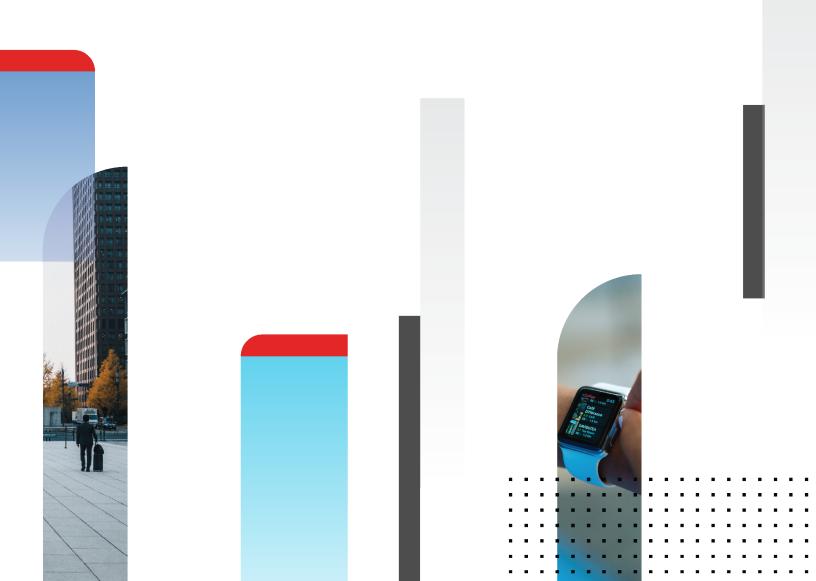
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3500G Hardware Configuration Guide

FortiSIEM 6.2.0



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01/04/2024 FortiSIEM 6.2.0 3500G Hardware Configuration Guide

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Change Log

| Date | Description |
|------------|--|
| 06/02/2021 | Initial release of this guide. |
| 06/07/2021 | Updated Elasticsearch screenshot. |
| 10/08/2021 | Removed Migration section from 6.2.x guides. |
| 11/17/2021 | Updated Register Collectors instructions for 6.2.x guides. |
| 10/20/2022 | Updated Register Collectors instructions for 6.x guides. |

Appliance Setup

Follow the steps below to setup FSM-3500G appliance.

- All-in-one Installation
- Cluster Installation

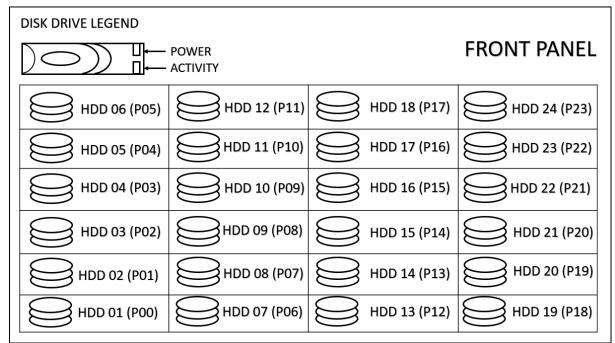
All-in-one Installation

Follow these steps to install all of the FortiSIEM components at one time.

- Step 1: Rack mount the FSM-3500G appliance
- Step 2: Power On the FSM-3500G appliance
- Step 3: Verify System Information
- Step 4: Configure FortiSIEM via GUI
- Step 5: Generate the FortiSIEM FSM-3500G License Key file
- Step 6: Register the FortiSIEM License
- Step 7: Accessing FortiSIEM UI
- Step 8: Choose an Event Database

Step 1: Rack mount the FSM-3500G appliance

- 1. Follow FortiSIEM 3500G QuickStart Guide here to mount FSM-3500G into the rack.
- 2. Insert Hard Disks positions as shown below:



3. Connect FSM-3500G to the network by connecting an Ethernet cable to Port0.



Before proceeding to the next step, connecting Ethernet cable to Port0 is required for Network configuration.

Step 2: Power On the FSM-3500G appliance

- 1. Make sure the FSM-3500G device is connected to a Power outlet and an Ethernet cable is connected to Port0.
- 2. Power On the FSM-3500G device.



FSM-3500G appliance does not have a default IP address. To connect to the GUI, an IP address must be configured using the GUI (Step 4).

Step 3: Verify System Information

- 1. Connect to the FSM-3500G appliance using VGA port or Console port.
- 2. Login as 'root' user with password ProspectHills. You will be required to change the password. Remember this password for future use. Once you change the password, you will be logged out. Login again with your new password.
- 3. Run get to check the available FortiSIEM commands.

