

AWS Installation Guide

FortiSIEM 7.2.7



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FortiSIEM 7.2.7 AWS Installation Guide

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Change Log

Date	Change Description
06/05/2023	Released document for 7.0.0.
08/01/2023	Changed Local Disk specifications for Manager Node in Pre-Installation Checklist table.
11/06/2023	Released document for 7.1.0.
12/13/2023	Released document for 7.1.1.
01/12/2024	Released document for 7.1.2.
01/24/2024	Released document for 7.1.3.
03/05/2024	Released document for 7.1.4.
06/07/2024	Released document for 7.2.0.
06/26/2024	Released document for 7.2.1.
08/14/2024	Released document for 7.2.2.
09/12/2024	Released document for 7.2.3.
11/04/2024	Released document for 7.2.4.
02/03/2025	Released document for 7.2.5.
03/31/2025	Released document for 7.2.6.
10/06/2025	Released document for 7.2.7.

Fresh Installation

This section describes how to install FortiSIEM for the current release.

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

Pre-Installation Checklist

Before you begin, check the following:

- Ensure that your system can connect to the network. You will be asked to provide a DNS Server and a host that can be resolved by the DNS Server and can respond to a ping. The host can either be an internal host or a public domain host like google.com.
- Choose deployment type – Enterprise or Service Provider. The Service Provider deployment provides multi-tenancy.
- Determine whether FIPS should be enabled.
- Choose Install type:
 - All-in-one with FortiSIEM Manager
 - Cluster with Manager, Supervisor and Workers
 - All-in-one with Supervisor only, or
 - Cluster with Supervisor and Workers
- Choose the storage type for Supervisor, Worker, and/or Collector
 - Online storage - There are 4 choices
 - ClickHouse - Recommended for most deployments. Please see [ClickHouse Reference Architecture](#) for more information.



If you plan to use ClickHouse cluster, the Worker nodes will be defined as Keeper, Data or Query nodes. The Supervisor and Worker nodes can operate as a Keeper, Data or Query nodes. This is discussed in the [ClickHouse Reference Architecture](#), [Supervisor/Worker Nodes Running ClickHouse Functions](#) and [Configuring ClickHouse Topology](#).

- EventDB on local disk
 - EventDB on NFS
 - Elasticsearch
- Archive storage – There are 2 choices
 - EventDB on NFS
 - HDFS
- Fortinet recommends that you do not choose AWS Spot instances for Supervisor and Worker nodes. Such instances can go down at any time with short notice, causing instability and performance issues.
- Determine hardware requirements and choose AWS instance type accordingly:

Node	vCPU	RAM	Local Disks
Manager	Minimum – 16 Recommended - 32	Minimum • 24GB Recommended • 32GB	OS – 25GB OPT – 200GB CMDB – 100GB SVN – 60GB
Supervisor (All in one)	Minimum – 12 Recommended - 32	Minimum • without UEBA – 24GB • with UEBA - 32GB Recommended • without UEBA – 32GB • with UEBA - 64GB	OS – 25GB OPT – 100GB CMDB – 60GB SVN – 60GB Local Event database – based on need
Supervisor (Cluster)	Minimum – 12 Recommended - 32	Minimum • without UEBA – 24GB • with UEBA - 32GB Recommended • without UEBA – 32GB • with UEBA - 64GB	OS – 25GB OPT – 100GB CMDB – 60GB SVN – 60GB
Workers	Minimum – 8 Recommended - 16	Minimum – 16GB Recommended – 24GB	OS – 25GB OPT – 100GB
Collector	Minimum – 4 Recommended – 8 (based on load)	Minimum – 4GB Recommended – 8GB	OS – 25GB OPT – 100GB

- If your Online event database is external (e.g. EventDB on NFS or Elasticsearch), then you must configure external storage before proceeding to FortiSIEM deployment.
 - For NFS deployment, see [here](#).
 - For Elasticsearch deployment, see [here](#).
- If your Online event database is internal, that is, inside Supervisor or Worker nodes, then you need to determine the size of the disks based on your EPS (events per second) and event retention needs.
 - For EventDB on local disk, see [here](#).
 - For ClickHouse, see [here](#).
- 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.

All-in-one Installation

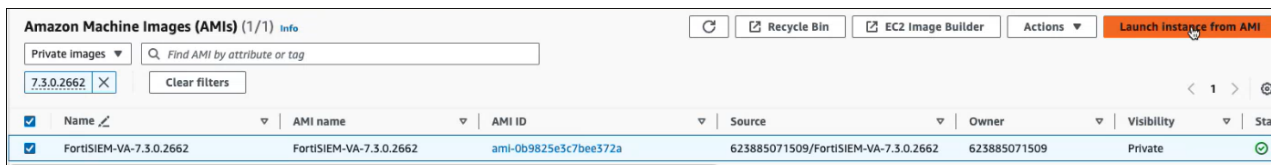
This is the simplest installation with a single Virtual Appliance. If storage is external, then you must configure external storage before proceeding with installation.

- [Launch an instance using FortiSIEM 7.2.7 AMI](#)
- [Configure FortiSIEM](#)
- [Upload the FortiSIEM License](#)

- [Configure an Event Database](#)
- [Final Check](#)

Launch an Instance Using FortiSIEM 7.2.7 AMI

1. Navigate to the EC2 AMIs page, find FortiSIEM 7.2.7 AMI (or in AWS Marketplace after the GA release), and select it.
2. Launch FortiSIEM-7.2.7.0285 by clicking **Launch instance from AMI**.



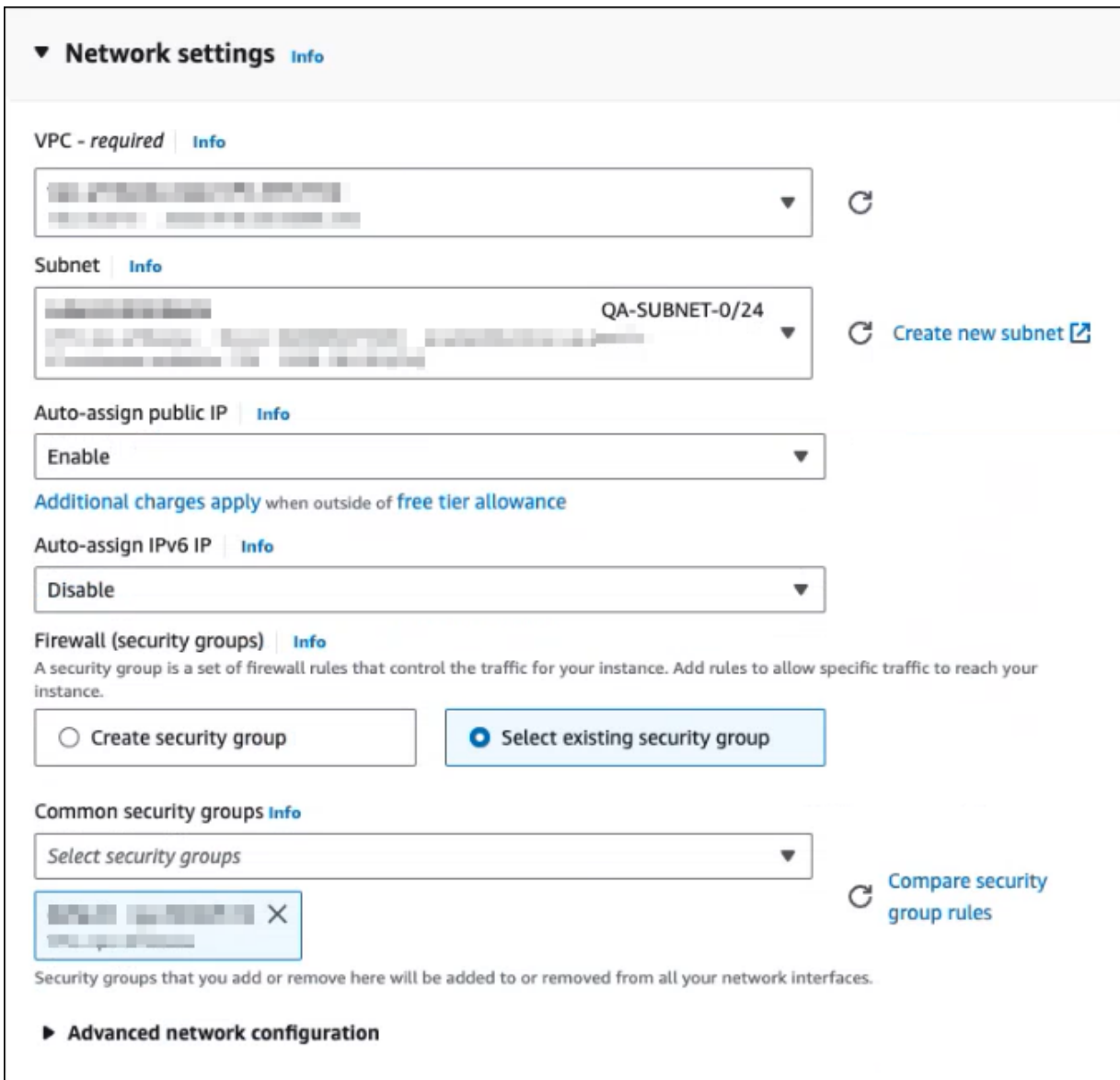
3. From the **Launch an instance** page, take the following actions.
 - a. From the **Name and tags** section, in the **Name** field, enter the name of your instance.



