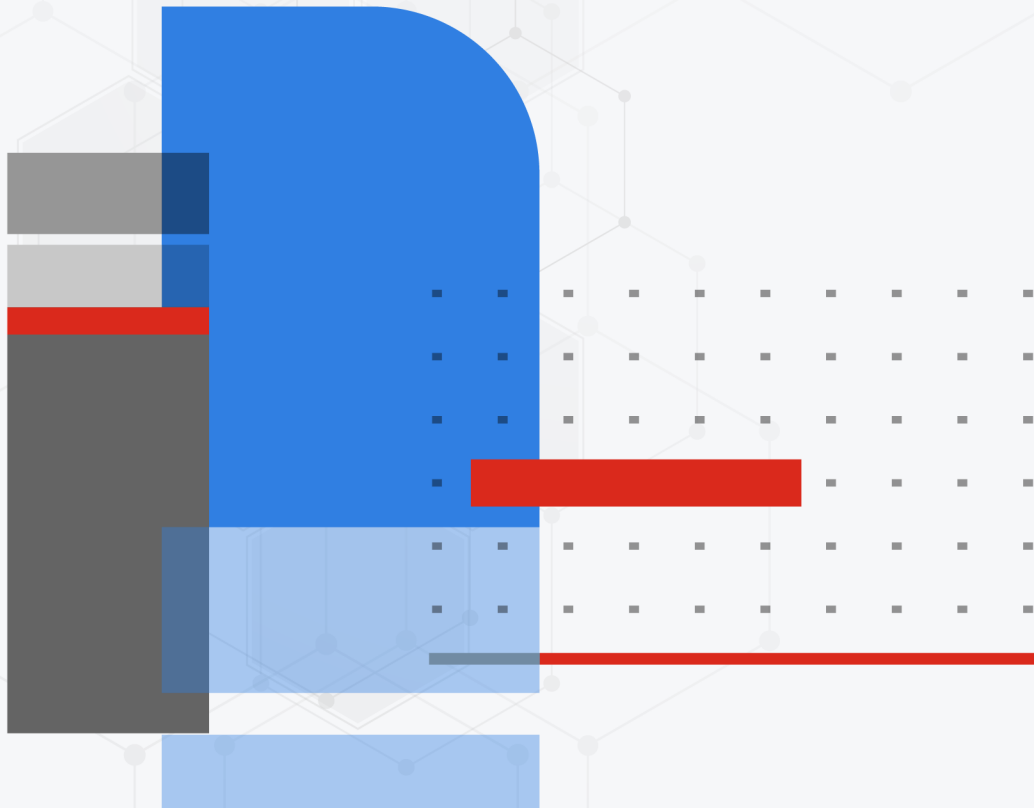




2000G Hardware Configuration Guide

FortiSIEM 6.7.2



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01/02/2024

FortiSIEM 6.7.2 2000G Hardware Configuration Guide

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Change Log

Date	Description
10/11/2021	Initial release of this guide.

Appliance Setup

Follow the steps below to setup FSM-2000G appliance.

- [All-in-one Installation](#)
- [Cluster Installation](#)

