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10/03/2023

FortiSIEM 6.6.0 Nutanix AHV Installation Guide

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Change Log

Date	Change Description
04/08/2019	Initial version of FortiSIEM Nutanix AHV Installation Guide.
11/20/2019	Release of FortiSIEM Nutanix AHV Installation Guide for 5.2.6.
03/30/2020	Release of FortiSIEM Nutanix AHV Installation Guide for 5.3.0.
03/17/2021	Release of FortiSIEM Nutanix AHV Installation Guide for 6.1.x
03/19/2021	Revision 1: Added Migration section.
03/25/2021	Release of FortiSIEM Nutanix AHV Installation Guide for 6.2.0.
04/22/2021	Revision 2: Added Install Log section.
05/07/2021	Release of FortiSIEM Nutanix AHV Installation Guide for 6.2.1.
06/07/2021	Updated Elasticsearch screenshot for 6.2.x guides.
07/06/2021	Release of FortiSIEM Nutanix AHV Installation Guide for 6.3.0.
08/26/2021	Release of FortiSIEM Nutanix AHV Installation Guide for 6.3.1.
10/15/2021	Release of FortiSIEM Nutanix AHV Installation Guide for 6.3.2.
11/17/2021	Updated Register Collectors instructions for 6.x guides.
12/22/2021	Release of FortiSIEM Nutanix AHV Installation Guide for 6.3.3.
01/18/2022	Release of FortiSIEM Nutanix AHV Installation Guide for 6.4.0.
05/09/2022	Release of FortiSIEM Nutanix AHV Installation Guide for 6.5.0.
07/26/2022	Release of FortiSIEM Nutanix AHV Installation Guide for 6.6.0.
08/18/2022	Updated All-in-one Installation section.
09/12/2022	Release of FortiSIEM Nutanix AHV Installation Guide for 6.5.1.
09/14/2022	Release of FortiSIEM Nutanix AHV Installation Guide for 6.6.1.
09/19/2022	Release of FortiSIEM Nutanix AHV Installation Guide for 6.6.2.
10/20/2022	Updated Register Collectors instructions for 6.x guides.
01/03/2023	Release of FortiSIEM Nutanix AHV Installation Guide for 6.6.3.
08/31/2023	Release of FortiSIEM Nutanix AHV Installation Guide for 6.6.4.

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 responds to ping. The host can either be an internal host or a public domain host like google.com.
- Deployment type for Supervisor, Worker, and Collector Enterprise or Service Provider. The Service Provider deployment provides multi-tenancy.
- · Whether FIPS should be enabled
- Install type:
 - All-in-one with FortiSIEM Manager

 Note: FortiSIEM Manager installation has slight differences from the Supervisor/Worker/Collector installation.
 - · Cluster with Manager, Supervisor and Workers
 - · Cluster with Manager, Supervisor and Workers
 - · All-in-one with Supervisor only, or
 - · Cluster with Supervisor and Workers
- Storage type for Supervisor, Worker, and/or Collector
 - Online Local or NFS or ClickHouse or Elasticsearch
 - Archive NFS or HDFS
- Before beginning FortiSIEM deployment, you must configure external storage, excluding FortiSIEM Manager.
- · Determine hardware requirements:

Node	vCPU	RAM	Local Disks
Manager	Minimum – 16 Recommended - 32	Minimum • 24GB Recommended • 32GB	OS – 25GB OPT – 100GB CMDB – 60GB 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

Node	vCPU	RAM	Local Disks
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

Note: compared to FortiSIEM 5.x, you need one more disk (OPT) which provides a cache for FortiSIEM.

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.

Before proceeding to FortiSIEM deployment, you must configure the external storage.

- For NFS deployment, see FortiSIEM NFS Storage Guide here.
- For Elasticsearch deployment, see FortiSIEM Elasticsearch Storage Guide here.

