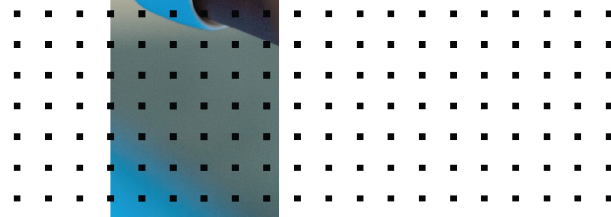
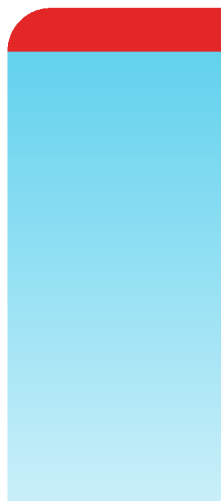


KVM Installation Guide

FortiSIEM 6.2.0



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10/04/2023

FortiSIEM 6.2.0 KVM Installation Guide

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Change Log

Date	Change Description
09/05/2018	Initial version of FortiSIEM - KVM Installation Guide.
03/29/2019	Revision 1: updated instructions for registering on a Supervisor node.
04/08/2019	Revision 2: updated the names of the files imported to KVM.
11/05/2019	Revision 3: changed the names of the volumes in the FortiSIEM distribution.
11/21/2019	Release of FortiSIEM - KVM Installation Guide for 5.2.6.
03/30/2020	Release of FortiSIEM - KVM Installation Guide for 5.3.0.
08/15/2020	Release of FortiSIEM - KVM Installation and Migration Guide for 6.1.0.
12/07/2020	Revision 1: Small addition to Register Collectors.
02/04/2021	Revision 2: Migration update.
03/18/2021	Revision 3: Minor update to Pre-Migration for 6.1.1.
03/23/2021	Release of FortiSIEM - KVM Installation Guide for 6.2.0.
04/22/2021	Revision 1: Added Install Log section.
05/06/2021	Release of FortiSIEM - KVM Installation Guide for 6.2.1.
06/07/2021	Updated Elasticsearch screenshot for 6.2.x guides.
11/18/2021	Updated Register Collectors instructions for 6.2.x guides.
08/18/2022	Updated All-in-one Installation section.
10/20/2022	Updated Register Collectors instructions for 6.x guides.

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 – Enterprise or Service Provider. The Service Provider deployment provides multi-tenancy.
- Whether FIPS should be enabled
- Install type:
 - All-in-one with Supervisor only, or
 - Cluster with Supervisor and Workers
- Storage type
 - Online – Local or NFS or Elasticsearch
 - Archive – NFS or HDFS
- Before beginning FortiSIEM deployment, you must configure external storage
- Determine hardware requirements:

Node	vCPU	RAM	Local Disks
Supervisor (All in one)	Minimum – 12 Recommended - 32	Minimum <ul style="list-style-type: none">• without UEBA – 24GB• with UEBA - 32GB Recommended <ul style="list-style-type: none">• 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 <ul style="list-style-type: none">• without UEBA – 24GB• with UEBA - 32GB Recommended <ul style="list-style-type: none">• 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

Node	vCPU	RAM	Local Disks
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 KVM](#)
- [Configure FortiSIEM via GUI](#)
- [Upload the FortiSIEM License](#)
- [Choose an Event Database](#)

Import FortiSIEM into KVM

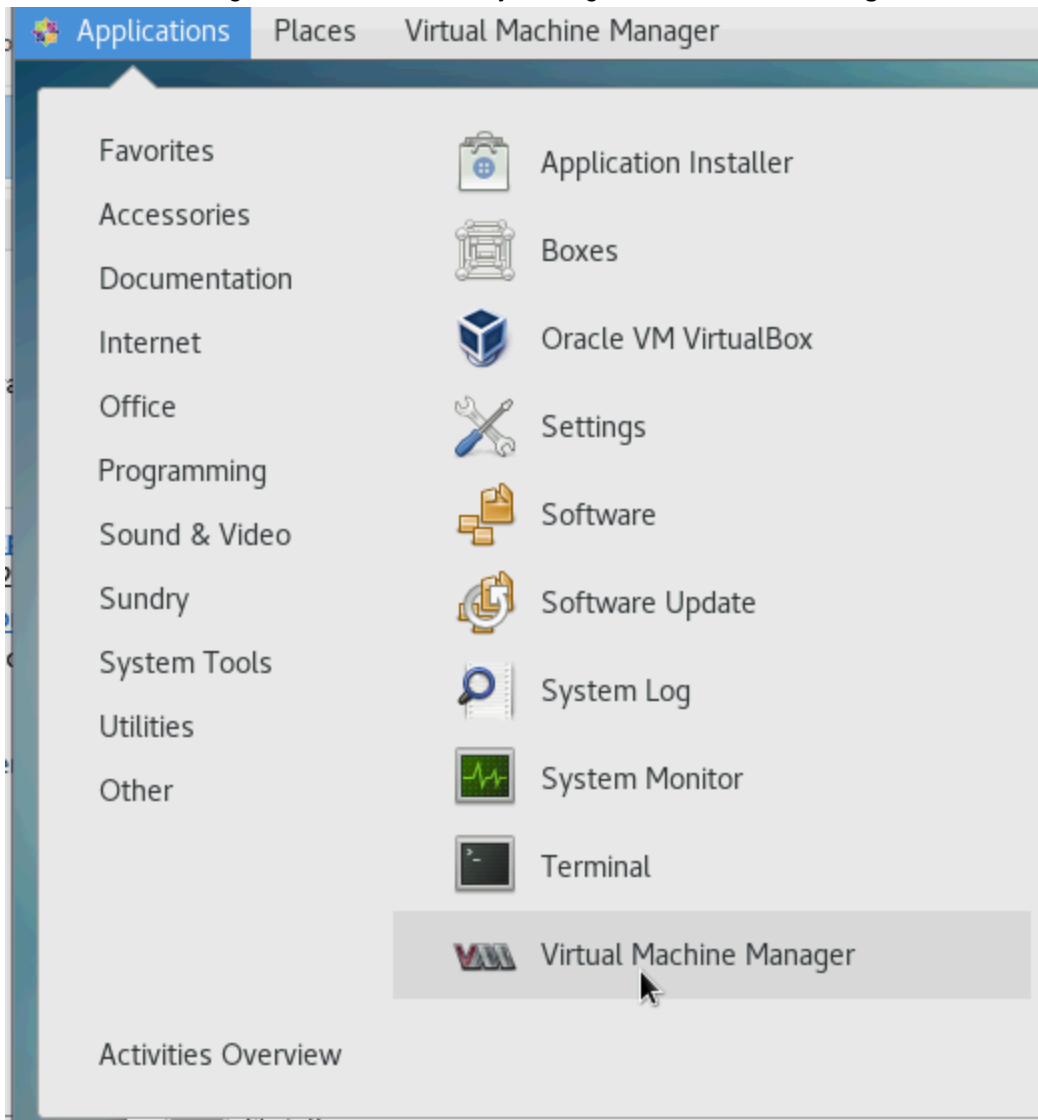
1. Go to the Fortinet Support website <https://support.fortinet.com> to download the KVM package `FSM_Full_All_KVM_6.2.0_build0219.zip`. See [Downloading FortiSIEM Products](#) for more information on downloading products from the support website.
2. Download the packages for Super/Worker and Collector to the location where you want to install the image. For example: `FSM_Full_All_KVM_6.2.0_build0219.zip`.
3. Unzip the .zip file to get the `FortiSIEM-6.2.0.0219.qcow2` file.
4. Copy the above unzipped `qcow2` file into the storage image location separately for the installation of super, worker, and collector. For example:

```
/var/lib/libvirt/images/super/FortiSIEM-6.2.0.0219.qcow2
```

```
/var/lib/libvirt/images/worker/FortiSIEM-6.2.0.0219.qcow2
```

