



# Hyper-V Installation Guide

FortiSIEM 7.5.1



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Email: [techdoc@fortinet.com](mailto:techdoc@fortinet.com)



05/04/2026

FortiSIEM 7.5.1 Hyper-V Installation Guide

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# Change Log

Date	Change Description
12/23/2025	Release of FortiSIEM - Hyper-V Installation Guide for 7.5.0.
05/04/2026	Release of FortiSIEM - Hyper-V Installation Guide for 7.5.1.

# Fresh Installation

- [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 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](#).

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- EventDB on local disk
  - EventDB on NFS
  - Elasticsearch
- Archive storage – There are 2 choices
  - EventDB on NFS
  - HDFS
- Determine hardware requirements:

Node	vCPU	RAM	Local Disks (Minimum Requirements)
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 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.

- [Download Compressed FortiSIEM VHDX File](#)
- [Create FortiSIEM VM in Hyper-V](#)

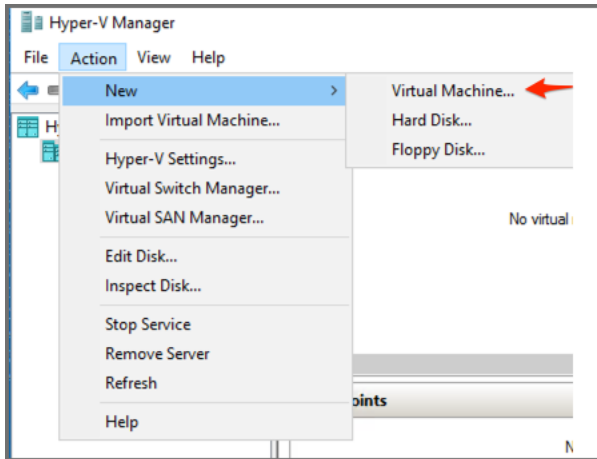
- Start FortiSIEM from Hyper-V Manager
- Configure FortiSIEM
- Upload the FortiSIEM License
- Configure an Event Database
- Final Check

## Download Compressed FortiSIEM VHDX File

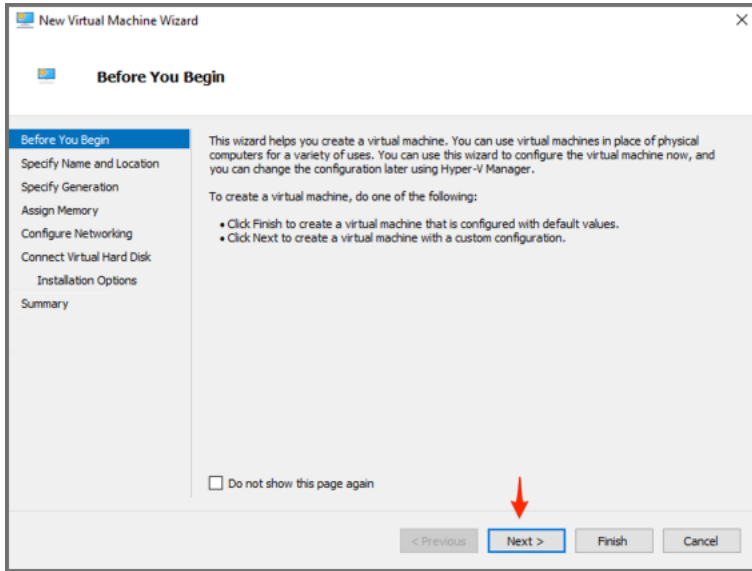
1. Go to the Fortinet Support website <https://support.fortinet.com> to download the Hyper-V package FSM\_Full\_All\_HYPERV\_7.5.1\_build0620.zip. See [Downloading FortiSIEM Products](#) for more information on downloading products from the support website.
2. Download and uncompress the all-in-one package used for Super/Worker and Collector (using [7-Zip tool](#)) to the location where you want to install the image.

## Create FortiSIEM VM in Hyper-V

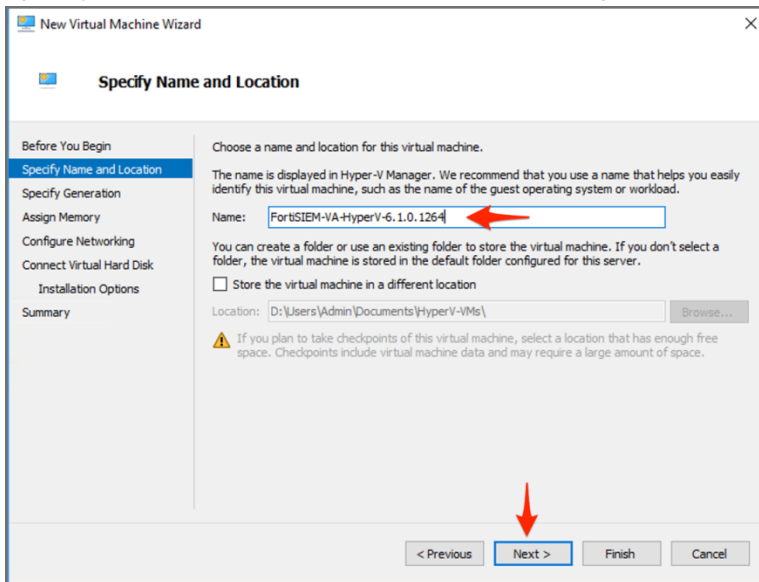
1. Launch Hyper-V Manager on your Microsoft Windows 2012 R2, 2016, 2019 or 2022 Server with Hyper-V installed.
2. Click **Action > New > Virtual Machine**, then Click **Next**.



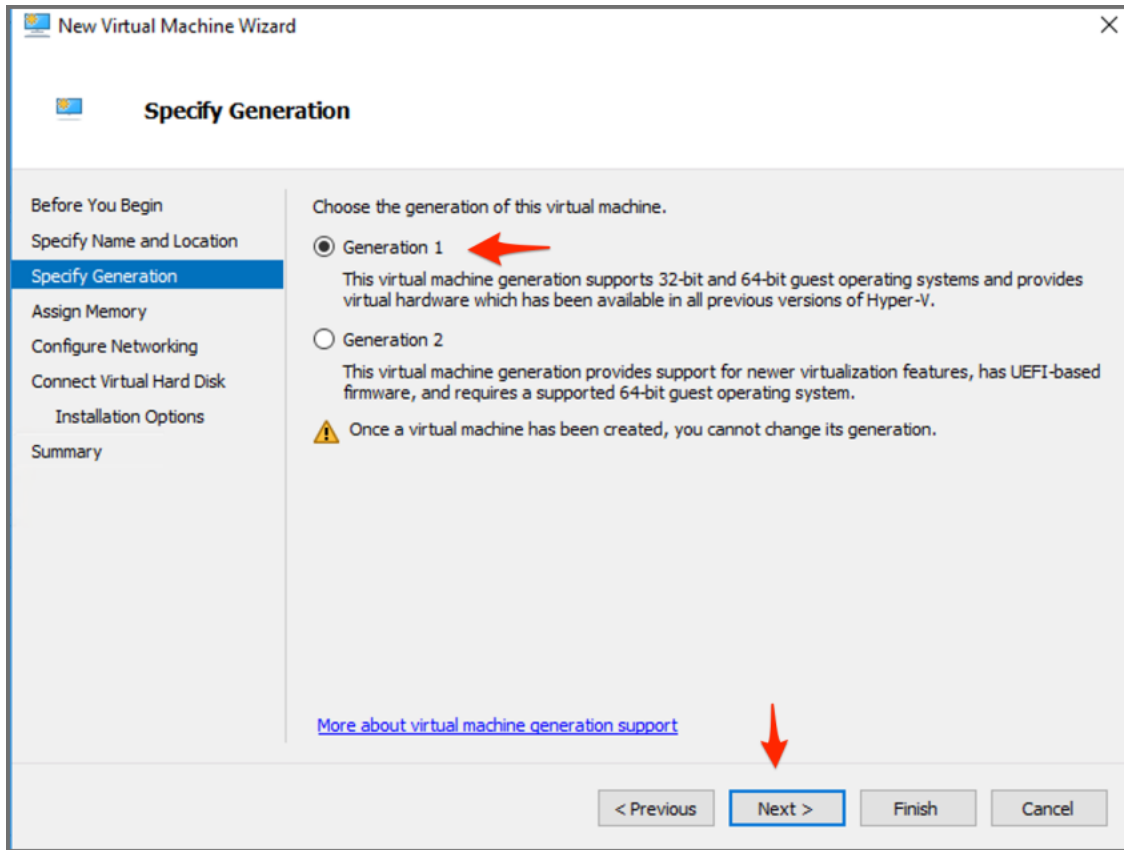
3. In the Before You Begin screen, click **Next**.



