



FortiSIEM - 500F Collector Configuration Guide

Version 6.1.2



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FortiSIEM 6.1.2 500F Collector Configuration Guide

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Appliance Setup

This document describes how to setup the FSM-500F appliance.

- · Fresh Installation
- · Factory Reset
- · Upgrading FortiSIEM Collector
- Appliance Re-image

Fresh Installation

- Step 1: Rack mount the FSM-500F Appliance
- Step 2: Power On the FSM-500F Appliance
- Step 3: Verify System Information
- · Step 4: Configure FortiSIEM via GUI
- Step 5: Register Collectors
- Step 6: Using FortiSIEM

Step 1: Rack mount the FSM-500F Appliance

- 1. Follow FortiSIEM 500F QuickStart Guide to mount FSM-500F into rack.
- 2. Connect FSM-500F to the network by connecting an Ethernet cable to Port1.



Before proceeding to the next step, connecting Ethernet cable to Port1 is required for Network configuration.

Step 2: Power On the FSM-500F Appliance

- 1. Make sure the FSM-500F device is connected to a Power outlet and an Ethernet cable is connected to Port1.
- 2. Power On the FSM-500F device.

Step 3: Verify System Information

- 1. Connect to the FSM-500F appliance using VGA port or Console port.
- 2. Login as user root with password ProspectHills.
- 3. You will be asked to change your password. Once you change the password, you will be logged out. Login again with your new password.



Note this password—you will need it in a later step.

- 4. Run get to check the available FortiSIEM commands.
- **5.** Use the below commands to check the hardware information. After running each command, ensure that there are no errors in the displayed output.

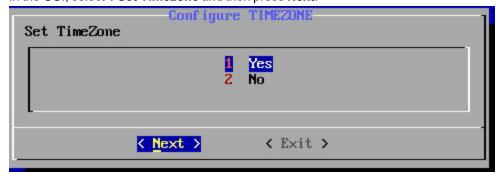
| Command | Description |
|---------------------------------|--|
| get system status | Displays system name, version and serial number. |
| diagnose hardware info | Displays system hardware information like CPUs, Memory and RAID information. |
| diagnose interface detail port0 | Displays interface status. |

Step 4: Configure FortiSIEM via GUI

- 1. Log in as user root with the password you set in Step 3 above.
- 2. At the command prompt, go to /usr/local/bin and enter configFSM.sh, for example: # configFSM.sh

A simple GUI will open.

3. In the GUI, select 1 Set Timezone and then press Next.



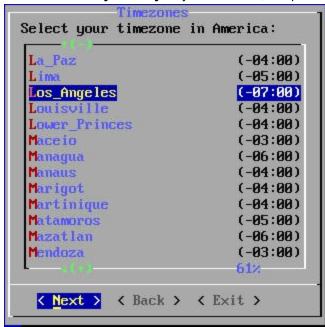
4. Select your **Region**, and press **Next**.



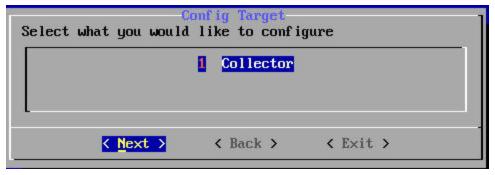
5. Select your **Country**, and press **Next**.



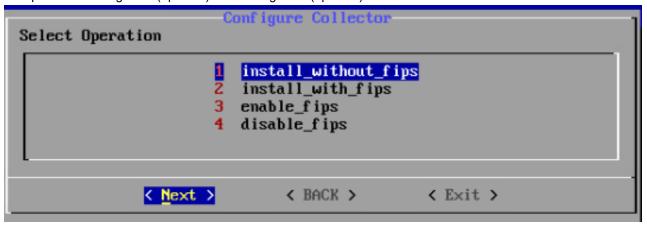
6. Select the Country and City for your timezone, and press Next.



7. Select 1 Collector. Press Next.



8. If you want to enable FIPS, then choose **2 install_with_fips**. Otherwise, choose **1 install_without_fips**. You have the option of enabling FIPS (option **3**) or disabling FIPS (option **4**) later.