- b. From the **Instance type** drop-down list, select an appropriate instance type.
- c. From the **Key pair (login)** drop-down list, select a key pair (or create a key pair to use).
- d. From **Network settings**, click **Edit**. Configure instance network settings such as **VPC**, **Subnet**, **IP**, and **Security Group**.

Notes:

- If creating a Security Group, you will need ssh and https to begin with. Depending on whether this node will receive syslog or other inbound data, you may need to open additional protocols/ports.
- If you are planning to also assign global IPv6 address to your instance, then from the **Auto-assign IPv6 IP** drop-down list, select **Enable**.



- e. From the **Configure storage** pane, add additional disks by clicking **Add new volume** for each disk you wish to add, and entering the size and selecting the type (**gp3** should be used for most cases). These will be used for the additional partitions in the virtual appliance. An All In One deployment requires the [following additional partitions](#).

▼ **Configure storage** Info
Advanced

1x

25

GIB

gp3

▼

Root volume (Not encrypted)

1x

100

GIB

gp3

▼

EBS volume (Not encrypted)

Remove

1x

60

GIB

gp3

▼

EBS volume (Not encrypted)

Remove

1x

60

GIB

gp3

▼

EBS volume (Not encrypted)

Remove

Add new volume

🔄 Click refresh to view backup information

🔄

The tags that you assign determine whether the instance will be backed up by any Data Lifecycle Manager policies.

0 x File systems

Edit

Note: If you plan to onboard greater than 500 devices, or 5000 EPS, please consider increasing IOPS and Throughput for the disk used to mount /cmdb in FortiSIEM.

For instance, you can run the following command once FortiSIEM is initially deployed to determine which disk mounts the cmdb folder.

```
[admin@6 data-definition]$ lsblk | grep cmdb
└─sdc1 8:33 0 60G 0 part /cmdb
```

In this case /dev/sdc.

You can go into EBS volumes in AWS, and increase the IOPS to 5000, and Throughput to 400MB/s to be more in line with SSD performance.

Use these partition values:

Volume Name	Size	Disk Name
EBS Volume 2	100GB	/opt 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.
EBS Volume 3	60GB	/svn

Volume Name	Size	Disk Name
EBS Volume 4	60GB	/cmdb
EBS Volume 5	60GB+	/data (see the following note)

Note on EBS Volume 5:

- Add the 5th EBS Volume only if using EventDB on local storage or ClickHouse. In all other cases, this disk is not required. ClickHouse is recommended for most deployments. Please see [ClickHouse Reference Architecture](#) for more information.
- For EventDB on local disk, choose a disk based on your EPS and event retention policy. See [EventDB Sizing Guide](#) for guidance. 60GB is the minimum.
- For ClickHouse, choose disks based on the number of Tiers and disks on each Tier. These depend on your EPS and event retention policy. See [ClickHouse Sizing Guide](#) for guidance. For example, you can choose 1 large disk for Hot Tier. Or you can choose 2 Tiers - Hot Tier comprised of one or more SSD disks and Warm Tier comprised of one or more magnetic hard disks.
- Choose GP3 volume type for all volumes (GP3 is better than GP2 at a slightly lower cost). For the CMDB partition, you can choose to modify your volume type and IOPS based on your system workload if you see the consistently high IOPS requirement in your deployment.

f. From the **Summary** pane, click **Launch instance**.

▼ **Summary**

Number of instances [Info](#)

1


Software Image (AMI)
FortiSIEM-VA-...[read more](#)

Virtual server type (instance type)
m5a.4xlarge

Firewall (security group)
default

Storage (volumes)
5 volume(s) - 333 GiB

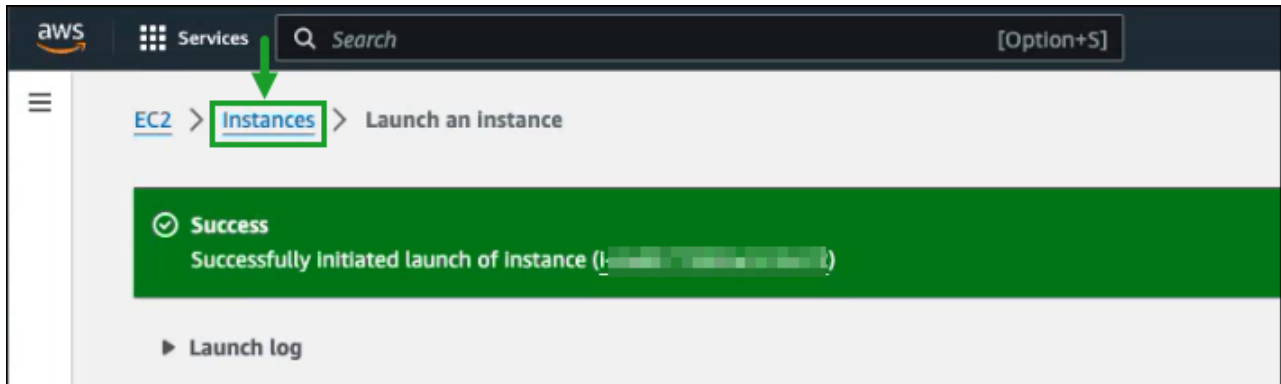
Free tier: In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) instance usage on free tier AMIs per month, 750 hours of public IPv4 address usage per month, 30 GiB of EBS storage, 2 million I/Os, 1 GB of snapshots, and 100 GB of bandwidth to the internet.

Cancel  **Launch instance**

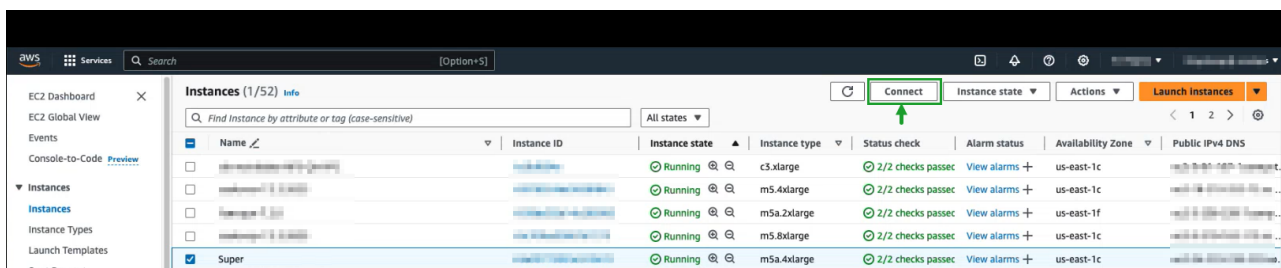
4. After receiving a **Success** message, navigate back to the **Instances** page.