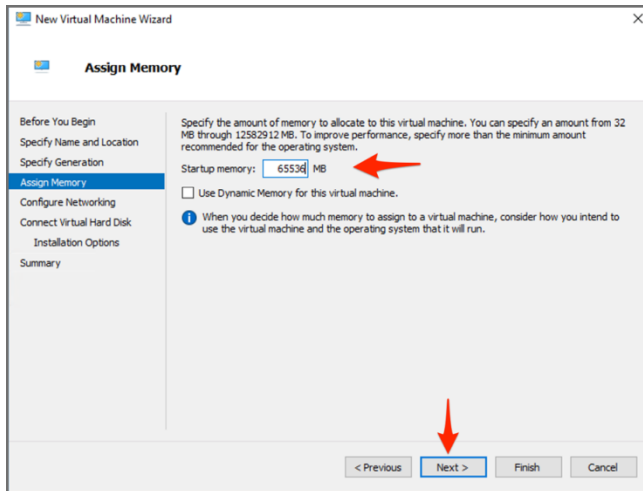
4. Specify the **Name** of the Virtual Machine, for example:



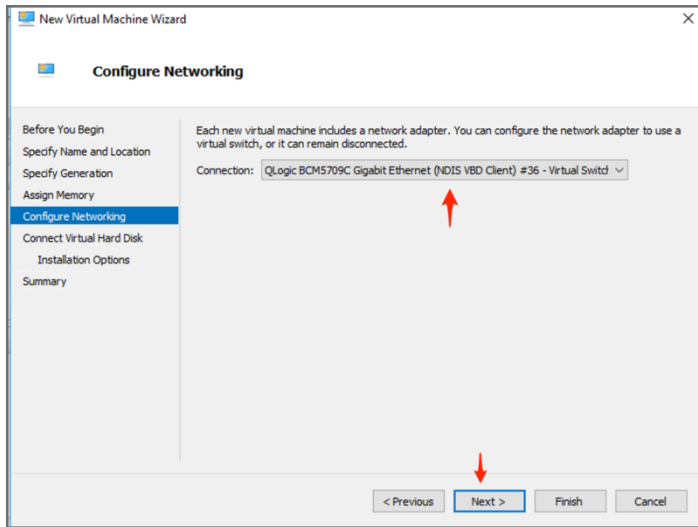
5. Specify the **Generation** type (choose **Generation 1**), for example:



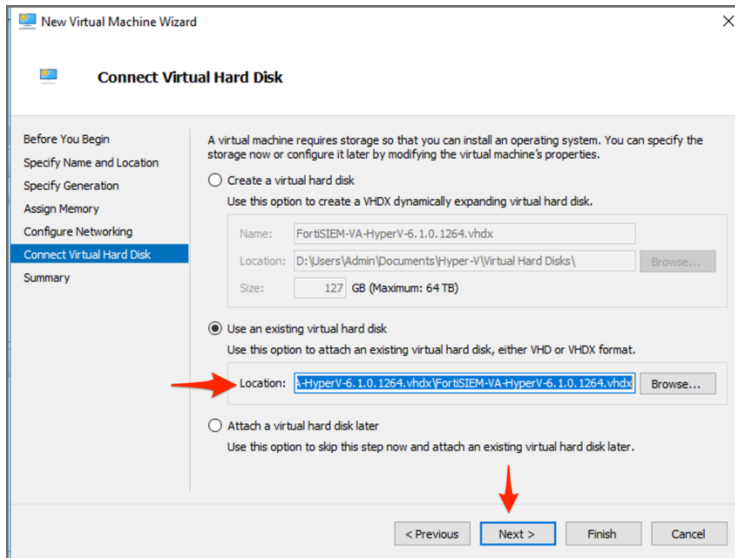
6. Add the amount of memory as per hardware requirements, then click **Next**.



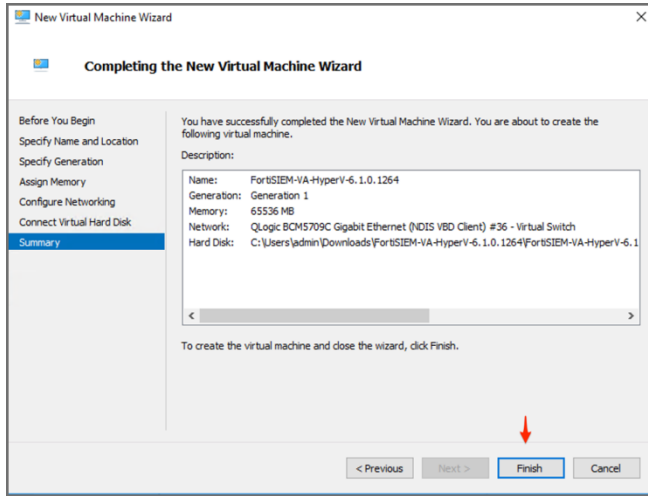
7. Configure Networking and select the virtual switch in your Hyper-V environment. Click **Next**.



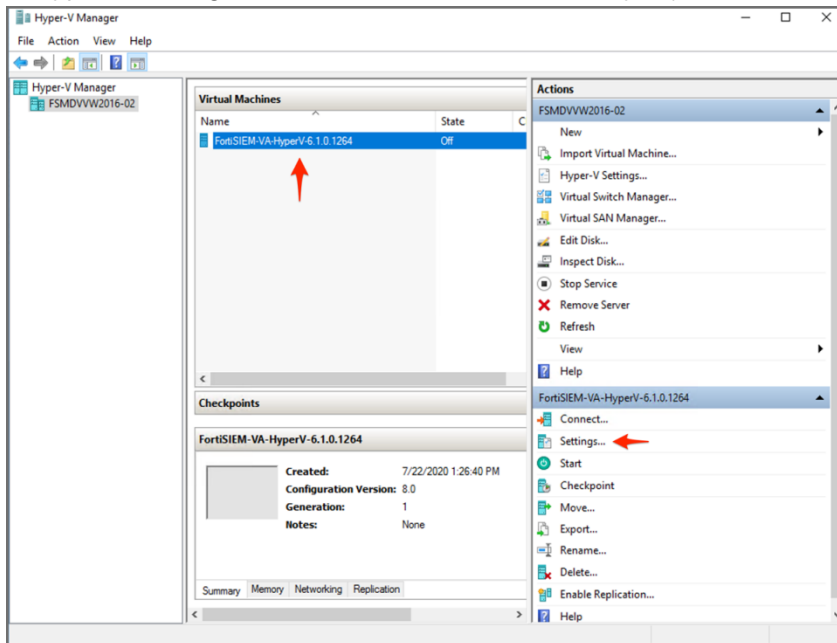
8. In Connect Virtual Hard Disk, select **Use an existing hard disk**, and choose the FortiSIEM VHDX you downloaded earlier, click **Next**:



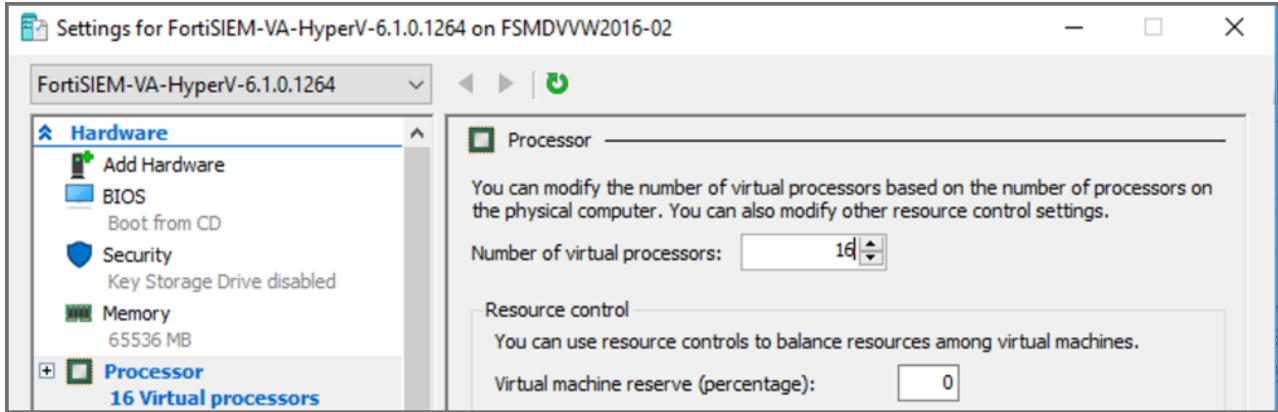
9. In Completing the New Virtual Machine Wizard, click **Finish**, for example:



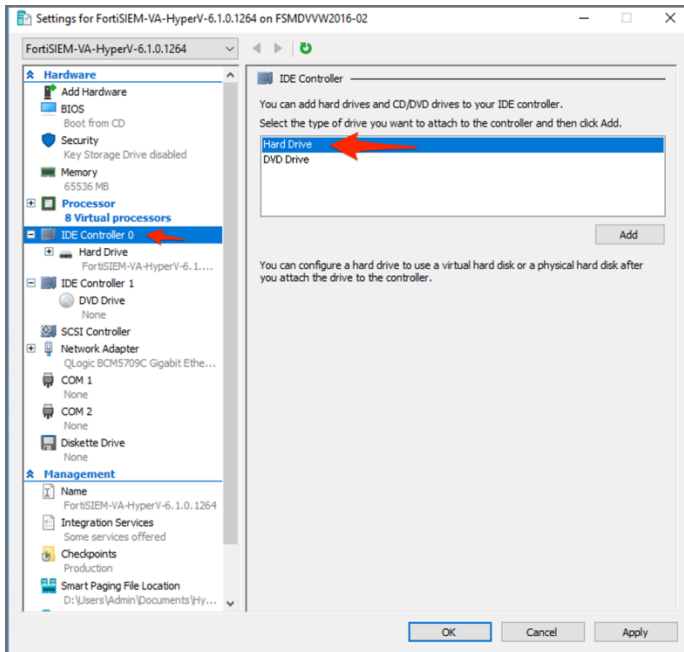
10. In Hyper-V Manager, select the virtual machine that you just created and click **Settings**, for example:



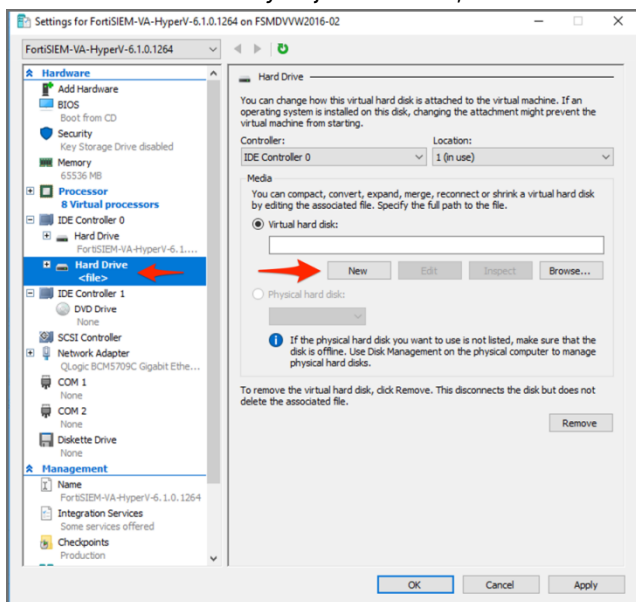
11. In Settings, select the **Processor** line in the navigation panel. Increase the number of virtual processors to **16**.



12. Navigate to **IDE Controller 0**, click on **Hard Drive**, then click **Add**, for example:



13. Select the Hard Drive you just created, Click **New**.



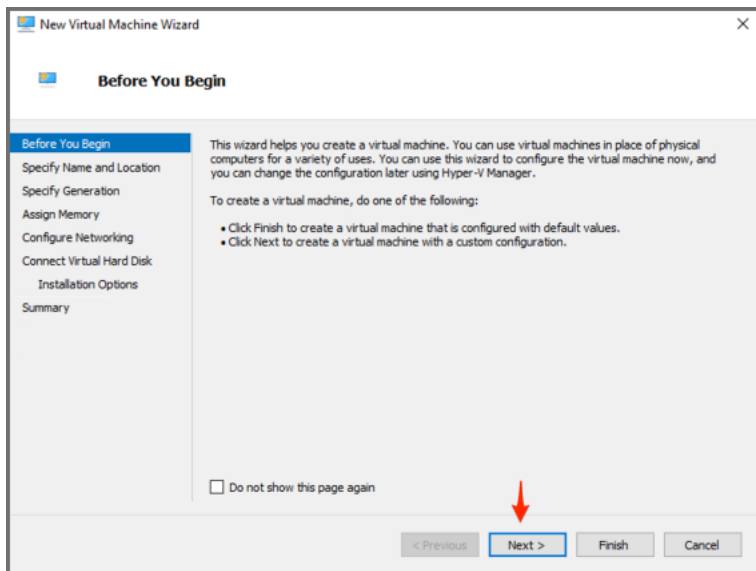
14. Click **Next** on the Before You Begin screen. You will add new hard disks using this method. The following is the list of disks you will need to add:

Disk	Size	Disk Name
Hard Disk 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.
Hard Disk 3	60GB	/svn
Hard Disk 4	60GB	/cmdb
Hard Disk 5	60GB+	/data (see the following note)

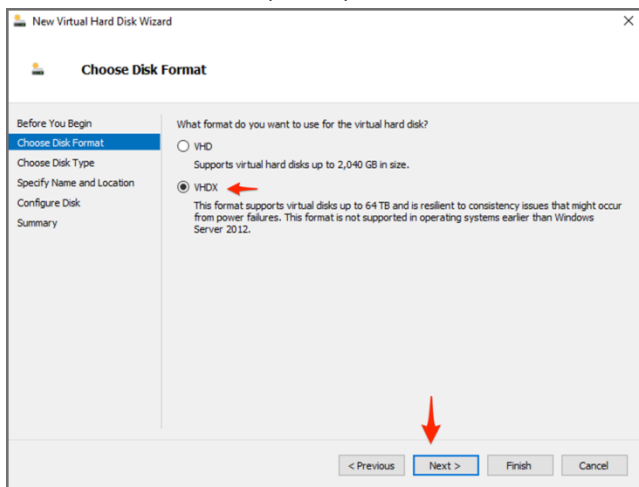
The **60GB CMDB disk** and **60GB SVN disk** should be assigned to **IDE Controller 1**.

**Note on Hard Disk 5:**

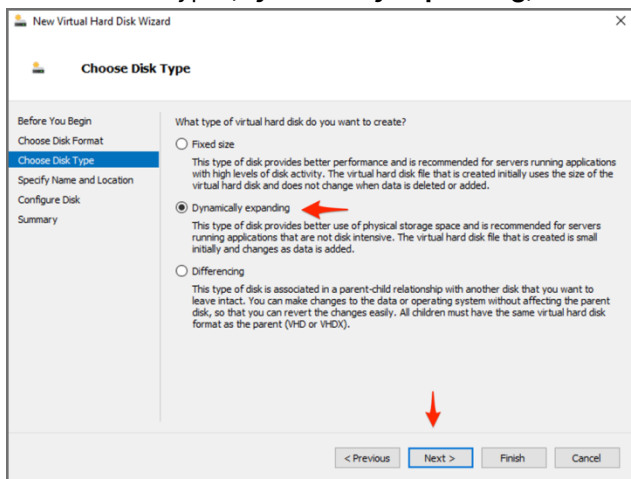
- Add the 5th disk only if using EventDB on local storage or ClickHouse. In all other cases, this disk is not required. ClickHouse is recommended for most deployments. Please see [ClickHouse Reference Architecture](#) for more information.
- For EventDB on local disk, choose a disk based on your EPS 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.



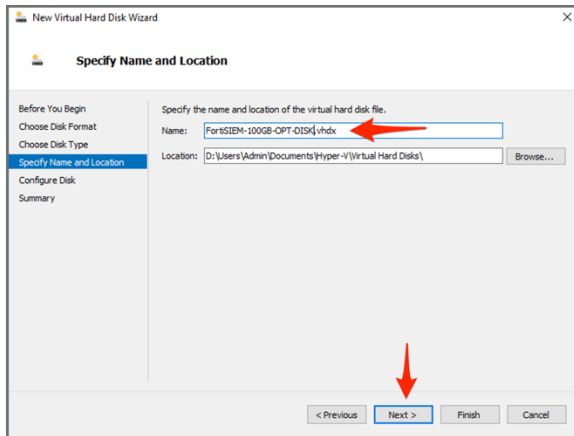
15. Choose a disk format (VHDX) and click **Next**.



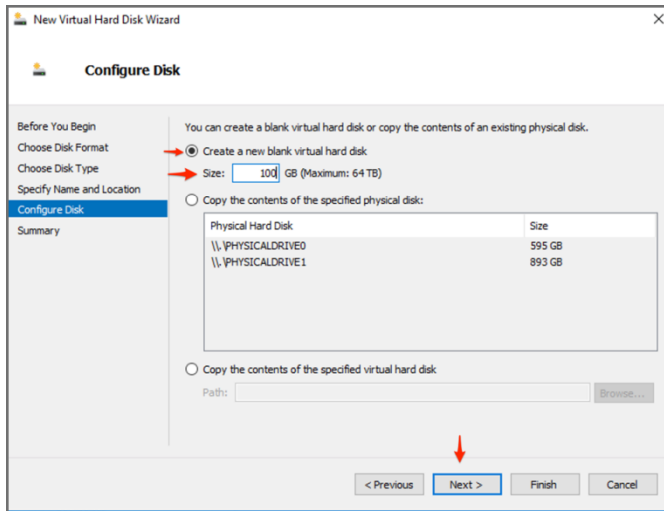
16. Choose Disk Type (**Dynamically expanding**) and click **Next**.