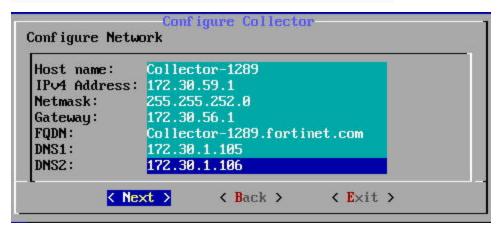


 When prompted, enter the information for these network components to configure the Static IP address: IP Address, Netmask, Gateway, DNS Server(s). Configure the network by entering the following fields.
 Press Next.

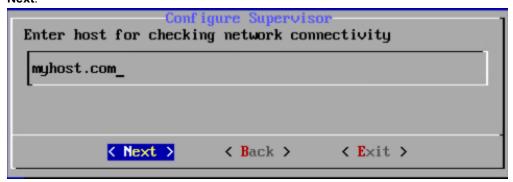


Note the IP Address—you will need it in a later step.

| Option | Description |
|--------------|--|
| Host Name | Collector's host name |
| IPv4 Address | The Collector's IPv4 address |
| NetMask | The Collector's subnet |
| Gateway | Network gateway address |
| FQDN | Fully-qualified domain name |
| DNS1, DNS2 | Addresses of DNS server 1 and DNS server 2 |



10. Test network connectivity by entering a host name that can be resolved by your DNS Server (entered in the previous step) and responds to ping. The host can either be an internal host or a public domain host like google.com. For the migration to complete, the system still needs https connectivity to FortiSIEM OS update servers: os-pkgs-cdn.fortisiem.fortinet.com and os-pkgs-c8.fortisiem.fortinet.com. Press Next.



11. The final configuration confirmation is displayed. Verify that the parameters are correct. If they are not, then press **Back** to return to previous dialog boxes to correct any errors. If everything is OK, then press **Run**.



The options are described in the following table.

| Option | Description |
|--------------|--|
| -r | The FortiSIEM component being configured |
| -Z | The time zone being configured |
| -i | IPv4-formatted address |
| -m | Address of the subnet mask |
| -g | Address of the gateway server used |
| host | Host name |
| -f | FQDN address: fully-qualified domain name |
| -t | The IP type. The values can be either 4 (for ipv4) or 6 (for v6) Note: the 6 value is not currently supported. |
| dns1,dns2 | Addresses of the DNS server 1 and DNS server 2. |
| -0 | Installation option. |
| -Z | Time zone. Examples of possible values are US/Pacific, Asia/Shanghai, Europe/London, or Africa/Tunis |
| testpinghost | The URL used to test connectivity |

Once the configuration is complete, the system reboots automatically.

Step 5: Register Collectors

Collectors can be deployed in Enterprise or Service Provider environments.

- Enterprise Deployments
- Service Provider Deployments

Enterprise Deployments

For enterprise deployments, follow these steps:

- 1. Log in to Supervisor with **Admin** privileges.
- 2. Go to ADMIN > Settings > System > Event Worker.
 - a. Enter the IP of the Worker node. If a Supervisor node is only used, then enter the IP of the Supervisor node. Multiple IP addresses can be entered on separate lines. In this case, the Collectors will load balance the upload of events to the listed Event Workers.

Note: Rather than using IP addresses, a DNS name is recommended. The reasoning is, should the IP addressing change, it becomes a matter of updating the DNS rather than modifying the Event Worker IP addresses in FortiSIEM.

- b. Click OK.
- 3. Go to ADMIN > Setup > Collectors and add a Collector by entering:
 - a. Name Collector name.
 - **b. Guaranteed EPS** This is the EPS that the Collector will always be able to send. It could send more if there is excess EPS available.
 - c. Start Time and End Time set to Unlimited.
- 4. SSH to the Collector and run following script to register Collectors:

The password should be enclosed in single quotes to ensure that any non-alphanumeric characters are escaped.

- a. Set user and password using the admin user name and password for the Supervisor.
- b. Set Super IP or Host as the Supervisor's IP address.
- **c.** Set Organization. For Enterprise deployments, the default name is Super.
- d. Set CollectorName from Step 2a.

The Collector will reboot during the Registration.

5. Go to ADMIN > Health > Collector Health to see the Collector status.



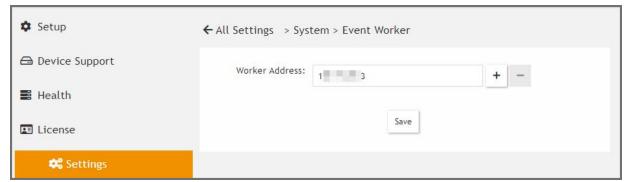
Service Provider Deployments

For Service Provider deployments, follow these steps.

