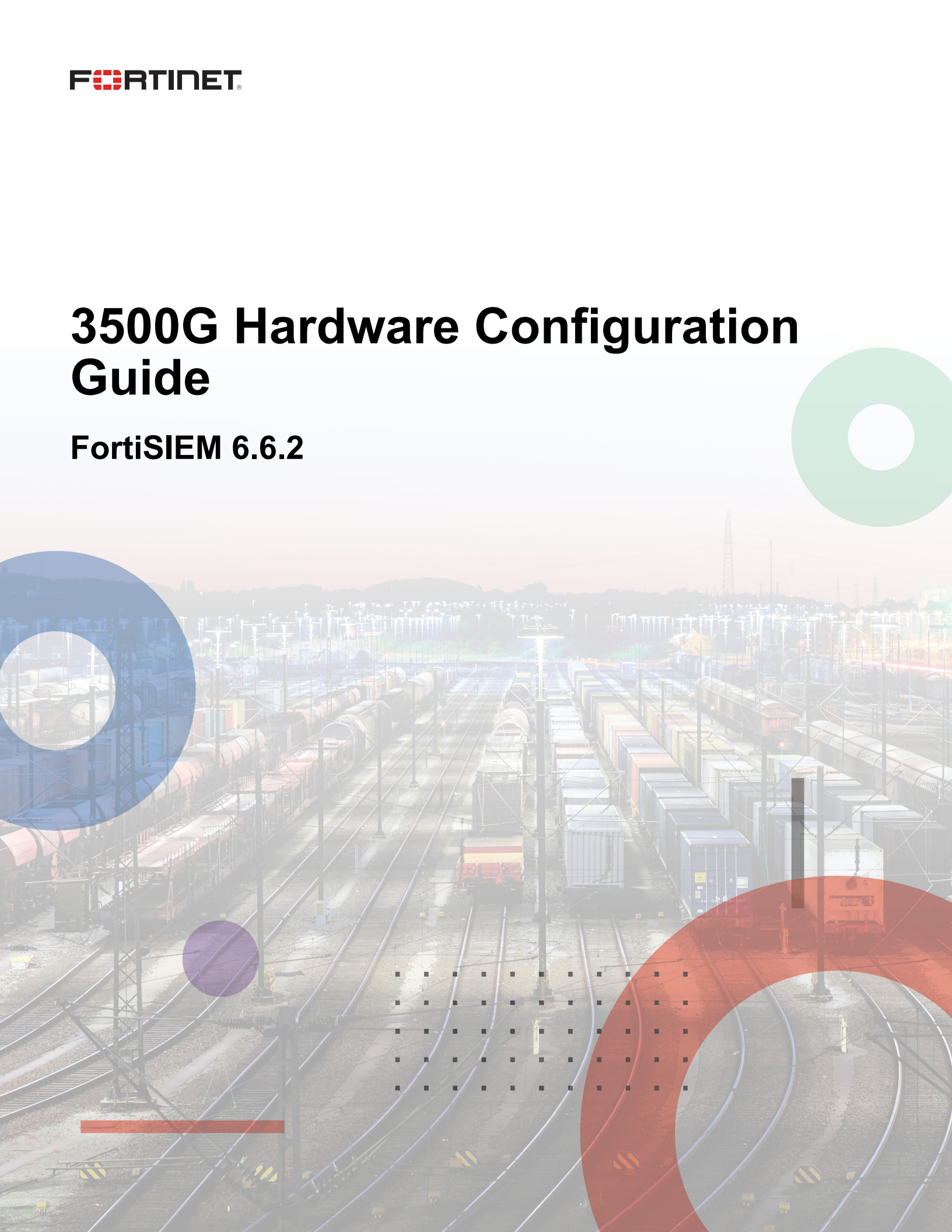


3500G Hardware Configuration Guide

FortiSIEM 6.6.2



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01/02/2024

FortiSIEM 6.6.2 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.
07/06/2021	Release for 6.3.0.
08/26/2021	Release for 6.3.1.
10/08/2021	Remove Migration section from 6.3.x guides.
10/15/2021	Release for 6.3.2.
11/17/2021	Updated Register Collectors instructions for 6.x guides.
12/22/2021	Release for 6.3.3.
01/18/2022	Release for 6.4.0.
05/09/2022	Release for 6.5.0.
07/26/2022	Release for 6.6.0.
09/12/2022	Release for 6.5.1.
09/14/2022	Release for 6.6.1.
09/19/2022	Release for 6.6.2.
10/20/2022	Updated Register Collectors instructions for 6.x guides.
01/03/2023	Release for 6.6.3.
08/31/2023	Release for 6.6.4.