4. Use these 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 (see the following table). |

The following table describes the port number mapping between the 3500G physical port number label and the FortiSIEM 6.2.0 interface port numbering.

| 3500G Physical Port Number Label | FSM 6.2.0 Interface Port Numbering |
|-------------------------------------|---------------------------------------|
| port1 | port0 |
| port2 | port1 |
| port3 | port4 |
| port4 | port5 |
| port5 | port2 |
| port6 | port3 |

Step 4: Configure FortiSIEM via GUI

Follow these steps to configure FortiSIEM by using a simple 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
- 3. In the console, 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 Supervisor. Press Next.





Regardless of whether you select **Supervisor** or **Worker**, you will see the same series of screens.

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

| Select Operation | onfigure Supervisor |
|------------------|--|
| 4 5 6 | <pre>install_without_fips install_with_fips enable_fips disable_fips change_ip migrate_6_1_1 upgrade</pre> |
| < Next > | < BACK > < Exit > |

9. Configure the network by entering the following fields. Note the IP Address--you will need it in a later step. Press Next.

| Option | Description |
|--------------|-------------------------------|
| Host Name | The Supervisor's host name |
| IPv4 Address | The Supervisor's IPv4 address |
| NetMask | The Supervisor's subnet |
| Gateway | Network gateway address |
| FQDN | Fully-qualified domain name |
| DNS1, DNS2 | Addresses of the DNS servers |

| Host name: | sp5782.fortinet.com | |
|---------------|---------------------|--|
| IPv4 Address: | 172.30.57.82 | |
| Netmask: | 255.255.252.0 | |
| Gateway: | 172.30.56.1 | |
| FQDN: | sp5782.fortinet.com | |
| DNS1: | 172.30.52.31 | |
| DNS2: | 172.30.52.32 | |

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. In order 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.

| Enter host for checkin | i <mark>gure Supervis</mark> ng network com | | |
|------------------------|--|----------|--|
| myhost.com_ | | | |
| | | | |
| < Next > | < Back > | < Exit > | |

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**.

| Configure Supervisor Run Configuration Command: |] |
|---|---|
| python /usr/local/bin/configureFSM.py -r super -z US/Pacific -i 172.30.57.82 -m 255.255.252.0 -g 172.30.56.1host sp5782.fortinet.com -f sp5782.fortinet.com -t 4dns1 172.30.52.32dns2 172.30.52.31 -o install_with_fipstestpinghost myhost.com | |
| <pre>< Run > < Back > < Exit ></pre> | |

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 servers | |
| -0 | Installation option (install_without_fips , install_with_fips, enable_fips, disable_fips, change_ip, or migrate) | |
| -Z | Time zone. Possible values are US/Pacific , Asia/Shanghai, Europe/London , or Africa/Tunis | |
| | | |

--testpinghost The host used to test connectivity

12. It will take some time to complete the FortiSIEM installation. If the installation is successful, then the appliance will reboot automatically. Otherwise, the appliance will stop at the failed task. You can inspect the ansible.log file located at /usr/local/fresh-install/logs if you encounter any

issues during FortiSIEM installation.

After installation completes, ensure that the phMonitor is up and running, for example:

phstatus

The response should be similar to the following:

| Appliance | Setup |
|-----------|-------|
|-----------|-------|

| phParser | DOWN | | | |
|--------------------|-------|---|--------|-------|
| phQueryMaster | DOWN | | | |
| phRuleMaster | DOWN | | | |
| phRuleWorker | DOWN | | | |
| phQueryWorker | DOWN | | | |
| phDataManager | DOWN | | | |
| phDiscover | DOWN | | | |
| phReportWorker | DOWN | | | |
| phReportMaster | DOWN | | | |
| phIpIdentityWorker | DOWN | | | |
| phIpIdentityMaster | DOWN | | | |
| phAgentManager | DOWN | | | |
| phCheckpoint | DOWN | | | |
| phPerfMonitor | DOWN | | | |
| phDataPurger | DOWN | | | |
| phEventForwarder | DOWN | | | |
| phMonitor | 32:18 | 0 | 1263m | 568m |
| Apache | 32:49 | 0 | 314m | 17m |
| Rsyslogd | 32:42 | 0 | 192m | 4216k |
| Node.js-charting | 32:36 | 0 | 642m | 79m |
| Node.js-pm2 | 32:19 | 0 | 636m | 52m |
| Node.js-exporter | 32:31 | 0 | 10902m | 59m |
| Node.js-jsreport | 32:36 | 0 | 957m | 117m |
| phFortiInsightAI | DOWN | | | |
| phAnomalyWorker | DOWN | | | |
| AppSvr | 32:17 | 4 | 31781m | 4433m |
| DBSvr | 32:49 | 0 | 425m | 37m |
| phAnomalyMaster | DOWN | | | |
| SVNLite | 32:49 | 0 | 37923m | 579m |
| Redis | 32:21 | 0 | 204m | 82m |
| | | | | |