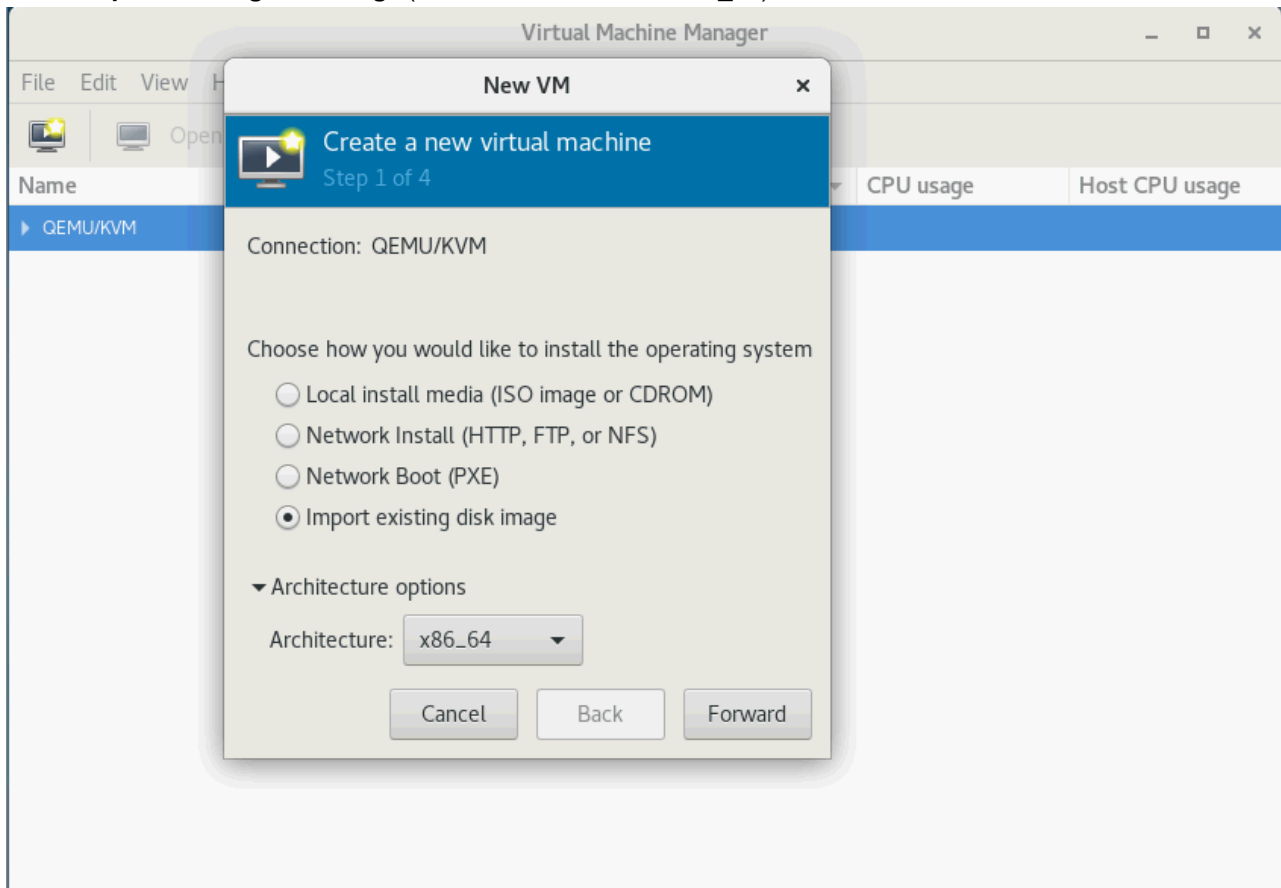
```
/var/lib/libvirt/images/collector/FortiSIEM-6.2.0.0219.qcow2
```