✓ **Success**
Successfully initiated launch of instance (I-...)

Note: You can click **Instances** from the top breadcrumb path.



5. Check the status of your instance by examining the **Status check** column.
6. When your instance shows that all checks have passed, select the instance that you just created and click **Connect**.



7. From the **Connect to instance** page, at "Example:", copy the ssh line.

8. Now ssh to the instance you created, using the command you just copied, but replace `root` user with `ec2-user` before executing the ssh command.

Once logged in, you can execute the `sudo su -` command to become root user.

Note: If you are going to assign and use a global IPv6 address to your instance in addition to IPv4, then you will need to perform additional steps and reboot the instance. Take the following steps:

- Add the following lines to the file `/etc/sysconfig/network-scripts/ifcfg-eth0`.


```
IPV6INIT=yes
IPV6_FAILURE_FATAL=no
```
- Run the following command to add service `dhcpv6-client` to the firewall rules (DHCP v6 works differently than v4)


```
firewall-cmd --zone=fortisiem --permanent --add-service=dhcpv6-client
```
- Reboot the VM.

Configure FortiSIEM



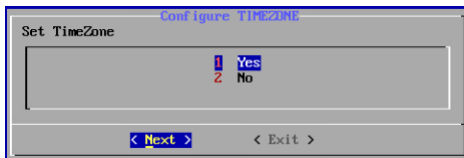
At no stage of the installation process is it required that users manually format the disks. FortiSIEM will provision the file system on disks as needed.

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

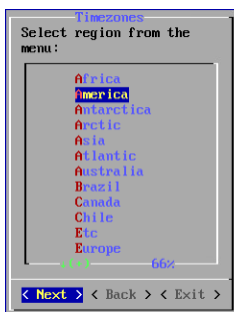
1. At the **root** command prompt, go to /usr/local/bin and enter configFSM.sh, for example:

```
# sudo -s; cd /usr/local/bin;
# configFSM.sh
```

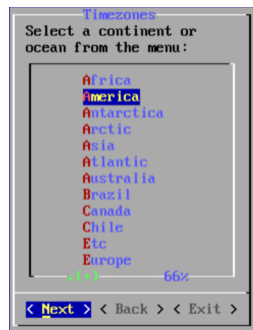
2. In VM console, select **1 Set Timezone** and then press **Next**.



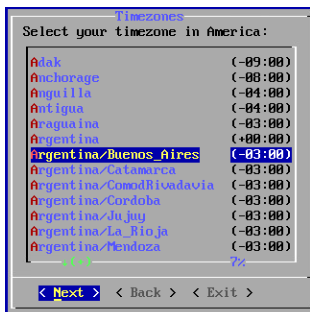
3. Select your **Location**, and press **Next**.



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



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



6. 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**.
 If Installing FortiSIEM Manager, select **4 FortiSIEM Manager**, and press **Next**.
 If Installing FortiSIEM Supervisor Follower, select **5 Supervisor Follower** and press **Next**.

Note: The appliance type cannot be changed once it is deployed, so ensure you have selected the correct option.

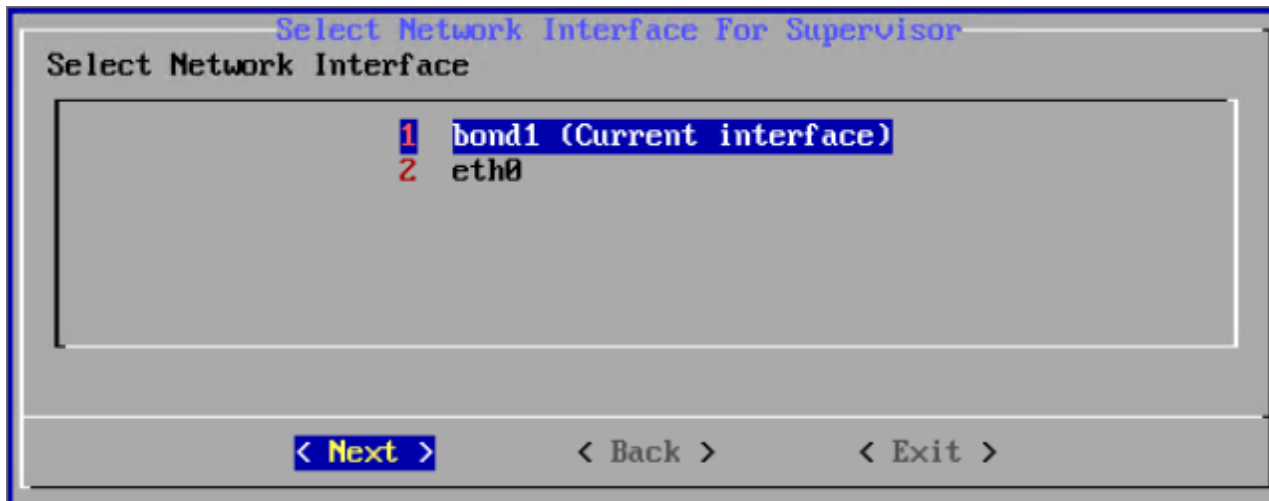


Regardless of whether you select **FortiSIEM Manager**, **Supervisor**, **Supervisor Follower**, **Worker**, or **Collector**, you will see the same series of screens with only the header changed to reflect your target installation, unless noted otherwise.

A dedicated ClickHouse Keeper uses a Worker, so first install a Worker and then in later steps configure the Worker as a ClickHouse Keeper.

7. Select the **Network Interface** you wish to use, and press **Next**.

Note: If a bond interface is configured, it will appear in the **Select Network Interface** window.



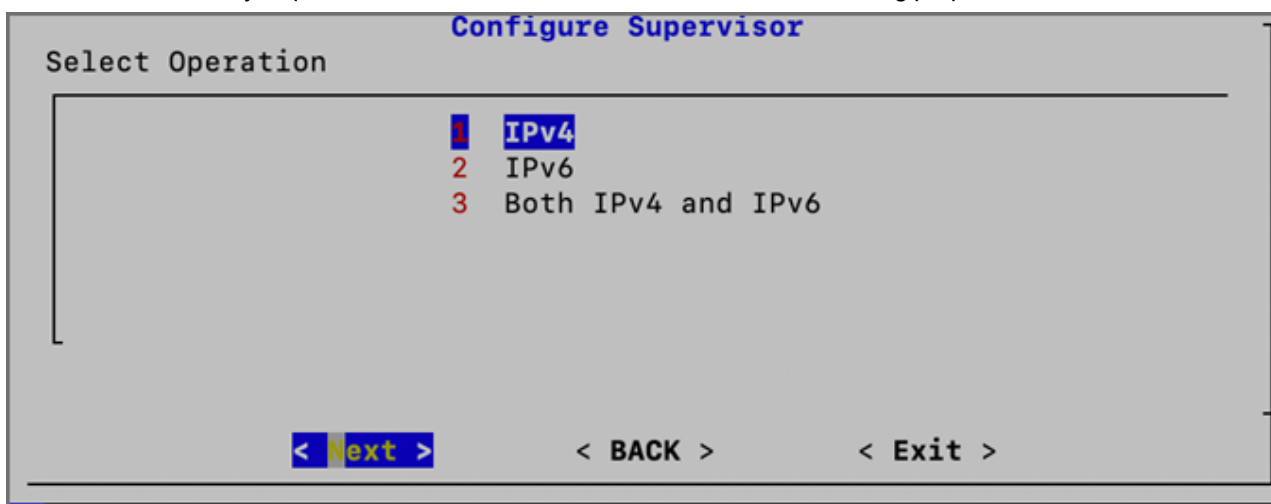
8. If you want to enable FIPS, then choose **2 install_with_fips**. Otherwise, choose **1 install_without_fips**. You have the option of enabling FIPS (option **3**) or disabling FIPS (option **4**) later.