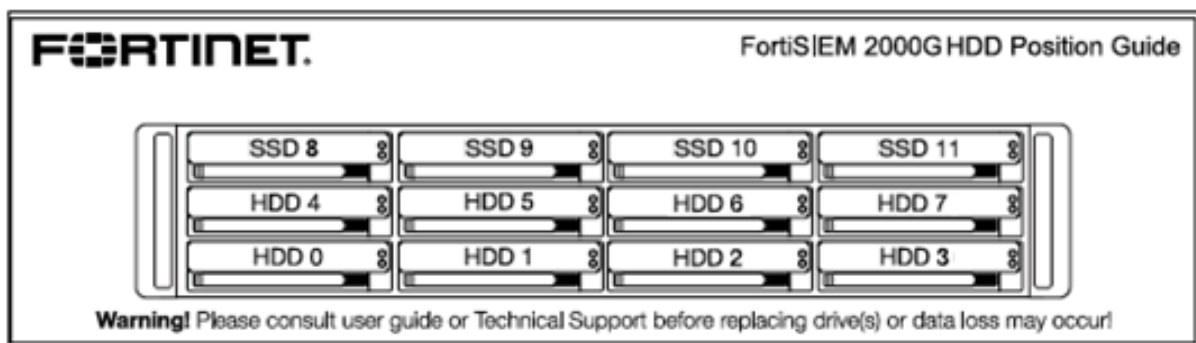
All-in-one Installation

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

- [Step 1: Rack Mount the FSM-2000G Appliance](#)
- [Step 2: Power On the FSM-2000G Appliance](#)
- [Step 3: Verify System Information](#)
- [Step 4: Configure FortiSIEM via GUI](#)
- [Step 5: Generate the FortiSIEM FSM-2000G 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-2000G Appliance

1. Follow FortiSIEM 2000G QuickStart Guide located [here](#) to mount FSM-2000G into the rack.
2. Insert solid state drive disks (SSD) and hard drive disks (HDD) into the positions as shown below:



Connect FSM-2000G to the network by connecting an Ethernet cable to Port 0.



Before proceeding to the next step, connecting Ethernet cable to Port 0 is required for Network configuration.

Step 2: Power On the FSM-2000G Appliance

1. Make sure the FSM-2000G device is connected to a Power outlet and an Ethernet cable is connected to Port 0.
2. Power On the FSM-2000G device.



FSM-2000G 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-2000G 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
<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 2000G physical port number label and the FortiSIEM 6.7.2 interface port numbering.

2000G Physical Port Number Label	FSM 6.7.2 Interface Port Numbering
port1	port0
port2	port1
port3	port2
port4	port3
port5	port5
port6	port4

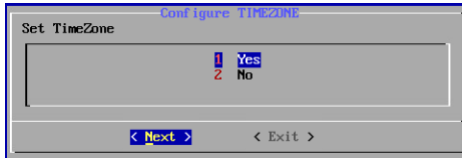
Step 4: Configure FortiSIEM via GUI

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

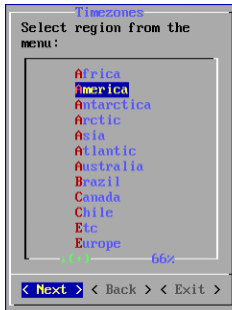
1. Log in as user `root` with the password you set in [Step 3](#) above.
2. At the command prompt, go to `/usr/local/bin` and enter `configFSM.sh`, for example:

```
# configFSM.sh
```

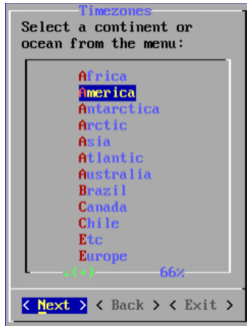
- In the console, select **1 Set Timezone** and then press **Next**.



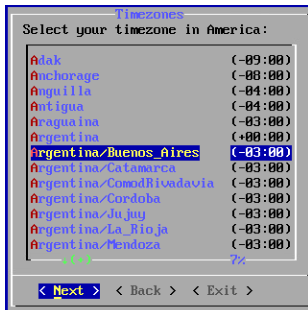
- Select your **Region**, and press **Next**.



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



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



- If installing a 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**.
 If Installing FortiSIEM Supervisor Follower, select **5 Supervisor Follower** 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.