Appliance Setup

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

- All-in-one Installation
- Cluster Installation

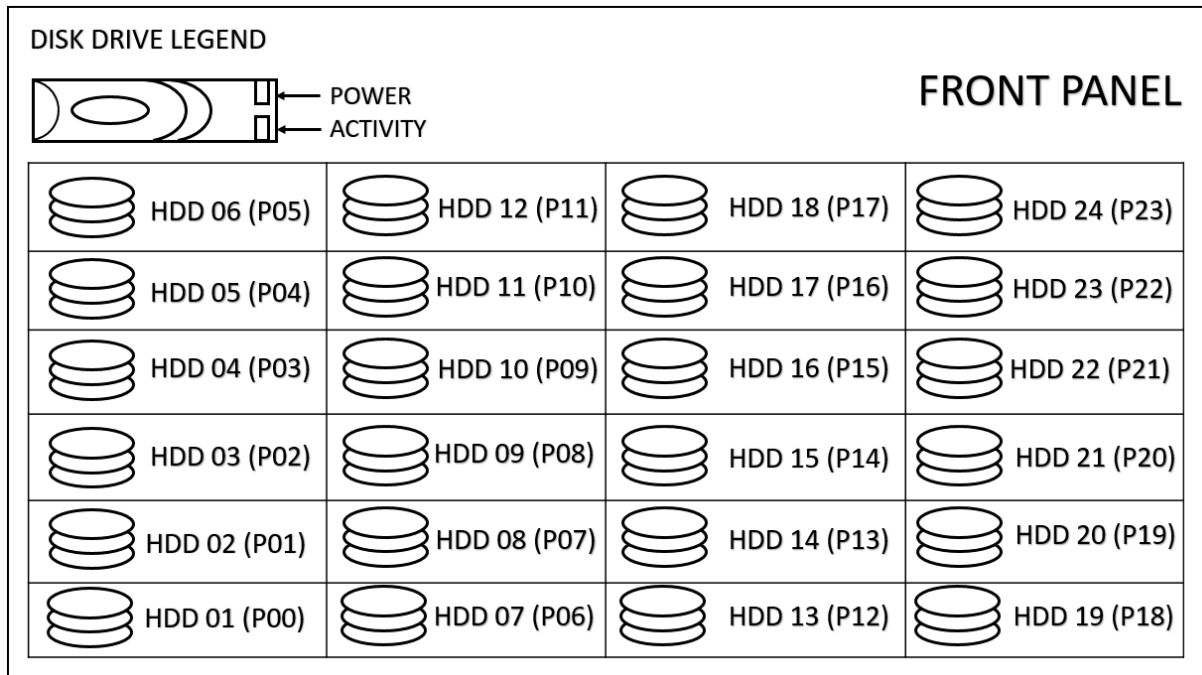
All-in-one Installation

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.

- Use these commands to check the hardware information. After running each command, ensure that there are no errors in the displayed output.

Command	Description
<code>get system status</code>	Displays system name, version and serial number.
<code>diagnose hardware info</code>	Displays system hardware information like CPUs, Memory and RAID information.
<code>diagnose interface detail port0</code>	Displays interface status (see the following table).

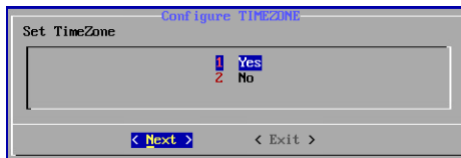
The following table describes the port number mapping between the 3500G physical port number label and the FortiSIEM 6.6.2 interface port numbering.

3500G Physical Port Number Label	FSM 6.6.2 Interface Port Numbering
port1	port0
port2	port1
port3	port4
port4	port5
port5	port2
port6	port3

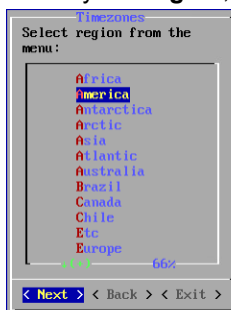
Step 4: Configure FortiSIEM via GUI

Follow these steps to configure FortiSIEM by using a simple GUI.

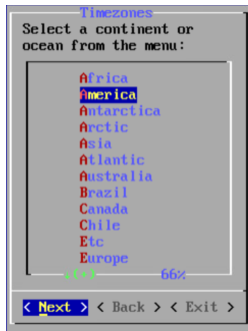
- Log in as user `root` with the password you set in [Step 3](#) above.
- At the command prompt, go to `/usr/local/bin` and enter `configFSM.sh`, for example:
`configFSM.sh`
- In VM console, select **1 Set Timezone** and then press **Next**.



- 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. If installing Supervisor, select **1 Supervisor**, and press **Next**.
If installing a Worker, select **2 Worker**, and press **Next**.
If installing a Collector, select **3 Collector**, and press **Next**.

