automatic updates:

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 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 Configure Your Automatic Update Schedule.

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 Tenable Core web user interface 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 Nessus Network Monitor.

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 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.

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 rebooting 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:

4. Click one of the following buttons:

- **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 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.

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 Tenable Nessus Network Monitor application service. You cannot use Tenable Core during this time. After the backup or restore completes, your services restart and Tenable Nessus Network Monitor 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 Tenable Nessus Network Monitor application service. You cannot use Tenable Core during this time. After the backup or restore completes, your services restart and Tenable Nessus Network Monitor 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:
### Frequency Configuration

<table>
<thead>
<tr>
<th>Frequency</th>
<th>Configuration</th>
</tr>
</thead>
</table>
| Daily         | • In the **Day of Week** and **Day of Month** boxes, type an asterisk (*).  
• In the **Hour** box, type the hour when you want Tenable Core to perform a backup as an integer between 0 and 23.  
• In the **Minute** box, type the minute when you want Tenable Core to perform a backup as an integer between 0 and 59. |
| Weekly        | • 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*).  
• In the **Day of Month** box, type an asterisk (*).  
• 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. |
| Monthly       | • In the **Day of Week** box, type an asterisk (*).  
• In the **Day of Month** box, type the day of the month when you want 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 Tenable Nessus Network Monitor application service. You cannot use Tenable Core during this time. After the backup or restore completes, your services restart and Tenable Nessus Network Monitor resumes normal function.

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 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>
</tbody>
</table>
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.
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.

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.

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| • View Firewall rules. |
section

- 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 Table]

### 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.

```
<table>
<thead>
<tr>
<th>Team Settings</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name: team0</td>
</tr>
<tr>
<td>Ports: ens192</td>
</tr>
<tr>
<td>Runner: Active Backup</td>
</tr>
<tr>
<td>Link Watch: Ethtool</td>
</tr>
<tr>
<td>Link up delay: 0</td>
</tr>
<tr>
<td>Link down delay: 0</td>
</tr>
</tbody>
</table>
```

### 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.

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](image)

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

   **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>
</tbody>
</table>
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 login 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.

**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 dialog box](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**

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

3. Next to **System time**, click the link.
   
   The **Change System Time** window appears.

4. In the **Time Zone** drop-down box, select your time zone.

   **Tip:** Type the first few letters of the desired time zone to filter the list.

5. In the **Set Time** drop-down box, select your preferred method for time synchronization.

   **Tip:** By default, Tenable Core is set to **Automatically using NTP**.

6. Click **Change**.

   Tenable Core saves the change.
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.