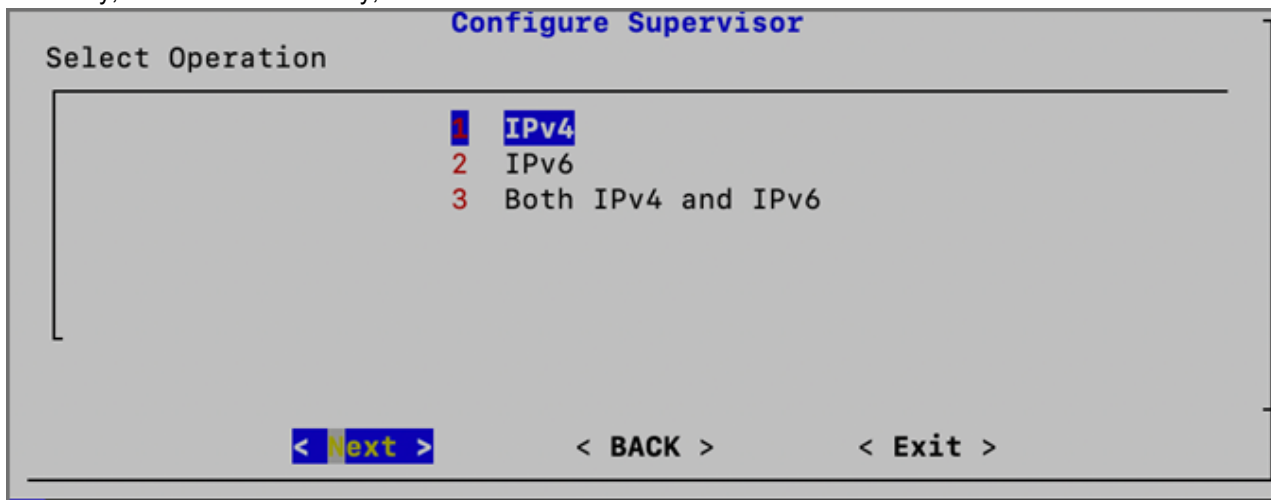
Regardless of whether you select **Supervisor**, **Supervisor Follower**, or **Worker**, you will see the same series of screens with only the header changed to reflect your target installation, unless noted otherwise.

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.

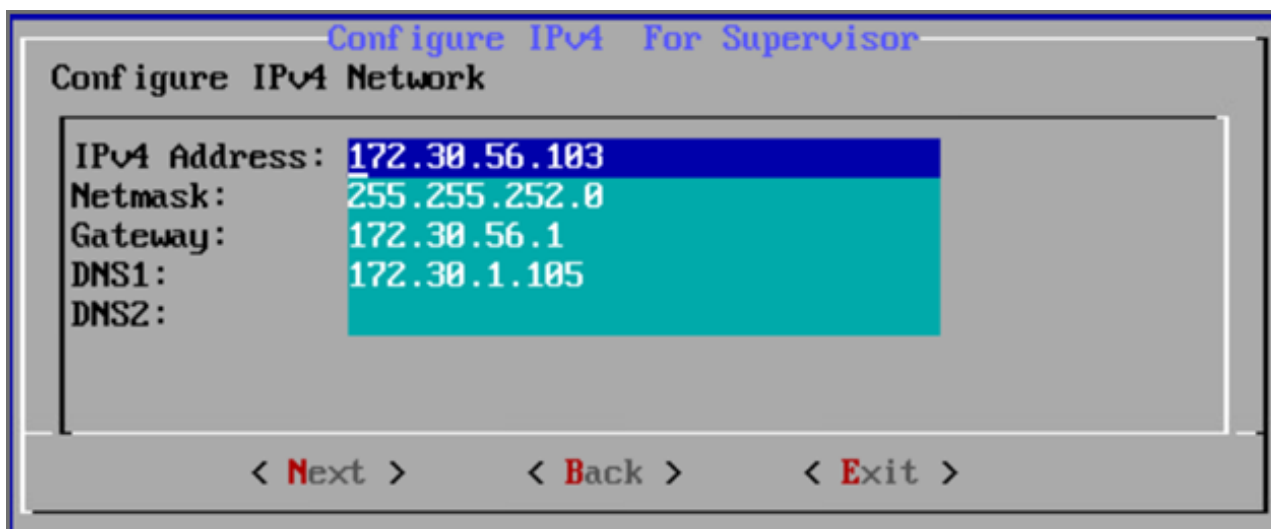


- Determine whether your network supports IPv4-only, IPv6-only, or both IPv4 and IPv6 (Dual Stack). Choose **1** for IPv4-only, choose **2** for IPv6-only, or choose **3** for both IPv4 and IPv6.