Step 5: Generate FortiSIEM FSM-3500G License Key file from FortiCare

- 1. Obtain the Hardware Serial Number from FSM-3500G appliance from FortiCare Support Services.
- 2. Follow FortiSIEM Licensing Guide here to generate the license key file remember to use 'Hardware Serial Number' for Hardware ID.

Step 6: Register FortiSIEM License

- 1. Note the IP Address assigned to FortiSIEM in Step 4.
- 2. Access FortiSIEM from browser (https://<FortiSIEM-IP>).
- **3.** Upload the license file obtained from Step 5 and select the **License Type** based on your deployment (note this choice can only be made once and is not reversible):
 - Enterprise for single organizations
 - Service Provider for multiple organizations
- 4. Click Upload to complete the license registration.

Step 7: Accessing FortiSIEM UI

- 1. Note the IP Address assigned to FortiSIEM in Step 5.
- 2. Access FortiSIEM from browser (https://<FortiSIEM-IP>).
- 3. Login to FortiSIEM using the default user name, password, and organization:
 - UserID: admin
 - Password: admin*1
 - Cust/OrgID: super (if shown)

Step 8: Choose an Event Database

For a fresh installation, you will be taken to the Event Database Storage page. You will be asked to choose between **Local Disk**, **NFS** or **Elasticsearch** options. For more details, see Configuring Storage.

| 🔀 FortiSIEM |
|-------------------------|
| Event Database storage: |
| ○ Local Disk |
| O NFS |
| ○ Elasticsearch |
| Test Save |

Cluster Installation

For larger installations, you can choose Worker nodes and external storage (NFS or Elasticsearch).

- Installing the Supervisor
- Installing Workers
- Registering Workers
- Installing Collectors
- Registering Collectors

Installing the Supervisor

Follow the steps in All-in-one Installation with two differences:

- Setting up hardware you do not need an event database.
- Setting up an Event database Configure the cluster for either NFS or Elasticsearch. **NFS**

| × | FortiSIEM |
|---------------------|--------------------|
| Event Database stor | age: |
| \odot Local Disk | |
| NFS | |
| Server IP/Host: | Server IP/Host |
| Exported Directory: | Exported Directory |
| ○ Elasticsearch | |
| | Test Save |

Elasticsearch

| FortiSIEM | | | | | | | | | |
|---|-----------------------------------|--|--|--|--|--|--|--|--|
| Event Database storage: Local Disk NFS Elasticsearch | | | | | | | | | |
| ES Service Type: | • Native • Amazon • Elastic Cloud | | | | | | | | |
| URL: | https:// | | | | | | | | |
| REST Port: | 443 🗯 | | | | | | | | |
| User Name: | (Optional) | | | | | | | | |
| Password: | (Optional) | | | | | | | | |
| Confirm Password: | | | | | | | | | |
| Shard Allocation: | Fixed Opnamic | | | | | | | | |
| Shards: | 5 | | | | | | | | |
| Replicas: | 1 | | | | | | | | |
| Per Org Index | • | | | | | | | | |
| | Test | | | | | | | | |

You must choose external storage listed in Step 8: Choose an Event Database.

Installing Workers

Once the Supervisor is installed, follow the same steps in All-in-one Installation to install a Worker except that you choose **2 Worker** during Step 4: Configure FortiSIEM via GUI substep 7.

Registering Workers

Once the Worker is up and running, add the Worker to the Supervisor node.