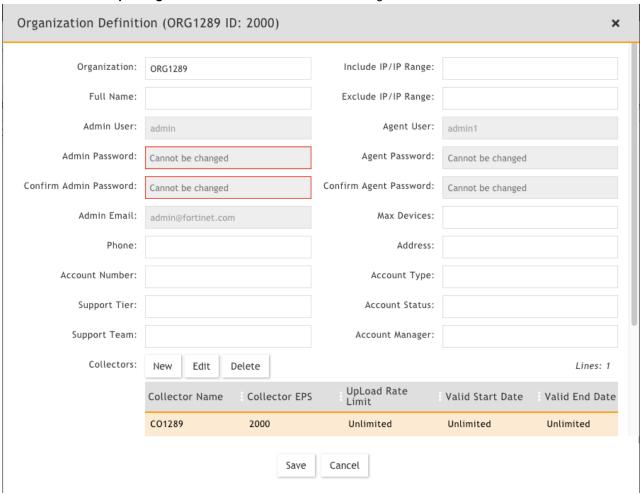
- 1. Log in to Supervisor with Admin privileges.
- 2. Go to ADMIN > Settings > System > Event Worker.
 - a. Enter the IP of the Worker node. If a Supervisor node is only used, then enter the IP of the Supervisor node. Multiple IP addresses can be entered on separate lines. In this case, the Collectors will load balance the upload of events to the listed Event Workers.

Note: Rather than using IP addresses, a DNS name is recommended. The reasoning is, should the IP addressing change, it becomes a matter of updating the DNS rather than modifying the Event Worker IP addresses in FortiSIEM.

b. Click OK.

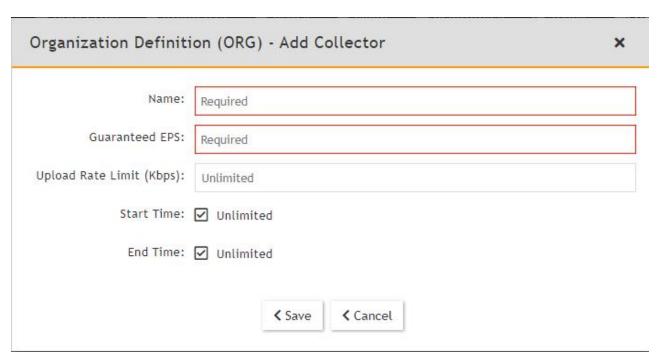


3. Go to ADMIN > Setup > Organizations and click New to add an Organization.



- 4. Enter the Organization Name, Admin User, Admin Password, and Admin Email.
- 5. Under Collectors, click New.
- **6.** Enter the **Collector Name**, **Guaranteed EPS**, **Start Time**, and **End Time**.

The last two values could be set as **Unlimited**. **Guaranteed EPS** is the EPS that the Collector will always be able to send. It could send more if there is excess EPS available.



7. SSH to the Collector and run following script to register Collectors:

The password should be enclosed in single quotes to ensure that any non-alphanumeric characters are escaped.

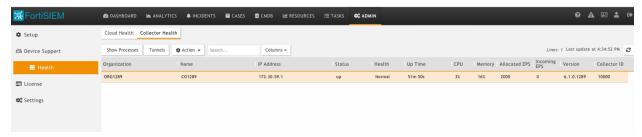
- **a.** Set *user* and *password* using the admin user name and password for the Organization that the Collector is going to be registered to.
- **b.** Set Super IP or Host as the Supervisor's IP address.
- $\textbf{c.} \quad \textbf{Set } \textit{Organization} \textbf{ as the name of an organization created on the Supervisor}.$
- **d.** Set *CollectorName* from Step 6 by command line, for example:
 - # phProvisionCollector --add admin Admin*11 172.30.53.130 ORG1289 CO1289

A message will display after the completion:

Continuing to provision the Collector
This collector is registered successfully. Normal Exit and restart of phMonitor after collector license registration.

The Collector will reboot during the Registration.

8. Go to ADMIN > Health > Collector Health to see the status of the Collector.



Step 6: Using FortiSIEM

Refer to the FortiSIEM User Guide for detailed information about using FortiSIEM.

Factory Reset

Follow the steps below to perform factory reset on FortiSIEM FSM-500F.