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.



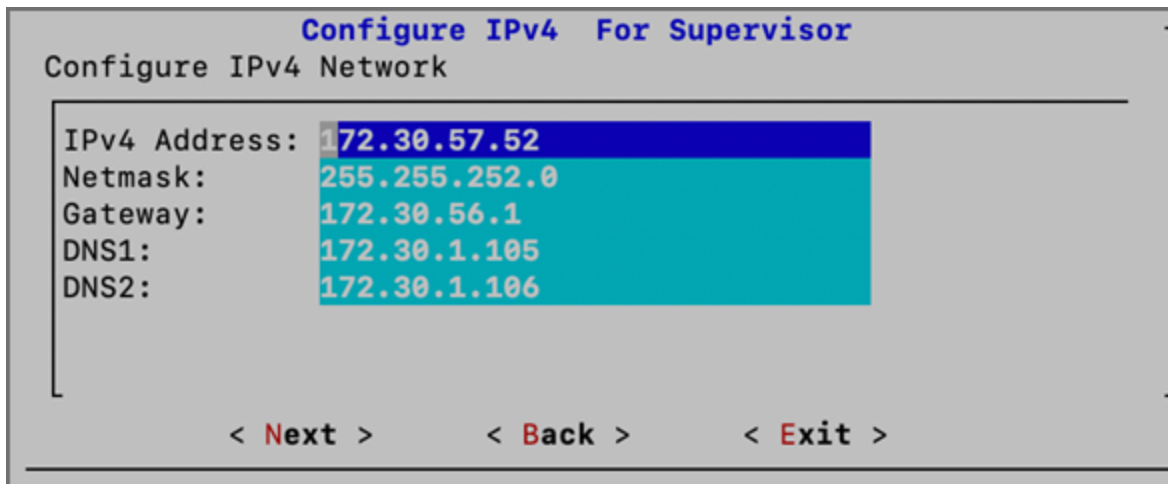
- Determine whether your network supports IPv4-only, or Both IPv4 and IPv6 (Dual Stack). Choose 1 for IPv4-only, or choose 3 for Both IPv4 and IPv6. Press **Next**.

Note: In AWS, do not choose option 2 (IPv-6 only), because you will end up with a status check failure. AWS infrastructure currently requires that the VM has an IPv4 address for its monitoring purpose.



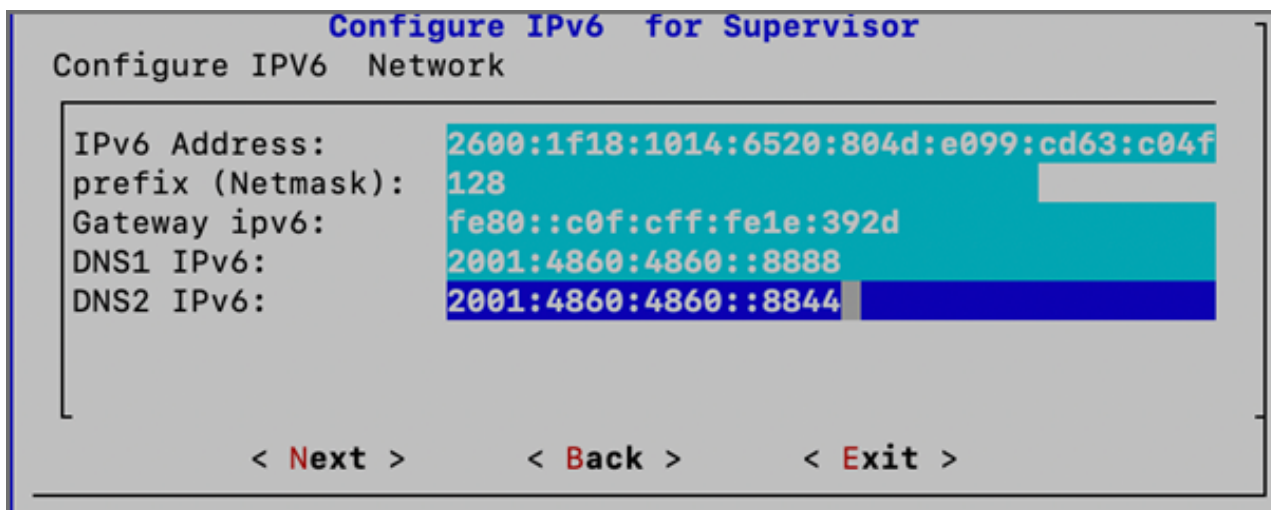
- First you will configure the IPv4 network by entering the following fields, then press **Next**.

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



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

Option	Description
IPv6 Address	The Manager/Supervisor/Worker/Collector's IPv6 address
prefix (Netmask)	The Manager/Supervisor/Worker/Collector's IPv6 prefix
Gateway ipv6	IPv6 Network gateway address
DNS1 IPv6, DNS2 IPv6	Addresses of IPv6 DNS server 1 and 2



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 IPv6 configuration.

Note: In AWS 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 such as Google DNS.

12. Configure Hostname for the FortiSIEM Manager, Supervisor, Worker, or Collector, then press **Next**.

Configure Hostname For Supervisor

Configure hostname

Host name: **Supervisor-Hostname**

< Next > < Back > < Exit >

13. Test network connectivity by entering a host name that can be resolved by your DNS Server (entered in the previous step) and can respond to a ping. The host can either be an internal host or a public domain host like google.com. Press **Next**.

Configure Supervisor

Enter host for checking network connectivity

myhost.com_

< Next > < Back > < Exit >

14. 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 10.0.0.4 -m
255.255.255.0 -g 10.0.0.1 --host super-631-dual-stack -t 64 --dns1 10.0.0.2
--dns61 2001:4860:4860::8888 --dns62 2001:4860:4860::8884 --i6
2600:1f18:1014:6520:804d:e099:cd63:c04f --m6 128 --g6
fe80::c0f:cff:fe1e:392d -o install_without_fips --testpinghost myhost.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 IPv6) or 64 (for both IPv4 and IPv6)
--dns1, --dns2	Addresses of the DNS server 1 and DNS server 2.
--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.
--testpinghost	The URL used to test connectivity

15. It will take some time for this process to finish. When it is done, proceed to [Upload the FortiSIEM License](#). If the VM fails, you can inspect the `ansible.log` file located at `/usr/local/fresh-install/logs` to try and identify the problem.

Upload the FortiSIEM License

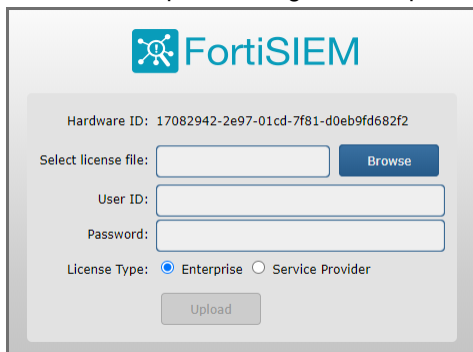


Before proceeding, make sure that you have obtained valid FortiSIEM license from Forticare. For more information, see the [Licensing Guide](#).

You will now be asked to input a license.

1. Open a Web browser and log in to the FortiSIEM UI. Please note that if you are logging into FortiSIEM with an IPv6 address, you should input `https://[IPv6 address]` on the browser tab.