- 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/Collector's IPv4 address
NetMask	The Supervisor/Worker/Collector's subnet
Gateway	Network gateway address
DNS1, DNS2	Addresses of the DNS servers



- 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/Collector's IPv6 address
prefix (Netmask)	The Supervisor/Worker/Collector's IPv6 prefix (Netmask)
Gateway ipv6	IPv6 Network gateway address
DNS1 IPv6, DNS2 IPv6	Addresses of the IPv6 DNS server 1 and DNS server2

```

Configure IPv6 for Supervisor
Configure IPv6 Network

IPv6 Address:      2001:815a:1:1::ac1e:2050
prefix (Netmask): 64
Gateway ipv6:     2001:815a:1:1::ac1e:3820
DNS1 IPv6:        2001:815a:1:1::ac1e:1007
DNS2 IPv6:

< Next >      < Back >      < Exit >

```

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 FortiSIEM Supervisor/Worker/Collector. 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.

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**.

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

Option	Description
-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 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
```

For the Supervisor, Supervisor Follower, 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-2000G License Key File from FortiCare

1. Obtain the Hardware Serial Number from FSM-2000G 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):

License Type

- Enterprise for single organizations
- Service Provider for multiple organizations

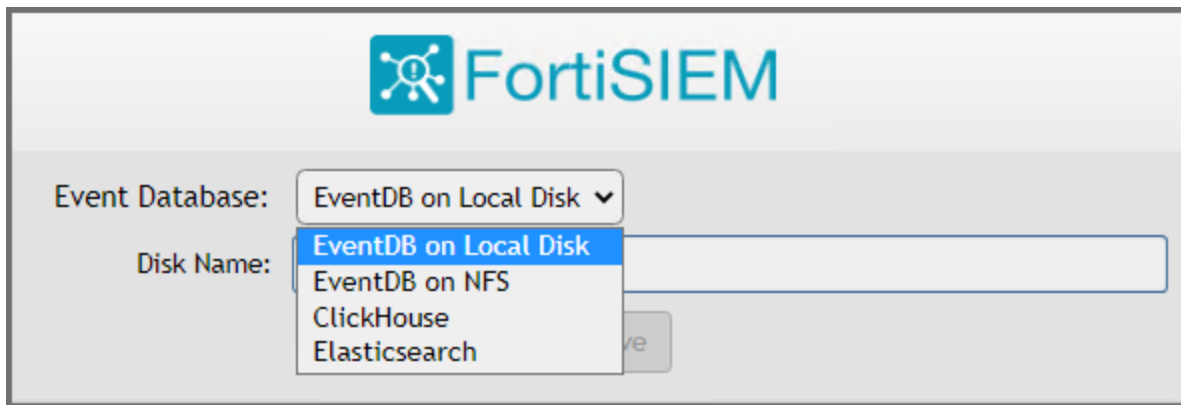
4. Click **Upload** to complete the license registration.

Step 7: Accessing FortiSIEM UI

1. Note the IP Address assigned to FortiSIEM in [Step 5](#).
2. Access FortiSIEM from browser (`https://<FortiSIEM-IP>`). Please note that if you are logging into FortiSIEM with an IPv6 address, you should input `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).

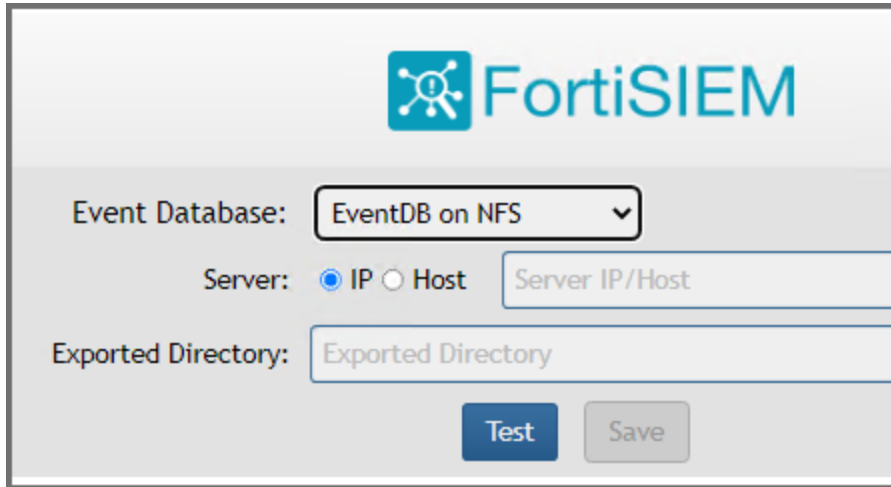
- [Installing the Supervisor](#)
- [Installing Workers](#)
- [Registering Workers](#)
- [Installing Collectors](#)
- [Registering Collectors](#)

Installing the Supervisor

Follow the steps in [All-in-one Installation](#) with two differences:

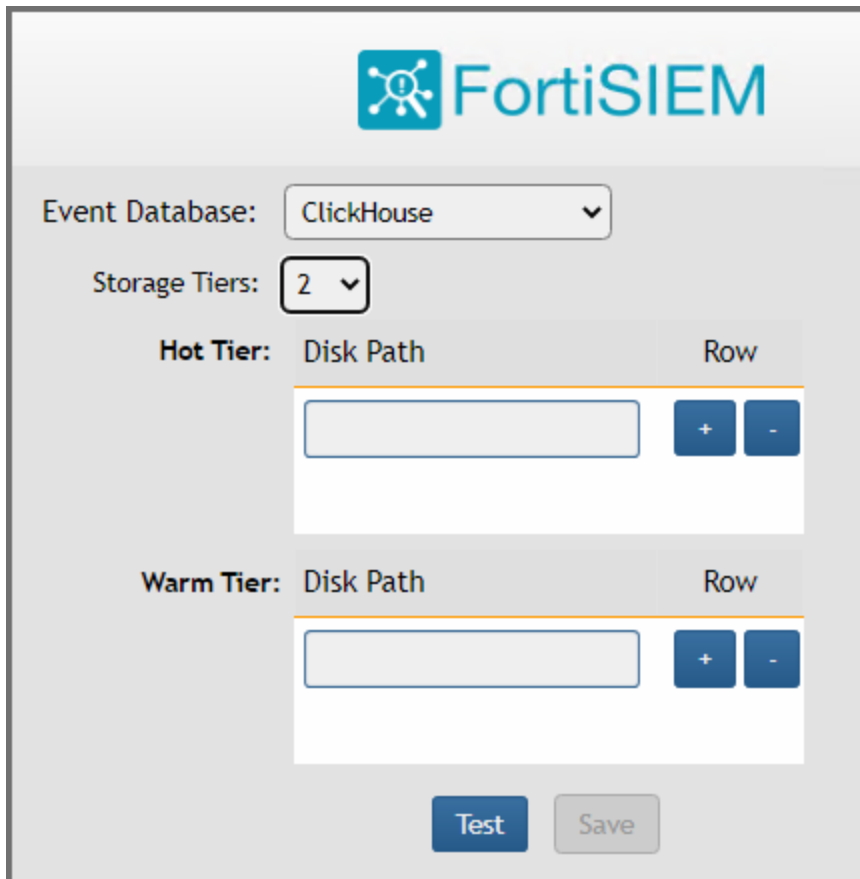