All-in-one Installation

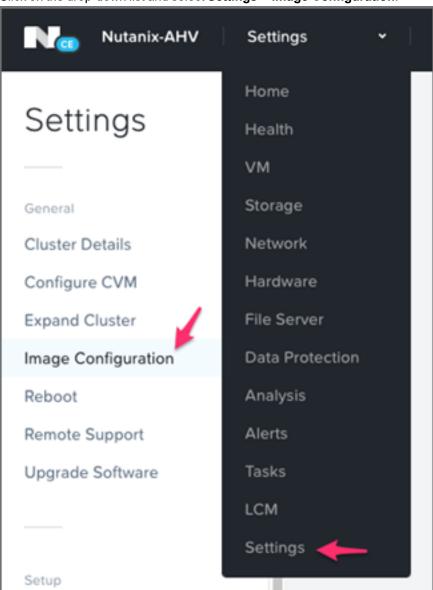
This is the simplest installation with a single Virtual Appliance. If storage is external, then you must configure external storage before proceeding with installation.

- Import FortiSIEM into Nutanix AHV Prism Console
- · Configure FortiSIEM via GUI
- · Upload the FortiSIEM License
- · Choose an Event Database

Import FortiSIEM into Nutanix AHV Prism Console

- 1. Go to the Fortinet Support website https://support.fortinet.com to download the KVM package FSM_Full_All_KVM_6.6.0_build1633.zip. See Downloading FortiSIEM Products for more information on downloading products from the support website.
- 2. Download the packages for Super/Worker and Collector to the location where you want to install the image. For example: FSM_Full_All_KVM_6.6.0_build1633.zip.
- **3.** Unzip the .zip file to get the FortiSIEM-6.6.0.1633.qcow2 file.
- 4. Login to the Nutanix AHV Prism Console.

5. Click on the drop-down list and select **Settings > Image Configuration**.

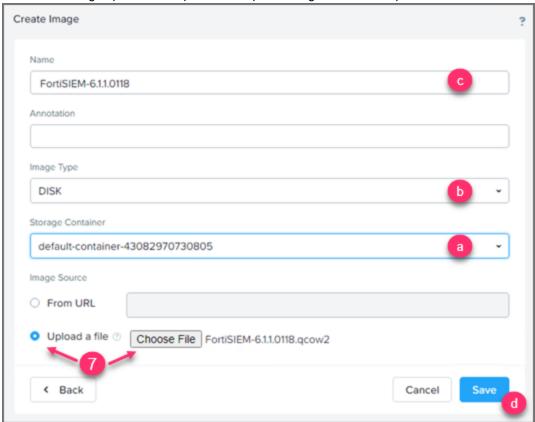


6. Click Upload Image from the Image Configuration page.

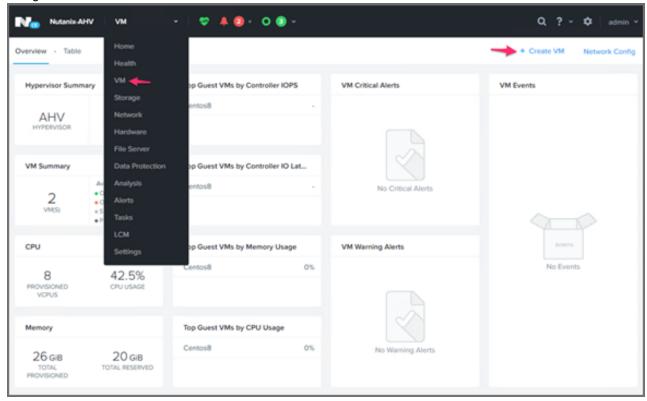


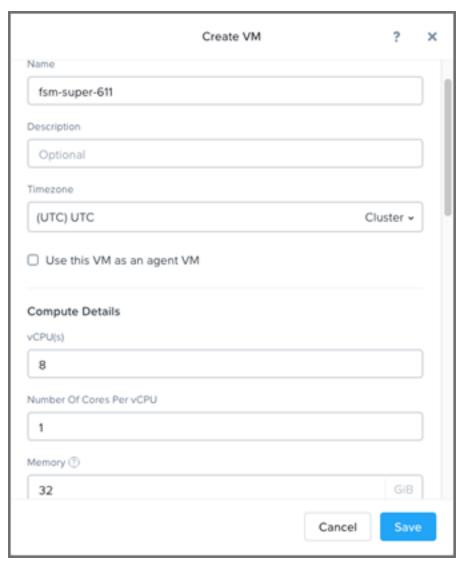
- 7. Select Upload a file, click on Choose File, and browse to the FortiSIEM-6.6.0.1633.qcow2 file.
 - a. From the **Storage Container** drop-down list, select a storage container.
 - **b.** From the **Image Type** drop-down list, select **DISK**.
 - **c.** In the **Name** field, provide the name of the image.
 - d. Click Save.

e. Wait for the image upload to complete before proceeding to the next step.