- 1. Go to ADMIN > License > Nodes.
- 2. Select Worker from the drop-down list and enter the Worker's IP address. Click Add.

| 🌣 Setup | Genera | I Usage Nodes | | |
|------------------|----------|--------------------|-------------|-------------|
| 🖨 Device Support | Add | Delete | | |
| 📰 Health | Mode | | | IP Address |
| 🖽 License | Supervis | sor | | 172.30.57.2 |
| 🗘 Settings | | Add Node | | × |
| | | Туре: | Worker | ~ |
| | | Worker IP Address: | 172.30.57.3 | |
| | | | OK Cancel | |

3. See ADMIN > Health > Cloud Health to ensure that the Workers are up, healthy, and properly added to the system.

| 🌣 Setup | Cloud Health Coll | ector Health | | | | | | | |
|--|--------------------|--------------|--------------|----------------|---------------------------|----------------------|-------------------|------------------------------|-----------|
| 🖨 Device Support | Search | Columns - | | | | | | Lines: 2 Last update at 8:49 | :17 PM |
| 🚍 Health | Name | IP Address | Module Role | Health | Version | Load Average | e CPU | Swap Used | |
| _ | sp572.fortinet.com | 172.30.57.2 | Supervisor | Normal | 6.1.0.1238 | 0.95,0.47,0.4 | 13 4% | 0 KB | |
| License | wk573.fortinet.com | 172.30.57.3 | Worker | Normal | 6.1.0.1238 | 0.1,0.2,0.16 | 2% | 0 КВ | |
| 🕫 Settings | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | Search | Columns 🕶 | | Pr | ocess level metrics for w | k573.fortinet.com (1 | 72.30.57.3) | | Lines: 17 |
| | Process Name | Status | Up Time | CPU | J Physical Memor | y Virtual Memory | SharedStore ID | SharedStore Position | |
| | Node.js-charting | Up | 1h 3m | 0% | 70 MB | 916 MB | | | |
| | httpd | Up | 14m 6s | 0% | 16 MB | 310 MB | | | |
| | Redis | Up | 14m 6s | 0% | 22 MB | 51 MB | | | |
| | Node.js-pm2 | Up | 1h 3m | 0% | 44 MB | 899 MB | | | |
| | rsyslogd | Up | 1h 3m | 0% | 7 MB | 189 MB | | | |
| | phDataManager | UD | 14m 6s | 0% | 103 MB | 1229 MB | 1 | 126108 | |
| Copyright © 2020 Fortinet, Inc. All rights | reserved. | | Organization | n: Super User: | admin Scope: Global | | | | FortiSIE |

Installing Collectors

Once Supervisor and Workers are installed, follow the same steps in All-in-one Install to install a Collector except only choose OS and OPT disks. The recommended settings for Collector node are:

- CPU = 4
- Memory = 8GB
- Two hard disks:
 - OS 25GB
 - OPT 100GB

For OPT - 100GB, the 100GB disk for /opt will consist of a single disk that will split into 2 partitions, /OPT and swap. The partitions will be created and managed by FortiSIEM when configFSM.shruns.

Registering 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 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:

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

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.

| 🌣 Setup | Cloud Health Collector | lealth | | | | | | | |
|------------------|---------------------------------------|------------------|--------|-----------------|-------------------|-------------------|---------------|--------------------|-------------|
| 🗇 Device Support | Show Processes Tunnels | Action - Search | Colu | mns 🕶 | | | Lines: 1 | Last update at 8: | 54:17 PM |
| = Health | Organization Name | IP Address | Status | Health Up Ti | me CP | U Memory | Allocated EPS | Incoming EPS | Version |
| License | Super CO-OR | 5 172.30.57.4 | up | Normal 3m 4 | 5 65 | % 5% | 200 | 0 | 6.1.0 |
| 📽 Settings | | | | | | | | | |
| | | | | | | | | | |
| | Close Panel Search | Columns - | | | | | Lir | nes: 9 Last update | e at 8:54:2 |
| | Process Name | Status Up Time | CPU | Physical Memory | Virtual Memory | SharedStore ID | SharedStore P | | |
| | phMonitorAgent | Up 29s | 0% | 575 MB | 1116 MB | | | | |
| | | | | | | | | | |
| | phParser | Up 17s | 0% | 106 MB | 1190 MB | 99 | 0 | | |
| | phParser phPerfMonitor | Up 17s Up 17s | 0% | 106 MB 79 MB | 1190 MB 766 MB | 99 | 0 | | |
| | · · · · · · · · · · · · · · · · · · · | | | | | 99 | 0 | | |
| | phPerfMonitor | Up 17s | 0% | 79 MB | 766 MB | 99 | 0 | | |