Notes:

- The **FortiSIEM Manager** option is **NOT** valid for hardware appliances.
- The appliance type cannot be changed once it is deployed, so ensure you have selected the correct option.

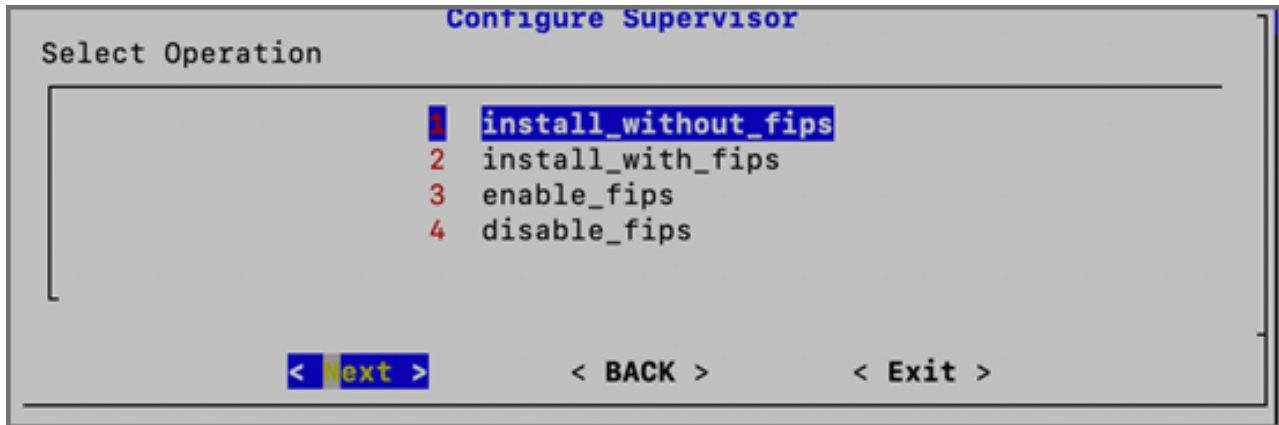


Regardless of whether you select **Supervisor** or **Worker**, you will see the same series of screens with only the header changed to reflect your target installation, unless noted otherwise.

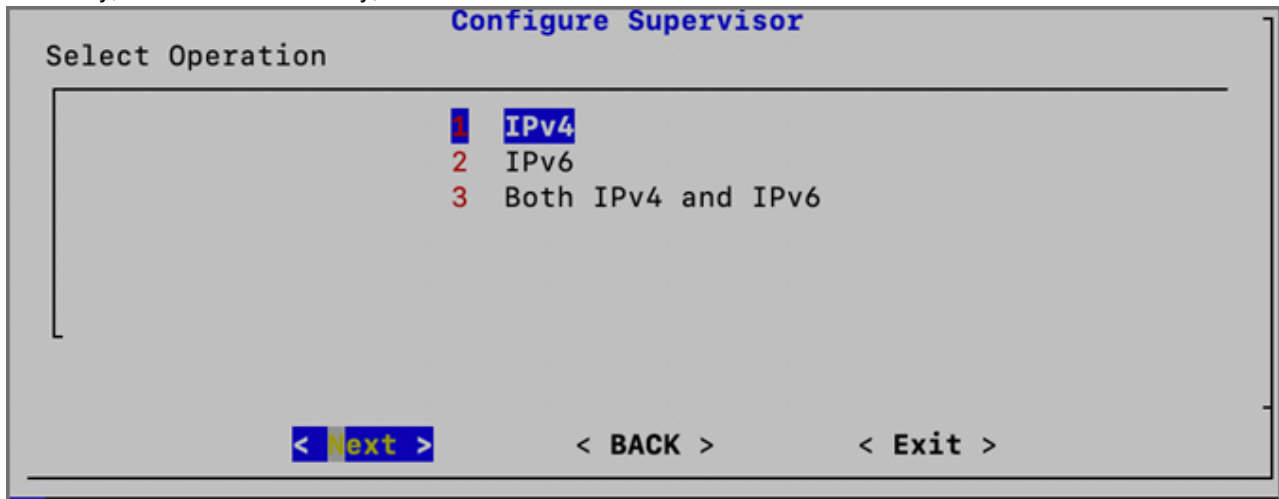
8. If you want to enable FIPS, then choose **2**. Otherwise, choose **1**. You have the option of enabling FIPS (option **3**) or disabling FIPS (option **4**) later.

Note: After Installation, a 5th option to change your network configuration (**5 change_network_config**) is

available. This allows you to change your network settings and/or host name.