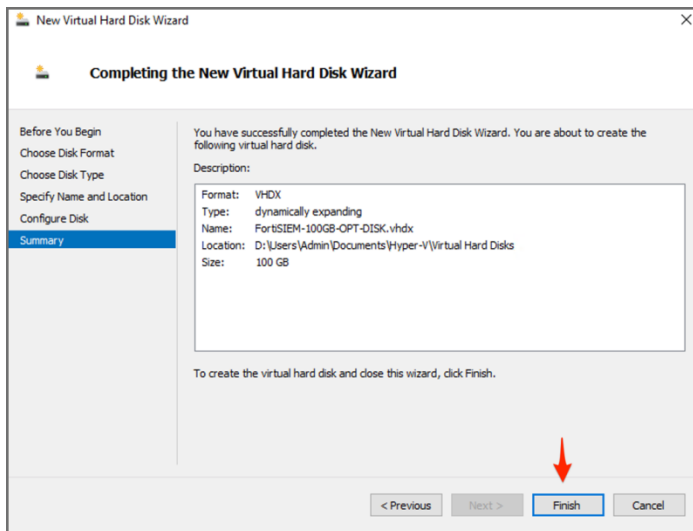
17. Specify the **Name** and **Location** of the disk. Click **Next**.



18. Specify 100GB as the size of the disk (for /opt). For other disks, specify size accordingly. Click **Next**.

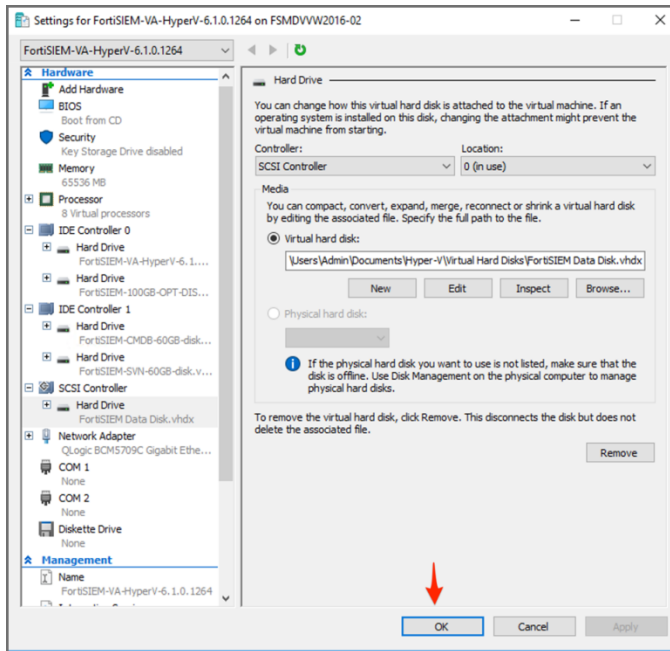


19. Click **Finish**.



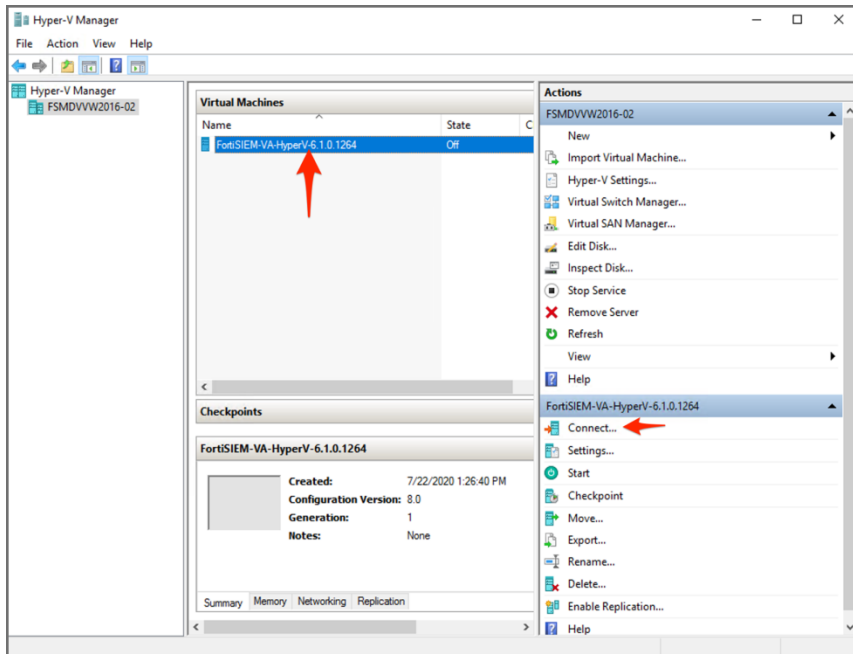
20. **IMPORTANT:** Similarly, add a 60GB CMDDB disk, a 60GB SVN disk to **IDE Controller 1**. Delete the CD Drive that was added by default. If you need to use local data disk, then add a Hard Disk on the SCSI Controller of

the appropriate size. Once all this is done, click **OK**.

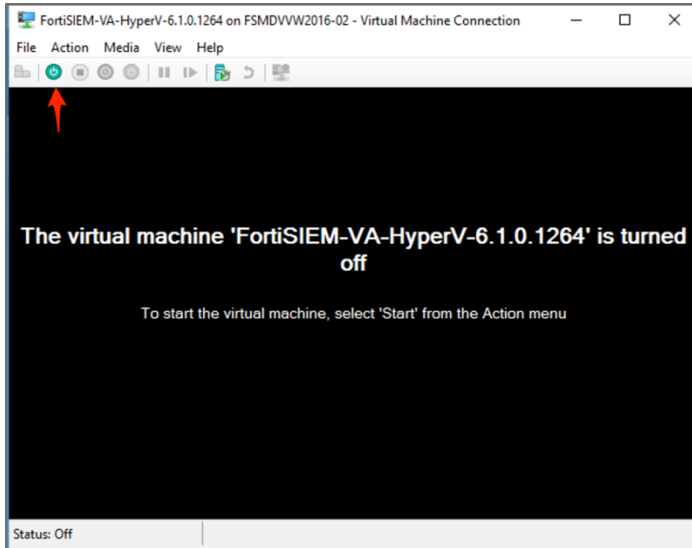


## Start FortiSIEM from Hyper-V Manager

1. In Hyper-V Manager, select the Supervisor, Worker, or Collector virtual machine.
2. Click **Connect**.



3. Click the **Power On Icon** as illustrated.



4. The system will boot up. When the command prompt window opens, log in with the default login credentials: User root and Password ProspectHills.
5. You will be required to change the password. Remember this password for future use.

At this point, you can continue configuring FortiSIEM by [using the GUI](#).

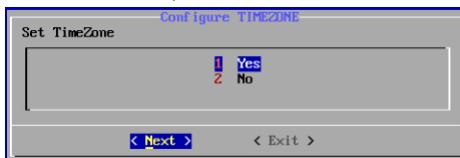
## Configure FortiSIEM



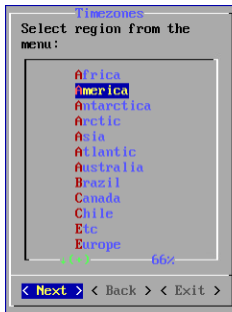
At no stage of the installation process is it required that users manually format the disks. FortiSIEM will provision the file system on disks as needed.

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

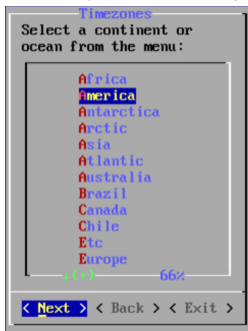
1. Log in as user root with the password you set in **Start FortiSIEM from Hyper-V Manager** Step 5 above.
2. At the command prompt, go to /usr/local/bin and enter configFSM.sh, for example:  
# configFSM.sh
3. In VM console, select **1 Set Timezone** and then press **Next**.



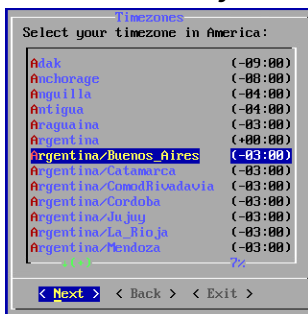
4. Select your **Region**, and press **Next**.



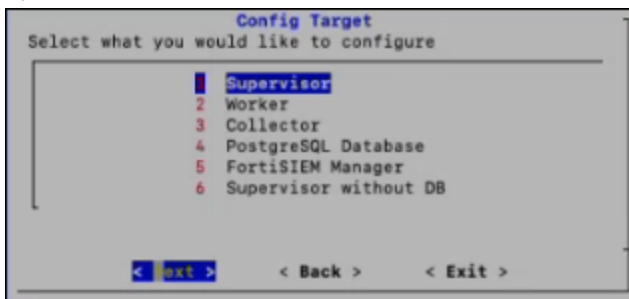
5. Select your **Country**, and press **Next**.



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



7. If installing a Supervisor, select **1 Supervisor**. Press **Next**.  
 If installing a Worker, select **2 Worker**, and press **Next**.  
 If installing a Collector, select **3 Collector**, and press **Next**.  
 If Installing for automated High Availability, select **4 PostgreSQL Database**, and press **Next**.  
 If Installing FortiSIEM Manager, select **5 FortiSIEM Manager**, and press **Next**.  
 If Installing FortiSIEM Supervisor without DB (Follower), select **6 Supervisor without DB** 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 without DB, 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.