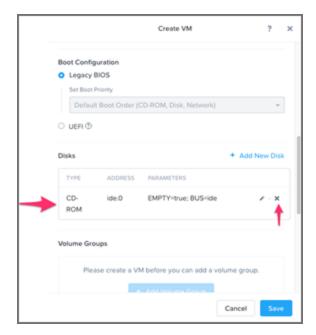


8. Navigate to VM > Create VM.

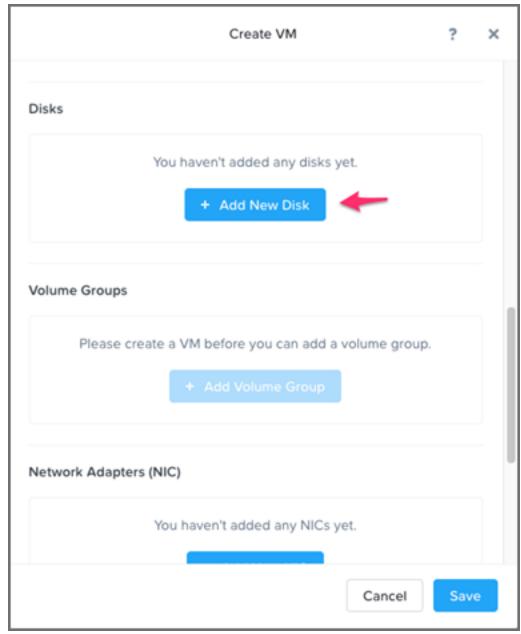




9. Scroll down in the Create VM window, continue to select Legacy BIOS, and at CD-ROM, click "X" to remove.

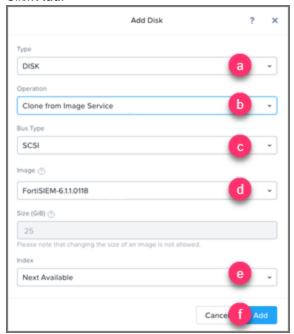


10. Click Add New Disk.

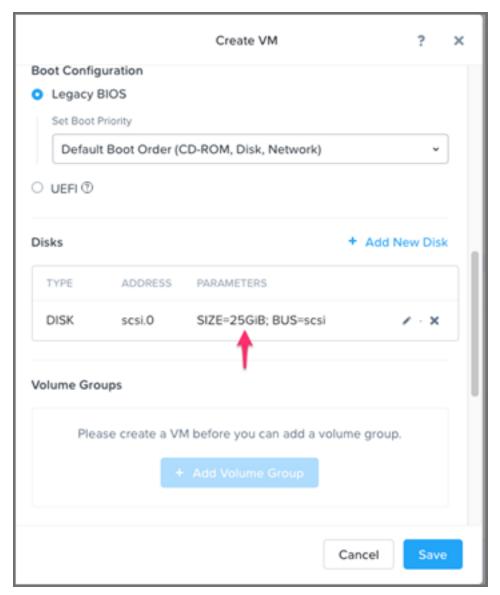


- 11. In the Add Disk dialog, take the following steps:
 - a. From the Type drop-down list, select DISK.
 - $\textbf{b.} \ \ \text{From the \textbf{Operation}} \ \text{drop-down list, select \textbf{Clone from Image Service}}.$
 - c. From the Bus Type drop-down list, select SCSI.
 - d. From the Image drop-down list, select the FortiSIEM image you created earlier (FortiSIEM-6.6.0.1633).
 - e. From the Index drop-down list, select Next Available.

f. Click Add.

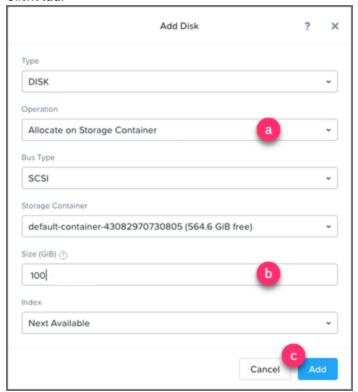


You will now see the OS disk 25GiB in the list of disks shown.