5. Go to ADMIN > Health > Collector Health for the 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.

| Setup | ← All Settings > Sys | tem > Event Worker | |
|------------------|----------------------|--------------------|-----|
| 🖨 Device Support | Worker Address: | 172.30.57.3 | + - |
| 📑 Health | | | |
| 📧 License | | Save | |
| 📽 Settings | | | |

| Organization Definiti | (-) | | | |
|-------------------------|------------------------------|-------------------------|----------------------------|-----|
| Organization: | ORG | Include IP/IP Range: | | |
| Full Name: | | Exclude IP/IP Range: | | |
| Admin User: | admin | Agent User: | | |
| Admin Password: | ••••• | Agent Password: | | |
| Confirm Admin Password: | ••••• | Confirm Agent Password: | | |
| Admin Email: | Required | Max Devices: | | |
| Phone: | | Address: | | |
| Account Number: | | Account Type: | | |
| Support Tier: | | Account Status: | | |
| Support Team: | | Account Manager: | | |
| Collectors: | New Edit Delete | | | |
| | Collector Name Collector EPS | UpLoad Rate Limit | Valid Start Date Valid End | Dat |

- 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.

| Organization Definiti | Organization Definition (ORG) - Add Collector | | | | | | | | | |
|---------------------------|---|--|--|--|--|--|--|--|--|--|
| Name: | Required | | | | | | | | | |
| Guaranteed EPS: | Required | | | | | | | | | |
| Upload Rate Limit (Kbps): | Unlimited | | | | | | | | | |
| Start Time: | Unlimited | | | | | | | | | |
| End Time: | Unlimited | | | | | | | | | |
| | ✓ Save ✓ Cancel | | | | | | | | | |

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

/opt/phoenix/bin/phProvisionCollector --add <user> '<password>' <Super IP or
Host> <Organization> <CollectorName>

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.
- c. Set Organization as the name of an organization created on the Supervisor.

d. Set CollectorName from Step 6.



The Collector will reboot during the Registration.

8. Go to ADMIN > Health > Collector Health and check the status.

| 🌣 Setup | Cloud Health | Collector Healt | h | | | | | | | | | | | |
|------------------|------------------|-----------------|----------|------------|--------|-----------|---------------|----------------|-----------|-----------|---------------|------------------|--------------|------------|
| 🖨 Device Support | Show Processes | Tunnels | Action • | • Search | | Columns - | | | | | Lines: 1 | Last update at 8 | 3:54:17 PM | C |
| 🗮 Health | Organization | Name | i IF | Address | Status | Heal | th Up T | ime (| PU | Memory | Allocated EPS | Incoming EPS | Version | Col |
| 📧 License | Super | CO-ORG | 1 | 72.30.57.4 | up | Norr | nal 3m 4 | 4s | 55% | 5% | 200 | 0 | 6.1.0 | 100 |
| ✿C Settings | | | | | | | | | | | | | | |
| | ✓ Close Panel S | iearch | | Columns 🕶 | | | | | | | Lir | es: 9 Last updat | te at 8:54:2 | ► 24 PM |
| | Process Name | | Status | Up Time | CF | PU Ph | ysical Memory | Virtual Memory | Sha ID | aredStore | SharedStore P | osition | | |
| | phMonitorAgent | | Up | 29s | 05 | % 57 | 5 MB | 1116 MB | | | | | | ^ |
| | phParser | | Up | 17s | 05 | % 10 | 6 MB | 1190 MB | 99 | | 0 | | | |
| | phPerfMonitor | | Up | 17s | 05 | | MB | 766 MB | | | | | | |
| | phEventForwarder | | Up | 17s | 05 | | MB | 547 MB | | | | | | |
| | phDiscover | | Up | 17s | 05 | | MB | 513 MB | | | | | | |
| | | | | | | | | | | | | | | Ū |

Factory Reset

Follow the steps below to perform factory reset on FortiSIEM FSM-3500G.

- Step 1: Uninstall FortiSIEM application
- Step 2: Reinstall FortiSIEM application

Step 1: Uninstall FortiSIEM application

- 1. Connect FortiSIEM device using VGA or Console port.
- 2. Login as root user with the new password you set in Step 3: Verify System Information.
- 3. To check the available FortiSIEM commands, run sudo get.
- 4. To uninstall FortiSIEM, run sudo execute fsm-clean. This script will uninstall FortiSIEM application.
- 5. Reboot the system.

Step 2: Reinstall FortiSIEM application

- 1. Login as root with password ProspectHills. You will immediately be asked to change your password.
- 2. To configure RAID, run execute format disk.
- 3. To check Hardware status and RAID information, run diagnose hardware info.
- 4. To install FortiSIEM, run the execute factoryreset --force command. The command fails after partial steps. Run the same command again to complete factoryreset. This script takes a few minutes to complete FortiSIEM installation.
- 5. Reboot and run /user/local/bin/configFSM.sh to install FortiSIEM.

Follow the steps under Appliance Setup to configure FSM-3500G.



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