- Setting up hardware - you do not need an event database.
- Setting up an Event database - Configure the cluster for NFS, ClickHouse, or Elasticsearch.

NFS



The screenshot shows the FortiSIEM configuration interface for NFS. At the top is the FortiSIEM logo. Below it, the 'Event Database' is set to 'EventDB on NFS' in a dropdown menu. The 'Server' section has radio buttons for 'IP' (selected) and 'Host', with a text input field labeled 'Server IP/Host'. The 'Exported Directory' is a text input field. At the bottom are 'Test' and 'Save' buttons.

ClickHouse



The screenshot shows the FortiSIEM configuration interface for ClickHouse. At the top is the FortiSIEM logo. Below it, the 'Event Database' is set to 'ClickHouse' in a dropdown menu. The 'Storage Tiers' is 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' text input field and a 'Row' section with '+' and '-' buttons. At the bottom 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 configuration options are as follows:

- Event Database:** A dropdown menu set to "Elasticsearch".
- ES Service Type:** Radio buttons for "Native" (selected), "Amazon", and "Elastic Cloud".
- Endpoint:** A table with columns "URL", "Ingest", "Query", and "Row".

URL	Ingest	Query	Row
https://	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	+ -
- REST Port:** Text input field containing "443".
- User Name:** Text input field containing "(Optional)".
- Password:** Text input field containing "(Optional)".
- Confirm Password:** Text input field.
- Shard Allocation:** Radio buttons for "Fixed" and "Dynamic" (selected).
- Shards:** Text input field containing "5".
- Replicas:** Text input field containing "1".
- Per Org Index:** A checkbox that is currently unchecked.

At the bottom of the form, there are two buttons: "Test" and "Save".

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**.

Add Node
✕

Mode: Worker

Host Name:

IP Address:

Running On: VM

Storage Tiers: 2

Hot Tier:

Disk Path	Mounted On	Row
<input style="width: 90%;" type="text"/>	/data-clickhouse-hot-1	+ -

Warm Tier:

Disk Path	Mounted On	Row
<input style="width: 90%;" type="text"/>	/data-clickhouse-warm-1	+ -

Test
Save
Cancel

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