- 12. For the Supervisor, you will need to add the 100GB /opt disk. Click **Add New Disk**, and take the following steps:
 - a. From the Operation drop-down list, select Allocate on Storage Container.
 - b. In the Size (GiB) field, enter "100".

c. Click Add.



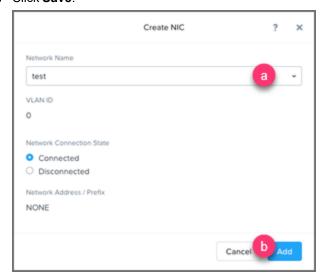
- 13. Similar to the previous step, add an extra two disks by taking the following steps twice:
 - a. Click Add New Disk for each new disk.
 - **b.** In the **Size** field, enter "60".
 - c. From the Operation drop-down list, select Allocate on Storage Container.
 - d. Click Add.

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

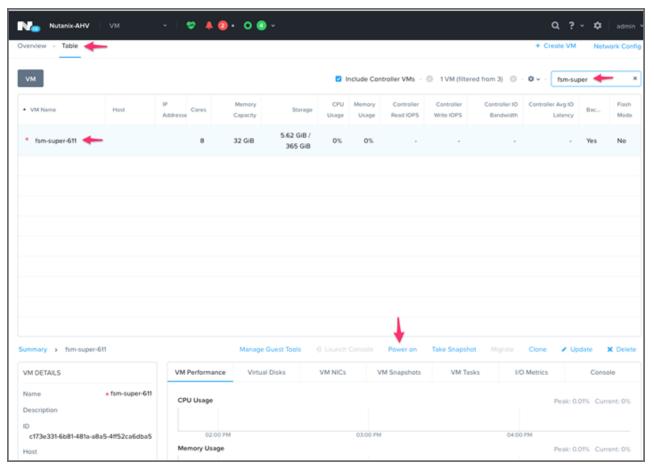
Note on Hard Disk 5:

• Add a 5th disk if using local storage in an All In One deployment. Otherwise, a separate NFS share or Elasticsearch cluster must be used for event storage.

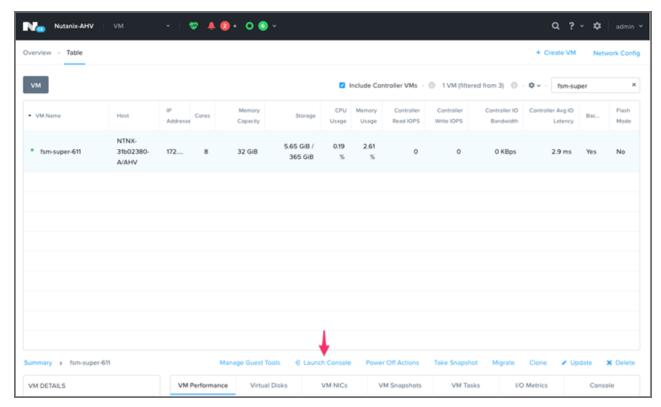
- 60GB is the minimum event DB disk size for small deployments, provision significantly more event storage for higher EPS deployments. See the FortiSIEM Sizing Guide for additional information.
- NFS or Elasticsearch event DB storage is mandatory for multi-node cluster deployments.
- 14. Click on Add New NIC, and take the following steps:
 - a. From the Network Name drop-down list, select the correct network.
 - b. Click Add.
 - c. Click Save.



15. Navigate to **VM > Table** to find your newly created fsm-super-6## VM, then click **Power On**.



16. Click on Launch Console to open the console.



17. After the VM has booted up to the login prompt, log in with the default login credentials:

User: root

Password: ProspectHills

18. 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 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 **Import FortiSIEM into Nutanix AHV Prism Console** Step 17 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, 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.

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





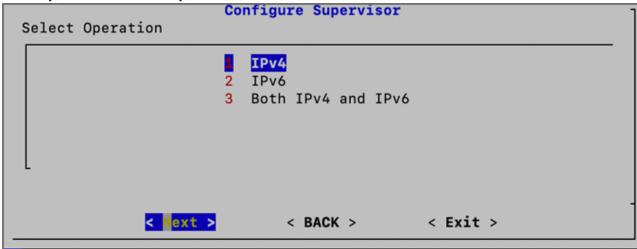
Regardless of whether you select **FortiSIEM Manager,Supervisor**, **Worker**, or **Collector**, you will see the same series of screens with only the header changed to reflect your target installation, unless noted otherwise.

