



SevOne NMS Installation Guide

29 February 2024
IBM SevOne NPM Version 6.8.0
Document Version 6.8.0.0

Table of Contents

1 About	2
1.1 Create Support Account	2
1.2 Multi-Peer and Hot Standby Appliance Implementations	2
2 Hardware Requirements	3
3 Appliance Network Configuration	4
4 OS-Level User Names And Passwords	13
4.1 Change Admin Password	13
4.2 Change Root Password	13
4.3 Change Support Password	13
5 Enable Firewall	15
5.1 at Cluster-level	15
5.2 at Peer-level	15
6 Shut Down And Reboot SevOne NMS	16

SevOne Documentation

All documentation is available from the [IBM SevOne Support customer portal](#).

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1 About

The SevOne NMS software is loaded on your appliance. If you provide the IP address of the appliance to your SevOne Sales Engineer this has been entered for you.

This document describes what you must do to get the appliance up and running from the moment you open the box until you are ready to log on to the application. Please refer to *SevOne NMS Implementation Guide* for how to log on, how to build a SevOne cluster, and how to begin your SevOne implementation.

Terminology usage...

In this guide if there is,

- [any reference to *master*] OR
- [[if a CLI command contains *master*] AND/OR
- [its output contains *master*]],
it means *leader*.

And, if there is any reference to *slave*, it means *follower*.

1.1 Create Support Account

To create a user account to enable **SevOne Support** engineers to provide support services, go to <https://www.ibm.com/mysupport/>. Or, contact SevOne Support via [phone](#).

1. In the address field on your web browser enter <https://www.ibm.com/mysupport/> and press **Enter**.
2. In the **Create New Account** section enter the following information.
 - Your Full Name
 - Email Address
 - Phone Number
 - Company
3. Click **Create Account**.
4. Your account is created instantly. **SevOne Support** reviews the account validity within the next business day for account activation.

1.2 Multi-Peer and Hot Standby Appliance Implementations

The Cluster Manager provides an Integration tab to enable you to build your cluster and to add new appliances as peers into an existing cluster. Please refer to *SevOne NMS Implementation Guide* for details.

When your new appliance is a Hot Standby Appliance, perform the steps in chapter 2 to rack up and define the Configuration Menu settings then contact **SevOne Support** to ensure that the Hot Standby Appliance is appropriately implemented.

2 Hardware Requirements

Recommendation

In a cluster that contains mixed sized appliances, the largest hardware capacity appliance should be the Cluster Leader. There is RAM overhead exerted on the Cluster Leader based on its additional responsibilities. Due to this, SevOne strongly advises you to implement this recommendation.

 The average disk **Input / Output Operations Per Second (IOPS)** requirement for all appliance types is **19,000KBs**. The minimum NIC speed is **1Gbps or higher**. RAID controller requires *legacy boot (non-UEFI)* with 512 byte block size in RAID6 (recommended).