5. Start the KVM Manager for the KVM server by clicking **Virtual Machine Manager**.

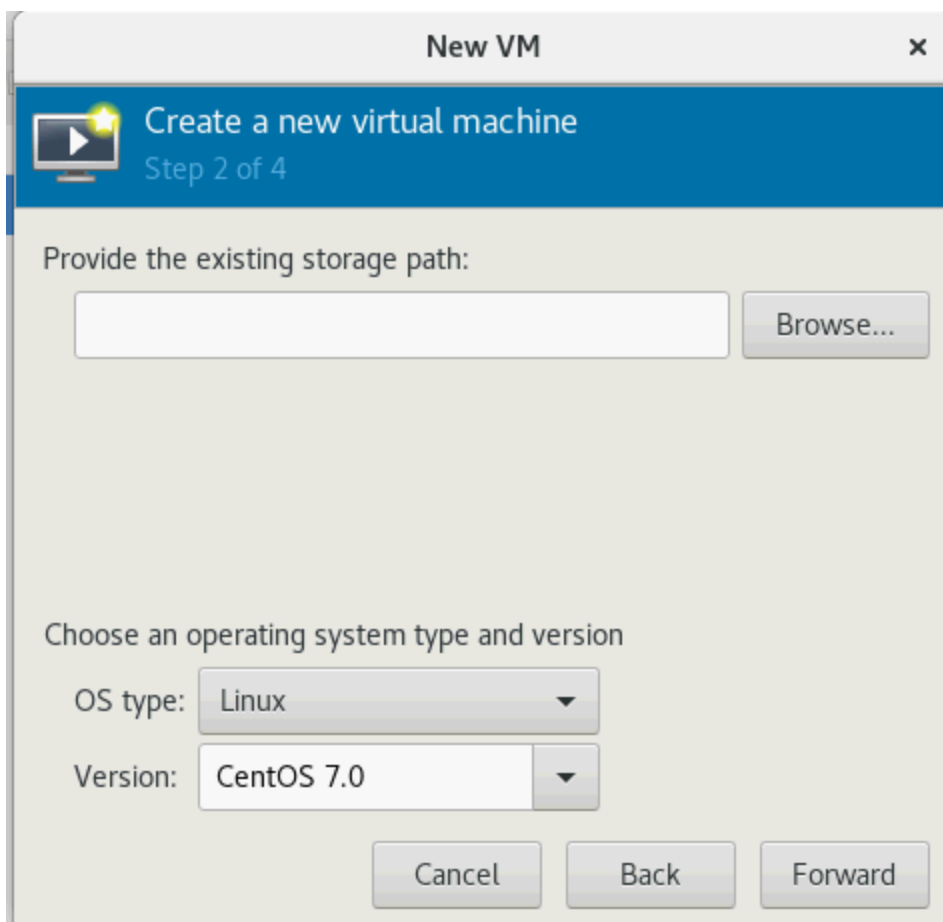


6. Click **Create a new virtual machine** from the **Virtual Machine Manager**.

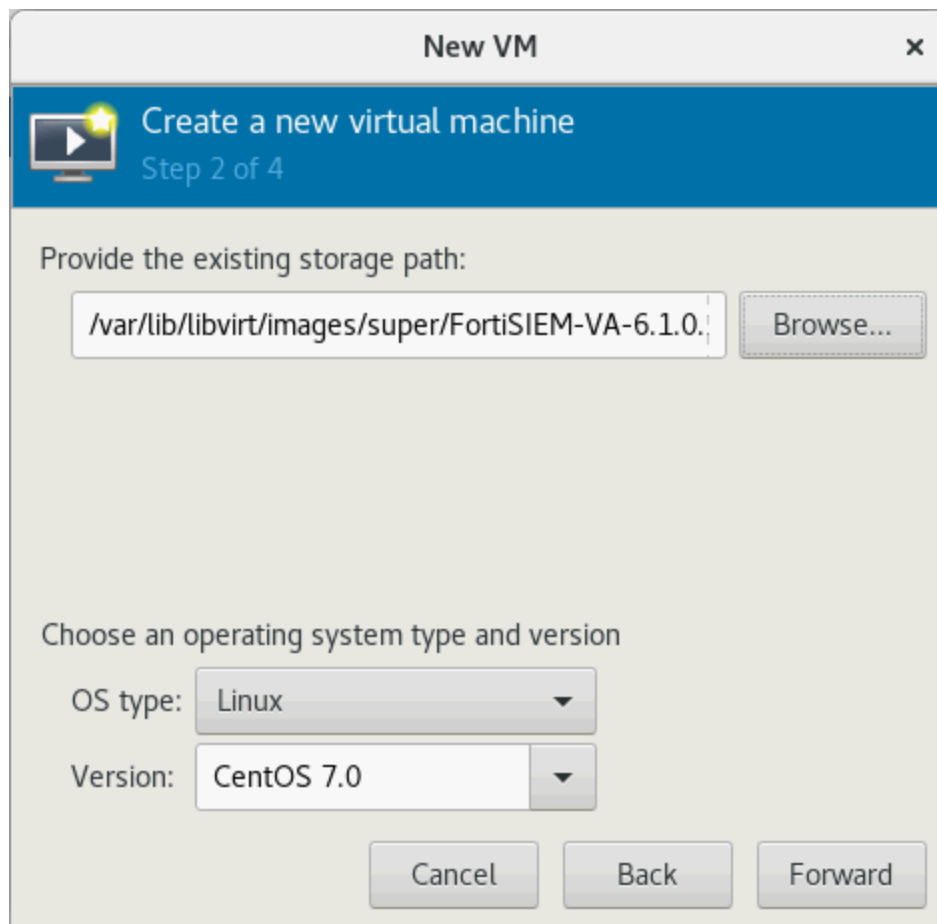
7. Select **Import existing disk image** (Architecture defaults to x86_64).



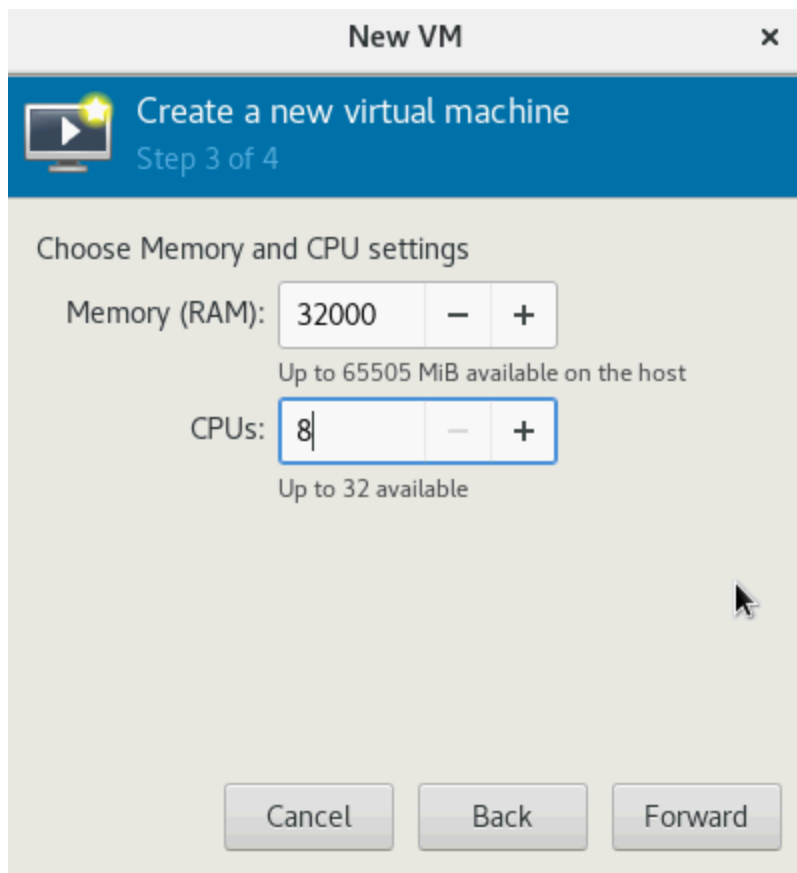
8. Click **Forward** from the above step, and select the OS type as **Linux** and Version to **CentOS 7.0**, then click **Forward**.