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.



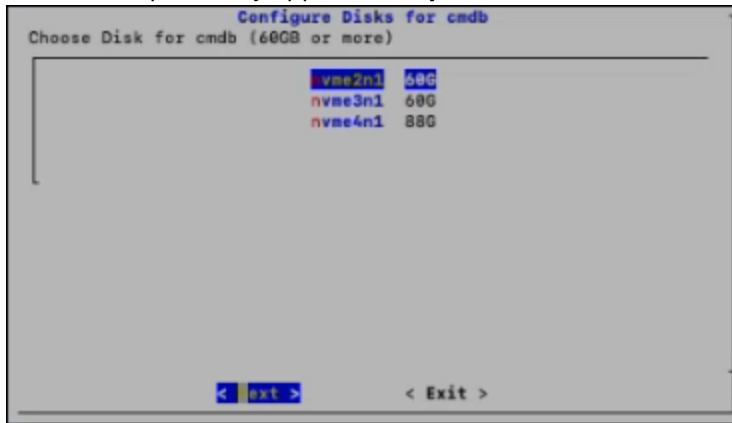
9. Select the disk for opt and press **Next**.

**Note:** This option only appears if **Supervisor, Worker** or **Collector** is selected as **Config Target**.



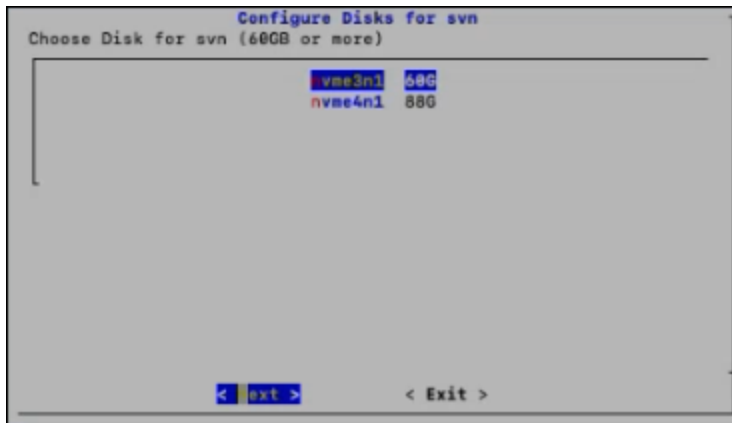
10. Select the disk for cmdb and press **Next**.

**Note:** This option only appears if **Supervisor** is selected as **Config Target**.

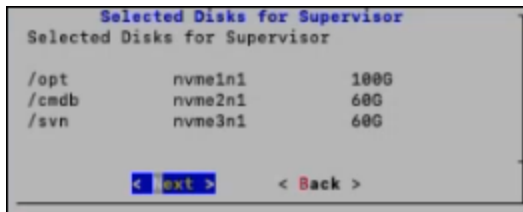


11. Confirm the disk for svn and press **Next**.

**Note:** This option only appears if **Supervisor** is selected as **Config Target**.

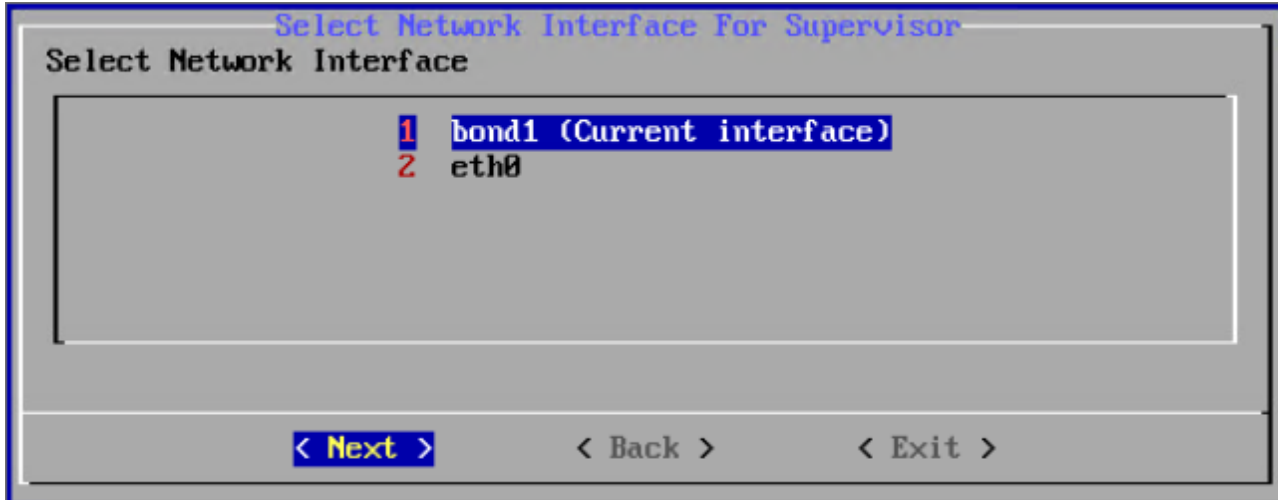


12. Confirm the selected disks (opt, cmdb, svn) for **Supervisor**, opt for **Worker** and **Collector**, and press **Next**, or press **Back** as needed to re-configure.

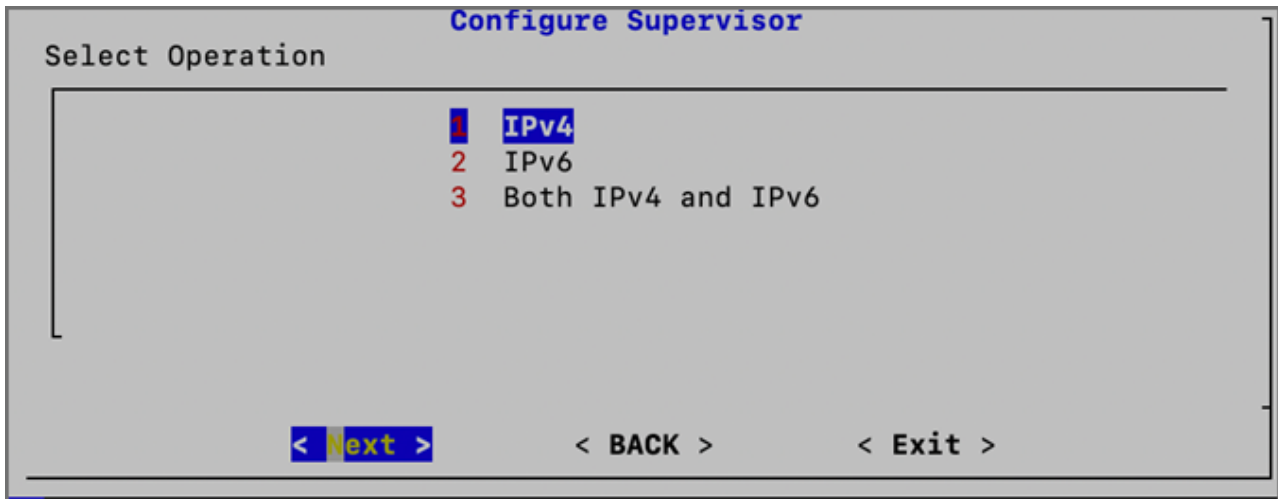


13. Select the **Network Interface** you wish to use, and press **Next**.

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

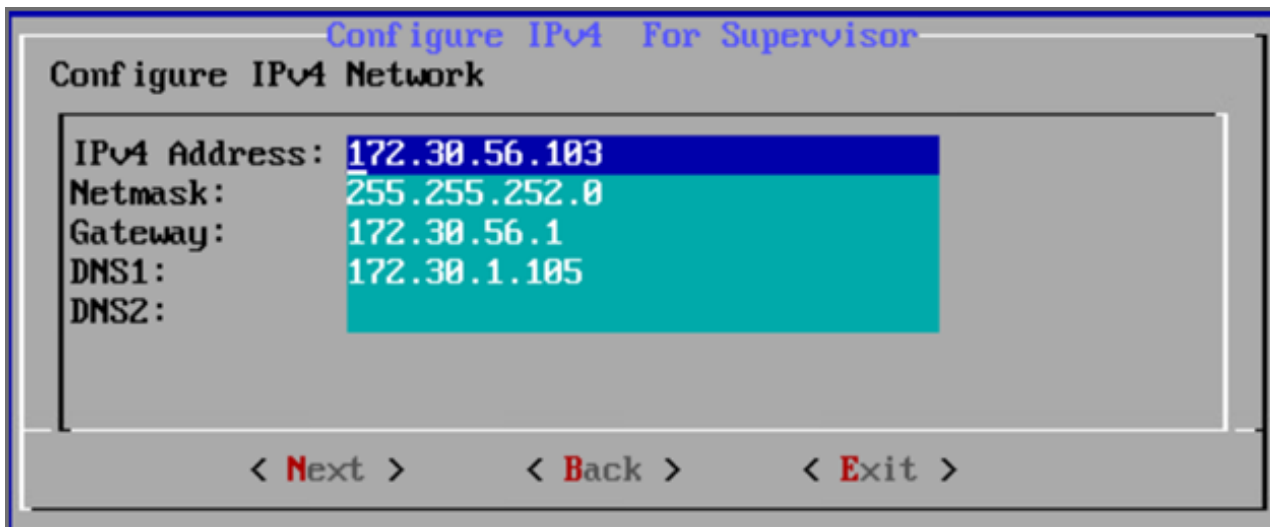


14. Determine whether your network supports IPv4-only, IPv6-only, or both IPv4 and IPv6 (Dual Stack). Choose **1** for IPv4-only, choose **2** for IPv6-only, or choose **3** for both IPv4 and IPv6.