IMPORTANT

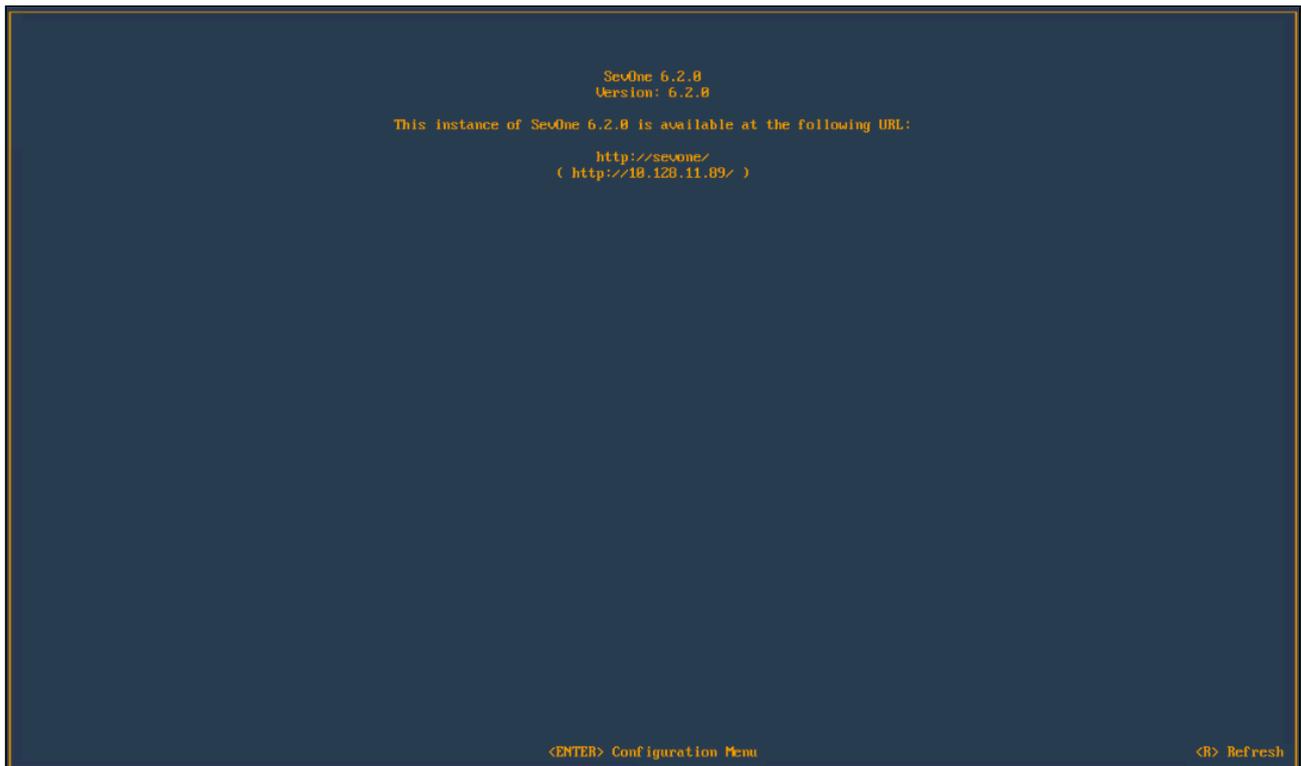
SevOne NMS 6.8.0 and above allows user to bring their own hardware for physical deployments. The minimum resource requirements in the table below must be met based on the appliance model being deployed. The hardware must be compatible with **Red Hat Enterprise Linux (RHEL) 8**.

Name/Spec	CPU Type	CPU Count	Total Cores	RAM (GB)	Disk Type
PAS5K	8 Core @ 2.10Ghz	2	16	32	5x 480GB SSD 2.5"
PAS10k	8 Core @ 2.10Ghz	2	16	32	5x 480GB SSD 2.5"
PAS20k	8 Core @ 2.10Ghz	2	16	32	5x 480GB SSD 2.5"
PAS40K	10 Core @2.20Ghz	2	20	96	5x 960GB SSD 2.5"
PAS60K	10 Core @2.20Ghz	2	20	96	5x 960GB SSD 2.5"
PAS300K	12 Core @2.6Ghz	2	24	288	8x 1.92TB SSD 2.5"
DNC400	10 Core @2.20Ghz	2	20	96	5x 960GB SSD 2.5"
DNC1000	12 Core @ 2.30Ghz	2	24	96	8x 480GB SSD 2.5"
DNC1500HF	12 Core @ 2.30Ghz	2	24	128GB	6x 1.92TB SSD 2.5"