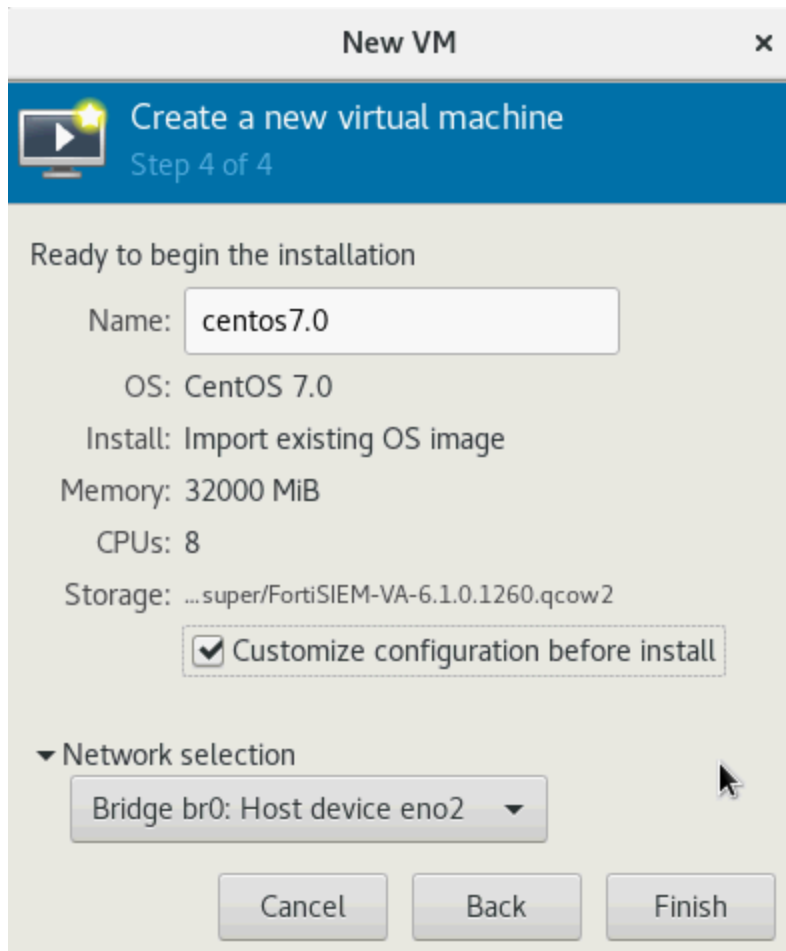
9. Click **Browse...** from the **New VM** dialog box to find the location for the file (for example, `FortiSIEM-6.2.0.0219.qcow2`). Or, you can directly copy the path and the `qcow2` file name under **Provide the existing storage path**. Click **Forward**.



10. In the New VM dialog box, change **Memory** from **1024** to **32000 (32 GB)**. Change the **CPUs** from **1** to **8**. Click **Forward**.



11. Before clicking **Finish**, make sure to check that the **Network selection** is a **Bridge**, and **Customize configuration before install** is selected. Then, click **Finish**.



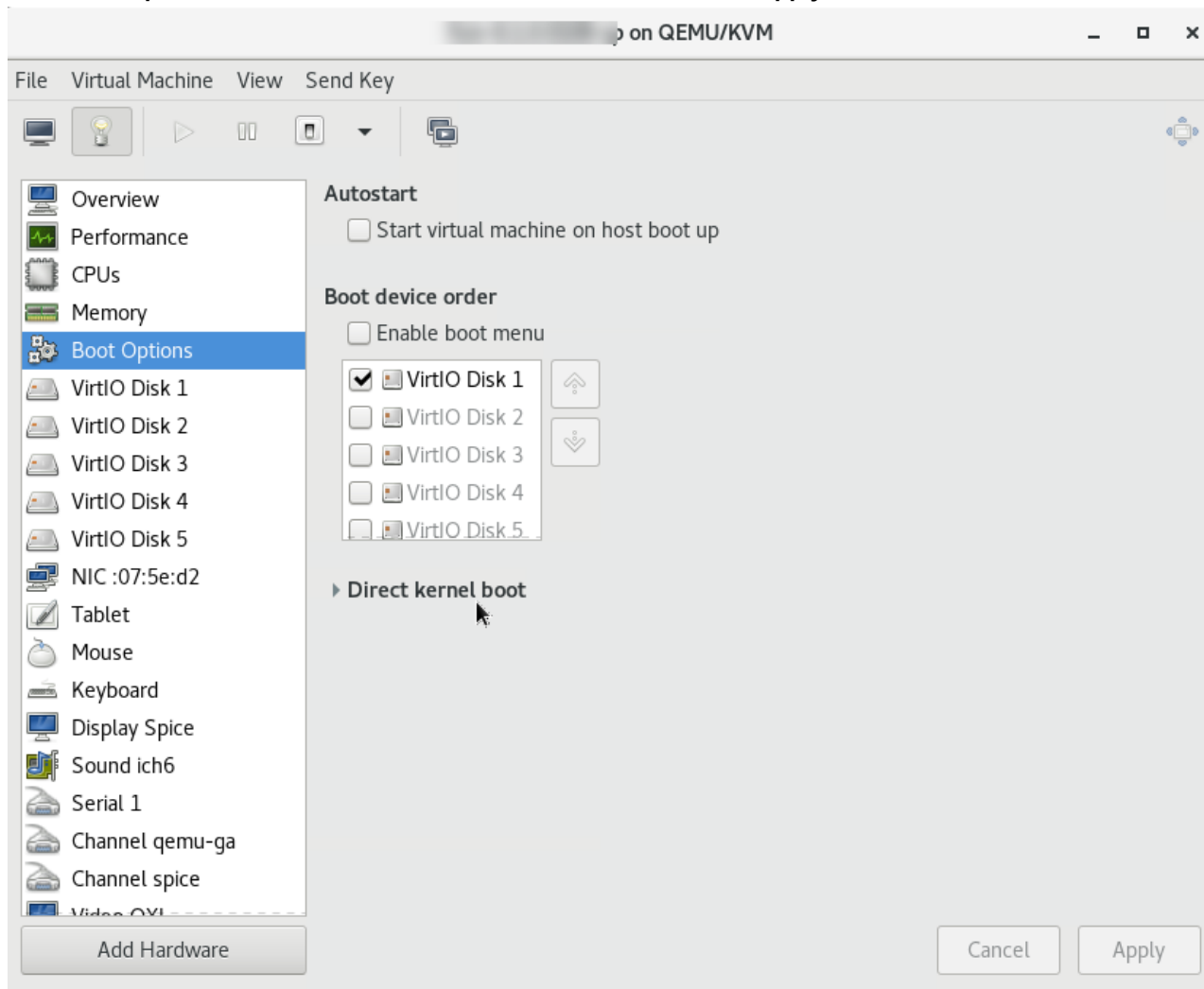
12. Start to make the configuration. This is the place where you change the name from the default name centos 7.0 in the Overview.