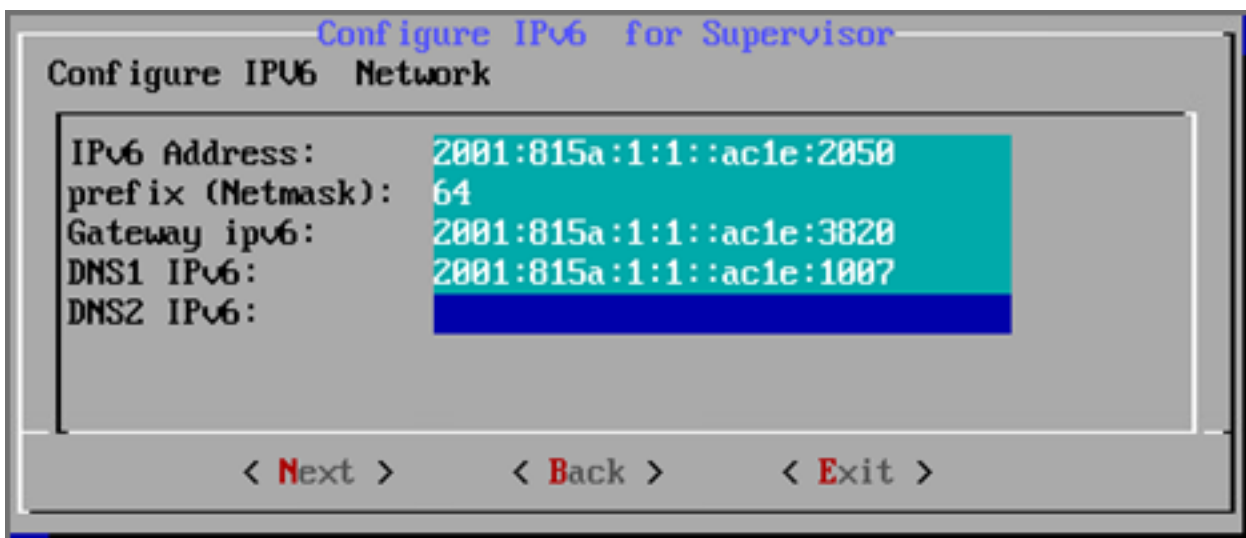
15. If you choose **1** (IPv4) or choose **3** (Both IPv4 and IPv6), and press **Next**, then you will move to step 16. If you choose **2** (IPv6), and press **Next**, then skip to step 17.
16. Configure the network by entering the following fields. Press **Next**.

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



17. If you chose **1** in step 14, then you will need to skip to step 18. If you chose **2** or **3** in step 14, then you will 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 the IPv6 DNS server 1 and DNS server2

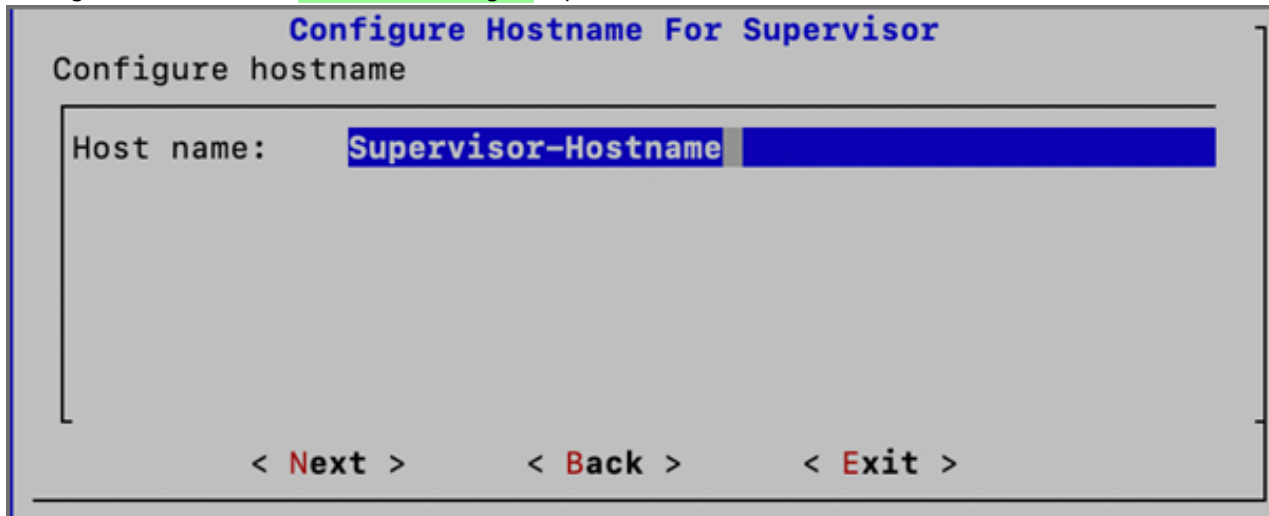


**Note:** If you chose option **3** in step 14 for both IPv4 and IPv6, then even if you configure 2 DNS servers for IPv4 and IPv6, the system will only use the first DNS server from IPv4 and the first DNS server from the IPv6 configuration.

**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.

18. Configure Hostname for FortiSIEM Manager/Supervisor/Worker/Collector. Press **Next**.



Configure Hostname For Supervisor

Configure hostname

Host name: Supervisor-Hostname

< Next >      < Back >      < Exit >

19. 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. 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 >

20. 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
-t	The IP type. The values can be either <b>4</b> (for <b>ipv4</b> ) or <b>6</b> (for <b>v6</b> ) or <b>64</b> (for both <b>ipv4</b> and <b>ipv6</b> ). .
--dns1, --dns2	Addresses of the DNS servers
--i6	IPv6-formatted address
--m6	IPv6 prefix
--g6	IPv6 gateway
-o	Installation option ( <b>install_without_fips</b> , <b>install_with_fips</b> , <b>enable_fips</b> , <b>disable_fips</b> , <b>change_network_config*</b> ) *Option only available after installation.)
--testpinghost	The URL used to test connectivity

- 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. Use link `https://<supervisor-ip>` to login. Please note that if you are logging into FortiSIEM with an IPv6 address, you should input `https://[IPv6 address]` on the browser tab.
2. The License Upload dialog box will open.

3. Click **Browse** and upload the license file.  
Make sure that the **Hardware ID** shown in the License Upload page matches the license.
4. 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.
5. Choose **License type** as **Enterprise** or **Service Provider**.  
This option is available only for a first time installation. 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.
6. Proceed to [Configure an Event Database](#).

## Configure an Event Database

Choose the event database.

The screenshot shows the FortiSIEM configuration interface. At the top is the FortiSIEM logo. Below it, there are three main configuration sections:

- Event Database:** A dropdown menu with "ClickHouse" selected.
- Storage Tiers:** A dropdown menu with "1" selected.
- Hot Tier:** A table with columns "Disk Path", "Mounted On", and "Row". The "Mounted On" column contains the path "/data-clickhouse-hot-1". There are empty input fields under "Disk Path" and "Row", and plus/minus buttons in the "Row" column.

At the bottom of the configuration area are two buttons: "Test" and "Save".

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

- **ClickHouse:** See [Configuring ClickHouse Storage](#). Recommended for most deployments. Please see [ClickHouse Reference Architecture](#) for more information.
- **EventDB on Local Disk:** See [Configuring EventDB 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 without DB (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, 0.6%ni, 91.4%id, 0.6%wa, 0.2%hi, 0.1%si, 0.0%st
Mem: 65702190k total, 10366036k used, 55336054k 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
phAlertMaster          41:41                0                   1079m                504m
phAlertWorker          41:41                0                   1363m                205m
phQueryWorker          41:41                0                   1383m                279m
phDataManager          41:41                0                   1419m                205m
phDiscover             41:41                0                   513m                 53m
phReportWorker         41:41                0                   1433m                95m
phReportMaster        41:41                0                   602m                 67m
phIdentityWorker       41:41                0                   1027m                50m
phIdentityMaster      41:41                0                   491m                 39m
phAgentManager         41:41                0                   1425m                54m
phCheckpoint           42:31                0                   325m                 39m
phEventManager         41:41                0                   702m                 70m
phReportLoader         41:41                0                   769m                270m
phBeaconEventPackager 41:41                0                   1125m                65m
phDataPurger           41:41                0                   588m                 50m
phEventForwarder      41:41                0                   540m                 46m
phMonitor              37:24                0                   2000m                57m
Apache                 01:10:40            0                   310m                 16m
Node.js-charting       01:10:19            0                   916m                 71m
Node.js-pm2            01:10:13            0                   0                    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                  01:10:10            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, 16212500k 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               4102m
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).