Step 1: Uninstall FortiSIEM application

- 1. Connect FortiSIEM device using VGA or Console port.
- 2. Login as 'root' user with password 'ProspectHills'.
- 3. To check the available FortiSIEM commands, run get.
- **4.** To uninstall FortiSIEM, run execute fsm-clean. This script will uninstall FortiSIEM Collector.

Step 2: Reinstall FortiSIEM application

- 1. Power on the hardware.
- 2. Login as 'root' user with password 'ProspectHills'.
- **3.** To check Hardware status and RAID information, run diagnose hardware info. **Note**: RAID Information is NOT applicable to FSM-500F model.
- To install FortiSIEM Collector, run 'execute factoryreset'.
 Note: This script takes 5 minutes to complete FortiSIEM Collector installation.

Follow the steps under Appliance Setup to configure FSM-500F.

Upgrading FortiSIEM Collector

For upgrading FortiSIEM Collector, refer to the *Upgrade Guide*.

Appliance Re-image

Ensure that the following prerequisites are met before re-imaging FortiSIEM.

| Hardware | Software |
|-------------|---|
| Peripherals | Ubuntu Desktop Setup Files Rufus (Bootable USB Utility) FortiSIEM Appliance Image |

Follow the below steps to re-image FortiSIEM.

Step 1: Create Bootable Linux Image

- 1. Connect 4 GB USB drive to the system (desktop or laptop).
- 2. Open Rufus.
- 3. Select the following settings for the USB:
 - a. Partition scheme and target system type: MBR partition scheme for BIOS or UEFI
 - b. File system: FAT32
 - c. Cluster size: 4096 bytes (Default)
 - d. Quick Format: Enable
 - e. Create a bootable disk using: ISO image
- 4. Click on the 'CD-ROM' icon and select the Ubuntu Setup ISO.
- 5. Click **Start** and allow Rufus to complete.

Once finished, the disk is ready to boot.

Note: Alternatively, you can use the Ubuntu guide for creating a USB drive with Ubuntu.

Step 2: Copy FortiSIEM Collector image to USB

- 1. Connect 8 GB USB Drive to the system (desktop or laptop).
- 2. Open Windows Explorer > right-click Drive > click Format.
- 3. Select the following options:
 - a. File system: NTFS
 - b. Allocation unit size: 4096 bytes
 - c. Quick Format: Enable
- 4. Copy the image file to USB drive. For example:

```
FSM Full All RAW HARDWARE 6.1.2.0119.zip
```

5. Safely remove the USB drive from the desktop or laptop by unmounting it through the operating system.

Step 3: Prepare 500F by removing FSM

- 1. Connect to the console/SSH of the FortiSIEM appliance.
- 2. Run the following command: execute fsm-clean
- Allow this command to run and power-off the FortiSIEM appliance.

Step 4: Configure 500F BIOS to Boot into USB Drive

- 1. Connect the 4 GB USB drive to the FortiSIEM appliance.
- 2. Power on the FortiSIEM appliance.
- 3. During the boot screen, press F11 to login to the boot options.
- 4. Select the option to enter into the BIOS set up.
- 5. Select the option for Boot options.

- 6. Select the 'USB drive'.
- 7. Save the options and quit set up.

Step 5: Re-image 500F boot drive from USB Linux

- 1. Power on FortiSIEM appliance.
- 2. Once the FortiSIEM appliance loads from the USB drive, click **Try Ubuntu**.
- 3. Connect the 8GB USB drive to the FortiSIEM appliance.
- 4. Open a terminal.
- **5.** Type the following command to identify the FortiSIEM boot disk (29.5GB): sudo fdisk -1. **Note**: This drive will be referred as /dev/sdb in the following steps.
- 6. Enter into root while in the terminal using the following command: sudo -s
- **7.** Determine the mount point of this drive by using the following command:

Note: For this guide, the assumption for the 8GB mount point is: /media/ubuntu/123456789/*

- 8. Copy the image from the 8GB disk to the FortiSIEM boot disk.
- 9. Extract the zipped raw image and copy the image into SATA disk (32GB). For example, use the command:

```
# unzip -c FSM_Full_All_RAW_HARDWARE_6.1.2.0119.zip | dd of=/dev/sdb bs=1M
status=progress
```

10. Once this is completed, power off the FortiSIEM appliance using the following commands:

```
shutdown -h now
```

- 11. After shutdown, remove both USB drives from the FortiSIEM appliance.
- 12. Power on FortiSIEM appliance.
- 13. Reinstall FortiSIEM application (as in Factory Reset step 2).