In every step in this configuration, you must click **Apply** to save your changes.

13. Click **VirtIO Disk 1** (the default disk) and check that the **Source** path is correct. Click **Apply**.

14. Click **Boot Options** and make sure that **VirtIO Disk 1** is checked. Click **Apply**.



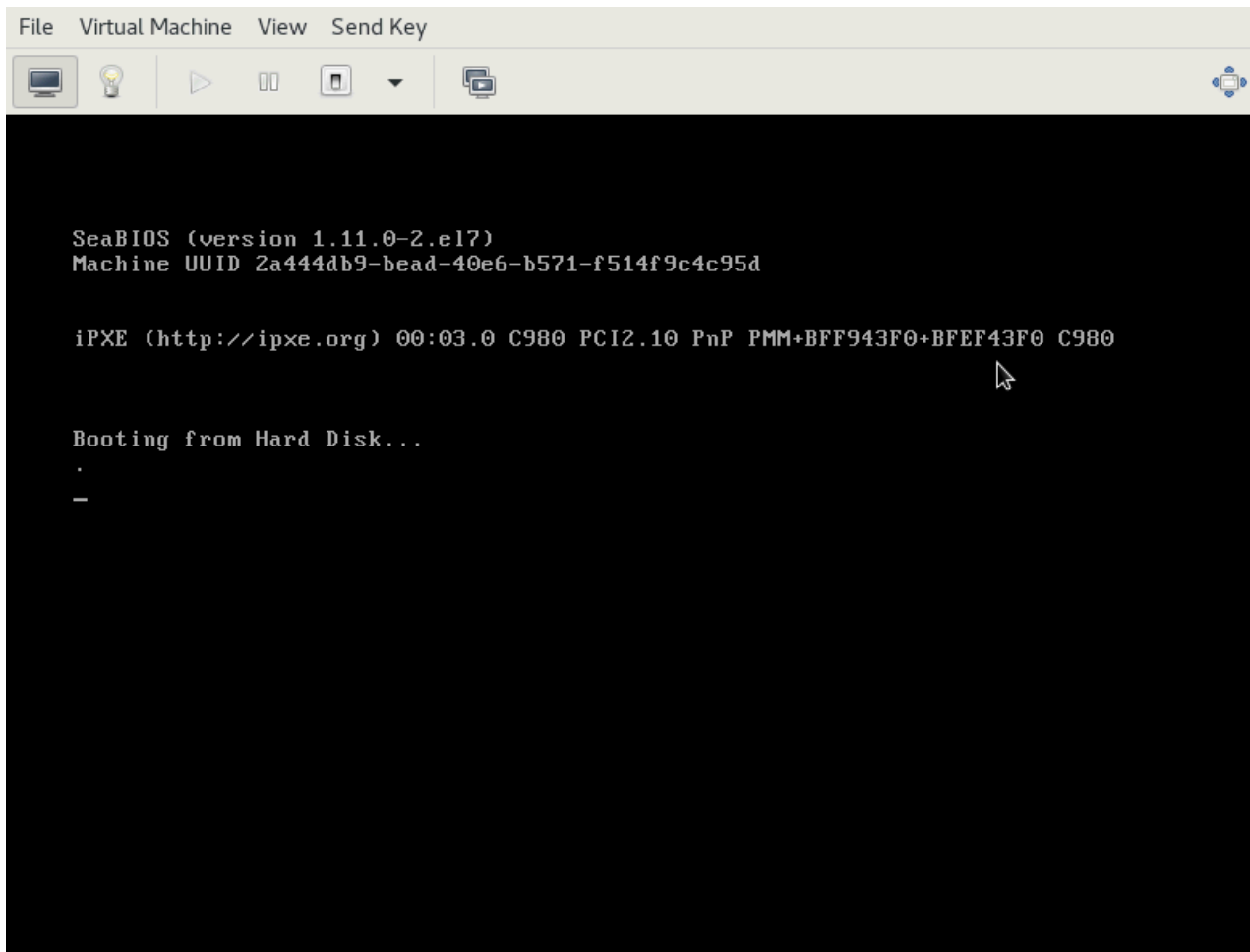
15. Add an extra three disks by clicking **Add Hardware**. Assign to them the disk image size to 100GB, 60GB, and 60GB respectively with the same Bus type of **VirtIO**. Click **Finish** to save the result.

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	/cldb
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.

16. Click **Begin Installation** at the top of the dialog box to start the installation process.



17. At the end of booting, log in with the default login credentials: User: `root` and 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](#).

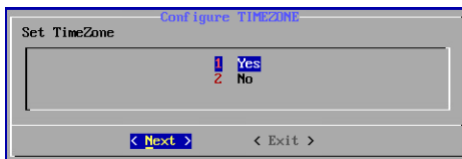
Configure FortiSIEM via GUI

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

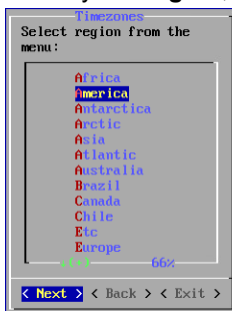
1. Log in as user `root` with the password you set in Step 18 above.
2. At the command prompt, go to `/usr/local/bin` and enter `configFSM.sh`, for example:

```
# configFSM.sh
```

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



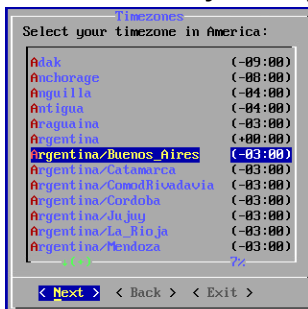
- Select your **Region**, and press **Next**.