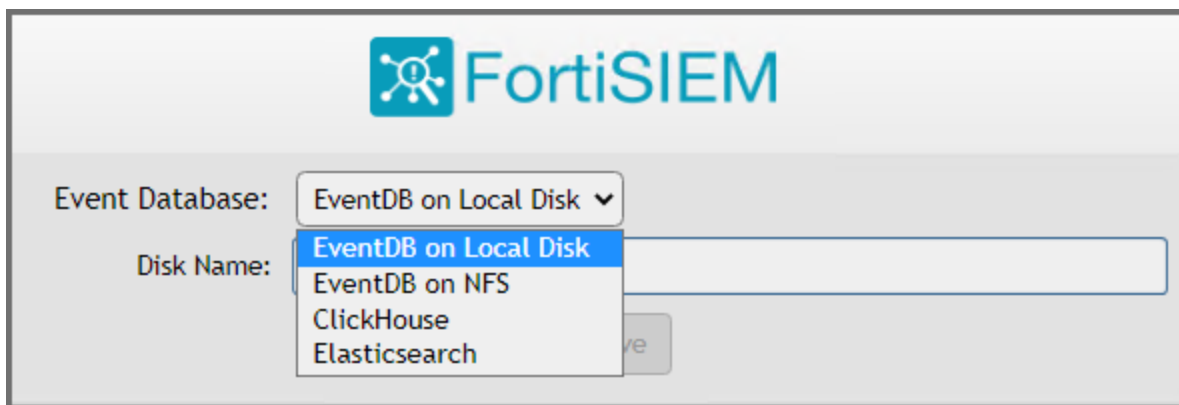
- The License Upload dialog box will open.



- Click **Browse** and upload the license file.
Make sure that the **Hardware ID** shown in the License Upload page matches the license.
- For **User ID** and **Password**, choose any **Full Admin** credentials.
For the first time installation, enter `admin` as the user and `admin*1` as the password. You will then be asked to create a new password for GUI access.
- For Supervisor, Worker, or Collector, choose **License type** as **Enterprise** or **Service Provider**. The following option will be available for first time installations. Once the database is configured, this option will not be available. For FortiSIEM Manager, **License Type** is not an available option, and will not appear. At this point, FortiSIEM Manager installation is complete. You will not be taken the Event Database Storage page, so you can skip **Configure an Event Database**.
Note: The FortiSIEM Manager license allows a certain number of instances that can be registered to FortiSIEM Manager.
- Proceed to [Configure an Event Database](#).

Configure an Event Database

Choose the event database.



If the Event Database is one of the following options, additional disk configuration is required.

- ClickHouse:** See Case 2 in [Creating ClickHouse Online Storage](#).
Recommended for most deployments. Please see [ClickHouse Reference Architecture](#) for more information.
- EventDB on Local Disk:** See Case 2 in [Creating EventDB Online Storage](#).

Final Check

FortiSIEM installation is complete. If the installation is successful, 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, Supervisor Follower, Worker and Collector, the response should be similar to the following.

```
Every 1.0s: /opt/phoenix/bin/phstatus.py
System uptime: 21:12:02 up 1:11, 1 user, load average: 0.16, 0.20, 0.36
Tasks: 27 total, 0 running, 26 sleeping, 0 stopped, 0 zombie
Cpu(s): 16 cores, 6.2%us, 2.1%sy, 0.0%ni, 91.4%id, 0.0%wa, 0.2%hi, 0.1%si, 0.0%st
Mem: 65762100k total, 10366036k used, 55336064k free, 4352k buffers
Swap: 2621436k total, 0k used, 2621436k free, 2465020k cached

PROCESS          UPTIME          CPU%          VIRT_MEM      RES_MEM
phParser         41:23           0             2176m         550m
phQueryMaster    41:41           0             1020m         77m
phRuleMaster     41:41           0             1079m         504m
phRuleWorker     41:41           0             1363m         205m
phQueryWorker    41:41           0             1383m         279m
phDataManager    41:41           0             1419m         205m
phDiscoverer     41:41           0             513m          53m
phReporterMaster 41:41           0             1433m         95m
phReporterMaster 41:41           0             603m          67m
phIdentityWorker 41:41           0             1027m         50m
phIdentityMaster 41:41           0             491m          39m
phAgentManager   41:41           0             1425m         54m
phCheckpointd    42:31           0             325m          34m
phPerfMonitor    41:41           0             702m          70m
phReportLoader   41:41           0             769m         270m
phBeaconEventPackager 41:41           0             1125m         65m
phDataParser     41:41           0             500m          50m
phEventForwarder 41:41           0             540m          46m
phMonitor        37:24           0             2000m         53m
apache           01:10:40        0             310m          16m
node_js-charting 01:10:19        0             916m          71m
node_js-pm2      01:10:13        0             26m           26m
AppSvr           01:10:07        0             15172m        3026m
DBSvr           01:10:38        0             317m          30m
phAnomaly        01:00:07        0             907m          64m
phFortiInsightAI 01:10:40        0             23432m        430m
Redis            01:10:18        0             55m           25m
```

For FortiSIEM Manager, the response should look similar to the following.

```
Every 1.0s: /opt/phoenix/bin/phstatus.py
System uptime: 11:34:52 up 1 day, 1:39, 2 users, load average: 0.80, 0.88, 0.92
Tasks: 5 total, 0 running, 5 sleeping, 0 stopped, 0 zombie
Cpu(s): 8 cores, 7.2%us, 0.2%sy, 0.0%ni, 92.3%id, 0.0%wa, 0.1%hi, 0.1%si, 0.0%st
Mem: 24468724k total, 6696192k used, 16212508k free, 5248k buffers
Swap: 26058744k total, 0k used, 26058744k free, 2352072k cached

PROCESS          UPTIME          CPU%          VIRT_MEM      RES_MEM
phMonitor        20:57:20        0             1130m         64m
Apache           1-01:20:00      0             305m          16m
Rsyslogd         1-01:38:42      0             192m          7388k
AppSvr           1-01:38:34      5             11153m        4182m
DBSvr           1-01:38:43      0             425m          39m
```

Cluster Installation

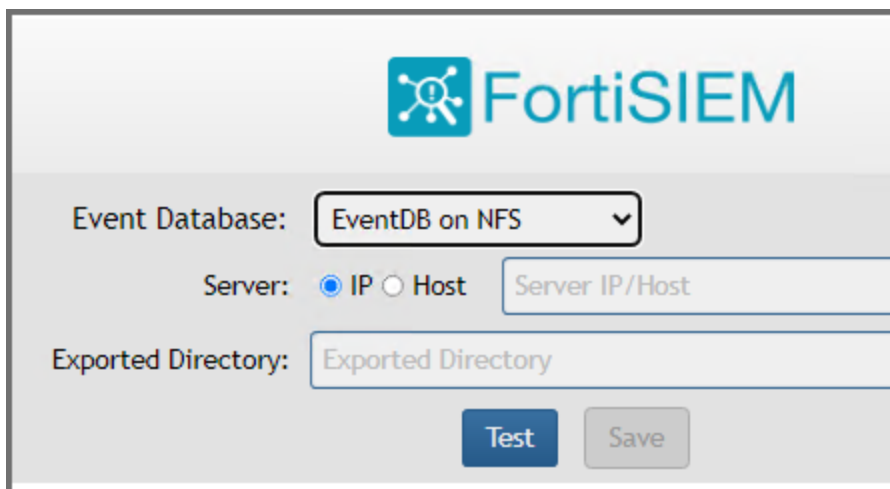
For larger installations, you can choose Worker nodes, Collector nodes, and external storage (NFS, ClickHouse or Elasticsearch).

- [Install Supervisor](#)
- [Install Workers](#)
- [Register Workers](#)
- [Create ClickHouse Topology \(Optional\)](#)
- [Install Collectors](#)
- [Register Collectors](#)
- [Install Manager](#)
- [Register Instances to Manager](#)

Install Supervisor

Follow the steps in [All-in-one Installation](#), except with the following differences.