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.

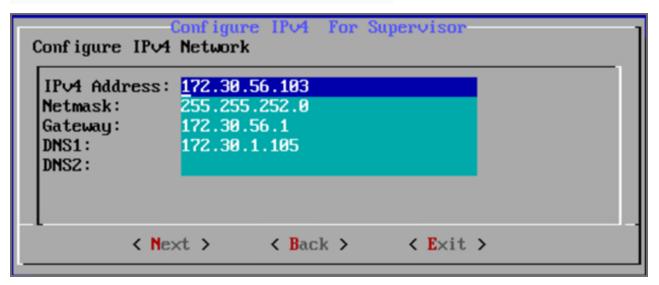


9. Determine whether your network supports IPv4-only, IPv6-only, or both IPv4 and IPv6 (Dual Stack). Choose **1** for IPv4-only, choose **2** for IPv6-only, or choose **3** for both IPv4 and IPv6.



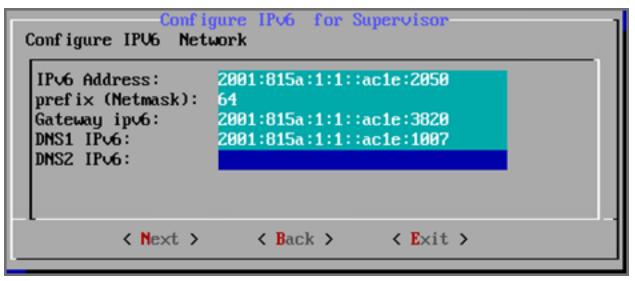
- 10. If you choose 1 (IPv4) or choose 3 (Both IPv4 and IPv6), and press **Next**, then you will move to step 11. If you choose 2 (IPv6), and press **Next**, then skip to step 12.
- 11. Configure the network by entering the following fields. Press **Next**.

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



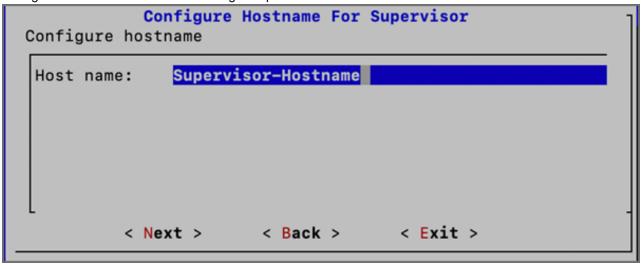
12. If you chose **1** in step 9, then you will need to skip to step 13. If you chose **2** or **3** in step 9, then you will configure the IPv6 network by entering the following fields, then press **Next**.

Option	Description
IPv6 Address	The 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 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 Manager/Supervisor/Worker/Collector. Press Next.

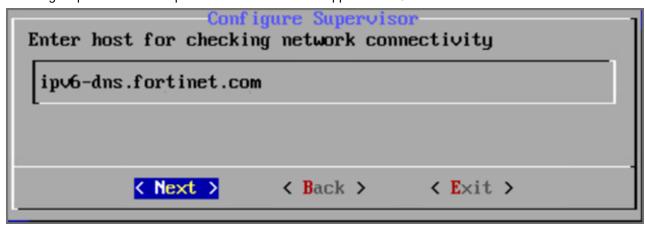


Note: FQDN is no longer needed.

14. Test network connectivity by entering a host name that can be resolved by your DNS Server (entered in the previous step) and can respond to a 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.



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
-g	Address of the gateway server used
host	Host name

Option	Description
-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
-0	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 URL used to test connectivity

16. 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.

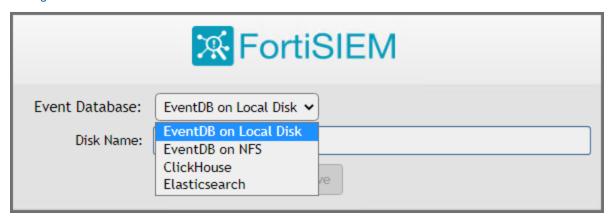
For FortiSIEM Manager, **License Type** is not an available option, and will not appear. At this point, FortiSIEM Manager installation is complete. You will not be taken the Event Database Storage page, so you can skip **Choose an Event Database**.