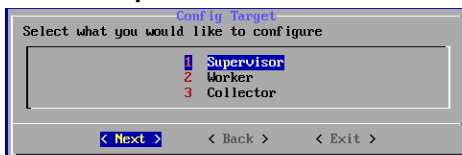
- Select your **Country**, and press **Next**.



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

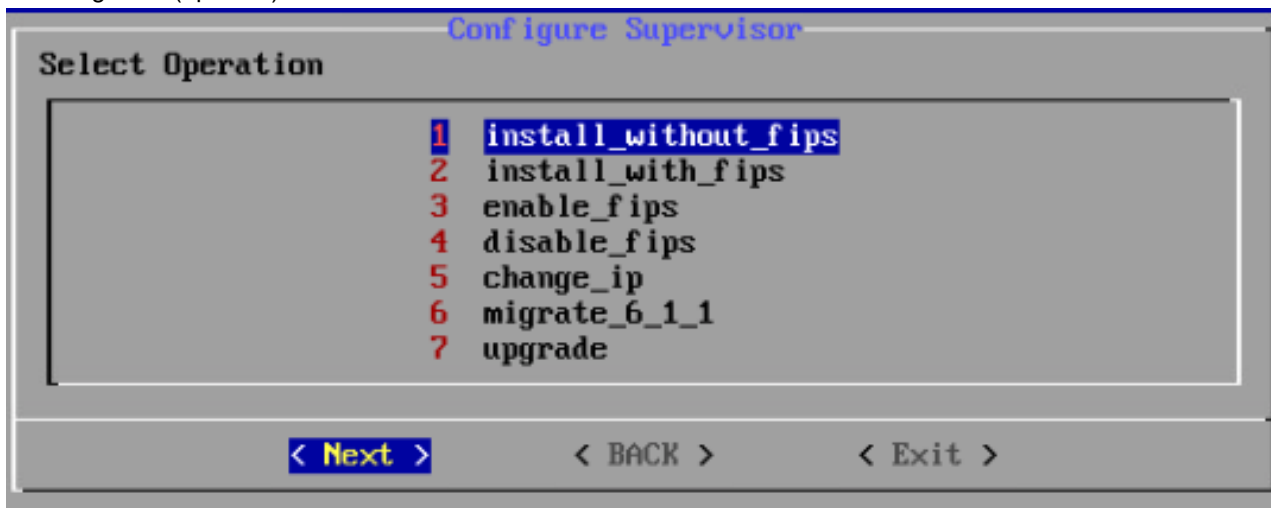


- Select **1 Supervisor**. Press **Next**.



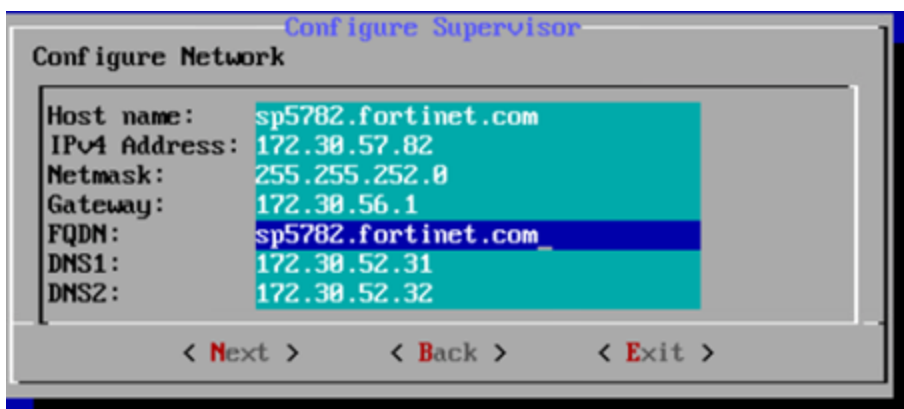
Regardless of whether you select **Supervisor**, **Worker**, or **Collector**, you will see the same series of screens.

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.



9. Configure the network by entering the following fields. Press **Next**.

Option	Description
Host Name	The Supervisor's host name
IPv4 Address	The Supervisor's IPv4 address
NetMask	The Supervisor's subnet
Gateway	Network gateway address
FQDN	Fully-qualified domain name
DNS1, DNS2	Addresses of the DNS servers



10. 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**.



11. 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
-f	FQDN address: fully-qualified domain name
-t	The IP type. The values can be either 4 (for ipv4) or 6 (for v6) Note: the 6 value is not currently supported.
--dns1, --dns2	Addresses of the DNS servers
-o	Installation option (install_without_fips , install_with_fips , enable_fips , disable_fips , migrate_6_1_0 , or change_ip)
-z	Time zone. Possible values are US/Pacific , Asia/Shanghai , Europe/London , or

Option	Description
Africa/Tunis	
--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.

- Open a Web browser and log in to the FortiSIEM UI.
- 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.
- 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.
- Proceed to [Choose an Event Database](#).

Choose an Event Database

For a fresh installation, you will be taken to the Event Database Storage page. You will be asked to choose between **Local Disk**, **NFS** or **Elasticsearch** options. 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
```

The response should be similar to the following.

```
Every 1.0s: /opt/phenix/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, 6.22us, 2.12sy, 0.02ni, 91.47id, 0.02wa, 0.22hi, 0.12si, 0.02st
Mem: 65782100k total, 10366036k used, 55336064k free, 4352k buffers
Swap: 2621436k total, 0k used, 2621436k free, 246500k cached