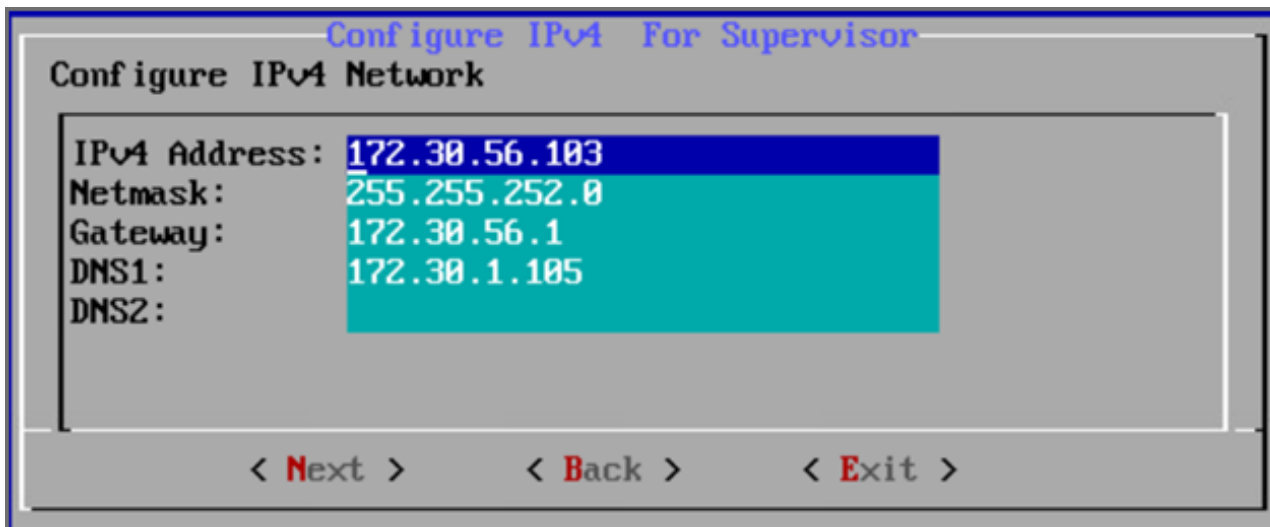


- Determine whether your network supports IPv4-only, IPv6-only, or both IPv4 and IPv6 (Dual Stack). Choose **1** for IPv4-only, choose **2** for IPv6-only, or choose **3** for both IPv4 and IPv6.



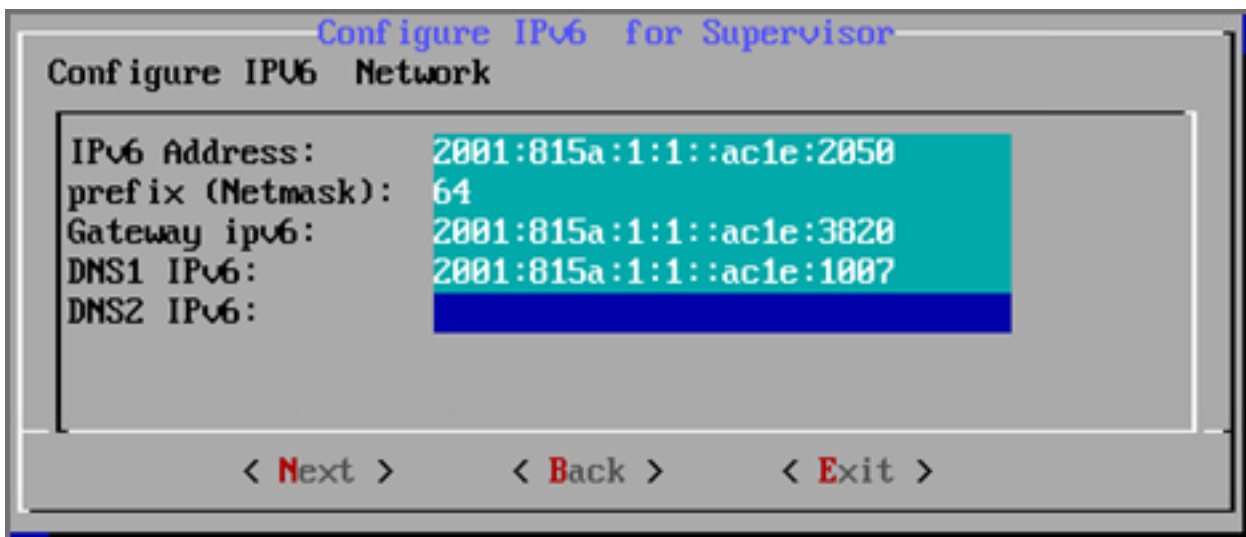
- If you choose **1** (IPv4) or choose **3** (Both IPv4 and IPv6), and press **Next**, then you will move to step 11. If you choose **2** (IPv6), and press **Next**, then skip to step 12.
- Configure the network by entering the following fields. Note the IP Address--you will need it in a later step. Press **Next**.