Note: The FortiSIEM Manager license allows a certain number of instances that can be registered to FortiSIEM Manager.

6. Proceed to Choose an Event Database.

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.



After the License has been uploaded, and the Event Database Storage setup is configured, 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, Worker and Collector, the response should be similar to the following.

Tasks: 27 total, 0 runn	izup 1:11, inα 26 sleen	ing Østonne	average: 0.16, 0	.28, 0.36
Cpu(s): 16 cores, 6.2%				Й.12si. Й.
Mem: 65702100k total, 1	ЯЗ66ЯЗ6 k used	. 55336864k fr	ree, 4352k buffer:	
Swap: 2621436k total, E				
PROCESS	UPTIME	CPU2:	UIRT MEM	RES MEM
THOUGH	OITHE	01071	******	11110_1 tall
phParser	41:23	9	2176m	558m
phQueryMaster	41:41	9	1020m	77m
phRuleMaster	41:41	0	1079m	584m
phRu leWorker	41:41		1363m	285m
phQueryWorker	41:41	0	1383m	279m
phDataManager	41:41	0	1419m	285m
phDiscover	41:41	0	513m	53m
phReportWorker	41:41	0	1433m	95m
phReportMaster	41:41	0	603m	67m
phlpldentityWorker	41:41	0	1027m	58m
phlpldentityMaster	41:41	0	491m	39m
phagentManager	41:41	0	1425m	54m
phCheckpoint	42:31	0	325m	34m
phPerfMonitor	41:41	0	782m	70m
phReportLoader	41:41	0	769m	278m
phBeaconEventPackager	41:41	0	1125m	65m
phDataPurger	41:41	0	588m	58m
phEventForwarder	41:41	0	548m	46m
phMonitor	37:24	0	2888m	53m
Apache	01:10:40	0	310m	16m
Node.js-charting	01:10:19		916m	71m
Node.js-pm2	01:10:13	0	0	26m
AppS∪r	01:10:07	0	15172m	3026m
DBS∪r	01:10:38	0	317m	30m
phAnoma ly	01:08:07	0	987m	64m
phFortiInsightAI	01:10:40	9	23432m	438m
Redis	01:10:18	Я	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
                                             CPU2
                                                              UIRT_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).

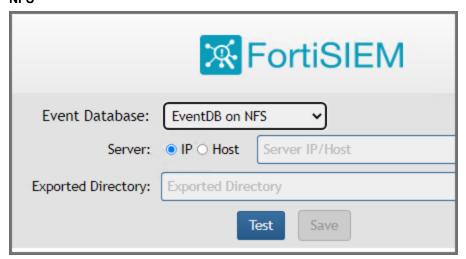
- Install Supervisor
- Install Workers
- · Register Workers
- Install Collectors