Migrating from Pre-6.1.2 to 6.1.2

This section describes how upgrade the 500F Collector appliance from any older FortiSIEM version to 6.1.2. FortiSIEM performs migration in-place, via a bootloader. There is no need to create a new image or copy disks. The bootloader shell contains the new version of FortiSIEM.

- · Pre-Migration Checklist
- · Migrate Collector Installation

Pre-Migration Checklist

To perform the migration, the following prerequisites must be met:

- 1. Make sure your system can connect to the Internet.
- 2. Make sure the /opt directory # mount /dev/mapper/FSIEM500F-phx opt disk exists.
- 3. Log in to your FSM as root and run the following commands:

```
# mkdir -p /opt/images
# ln -s /opt/images /images
```

- **4.** Go to the /images directory. Download the 6.1.2 hardware image from the support site, then unzip it. For example: # unzip FSM Full All RAW HARDWARE 6.1.2 0119.
- **5.** Create a soft link to images, for example:

```
# ln -sf /images/FortiSIEM-RAW-Hardware-6.1.2.0119.img /images/latest
```

Migrate Collector Installation

- Download the Bootloader
- · Prepare the Bootloader
- Load the FortiSIEM 6.1.2 Image
- Migrate to FortiSIEM 6.1.2
- Restore the HTTP Password File From Backup
- Re-Register to the Supervisor
- · Reboot the Appliance

Download the Bootloader

Install and configure the FortiSIEM bootloader to start migration. Follow these steps:

- 1. Download the bootloader FSM_Bootloader_6.1.2_build0119.zip from the support site and copy it to the /images directory.
- 2. Unzip the file, for example:

```
# unzip FSM_Bootloader_6.1.2_build0119.zip
```

Prepare the Bootloader

Follow these steps to run the prepare_bootloader script:

- 1. Go to the bootloader directory, for example:
 # cd /images/FSM Bootloader 6.1.2 build0119
- 2. Run the prepare_bootloader script to install and configure the bootloader. This script installs, configures, and reboots the system. The script may take a few minutes to complete.
 # sh prepare bootloader
- The script will open the FortiSIEM bootloader shell.

```
Writing superblocks and filesystem accounting information: done
This filesystem will be automatically checked every 34 mounts or
180 days, whichever comes first. Use tune2fs -c or -i to override.
WARNING: DOS-compatible mode is deprecated. It's strongly recommended to switch off the mode (command 'c') and change display units to
          sectors (command 'u').
Command (m for help): Partition number (1-4):
Command (m for help): Command (m for help): Command (m for help): The partition table has been alter
Calling ioctl() to re-read partition table.
WARNING: Re-reading the partition table failed with error 16: Device or resource busy.
The kernel still uses the old table. The new table will be used at
the next reboot or after you run partprobe(8) or kpartx(8)
Syncing disks.
Installation finished. No error reported.
This is the contents of the device map /boot/grub/device.map.
Check if this is correct or not. If any of the lines is incorrect, fix it and re-run the script 'grub-install'.
# this device map was generated by anaconda
           /dev/sda
           /dev/sde
Installation finished. No error reported.
This is the contents of the device map /boot/grub/device.map.
Check if this is correct or not. If any of the lines is incorrect, fix it and re-run the script 'grub-install'.
# this device map was generated by anaconda
          /dev/sda
           /dev/sde
 Waiting SYSTEM Will be Rebooted
[root@va5727 bootloader]#
```

Note: you might have to reboot the system manually if auto-reboot does not work.

4. In the FortiSIEM bootloader shell, choose FortiSIEM Boot Loader. Press Return.

```
CentOS (2.6.32-754.28.1.el6.x86_64)

FortiSIEM Boot Loader

Use the ↑ and ↓ keys to select which entry is highlighted.
Press enter to boot the selected OS, 'e' to edit the commands before booting, 'a' to modify the kernel arguments before booting, or 'c' for a command-line.
```

Load the FortiSIEM 6.1.2 Image

Follow these steps to load the FortiSIEM image:

1. Log in to the bootloader shell as user root with password ProspectHills.

- 2. Mount the /opt directory:
 - **a.** Mount the /opt directory, for example:
 - # mount /dev/mapper/FSIEM500F-phx opt /opt
 - **b.** Create a symbolic link to images from opt:
 - # ln -sf /opt/images /images
 - **c.** Change to the /images directory, for example:
 - # cd /images
 - **d.** Run the 11 command to check disk usage.
 - # 11

These steps are illustrated in the following screen shot.