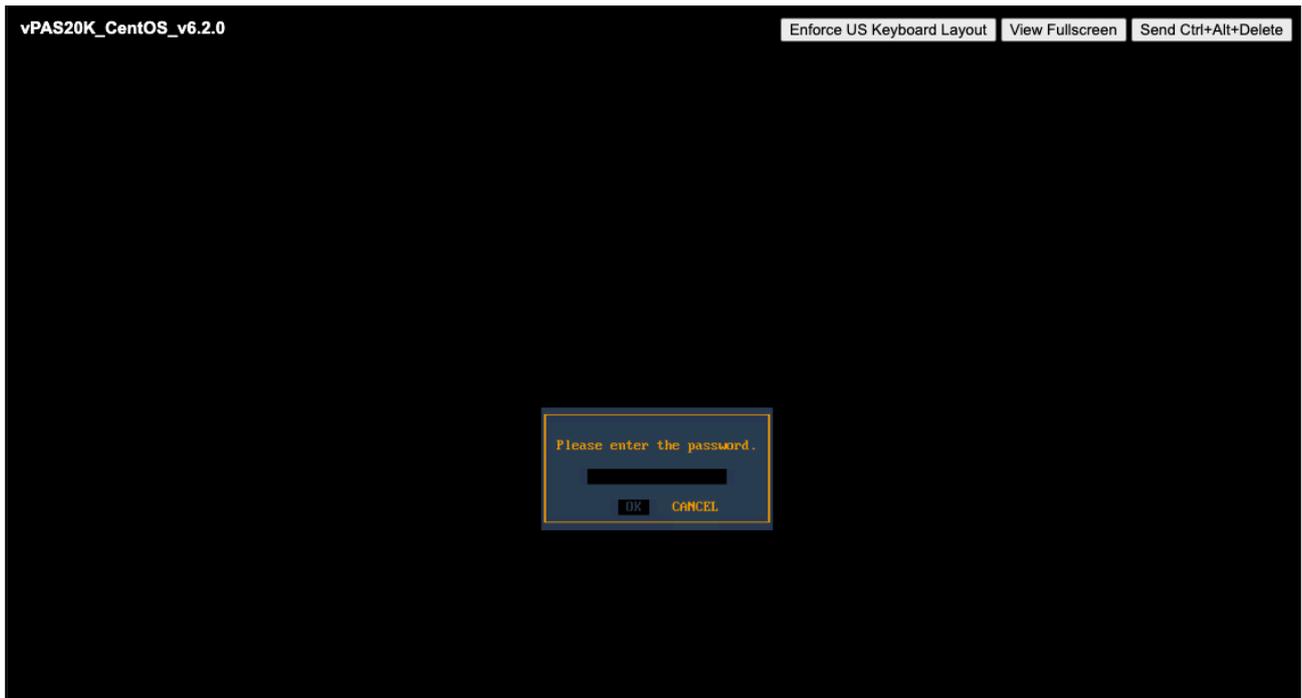
3 Appliance Network Configuration

The "SevOne NMS Version ... Configuration Menu" enables you to enter your company's network settings onto the appliance. You need the following information:

- System Name (Host Name)
- Host IP address and sub-netmask
- Broadcast address
- Default Gateway IP address
- DNS primary & secondary IP address
- NTP (Time Server) IP address
- SNMP Settings
- Domain Name



On the first page, press **Enter** to display the logon page that controls access to the Configuration Menu.