Option	Description
IPv4 Address	The Supervisor/Worker IPv4 address
NetMask	The Supervisor/Worker subnet
Gateway	Network gateway address
DNS1, DNS2	Addresses of the DNS servers



12. If you chose 1 in step 9, then you will need to skip to step 13. If you chose 2 or 3 in step 9, then you will configure the IPv6 network by entering the following fields, then press **Next**.

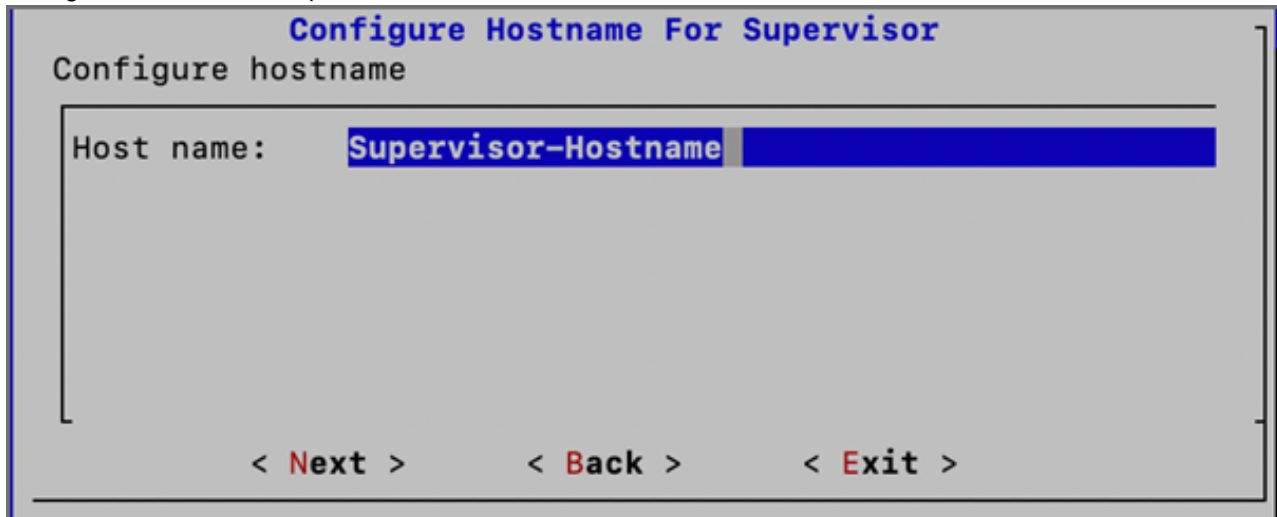
Option	Description
IPv6 Address	The Supervisor/Worker IPv6 address
prefix (Netmask)	The Supervisor/Worker IPv6 prefix (Netmask)
Gateway ipv6	IPv6 Network gateway address
DNS1 IPv6, DNS2 IPv6	Addresses of the IPv6 DNS server 1 and DNS server2



Note: If you chose option 3 in step 9 for both IPv4 and IPv6, then even if you configure 2 DNS servers for IPv4 and IPv6, the system will only use the first DNS server from IPv4 and the first DNS server from the IPv6 configuration.

Note: In many dual stack networks, IPv4 DNS server(s) can resolve names to both IPv4 and IPv6. In such environments, if you do not have an IPv6 DNS server, then you can use public IPv6 DNS servers or use IPv4-mapped IPv6 address.

13. Configure Hostname for Supervisor/Worker. Press **Next**.



Configure Hostname For Supervisor
Configure hostname

Host name: **Supervisor-Hostname**

< **Next** > < **Back** > < **Exit** >

Note: FQDN is no longer needed.

14. 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**.

Note: By default, "google.com" is shown for the connectivity test, but if configuring IPv6, you must enter an accessible internally approved IPv6 DNS server, for example: "ipv6-dns.fortinet.com"

Note: When configuring both IPv4 and IPv6, only testing connectivity for the IPv6 DNS is required because the IPV6 takes higher precedence. So update the host field with an approved IPv6 DNS server.