Cloud Health

Collector Health

Columns ▾
Lines: 2 Last update at 8:49:17 PM

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

Columns ▾

Process level metrics for wk573.fortinet.com (172.30.57.3)

Lines: 17

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		
phDataManaeer	Up	14m 6s	0%	103 MB	1229 MB	1	126108

Copyright © 2020 Fortinet, Inc. All rights reserved.
Organization: Super
User: admin
Scope: Global
FortiSIEM

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 > Cluster Config**.
 - a. Enter the IP of the Worker node in the **Event Upload Workers** column. 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 **Save**.
 - c. In the **Supervisors** column, enter the IP of the Supervisor node and click **Save**.
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.

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

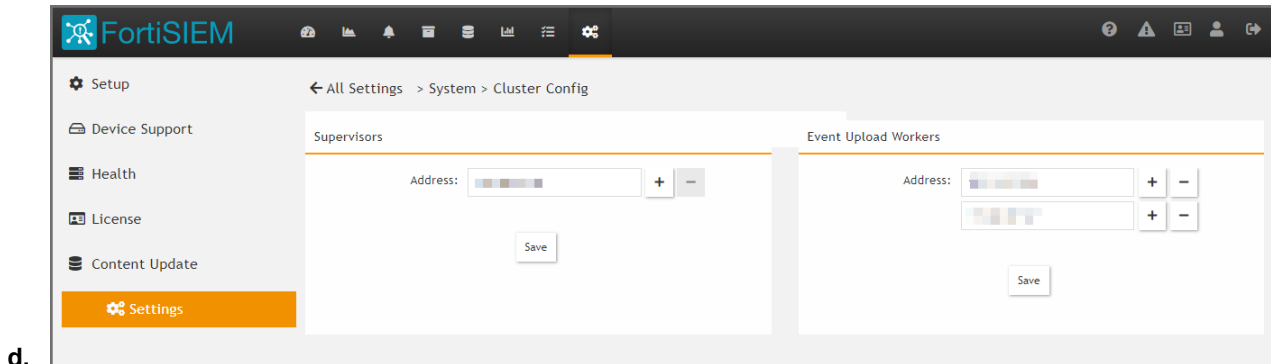
Process Name	Status	Up Time	CPU	Physical Memory	Virtual Memory	SharedStore ID	SharedStore Position
phMonitorAgent	Up	29s	0%	575 MB	1116 MB		
phParser	Up	17s	0%	106 MB	1190 MB	99	0
phPerfMonitor	Up	17s	0%	79 MB	766 MB		
phEventForwarder	Up	17s	0%	48 MB	547 MB		
phDiscover	Up	17s	0%	53 MB	513 MB		

Service Provider Deployments

For Service Provider deployments, follow these steps.

1. Log in to Supervisor with 'Admin' privileges.
2. Go to **ADMIN > Settings > System > Cluster Config**.
 - a. Enter the IP of the Worker node in the **Event Upload Workers** column. 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 **Save**.
 - c. In the **Supervisors** column, enter the IP of the Supervisor node and click **Save**.



d.

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.

- Set `user` and `password` using the admin user name and password for the Organization that the Collector is going to be registered to.
- Set `Super IP or Host` as the Supervisor's IP address.
- Set `Organization` as the name of an organization created on the Supervisor.
- 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 CO-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-2000G.

- [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-2000G.



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