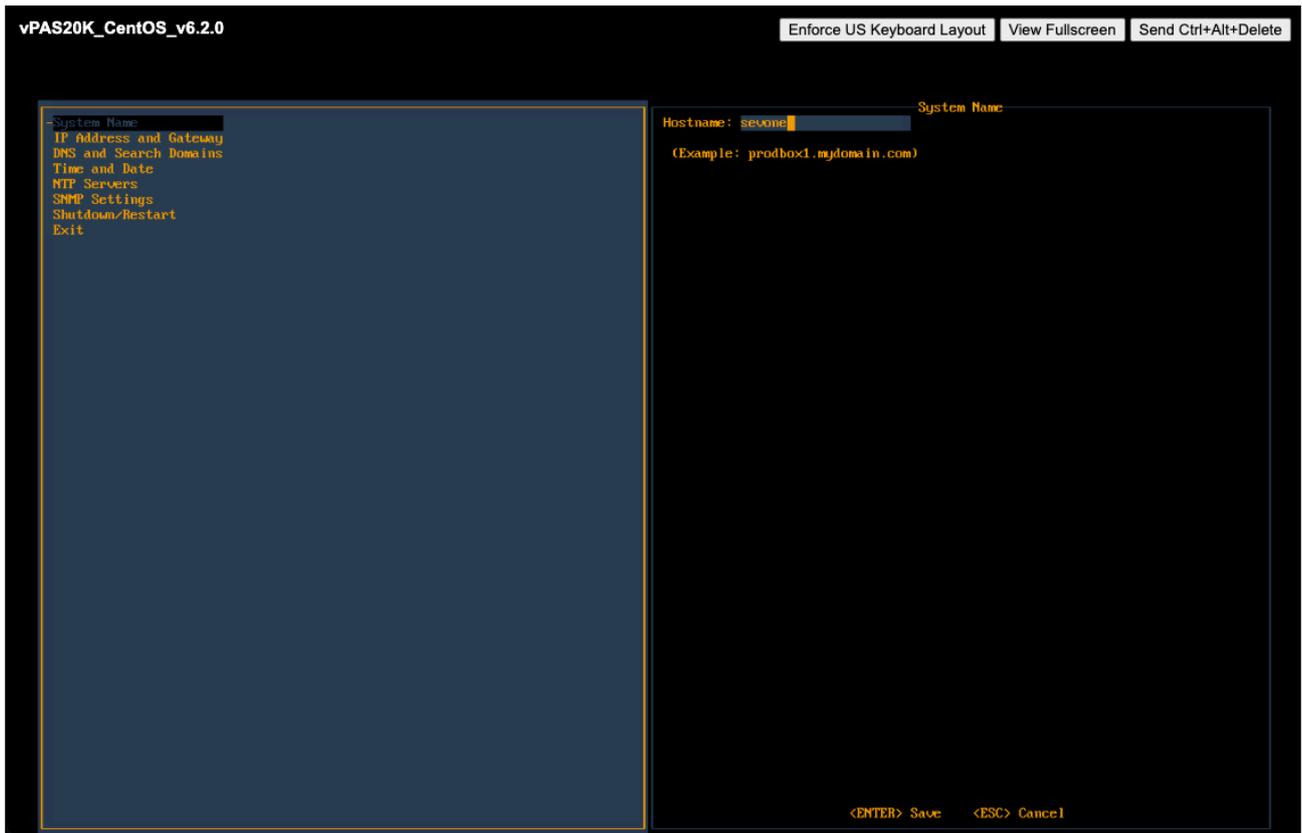


1. Enter the default password, **supportuser**.

 When you log in here for the first time, you are logging as the user **support**. Steps for changing the default password for the **support** user are in the *OS-level User Names and Passwords* section. It is important that you change the default password.
Failure to change the default password presents a significant security risk.

2. Press **Enter** to display the system configuration menu.

Press the down arrow to select **System Name** in the left menu and press **Enter** to display the System Name fields on the right.



1. In the **Hostname** field, enter the hostname for the SevOne NMS appliance.
2. Press **Enter** to save the System Name settings and return the focus to the menu on the left.

Press the down arrow to select **IP Address and Gateway** and press **Enter** to display the IP address and gateway fields on the right.



If your network uses DHCP, type **Y** to disable the following fields and skip the IP Address and Gateway steps. If your network does not use DHCP, type **N** and complete the following fields.