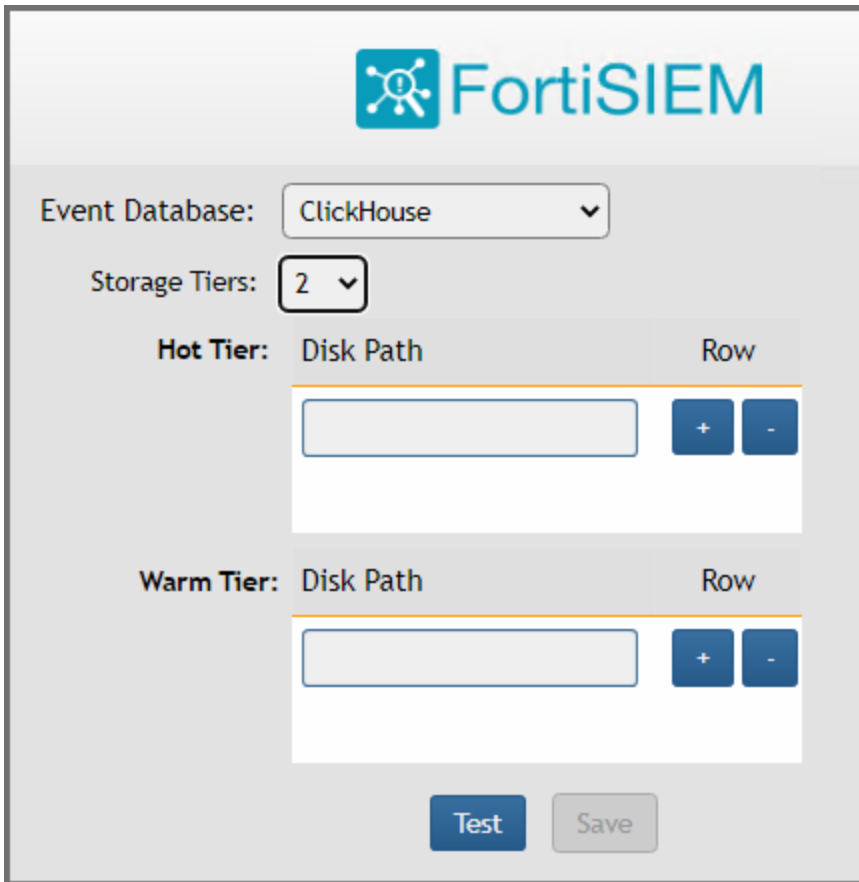
1. Event Database choices are **EventDB on NFS**, **ClickHouse**, or **Elasticsearch**.
2. If you choose **EventDB on NFS**
 - a. EBS Volume 5 is not required (From [Launch an instance using FortiSIEM 7.2.7 AMI Step 3e](#)).
 - b. You need to configure NFS after license upload.



The screenshot shows the FortiSIEM configuration interface. At the top is the FortiSIEM logo. Below it, the 'Event Database' is set to 'EventDB on NFS' via a dropdown menu. The 'Server' type is set to 'IP' (selected) with 'Host' as an alternative. A text field for 'Server IP/Host' is present. Below that is a text field for 'Exported Directory'. At the bottom, there are 'Test' and 'Save' buttons.

3. If you choose **ClickHouse**
 - a. You need to create disks during [Launch an instance using FortiSIEM 7.2.7 AMI Step 3e](#) based on the role of the Supervisor node in the ClickHouse cluster. See the [ClickHouse Sizing Guide](#) for details.

- b. You need to configure disks after license upload.



The screenshot shows the FortiSIEM configuration interface. At the top, the FortiSIEM logo is displayed. Below the logo, the 'Event Database' is set to 'ClickHouse'. The 'Storage Tiers' are set to '2'. There are two sections for configuring 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.

- 4. If you choose **Elasticsearch**, define Elasticsearch endpoints after license upload. See the [Elasticsearch Sizing Guide](#) for details.

The screenshot shows the FortiSIEM configuration interface for Elasticsearch. 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.

Install Workers

Once the Supervisor is installed, take the same steps in [All-in-one Installation](#) to install a Worker with the following differences.

1. Choose appropriate CPU and memory for the Worker nodes based on Sizing guide.
2. Two hard disks for Operating Systems and FortiSIEM Application:
 - 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.

- If you are running ClickHouse, then create additional data disks based on the role of the Worker in ClickHouse topology. If it is a Keeper node, then a smaller disk is needed. If it is a data node, then a bigger disk is needed based on your EPS and retention policy. See ClickHouse Sizing Guide for details.

Sizing Guide References:

- [ClickHouse Sizing Guide](#)
- [EventDB Sizing Guide](#)
- [Elasticsearch Sizing Guide](#)

▼ **Configure storage** Info Advanced

1x GiB ▼ Root volume (Not encrypted)

1x GiB ▼ EBS volume (Not encrypted)

Register Workers

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

- Go to **ADMIN > License > Nodes**.
- Select Worker from the **Mode** drop-down list and enter the following information:
 - In the **Host Name** field, enter the Worker's host name.
 - In the **IP Address** field, enter the Worker's IP address.
 - If you are running ClickHouse, then select the number for Storage Tiers from the **Storage Tiers** drop-down list, and input disk paths for disks in each Tier in the **Disk Path** fields.

For **Disk Path**, use one of the following CLI commands to find the disk names.

```
fdisk -l
```

or

```
lsblk
```

When using `lsblk` to find the disk name, please note that the path will be `/dev/<disk>`, for example, `/dev/vdc`.

d. Click **Test**.

e. If the test succeeds, then click **Save**.

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

Create ClickHouse Topology (Optional)

If you are running ClickHouse, you need to configure ClickHouse topology by specifying which nodes belong to ClickHouse Keeper and Data Clusters. Follow the steps in [Configuring ClickHouse Topology](#).

Install Collectors

Once Supervisor and Workers are installed, follow the same steps in [All-in-one Install](#) to install a Collector except in [Edit FortiSIEM Hardware Settings](#), you need to 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.

The screenshot shows a 'Configure storage' window with a dropdown arrow on the left and 'Info' and 'Advanced' links on the right. It contains two storage entries:

- 1x 25 GiB gp3 Root volume (Not encrypted)
- 1x 100 GiB gp3 EBS volume (Not encrypted) with a 'Remove' button to its right.

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 > Cluster Config**.
 - a. Under **Event Upload Workers**, 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 > Settings > System > Event Worker** and enter the IP of the Supervisor node. Click **Save**.
4. 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**.

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

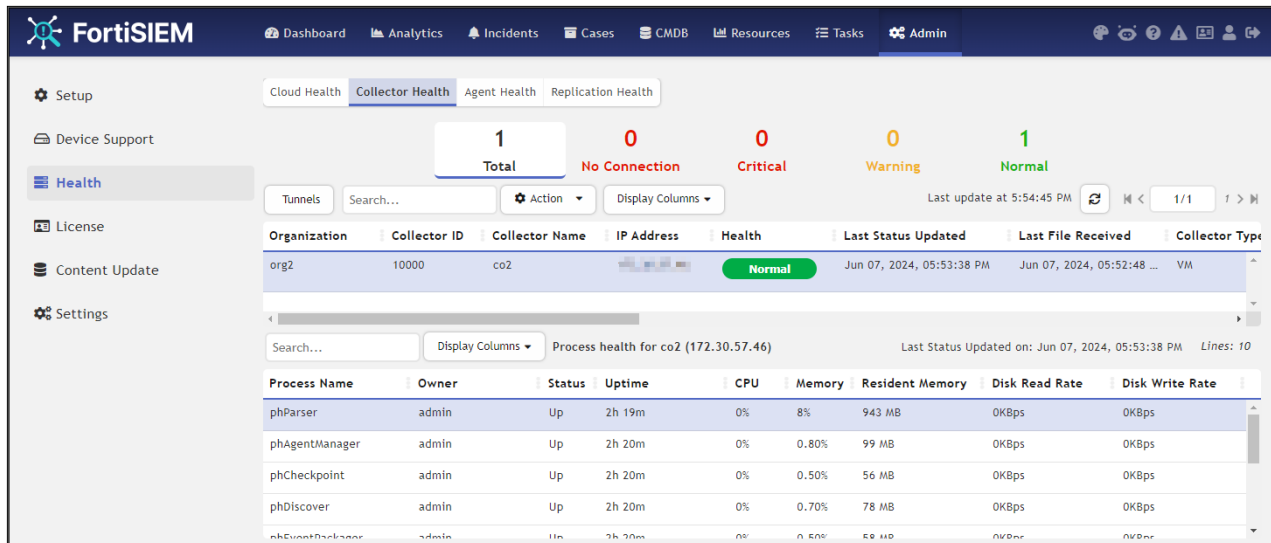
```
phProvisionCollector --add <user> '<password>' <Super IP or Host> <Organization>
<CollectorName>
```

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.