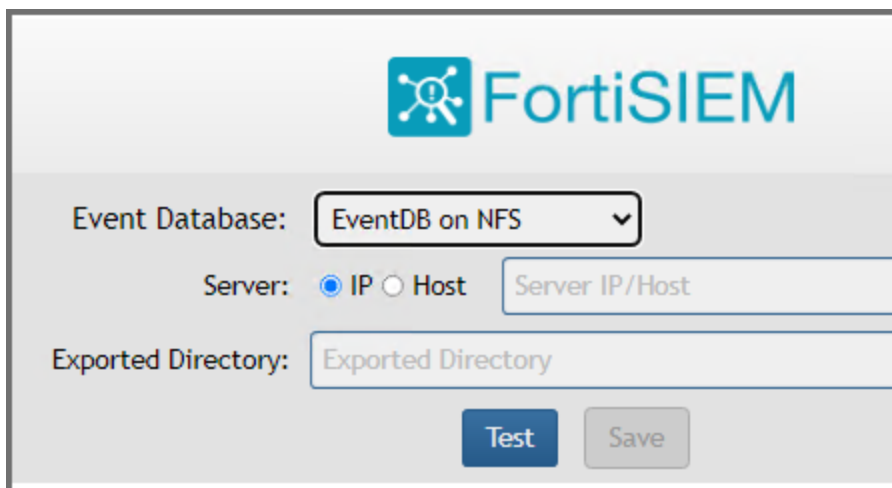
- [Install Supervisor](#)
- [Install Workers](#)
- [Register Workers](#)
- [Create ClickHouse Topology \(Optional\)](#)

- 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. Disk 5 is not required (From [Create FortiSIEM VM in Hyper-V Step 14](#)).
  - b. You need to configure NFS after license upload.

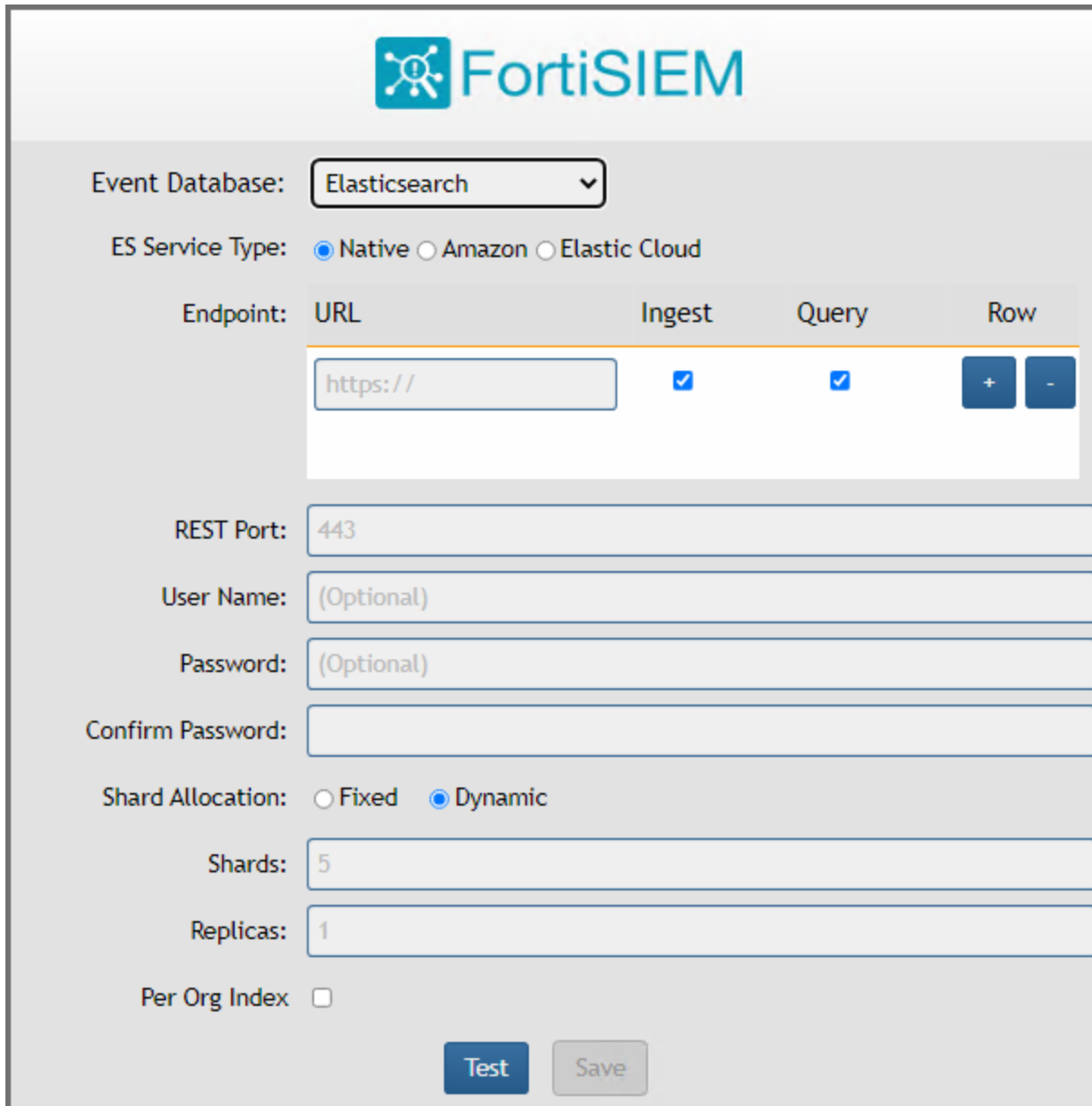


The screenshot shows the FortiSIEM configuration interface. At the top, there is the FortiSIEM logo. Below it, the 'Event Database' is set to 'EventDB on NFS' in a dropdown menu. Underneath, the 'Server' section has two radio buttons: 'IP' (which is selected) and 'Host'. To the right of these radio buttons is a text input field labeled 'Server IP/Host'. Below the 'Server' section is another text input field labeled 'Exported Directory'. At the bottom of the form, there are two buttons: 'Test' and 'Save'.

3. If you choose **ClickHouse**
  - a. You need to create disks during [Create FortiSIEM VM in Hyper-V Step 14](#) 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 it, 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' input field. The 'Hot Tier' section has a '+' button and a '-' button next to the 'Row' field. The 'Warm Tier' section also has a '+' button and a '-' button next to the 'Row' field. At the bottom of the interface, 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 installation configuration interface. 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 for "URL", "Ingest", "Query", and "Row". The "URL" column contains "https://". The "Ingest" and "Query" columns have checked checkboxes. The "Row" column has "+" and "-" buttons.
- REST Port:** A text input field containing "443".
- User Name:** A text input field containing "(Optional)".
- Password:** A text input field containing "(Optional)".
- Confirm Password:** An empty text input field.
- Shard Allocation:** Radio buttons for "Fixed" and "Dynamic" (selected).
- Shards:** A text input field containing "5".
- Replicas:** A text input field containing "1".
- Per Org Index:** An unchecked checkbox.

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

## 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.

3. 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](#)

## Register 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 **Mode** drop-down list and enter the following information:
  - a. In the **Host Name** field, enter the Worker's host name.
  - b. In the **IP Address** field, enter the Worker's IP address.
  - c. 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>. As an example, /dev/vdc.
  - d. Click **Test**.

**Add Node**
✕

Type: Worker

Host Name: wk-example

IP Address: 192.0.2.0

Running On: VM

Storage Tiers: 1

Hot Tier:	Disk Path	Mounted On	Row
		/data-clickhouse-hot-1	<span style="border: 1px solid #ccc; padding: 2px 5px;">+</span> <span style="border: 1px solid #ccc; padding: 2px 5px;">-</span>

Test
Save
Cancel

- 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.

The screenshot shows the FortiSIEM Health page. At the top, there's a navigation menu with 'Admin' selected. The main content area is titled 'Health' and has sub-sections for 'Cloud Health', 'Collector Health', 'Agent Health', 'Replication Health', and 'Automation Agent Health'. A summary bar shows: 2 Total, 0 No Connection, 0 Critical, 0 Warning, and 2 Normal. Below this is a table with columns: Name, IP Address, Type, Health, Last Status Updated, Version, and EPS. Two nodes are listed: 'Autosuper' (Supervisor With DB) and 'Autoworker' (Worker), both with a 'Normal' health status.