- 3. Run the load image script to swipe the old image with the new image, for example:
 - **a.** Change to the root directory and check the contents, for example:
 - # cd / # 11

b. Run the load_image script, for example:

```
# sh load image
```

```
Iroot@fsmshell /l# sh load_image
Found disk /dev/sde of Required size
Checking Partitions on /dev/sde
sde already has partitions
yes
Running Command: dd if=/images/latest of=/dev/sde bs=512 conv=noerror,sync status=progress
26776572416 bytes (27 GB) copied, 588.843679 s, 45.5 MB/s
52428800+0 records in
52428800+0 records out
26843545600 bytes (27 GB) copied, 596.499 s, 45.0 MB/s
Swiping Image to new disk
[root@fsmshell /l# [ 1174.311179] sde: sde1 sde2
[ 1174.492305] device-mapper: uevent: version 1.0.3
[ 1174.493463] device-mapper: ioctl: 4.34.0-ioctl (2015-10-28) initialised: dm-devel@redhat.com
```

- **c.** Press Return again when the load_image script finishes.
- d. Reboot your system manually if it does not do so automatically.

Migrate to FortiSIEM 6.1.2

Follow these steps to complete the migration process:

- 1. Log in to the bootloader shell as user root with password ProspectHills. You will immediately be asked to change your password.
- **2.** Create and mount the /images directory from /opt:
 - a. Change directory to root, for example:
 - # cd /
 - **b.** Mount the opt directory, for example:
 - # mount /dev/mapper/FSIEM500F-phx opt /opt
 - **c.** Create images directory under /:
 - # mkdir -p /images
 - **d.** Copy backup files to /images directory from /opt/images directory:
 - # cd /opt/images
 - # cp -far fsm_53_phoenix.xz VERSION phoenix_config.txt passwds network_params.json
 .fortisiem4x0 /images

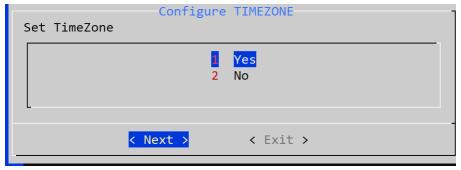
```
[root@localhost images]# ls -arlu
total 31376024
                                     125 Sep 9 16:01 VERSION
38952 Sep 9 16:01 phoenix
 rw-rw-r--
             1 admin admin
                                                 9 16:01 phoenix_config.txt
 rw-rw-r--
                admin admin
                                         root root
                                       181 Sep
 rw-r--r--
                root
                       root
                root
                       root
                                        185 Sep
                                                                    /images/FortiSIEM-6.1.0.0112.img
 rwxrwxrwx
                root
                       root
                                        32 Sep
                                                 9 18:16 latest
                                         0 Sep
                                                 9 17:20 .isHardware
                root
                       root
                                        11 Sep
 rwxrwxrwx
                root
                       root
                                                 9 18:16 images -> /opt/images
                                       838 Sep
                                                 9 17:43 grub_base
                root
                       root
                                                 9 16:44 FSM_Full_All_RAW_HW-6.1.0_build0112.zip
9 16:53 FSM_Bootloader_6.1.0_build0112.zip
                               3962321000 Sep
 rw-r--r--
                root
                       root
                                282786465 Sep
 rw-r--r--
               root
                      root
                                      4096 Sep
                                                 9 16:54 FSM_Bootloader_6.1.0_build0112
 rwxr-xr-x
                root
                      root
                               1040315804 Sep
                                                 9 17:21 fsm
                root
                      root
 rw-r--r--
                root
                      root
                             26843545600 Sep
                                                 9 18:21 FortiSIEM-6.1.0.0112.img
               admin admin
                                      1105 Sep
                                                 9 16:34 .fortisiem4x0
 rw-rw-r--
               root root
                                        43 Sep
                                                 9 17:20 backup
 rwxr-xr-x
                                      4096 Sep
drwxr-xr-x 15 root
                                                 9 18:16
                      root
drwxr-xr-x 4 root root 4096 Sep 9 18:16 .

Iroot@localhost images!# cp UERSION phoenix_config.txt passwds network_params.json .fortisiem4x0 /images

Iroot@localhost images!# cd /images

Iroot@localhost images!# cd /images
[root@localhost images]# ls
network_params.json passwds phoenix_config.txt UERSION
[root@localhost images]# ls -al
total 56
                               110 Sep
                                         9 19:02
              2 root root
drwxr-xr-x
                              4096 Sep
                                         9 19:00
dr-xr-xr-x. 21 root root
                              1105 Sep
                                         9 19:02 .fortisiem4x0
              1 root root
                                         9 19:02 network_params.json
9 19:02 passwds
                               185 Sep
               1 root root
               1 root root
                                0 Sep
                 root root 38952 Sep
                                         9 19:02 phoenix_config.txt
9 19:02 VERSION
               1 root root
                               125 Sep
```