- Register Collectors
- Install Manager
- Register Instances to Manager

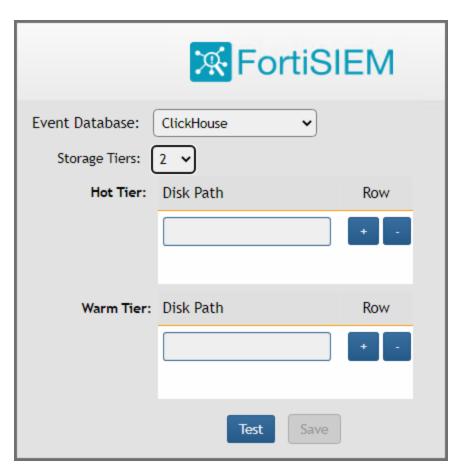
Install Supervisor

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

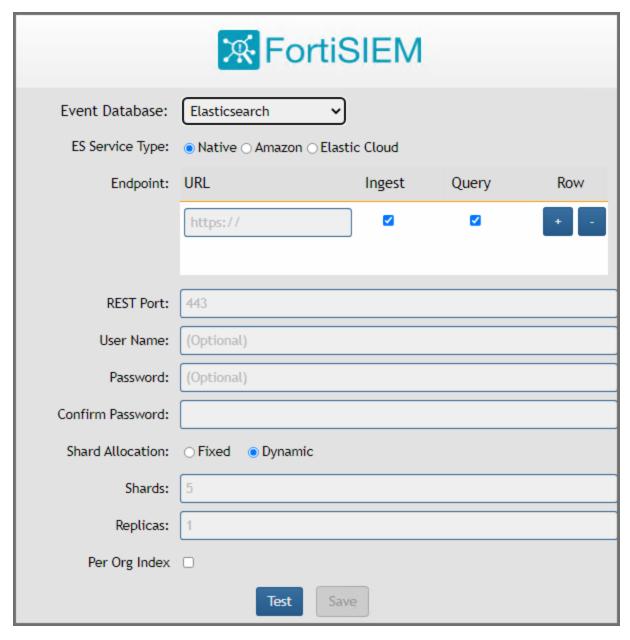
- Setting up hardware you do not need an event database.
- Setting up an Event database Configure the cluster for NFS, ClickHouse, or Elasticsearch.
 NFS



ClickHouse



Elasticsearch



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

Install Workers

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

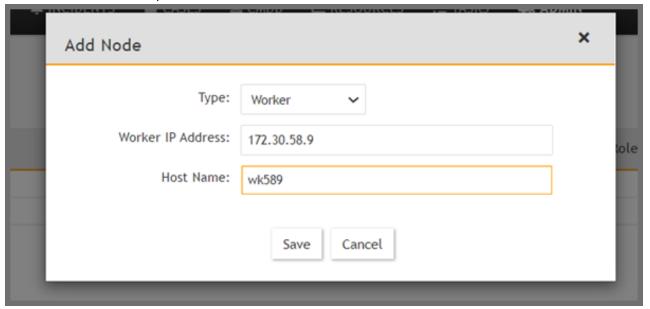
- CPU = 8
- Memory = 24 GB
- · Two hard disks:
 - OS 25GB

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.

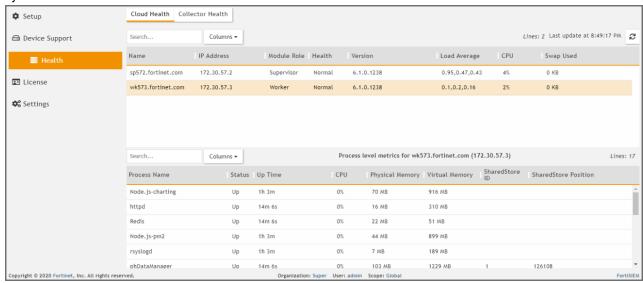
Register Workers

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

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



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



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 > Event Worker.
 - a. Enter the IP of the Worker node. If a Supervisor node is only used, then enter the IP of the Supervisor node. Multiple IP addresses can be entered on separate lines. In this case, the Collectors will load balance the upload of events to the listed Event Workers.

Note: Rather than using IP addresses, a DNS name is recommended. The reasoning is, should the IP addressing change, it becomes a matter of updating the DNS rather than modifying the Event Worker IP addresses in FortiSIEM.