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



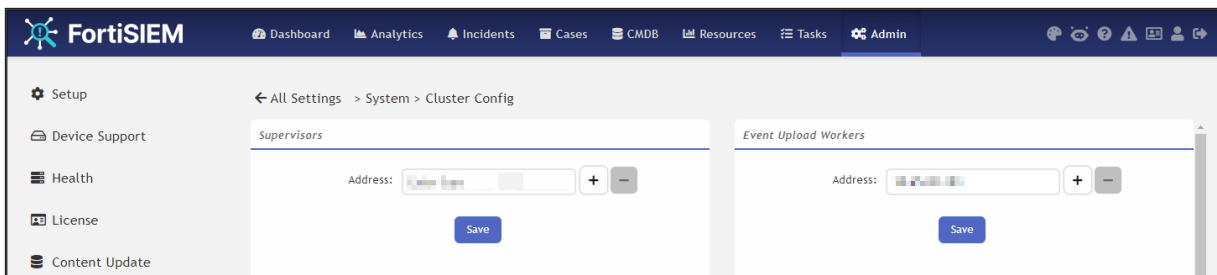
Service Provider Deployments

For Service Provider deployments, follow these steps.

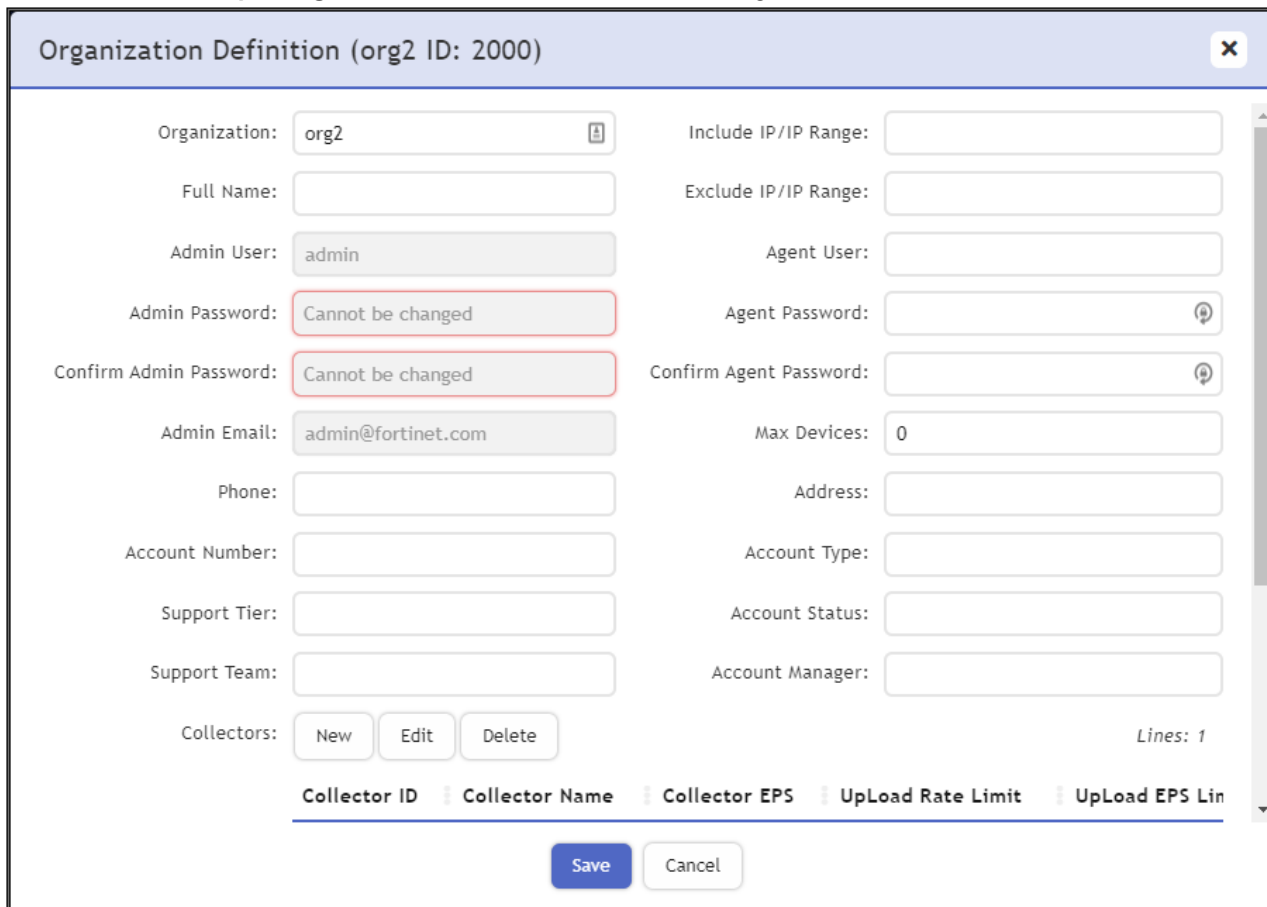
1. Log in to Supervisor with 'Admin' privileges.
2. Go to **ADMIN > Settings > System > Cluster Config**.
 - a. Under **Event Upload Workers**, enter the IP of the Worker node. If a Supervisor node is only used, then enter the IP of the Supervisor node. Multiple IP addresses can be entered on separate 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:

```
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 4a](#).