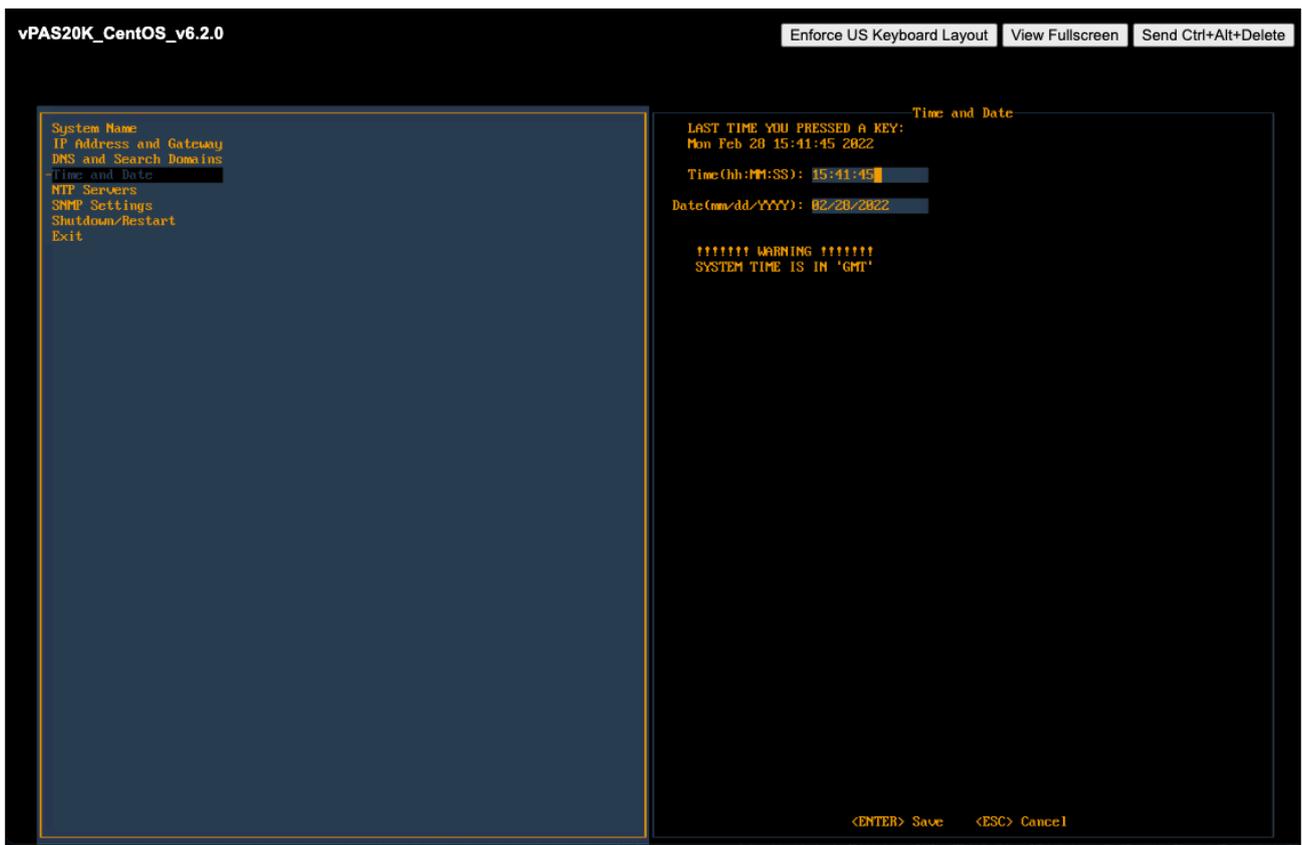
1. In the **IP Address** field, enter IP address of the SevOne NMS appliance and press **Tab**.
2. In the **Netmask** field, enter the netmask of the SevOne NMS appliance and press **Tab**.
3. In the **Gateway** field, enter the IP address of the SevOne NMS appliance and press **Tab**.
4. In the **Broadcast** field, enter the SevOne NMS broadcast IP address.
5. Press **Enter** to save the IP Address and Gateway settings and return the focus to the menu on the left.

Press the down arrow to select **DNS and Search Domains** and press **Enter** to display the DNS and Search Domains fields on the right.



1. In the **Primary DNS** field, enter the IP address of the DNS server for SevOne NMS to use first and press **Tab**.
2. In the **Secondary DNS** field, enter the IP address for SevOne NMS to use second, if applicable and press **Tab**.
3. In the **Tertiary DNS** field, enter the IP address of the DNS server for SevOne NMS to use third, if applicable and press **Tab**.
4. In the **Search Domains** field, enter the domain names or IP addresses for the search domains for SevOne NMS to use (separated by a space).
5. Press **Enter** to save the DNS and Search Domains settings and return the focus to the menu on the left.

Press the down arrow to select **Time and Date** and press **Enter** to display the Time and Date fields on the right.