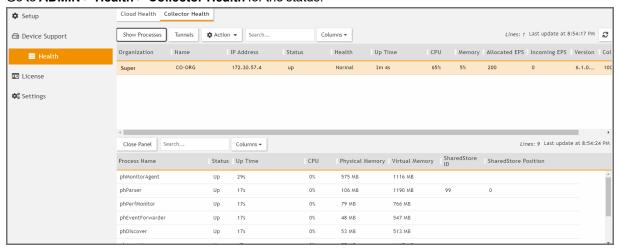
- b. Click OK.
- 3. Go to ADMIN > Setup > Collectors and add a Collector by entering:
 - a. Name Collector Name
 - **b. Guaranteed EPS** this is the EPS that Collector will always be able to send. It could send more if there is excess EPS available.
 - c. Start Time and End Time set to Unlimited.
- 4. SSH to the Collector and run following script to register Collectors:

```
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.



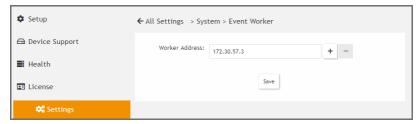
Service Provider Deployments

For Service Provider deployments, follow these steps.

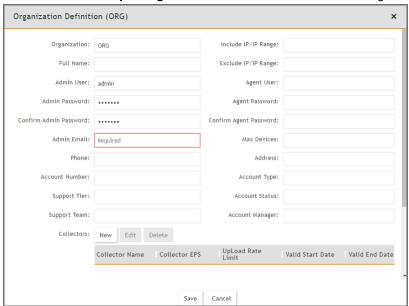
- 1. Log in to Supervisor with 'Admin' privileges.
- 2. Go to ADMIN > Settings > System > Event Worker.
 - **a.** Enter the IP of the Worker node. If a Supervisor node is only used, then enter the IP of the Supervisor node. Multiple IP addresses can be entered on separate lines. In this case, the Collectors will load balance the upload of events to the listed Event Workers.

Note: Rather than using IP addresses, a DNS name is recommended. The reasoning is, should the IP addressing change, it becomes a matter of updating the DNS rather than modifying the Event Worker IP addresses in FortiSIEM.

b. Click OK.

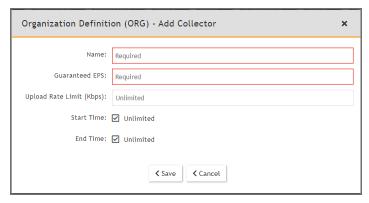


3. Go to ADMIN > Setup > Organizations and click New to add an Organization.



- 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:

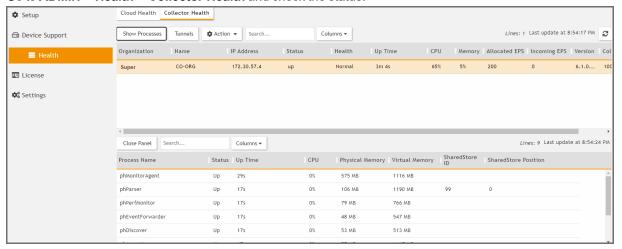
phProvisionCollector --add <user> '<password>' <Super IP or Host> <Organization>
<CollectorName>

The password should be enclosed in single quotes to ensure that any non-alphanumeric characters are escaped.

- **a.** Set user and password using the admin user name and password for the Organization that the Collector is going to be registered to.
- **b.** Set Super IP or Host as the Supervisor's IP address.
- c. Set Organization as the name of an organization created on the Supervisor.
- d. Set CollectorName from Step 6.

The Collector will reboot during the Registration.

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



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).

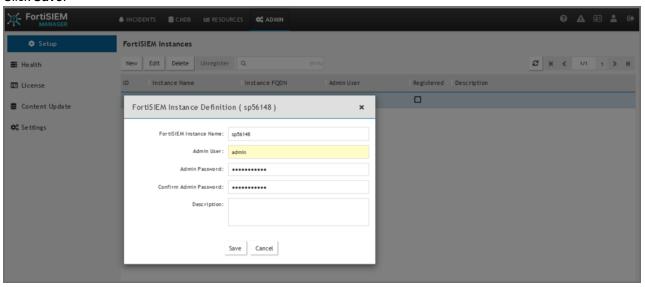
Adding Instance to Manager

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.

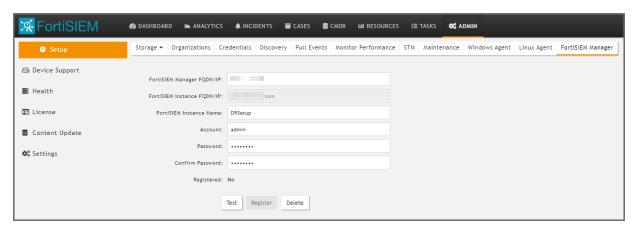
Now, follow the instructions in Register the Instance Itself to Manager for each instance.

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.** In the **FortiSIEM Instance Name** field, enter the instance name used when adding the instance to Manager.
 - c. In the **Account** field, enter the Admin User name used when adding the instance to Manager.
 - d. In the Password field, enter your password to be associated with the Admin User name.
 - e. In the Confirm Password field, re-enter your password.
 - f. Click **Test** to verify the configuration.
 - g. Click Register.

A dialog box displaying "Registered successfully" should appear if everything is valid.



- **h.** 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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