PROCESS                UPTIME                CPU%                VIRT_MEM            RES_MEM
phParser                41:23                 0                   2176m                550m
phQueryMaster           41:41                 0                   1028m                77m
phRuleMaster            41:41                 0                   1079m                504m
phRuleWorker            41:41                 0                   1363m                205m
phQueryWorker           41:41                 0                   1383m                279m
phDataManager           41:41                 0                   1419m                285m
phDiscover              41:41                 0                   512m                 53m
phReportMaker           41:41                 0                   1433m                95m
phReportMaster          41:41                 0                   683m                 67m
phIdentityWorker        41:41                 0                   1027m                50m
phIdentityMaster        41:41                 0                   491m                 39m
phAgentManager          41:41                 0                   1425m                54m
phCheckpoint            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
appSvc                  01:10:07              0                   15172m               3026m
DBSvc                   01:10:38              0                   317m                 30m
phnomaly                01:00:07              0                   907m                 64m
phFortiInsightAI        01:10:40              0                   23432m               430m
Redis                   01:10:10              0                   55m                  25m
```

Cluster Installation

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

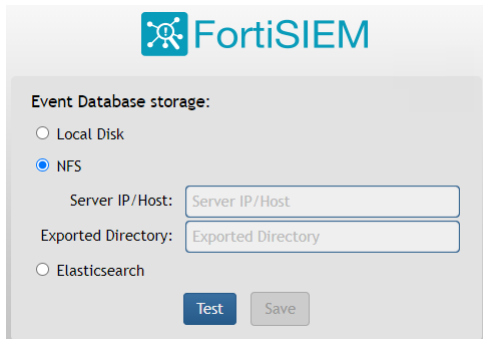
- [Install Supervisor](#)
- [Install Workers](#)
- [Register Workers](#)
- [Install Collectors](#)
- [Register Collectors](#)

Install Supervisor

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

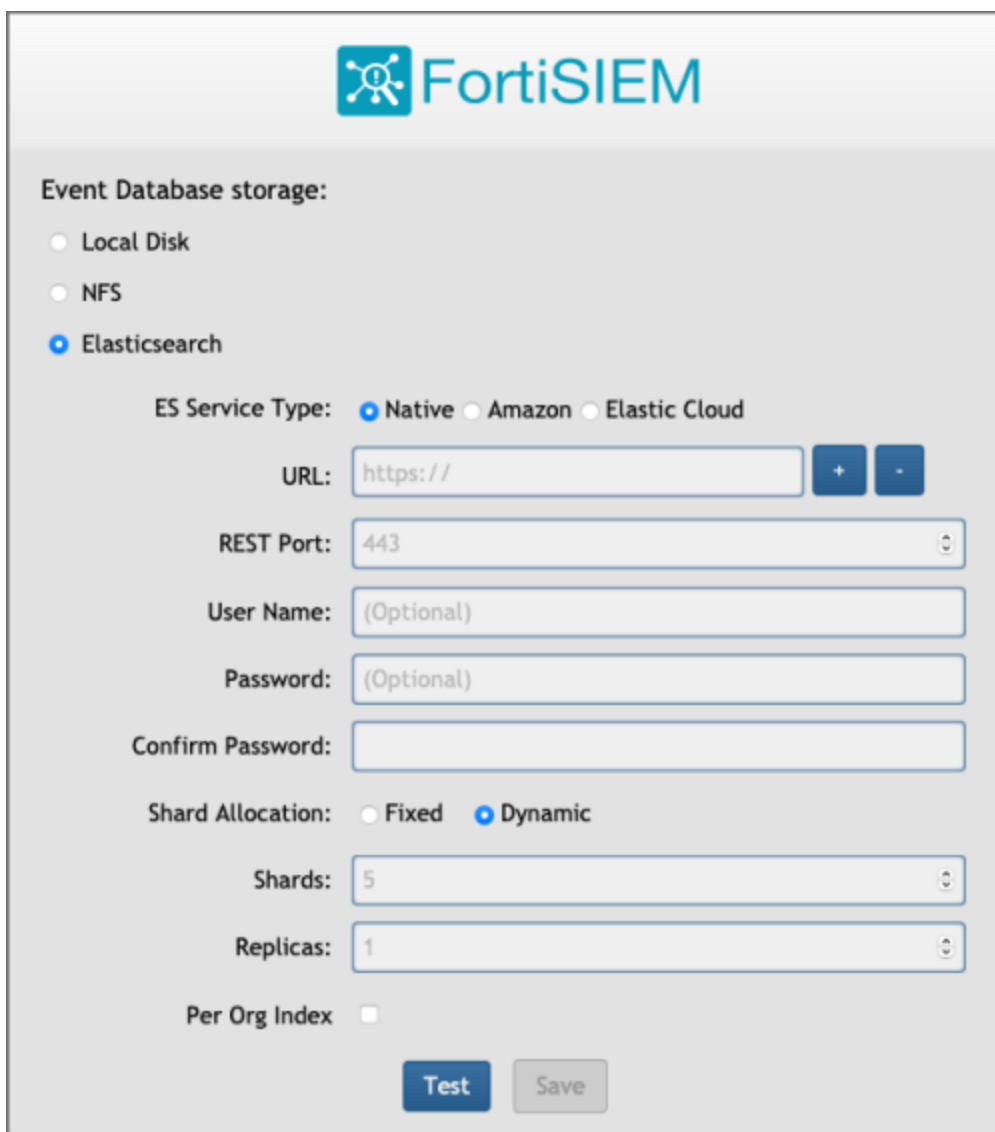
- Setting up hardware - you do not need an event database.
- Setting up an Event database - Configure the cluster for either NFS or Elasticsearch.

NFS



The screenshot shows the FortiSIEM configuration interface for NFS storage. At the top is the FortiSIEM logo. Below it, the section is titled "Event Database storage:". There are three radio button options: "Local Disk", "NFS" (which is selected), and "Elasticsearch". Under the "NFS" option, there are two input fields: "Server IP/Host:" and "Exported Directory:". At the bottom of the form are two buttons: "Test" and "Save".

Elasticsearch



The screenshot shows the FortiSIEM configuration interface for Elasticsearch storage. At the top is the FortiSIEM logo. Below it, the section is titled "Event Database storage:". There are three radio button options: "Local Disk", "NFS", and "Elasticsearch" (which is selected). Under the "Elasticsearch" option, there is a sub-section for "ES Service Type:" with three radio button options: "Native" (selected), "Amazon", and "Elastic Cloud". Below this are several input fields: "URL:" (with a value of "https://" and plus/minus buttons), "REST Port:" (with a value of "443" and a spinner), "User Name:" (with a value of "(Optional)"), "Password:" (with a value of "(Optional)"), and "Confirm Password:". There is also a "Shard Allocation:" section with two radio button options: "Fixed" and "Dynamic" (selected). Below that are "Shards:" (with a value of "5" and a spinner) and "Replicas:" (with a value of "1" and a spinner). At the bottom, there is a "Per Org Index" checkbox which is unchecked. At the very bottom are two buttons: "Test" and "Save".