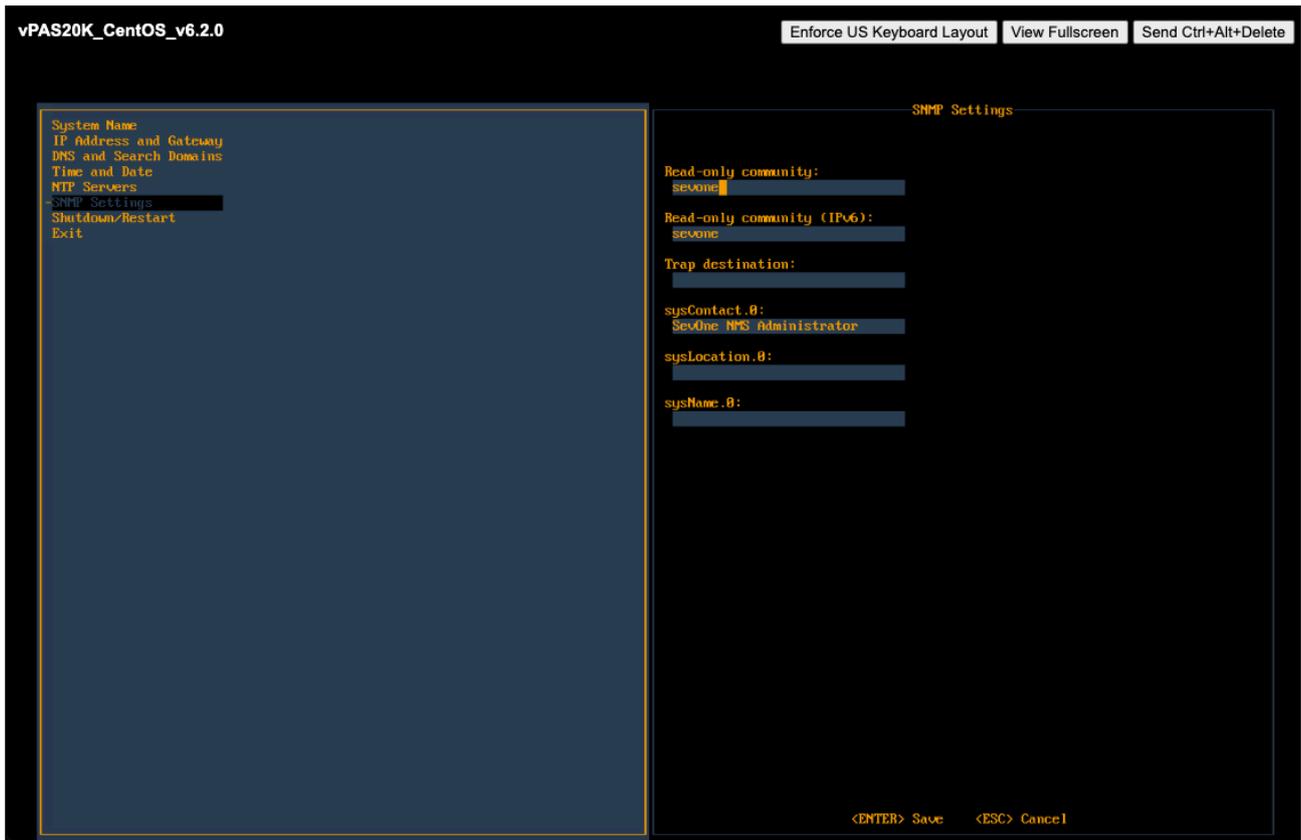
1. Confirm that the time and date are correct for Greenwich Mean Time (GMT) (a.k.a. Coordinated Universal Time (UTC)). This is the SevOne NMS system time. You define time and date settings for users, devices, and reports via the SevOne NMS GUI in a later step.
2. If needed, enter the time and date using the appropriate format in the fields provided.
3. Press **Enter** to save the Time and Date settings and to return the focus to the menu on the left.

Press the down arrow to select **NTP Servers** and press **Enter** to display the NTP Servers fields on the right.



1. In the **Servers** field, enter the DNS name or IP address of the time server for SevOne NMS to use to maintain time settings.
2. Press **Enter** to save the NTP Servers settings and to return the focus to the menu on the left.