Configure Supervisor
Enter host for checking network connectivity

ipv6-dns.fortinet.com

< **Next** > < **Back** > < **Exit** >

15. 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 America/Los_Angeles -i
172.30.56.103 -m 255.255.252.0 -g 172.30.56.1 --host sp56103-3103-v46 -t 64
--dns1 172.30.1.105 --dns61 2001:815a:1:1::ac1e:1007 --i6
2001:815a:1:1::ac1e:3103 --m6 64 --g6 2001:815a:1:1::ac1e:3820 -o change_ip
--testpinghost ipv6-dns.fortinet.com

< Run >      < Back >      < Exit >

```

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) or 64 (for both ipv4 and ipv6).
--dns1, --dns2	Addresses of the DNS servers
--i6	IPv6-formatted address
--m6	IPv6 prefix
--g6	IPv6 gateway
-o	Installation option (install_without_fips , install_with_fips , enable_fips , disable_fips , change_network_config*) *Option only available after installation.
-z	Time zone. Possible values are US/Pacific , Asia/Shanghai , Europe/London , or Africa/Tunis
--testpinghost	The host used to test connectivity

- 16.** It will take some time to complete the FortiSIEM installation. If the installation is successful, then the VM will reboot automatically. Otherwise, the VM 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
```

For the Supervisor, Worker and Collector, the response should be similar to the following.

```
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 VM in [Step 4](#).
2. Access FortiSIEM VM 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):

License Type

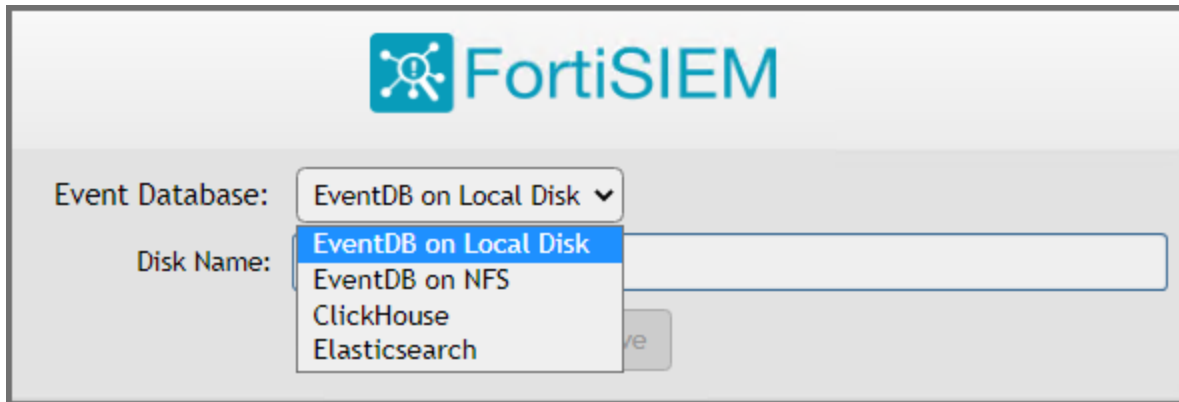
- Enterprise for single organizations
 - Service Provider for multiple organizations
4. Click **Upload** to complete the license registration.

Step 7: Accessing FortiSIEM UI

1. Note the IP Address assigned to FortiSIEM VM in [Step 5](#).
2. Access FortiSIEM VM from browser (<https://<FortiSIEM-IP>>). Please note that if you are logging into FortiSIEM with an IPv6 address, you should input [https://\[IPv6 address\]](https://[IPv6 address]) on the browser tab.
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. From the **Event Database** drop-down list, choose **EventDB on Local Disk**, **EventDB on NFS**, **ClickHouse**, or **Elasticsearch**. For more details, see [Configuring Storage](#).



Cluster Installation

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

- [Installing the Supervisor](#)
- [Installing Workers](#)
- [Registering Workers](#)

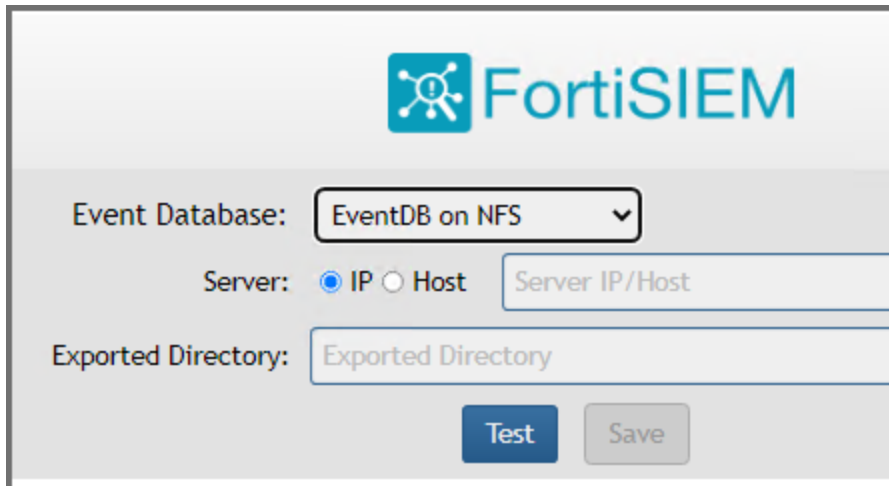
- [Installing Collectors](#)
- [Registering Collectors](#)

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 NFS, ClickHouse, or Elasticsearch.

NFS

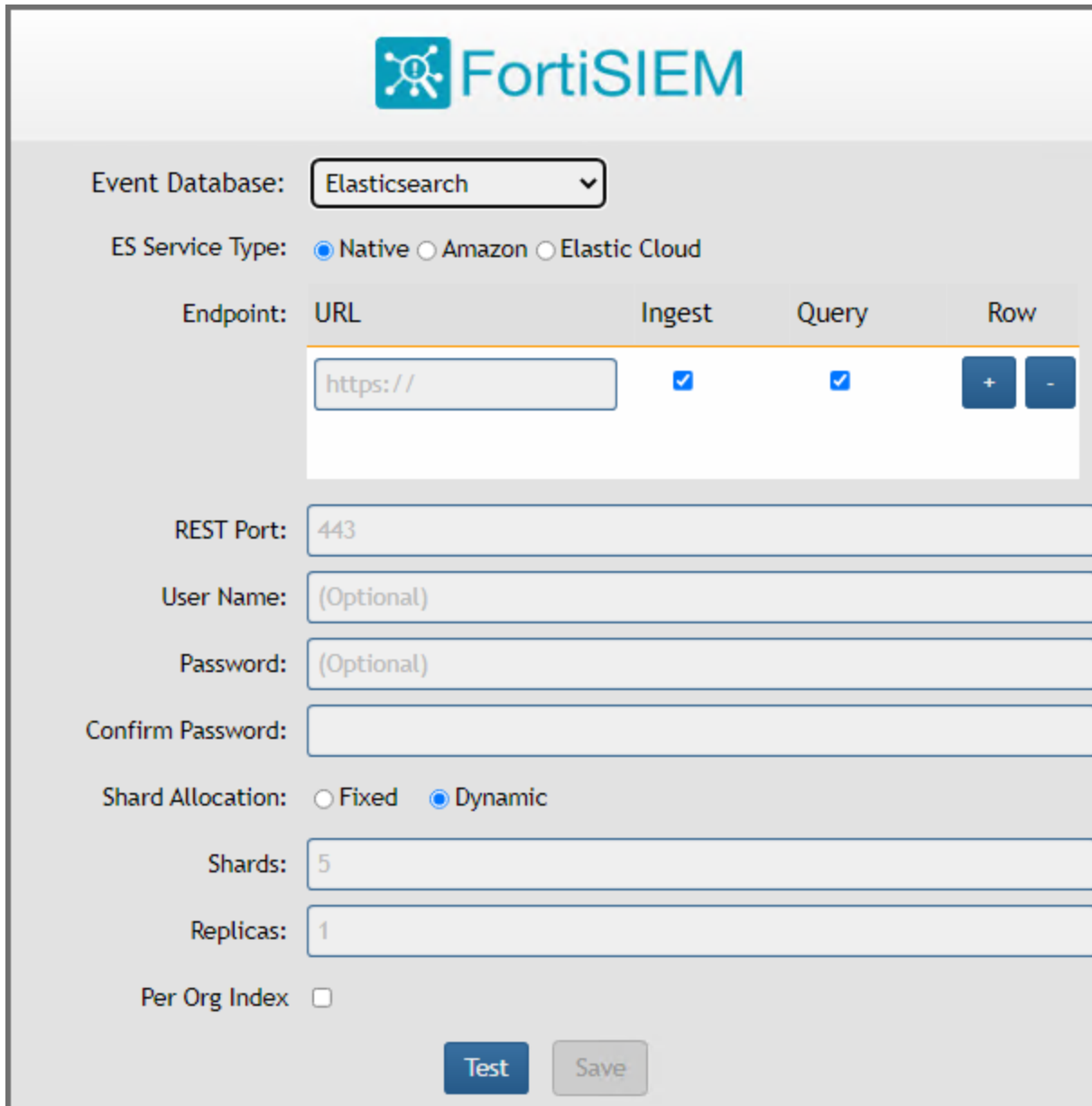


The screenshot shows the FortiSIEM configuration interface for setting up an NFS event database. At the top, the FortiSIEM logo is displayed. Below it, the 'Event Database' is set to 'EventDB on NFS' via a dropdown menu. The 'Server' configuration has two radio buttons: 'IP' (selected) and 'Host'. A text input field next to the radio buttons is labeled 'Server IP/Host'. Below this, there is a text input field for 'Exported Directory'. At the bottom of the form, there are two buttons: 'Test' and 'Save'.