Name	IP Address	Type	Health	Last Status Updated	Version	EPS
Autosuper		Supervisor With DB	Normal	Aug 14, 2025, 11:54:26 AM	7.5.0	0.04
Autoworker		Worker	Normal	Aug 14, 2025, 11:54:19 AM	7.5.0	0.02

## 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 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.

## 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 **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:
 

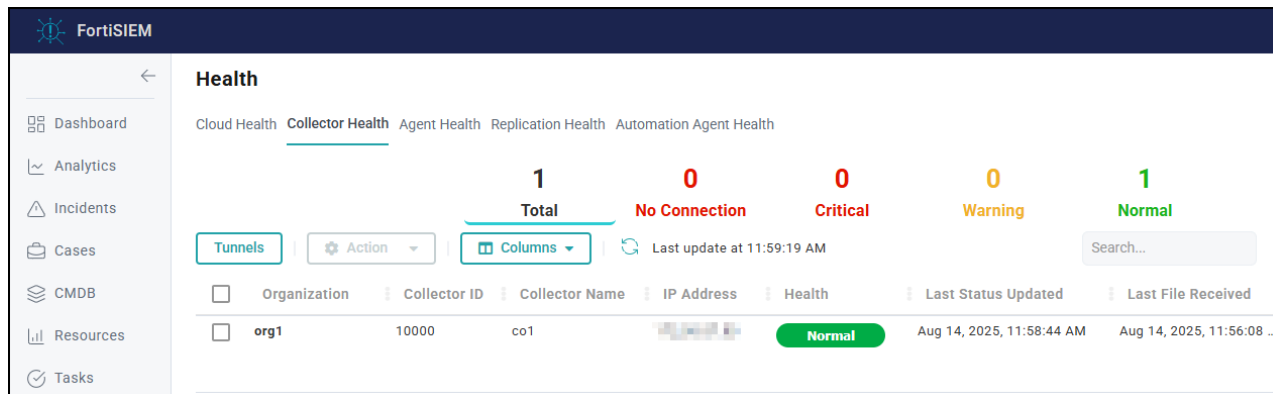
```
phProvisionCollector --add <user> '<password>' <Super IP or Host> <Organization>
<CollectorName>
```

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 3a.  
The Collector will reboot during the Registration.

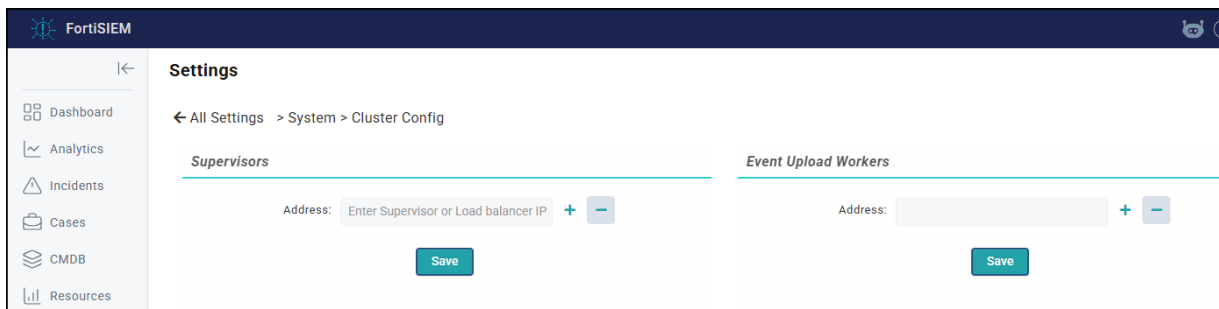
5. Go to **ADMIN > Health > Collector Health** for the status.



## Service Provider Deployments

For Service Provider deployments, follow these steps.

1. Log in to Supervisor with 'Admin' privileges.
2. Go to **ADMIN > Settings > System > 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 **Save**.



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

**Organization Definition (Untitled ID: )** ✕

Organization: <input style="border: 1px solid red;" type="text" value="Required"/>	Include IP/IP Range: <input type="text"/>
Full Name: <input type="text"/>	Exclude IP/IP Range: <input type="text"/>
Admin User: <input style="border: 1px solid red;" type="text" value="Required"/>	Agent User: <input type="text"/>
Admin Password: <input style="border: 1px solid red;" type="text" value="Required"/>	Agent Password: <input type="text"/>
Confirm Admin Password: <input style="border: 1px solid red;" type="text" value="Required"/>	Confirm Agent Password: <input type="text"/>
Admin Email: <input style="border: 1px solid red;" type="text" value="Required"/>	Max Devices: <input type="text"/>
Phone: <input type="text"/>	Address: <input type="text"/>
Account Number: <input type="text"/>	Account Type: <input type="text"/>
Support Tier: <input type="text"/>	Account Status: <input type="text"/>
Support Team: <input type="text"/>	Account Manager: <input type="text"/>
Access Token Expires In: <input type="text" value="5"/> minutes	Refresh Token Expires In: <input type="text" value="1"/> days

Collectors: + ✎ 🗑️ |

<input type="checkbox"/>	Collector ID	Collector Name	Collector EPS	UpLoad Rate Limit	UpLoad

Save
Cancel

4. Enter the **Organization Name**, **Admin User**, **Admin Password**, and **Admin Email**.

5. Under **Collectors**, click **+**.

6. Enter the **Collector Name**, **Guaranteed EPS**, **Start Time**, and **End Time**.

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

**Organization Definition (org1 ID: 2000) - Add Collector** X

Name:

Guaranteed EPS:

Upload Rate Limit (Kbps):

Upload EPS Limit:

Start Time:  Unlimited

End Time:  Unlimited

Event Worker:  + -

< Save
< Cancel

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.

- 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@cc574 ~# phProvisionCollector
Usage: phProvisionCollector --add <organization-user-name> <Organization-user-password> <Supervisor-IP> <Organization-name> <Collector-name>
root@cc574 ~# phProvisionCollector --add admin Admin=11 172.30.57.2 0B6 CD-0B6
Continuing to provision the Collector
This collector is registered successfully. Normal Exit and restart of phMonitor after collector license registration.
root@cc574 ~# _
```

The Collector will reboot during the Registration.

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

The screenshot shows the FortiSIEM Health page. The 'Collector Health' tab is active, displaying a summary of collector status. The summary shows 1 Total collector, 0 No Connection, 0 Critical, 0 Warning, and 1 Normal. Below the summary is a table of collectors.

Organization	Collector ID	Collector Name	IP Address	Health	Last Status Updated	Last File Received
org1	10000	co1	[Redacted]	Normal	Aug 14, 2025, 11:58:44 AM	Aug 14, 2025, 11:56:08 ...

## 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).

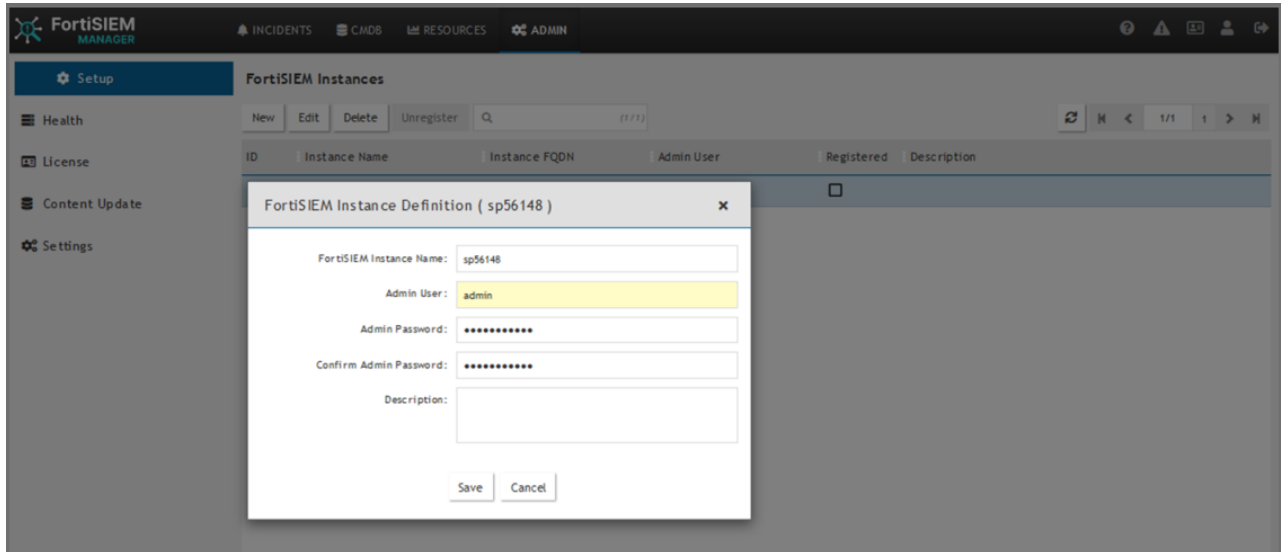
## Adding Instance to Manager

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 Setup page for FortiSIEM Manager. The page has a dark blue header with the FortiSIEM logo and a navigation menu on the left. The main content area is titled 'Setup' and contains the following fields and buttons:

- FortiSIEM Manager FQDN/IP: [Redacted]
- FortiSIEM Instance FQDN/IP: Autosuper [Redacted]
- FortiSIEM Instance Name: FSM- [Redacted]
- Account: admin
- Password: [Redacted]
- Confirm Password: [Redacted]
- Registered: No
- Buttons: Test, Register, 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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