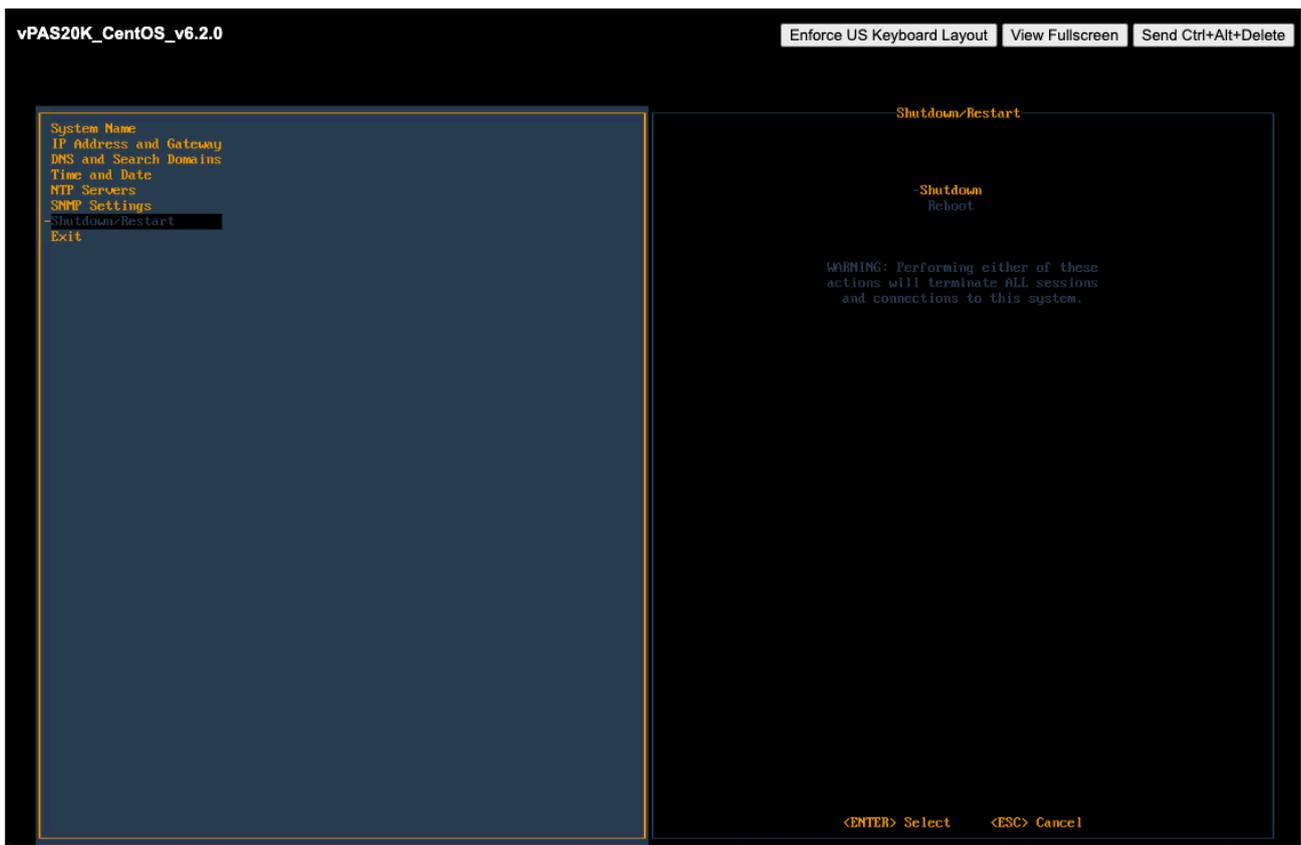
Press the down arrow to select **SNMP Settings** and press **Enter** to display the SNMP Settings fields on the right.



1. In the **Read Only Community** field, enter the SNMP read community string for other devices to use to poll SNMP data on this appliance when communicating via IPv4 and press **Tab**.
2. In the **Read Only Community (IPv6)** field, enter the SNMP read community string for other devices to use to poll SNMP data on this appliance when communicating via IPv6 and press **Tab**.
3. In the **Trap Destination** field, enter the IP address or hostname of the destination where traps this appliance generates are to be sent and press **Tab**.
4. In the **sysContact.0** field, enter the text you get when you SNMP walk the sysContact OID and press **Tab**.
5. In the **sysLocation.0** field, enter the text you get when you SNMP walk the sysLocation OID and press **Tab**.
6. In the **sysName.0** field, enter the text you get when you SNMP walk the sysName OID.
7. Press **Enter** to save the SNMP Servers settings and to return the focus to the menu on the left.

If you changed the System Name settings or the IP Address and Gateway settings, press the down arrow to select **Shutdown and Restart** and press **Enter** to display a Shutdown option and a Reboot option on the right.

For all other configuration setting changes, you can press the down arrow to select **Exit**.



In the Shutdown/Restart section select an option and press **Enter** to shut down or reboot the SevOne NMS appliance.

If you select **Exit**, when you press **Enter** the initial Configuration Menu Welcome page appears.