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 CPU and memory settings for Worker node, and required hard disk settings are:

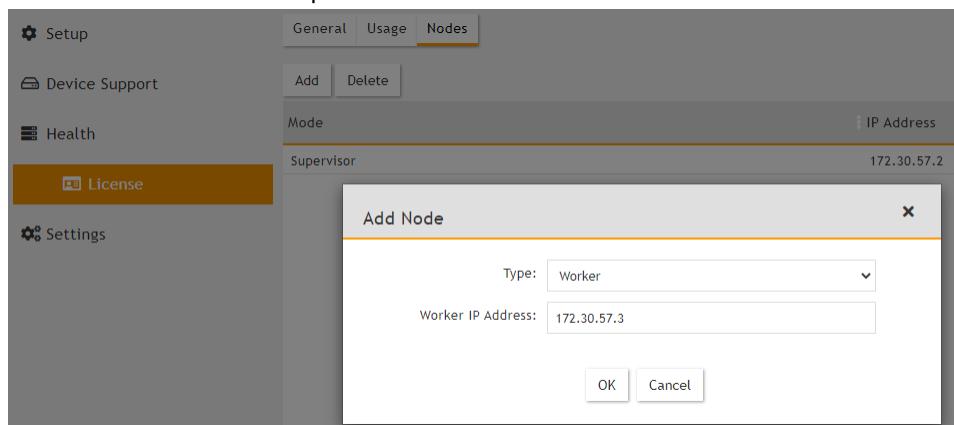
- CPU = 8
- Memory = 24 GB
- Two hard disks:
 - OS – 25GB
 - OPT – 100GB

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. Click **Add**.



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 system health interface. On the left is a navigation menu with 'Health' selected. The main area is divided into two sections. The top section, 'Collector Health', displays a table of collector nodes:

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

The bottom section, 'Process level metrics for wk573.fortinet.com (172.30.57.3)', displays a table of running processes:

Process Name	Status	Up Time	CPU	Physical Memory	Virtual Memory	SharedStore ID	SharedStore Position
Node.js-charting	Up	1h 3m	0%	70 MB	916 MB		
httpd	Up	14m 6s	0%	16 MB	310 MB		
Redis	Up	14m 6s	0%	22 MB	51 MB		
Node.js-pm2	Up	1h 3m	0%	44 MB	899 MB		
rsyslogd	Up	1h 3m	0%	7 MB	189 MB		
ohDataManaeer	Up	14m 6s	0%	103 MB	1229 MB	1	126108

At the bottom of the interface, there is a footer with copyright information and user details: 'Copyright © 2020 Fortinet, Inc. All rights reserved. Organization: Super User: admin Scope: Global FortiSIEM'.

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 CPU and memory settings for Collector node, and required hard disk settings 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.

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

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

Service Provider Deployments

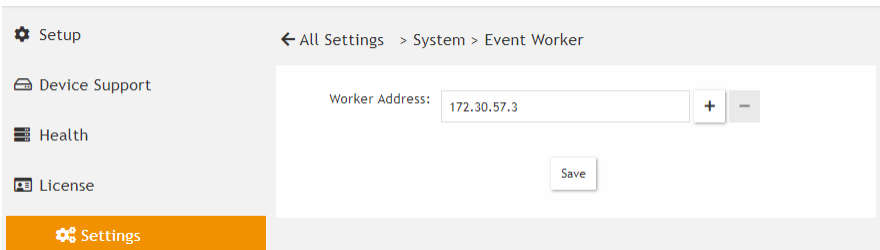
For Service Provider deployments, follow these steps.

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

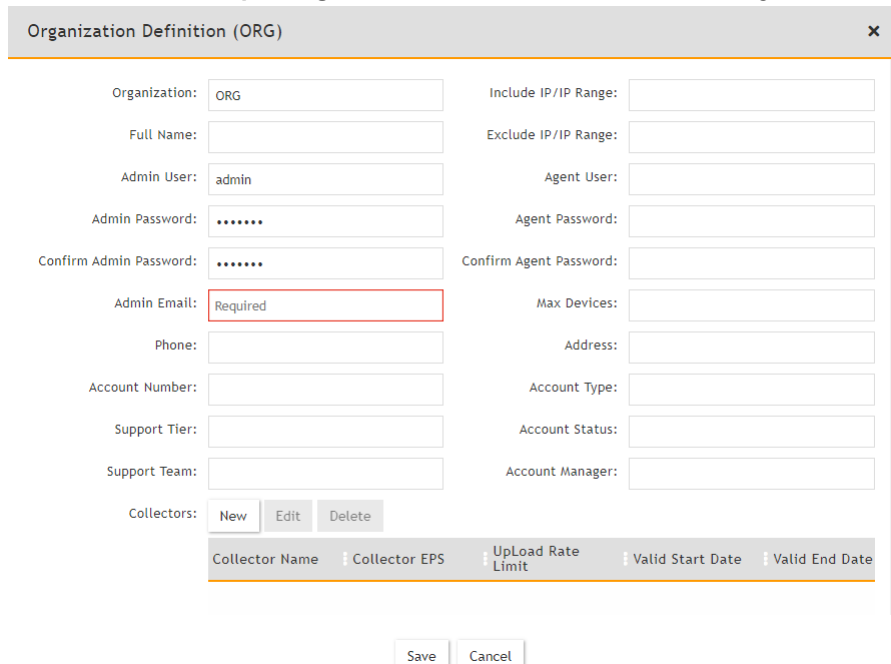
of events to the listed Event Workers.

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

b. Click OK.



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

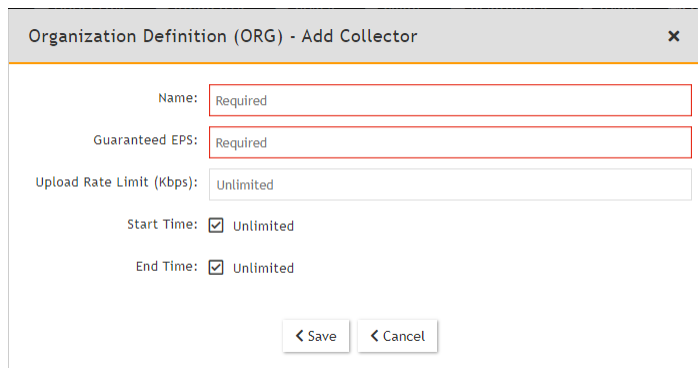


4. Enter the Organization Name, Admin User, Admin Password, and Admin Email.

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](#).

```
root@co574 ~# phProvisionCollector
Usage: phProvisionCollector --add <Organization-user-name> <Organization-user-password> <Supervisor-IP> <Organization-name> <Collector-name>
root@co574 ~# phProvisionCollector --add admin Admin@11 172.30.57.2 ORG CO-ORG
Continuing to provision the Collector
This collector is registered successfully. Normal Exit and restart of phMonitor after collector license registration.
root@co574 ~# _
```

The Collector will reboot during the Registration.

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

The screenshot shows the 'Collector Health' page in the FortiSIEM interface. It features a sidebar with navigation options like Setup, Device Support, Health, License, and Settings. The main content area is divided into two sections. The top section is a table listing collector details, and the bottom section is a detailed view of the processes running on the collector.

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

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

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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