ClickHouse

The screenshot displays the FortiSIEM configuration interface. At the top center is the FortiSIEM logo. Below it, the 'Event Database' is set to 'ClickHouse' in a dropdown menu. The 'Storage Tiers' are set to '2' in a dropdown menu. There are two sections for storage tiers: 'Hot Tier' and 'Warm Tier'. Each section has a 'Disk Path' input field and a 'Row' column with '+' and '-' buttons. At the bottom, there are 'Test' and 'Save' buttons.

Elasticsearch



The screenshot shows the FortiSIEM configuration interface for an Event Database. At the top, the FortiSIEM logo is displayed. Below it, the 'Event Database' is set to 'Elasticsearch'. The 'ES Service Type' is set to 'Native'. The 'Endpoint' section shows a table with columns for 'URL', 'Ingest', 'Query', and 'Row'. The 'URL' column contains 'https://'. The 'Ingest' and 'Query' columns have checkboxes checked. The 'Row' column has '+' and '-' buttons. Below the table, the 'REST Port' is set to '443'. The 'User Name' and 'Password' fields are optional. The 'Confirm Password' field is empty. The 'Shard Allocation' is set to 'Dynamic'. The 'Shards' field is set to '5' and the 'Replicas' field is set to '1'. The 'Per Org Index' checkbox is unchecked. At the bottom, there are 'Test' and 'Save' buttons.

Endpoint:	URL	Ingest	Query	Row
	https://	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	+ -

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 and host name. Click **Add**.

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

Name	IP Address	Module Role	Health	Version	Load Average	CPU	Swap Used
sp572.fortinet.com	172.30.57.2	Supervisor	Normal	6.1.0.1238	0.95,0.47,0.43	4%	0 KB
wk573.fortinet.com	172.30.57.3	Worker	Normal	6.1.0.1238	0.1,0.2,0.16	2%	0 KB

Process Name	Status	Up Time	CPU	Physical Memory	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		
ohDataManaaer	Up	14m 6s	0%	103 MB	1229 MB	1	126108

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.sh` runs.

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.

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

The screenshot shows the 'Collector Health' page in the FortiSIEM interface. It is divided into two main sections. The top section displays system-level health metrics for the 'Super' collector. The bottom section displays a list of running processes.

Organization	Name	IP Address	Status	Health	Up Time	CPU	Memory	Allocated EPS	Incoming EPS	Version	Col
Super	CO-ORG	172.30.57.4	up	Normal	3m 4s	65%	5%	200	0	6.1.0...	100

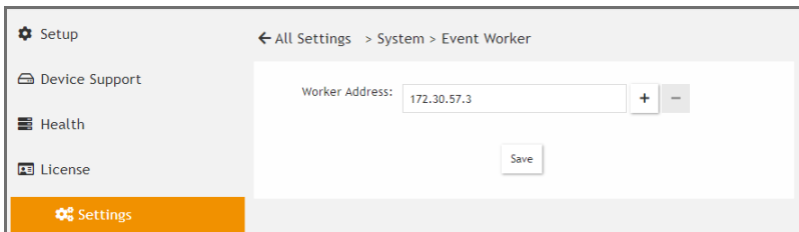
Process Name	Status	Up Time	CPU	Physical Memory	Virtual Memory	SharedStore ID	SharedStore Position
phMonitorAgent	Up	29s	0%	575 MB	1116 MB		
phParser	Up	17s	0%	106 MB	1190 MB	99	0
phPerfMonitor	Up	17s	0%	79 MB	766 MB		
phEventForwarder	Up	17s	0%	48 MB	547 MB		
phDiscover	Up	17s	0%	53 MB	513 MB		

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**.



c.

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:

```
# /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](#).

```
root@Co574 ~# phProvisionCollector
Usage: phProvisionCollector --add <Organization-user-name> <Organization-user-password> <Supervisor-IP> <Organization-name> <Collector-name>
root@Co574 ~# phProvisionCollector --add admin Admin=11.172.30.57.2 ORG CD-ORG
Continuing to provision the Collector
This collector is registered successfully. Normal Exit and restart of phMonitor after collector license registration.
root@Co574 ~# _
```

The Collector will reboot during the Registration.

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

The screenshot displays the 'Collector Health' page in the FortiSIEM interface. It is divided into two main sections: System Health and Process Health.

System Health Table:

Organization	Name	IP Address	Status	Health	Up Time	CPU	Memory	Allocated EPS	Incoming EPS	Version	Col
Super	CO-ORG	172.30.57.4	up	Normal	3m 4s	65%	5%	200	0	6.1.0...	100

Process Health Table:

Process Name	Status	Up Time	CPU	Physical Memory	Virtual Memory	SharedStore ID	SharedStore Position
phMonitorAgent	Up	29s	0%	575 MB	1116 MB		
phParser	Up	17s	0%	106 MB	1190 MB	99	0
phPerfMonitor	Up	17s	0%	79 MB	766 MB		
phEventForwarder	Up	17s	0%	48 MB	547 MB		
phDiscover	Up	17s	0%	53 MB	513 MB		

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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