```
root@ec574 ~# phProvisionCollector
Usage: phProvisionCollector --add <Organization-user-name> <Organization-user-password> <Supervisor-IP> <Organization-name> <Collector-name>
root@ec574 ~# 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@ec574 ~# _
```

The Collector will reboot during the Registration.

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

The screenshot shows the FortiSIEM Admin interface. The top navigation bar includes Dashboard, Analytics, Incidents, Cases, CMDB, Resources, Tasks, and Admin. The left sidebar has Setup, Device Support, Health, License, Content Update, and Settings. The main content area is titled 'Collector Health' and shows a summary of health metrics: 1 Total, 0 No Connection, 0 Critical, 0 Warning, and 1 Normal. Below this, there is a table of collectors and a detailed process health view for a specific collector.

Organization	Collector ID	Collector Name	IP Address	Health	Last Status Updated	Last File Received	Collector Type
org2	10000	co2		Normal	Jun 07, 2024, 05:53:38 PM	Jun 07, 2024, 05:52:48 ...	VM

Process Name	Owner	Status	Uptime	CPU	Memory	Resident Memory	Disk Read Rate	Disk Write Rate
phParser	admin	Up	2h 19m	0%	8%	943 MB	0KBps	0KBps
phAgentManager	admin	Up	2h 20m	0%	0.80%	99 MB	0KBps	0KBps
phCheckpoint	admin	Up	2h 20m	0%	0.50%	56 MB	0KBps	0KBps
phDiscover	admin	Up	2h 20m	0%	0.70%	78 MB	0KBps	0KBps
phEventProcessor	admin	Up	2h 20m	0%	0.6%	58 MB	0KBps	0KBps

Install Manager

Starting with release 6.5.0, you can install FortiSIEM Manager to monitor and manage multiple FortiSIEM instances. An instance includes a Supervisor and optionally, Workers and Collectors. The FortiSIEM Manager needs to be installed on a separate Virtual Machine and requires a separate license. FortiSIEM Supervisors must be on 6.5.0 or later versions.

Follow the steps in [All-in-one Install](#) to install Manager. After any Supervisor, Workers, and Collectors are installed, you add the Supervisor instance to Manager, then Register the instance to Manager. See [Register Instances to Manager](#).

Register Instances to Manager

To register your Supervisor instance with Manager, you will need to do two things in the following order.

- First, [add the instance to Manager](#)
- Then [register the instance itself to Manager](#)

Note that Communication between FortiSIEM Manager and instances is via REST APIs over HTTP(S).

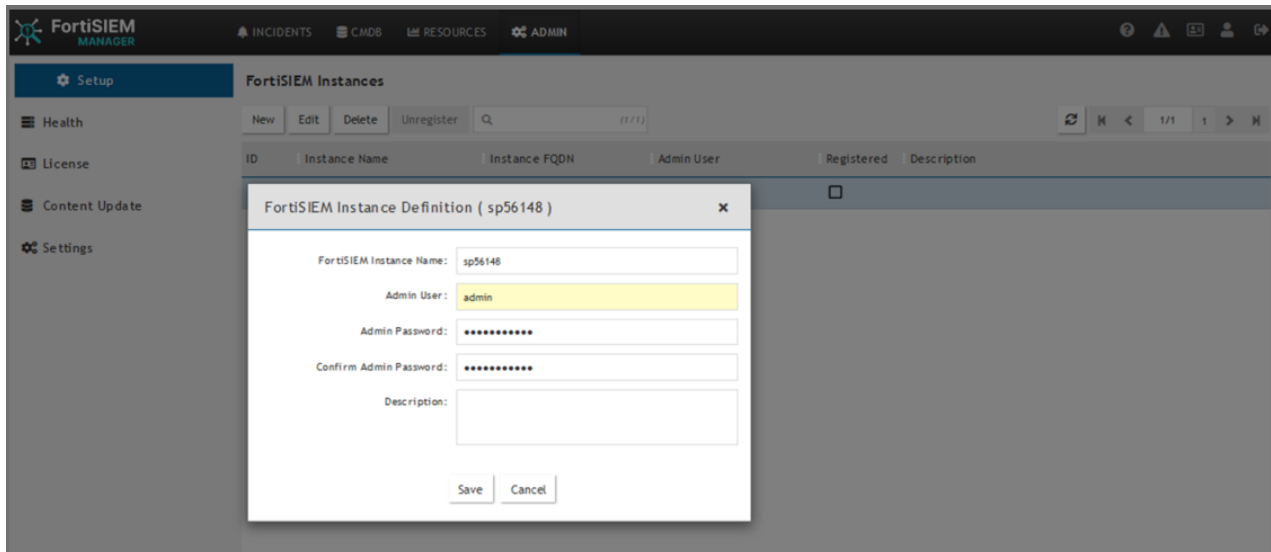
Adding Instance to Manager

You can add an instance to Manager by taking the following steps.

Note: Make sure to record the FortiSIEM Instance Name, Admin User and Admin Password, as this is needed when you register your instance.

1. Login to FortiSIEM Manager.
2. Navigate to **ADMIN > Setup**.
3. Click **New**.
4. In the **FortiSIEM Instance** field, enter the name of the Supervisor instance you wish to add.
5. In the **Admin User** field, enter the Account name you wish to use to access Manager.
6. In the **Admin Password** field, enter the Password that will be associated with the Admin User account.

7. In the **Confirm Admin Password** field, re-enter the Password.
8. (Optional) In the **Description** field, enter any information you wish to provide about the instance.
9. Click **Save**.

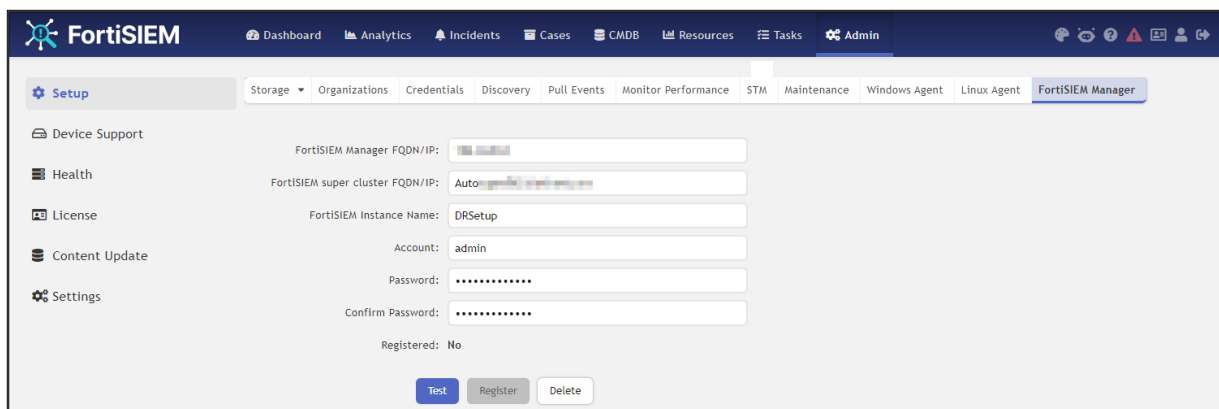


10. Repeat steps 1-9 to add any additional instances to Manager.
Now, follow the instructions in [Register the Instance Itself to Manager](#) for each instance.

Register the Instance Itself to Manager

To register your instance with Manager, take the following steps.

1. From your FortiSIEM Supervisor/Instance, navigate to **ADMIN > Setup > FortiSIEM Manager**, and take the following steps.
 - a. In the **FortiSIEM Manager FQDN/IP** field, enter the FortiSIEM Manager Fully Qualified Domain Name (FQDN) or IP address.
 - b. If the Supervisor is under a Supervisor Cluster environment, in the **FortiSIEM super cluster FQDN/IP** field, enter the Supervisor Cluster Fully Qualified Domain Name (FQDN) or IP address.
 - c. In the **FortiSIEM Instance Name** field, enter the instance name used when adding the instance to Manager.
 - d. In the **Account** field, enter the Admin User name used when adding the instance to Manager.
 - e. In the **Password** field, enter your password to be associated with the Admin User name.
 - f. In the **Confirm Password** field, re-enter your password.
 - g. Click **Test** to verify the configuration.
 - h. Click **Register**.
A dialog box displaying "Registered successfully" should appear if everything is valid.



The screenshot shows the FortiSIEM Admin console interface. The top navigation bar includes 'Dashboard', 'Analytics', 'Incidents', 'Cases', 'CMDB', 'Resources', 'Tasks', and 'Admin'. The 'Admin' section is expanded, showing sub-menus like 'Storage', 'Organizations', 'Credentials', 'Discovery', 'Pull Events', 'Monitor Performance', 'STM', 'Maintenance', 'Windows Agent', 'Linux Agent', and 'FortiSIEM Manager'. The 'FortiSIEM Manager' sub-menu is selected, displaying a registration form. The form fields are: 'FortiSIEM Manager FQDN/IP:' (with a dropdown menu), 'FortiSIEM super cluster FQDN/IP:' (with a dropdown menu), 'FortiSIEM Instance Name:' (text input with 'DRSetup'), 'Account:' (text input with 'admin'), 'Password:' (password input with dots), and 'Confirm Password:' (password input with dots). Below the form, it says 'Registered: No'. At the bottom of the form are three buttons: 'Test', 'Register', and 'Delete'.

- i. Login to Manager, and navigate to any one of the following pages to verify registration.
 - **ADMIN > Setup** and check that the box is marked in the **Registered** column for your instance.
 - **ADMIN > Health**, look for your instance under FortiSIEM Instances.
 - **ADMIN > License**, look for your instance under FortiSIEM Instances.

Install Log

The install ansible log file is located here: `/usr/local/fresh-install/logs/ansible.log`.

Errors can be found at the end of the file.



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