You can now disconnect the monitor, disconnect keyboard, and install the SevOne faceplate/bezel.

i Once you have gained access to the appliance and the appliance is part of the cluster, use **SevOne-change-ip** scripts instead of **configshell** to change the configuration of the appliance.

i For details on advanced Network Configurations such as configuring Virtual IP (CentOS) or peer communication over NAT, please refer to *SevOne NMS Advanced Network Configuration Guide* for details.

4 OS-level User Names and Passwords

You will need to change the default passwords for the **admin**, **root**, and **support** user accounts. This is important for security reasons.

Failure to change the default passwords presents a significant security risk. This publication includes default passwords and this document has probably been made available to the public.

4.1 Change Admin Password

The **admin** user is not used by any SevOne utilities. It exists for administrators/customers. This password should be changed on all peers. Perform the following steps to change the password for **admin**.

1. SSH into your SevOne NMS appliance and log in as **admin**.
2. At the **Password** prompt, enter **adminuser**.

```
login as: admin
Using keyboard-interactive authentication.
Password:
Using keyboard-interactive authentication.
You are required to change your password immediately (root enforced)
Changing password for admin.
(current) UNIX password: █
```

3. You will be prompted and required to change the **admin** user password. Enter a new password when prompted.
4. Exit the session when you are done.

4.2 Change Root Password

Change Root Password Before Peering

You must change the **root** password for new appliances when you SSH into the system. You will be prompted for the default password and will be required to change the password. This must be completed before incorporating the new peer into a cluster. Security concerns prevent incorporation of peers that use the default password.

SevOne NMS uses the **root** account for everything. This password should be changed on all peers. Perform the following steps to change the password for **root**.

1. SSH into your SevOne NMS appliance and log in as **root**.
2. At the **Password** prompt, enter **dRum&5853**.

```
login as: root
Using keyboard-interactive authentication.
Password:
Using keyboard-interactive authentication.
You are required to change your password immediately (root enforced)
Changing password for root.
(current) UNIX password: █
```

3. You will be prompted and required to change the **root** user password. Enter a new password when prompted.
4. Exit the session when you are done.

4.3 Change Support Password

The **support** user is used by configshell. Configshell does not store the password for this account anywhere. You will need the password you specify here when logging in to configshell. This password should be changed on all peers. Perform the following steps to change the password for **support**.

1. SSH into your SevOne NMS appliance and log in as **support**.

2. At the **Password** prompt, enter **supportuser**.

```
login as: support
Using keyboard-interactive authentication.
Password:
Using keyboard-interactive authentication.
You are required to change your password immediately (root enforced)
Changing password for support.
(current) UNIX password: █
```

3. You will be prompted and required to change the **support** user password. Enter a new password when prompted.
4. Exit the session when you are done.

Change IP Address, Configure Network Bonding

For details on how to change the IP address on a SevOne appliance or how to configure networking bonding, please refer to the respective sections in *SevOne NMS Advanced Network Configuration Guide*.

5 Enable Firewall

Firewall can be enabled / disabled at cluster-level or on a selected peer.

5.1 at Cluster-level

By default, firewall service is *disabled* for the cluster. Please refer to *SevOne NMS System Administration Guide*> section **Cluster Manager**> **Cluster Settings** tab > **Firewall** subtab for details.

5.2 at Peer-level

By default, **Override Cluster Settings** is disabled. To override cluster-level firewall settings with firewall settings at the selected peer-level, enable **Override Cluster Settings**. Once **Override Cluster Settings** field is enabled, field **Enable Firewall** becomes available. By default, **Enable Firewall** is disabled. Please refer to *SevOne NMS System Administration Guide*> section **Cluster Manager**> select a peer > click **Peer Settings** tab > **Firewall** subtab for details.

6 Shut Down and Reboot SevOne NMS

SevOne NMS can run for extended periods of time. Occasionally it is necessary to shutdown or reboot an appliance. SevOne NMS stores data in cache and writes to the disk on a regular basis. The following shell commands back up the memory ring tables to the database on the disk to ensure that you do not lose data.

- To shutdown SevOne NMS.

```
$ SevOne-shutdown shutdown
```

- To reboot SevOne NMS.

```
$ SevOne-shutdown reboot
```