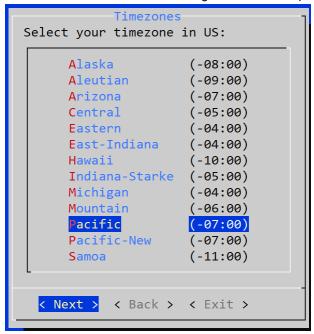
- **e.** Unmount the /opt directory from root:
 - # cd /
 - # umount /opt
- 3. Run the configFSM. sh command to configure the migration via a GUI, for example:
 - # configFSM.sh
- 4. In the first screen of the GUI select 1 Yes to set a timezone. Press Next.



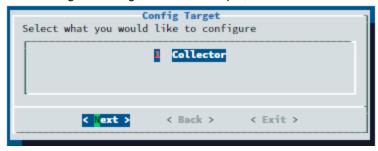
5. Select a region for the timezone. In this example, US is selected. Press Next.



6. Select a timezone in the selected region. In this example, Pacific is selected. Press Next.



7. Select a target to configure. In this example, the **Collector** is selected. Press **Next**.



8. Select option 5 migrate_6_1_1.



9. Test connectivity by connecting to a well-known internet site. Press Next.



10. Press the **Run** command to complete migration, for example:

```
Configure Collector

Run Configuration Command:

python /usr/local/bin/configureFSM.py -r collector -z America/Chicago -i
172.30.59.223 -m 255.255.252.0 -g 172.30.56.1 --host sp59223 -f
sp59223.fortinet.com -t 4 --dns1 172.30.1.105 --dns2 172.30.1.106 -o migrate
--testpinghost google.com

CRUN > CBack > CExit >
```

The options for the command are described in the following table:

| Option | Description |
|--------------|--|
| -r | The FortiSIEM component being configured |
| -Z | The time zone being configured |
| -i | IPv4-formatted address |
| -m | Address of the subnet mask |
| -g | Address of the gateway server used |
| host | Host name |
| -f | FQDN address: fully-qualified domain name |
| -t | The IP type. The values can be either 4 (for ipv4) or 6 (for v6) Note: the 6 value is not currently supported. |
| dns1,dns2 | Addresses of DNS server 1 and DNS server 2. |
| -0 | Installation option. |
| -Z | Time zone. Possible values are US/Pacific , Asia/Shanghai , Europe/London , or Africa/Tunis |
| testpinghost | The host used to test connectivity |

- 11. The script will take some minutes to run. When it is finished, migration is complete.
- 12. Log in to your system again as user root with your new password.
- **13.** To ensure phMonitor is running, execute the phstatus command, for example: # phstatus

Restore the HTTP Password File From Backup

Run the following command to restore the HTTP password file.

```
# cp -far /images/passwds /etc/httpd/accounts/
```

Make sure that the permissions are correct, for example:

```
[root@co56120 \sim]# ls -la /etc/httpd/accounts/ total 8 drwxr-xr-x 2 root root 34 Nov 3 09:47 . drwxr-xr-x 6 root root 121 Oct 29 18:02 .. -rw-r--r-- 1 root root 62 Nov 3 13:36 passwds
```

Re-Register to the Supervisor

Run the following command; note the update option. This keeps old associations.

```
# /opt/phoenix/bin/phProvisionCollector --update <user> '<password>' <Super IP or Host>
```

The password should be enclosed in single quotes to ensure that any non-alphanumeric characters are escaped.

Reboot the Appliance

If the appliance does not reboot automatically, then manually reboot.





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