



1.2 TXOne StellarOne™

Installation Guide

Unify your cyber security posture with one centralized console



Endpoint Security

TXOne StellarOne™

Installation Guide

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<http://docs.trendmicro.com/en-us/enterprise/txone-stellarenforce.aspx> and
<http://docs.trendmicro.com/en-us/enterprise/txone-stellarprotect.aspx>

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This documentation introduces the main features of the product and/or provides installation instructions for a production environment. Read through the documentation before installing or using the product.

Detailed information about how to use specific features within the product may be available at the TXOne Online Help Center and/or the TXOne Knowledge Base.

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System Requirements

StellarOne is packaged in an Open Virtual Appliance (OVA) format. This section lists the minimum system requirements.

Supported Hypervisor:

- VMware ESXi 6.5.x or later versions
- VMware Workstation 16.x or later versions

Supported Browser:

- Google Chrome 87 or later versions
- Microsoft Edge 79 or later versions
- Mozilla Firefox 78 or later versions

Note: The minimum supported resolution is **1366x768**.

Sizing

The sizing recommendation varies by the scale of agents, configuration, and logs that will be retained. Users can gradually increase the number of endpoints while observing server performance data.

Maximum Number of Agents	30,000	20,000	15,000	10,000	5,000	1,000	500
Minimum Number of vCores	8	8	4	4	4	4	4
Memory Size	32 GB	16 GB	16 GB	16 GB	12 GB	12 GB	12 GB
1st HDD Size	25 GB						
2nd HDD Size (Recommended)	100 GB	100 GB	50 GB	50 GB	50 GB	50 GB	50 GB

You can determine the necessary external disk size depending on the number of logs to be stored, as shown on the suggestion table below.

Number of Logs	Disk Size
50,000,000	50 GB
100,000,000	100 GB
150,000,000	150 GB

To determine the ideal specifications for your external HDD, please refer to the following formula:

[Output log numbers for a single agent per day] x [Log storage period in days] x
[Total number of agents]

Example: External HDD size for 20,000 agents

- Output log numbers for a single agent per day: 100 events
- Log storage period in days: 30 days
- Total number of agents: 20,000 agents

Total number of logs: $100 \times 30 \times 20000 = 60,000,000$ Logs

For this case, to prepare 100GB for storage space would be required.

Deployment Time cost

For agent deployment tasks, please consider network bandwidth, there have one suggestion table for reference.

Basic concept:

Total available bandwidth / Deploy task size = How many clients can be deployed at one task.

Current StellarOne deploy task includes below 3 types.

- Incremental pattern update: works for agent pattern version not less than server version for two weeks, usually cost less than 5 MB
- Full pattern update: works for agent pattern version already exceed two-week-old than server/update source, cost 80MB
- Agent remote patch: Able to remote deploy agent upgrade package to upgrade agent, cost around 70 MB

Below table is planned for deploy in 5 minutes and cost 50% bandwidth, how many agents can be select at once.

Deploy Task	10 Mb	100 Mb	1000 MB	10 Gb
Incremental Pattern Deploy	38	375	3750	37500
Full Pattern Deploy	2	23	234	2344
Agent Remote Patch	3	27	268	2679

Ports and FQDN Used

The following table shows the ports that are used by the StellarOne server.

From	To	Open Port	FQDN	Comments
StellarProtect	StellarOne	9443		StellarOne's listening port for StellarProtect
StellarEnforce	StellarOne	8000		StellarOne's listening port for StellarEnforce
StellarOne	StellarProtect	14336		StellarProtect's listening port
StellarOne	StellarEnforce	14336		StellarEnforce's listening port
StellarOne	License (PR) Server	443	odc.cs.txone-networks.com	StellarOne's port for license verification and renewal through HTTPS
Browser	StellarOne Web	443		StellarOne's port for web access through HTTPS
StellarOne	Active Update Server	443	tmsl2p.activeupdate.trendmicro.com/activeupdate	StellarOne's port for the Active Update Server

Note: The following ports are reserved for StellarOne private service using, those are not allowed to use.

StellarOne occupied port	Port
Stellar Enforce default Port	8000
Stellar Protect default Port	9443
SSH	22
NTP	123
Web	443
StellarOne Internal Service	25
	7590
	8888
	8889
	8999
	9091

StellarOne Onboarding to VMware ESXi

This chapter describes how to deploy StellarOne to a VMware ESXi system.

Prerequisites

- The OVA packages provided by TXOne must be available and accessible to VMwareESXi (ESXi version 6.5.x or later versions, including the required specifications).
- The necessary networks have been properly created in ESXi.

Ports Used by StellarOne

The following table shows the ports that are used by the StellarOne server.

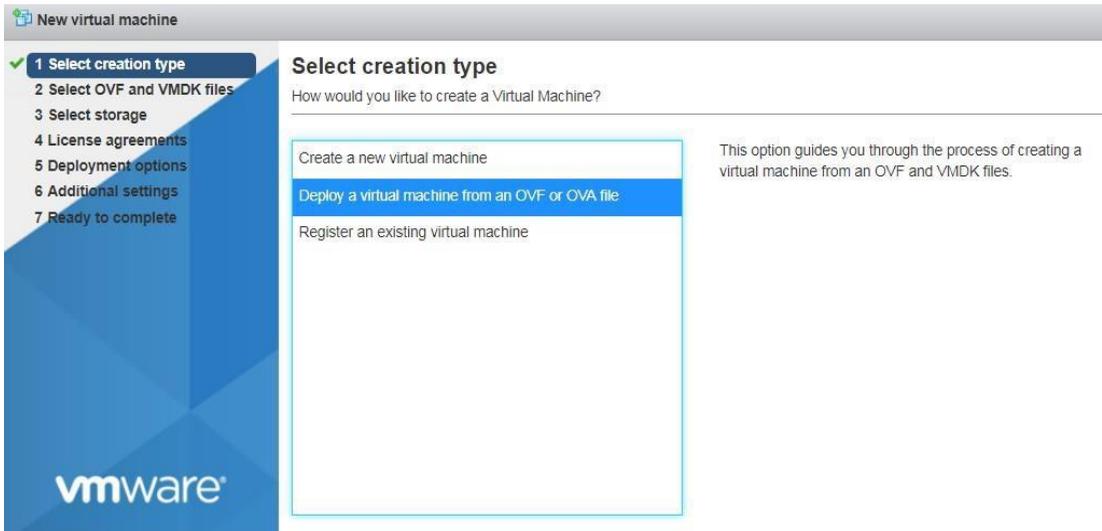
From	To	Open Port	Comments
StellarProtect	StellarOne	9443	StellarOne's listening port for StellarProtect
StellarEnforce	StellarOne	8000	StellarOne's listening port for StellarEnforce
StellarOne	StellarProtect	14336	StellarProtect's listening port for StellarOne
StellarOne	StellarEnforce	14336	StellarEnforce's listening port for StellarOne
Browser	StellarOne Web	443	StellarOne's port for web access and license verification through HTTPS
StellarOne	Active Update Server	443	StellarOne's port for the Active Update Server

Deploying StellarOne

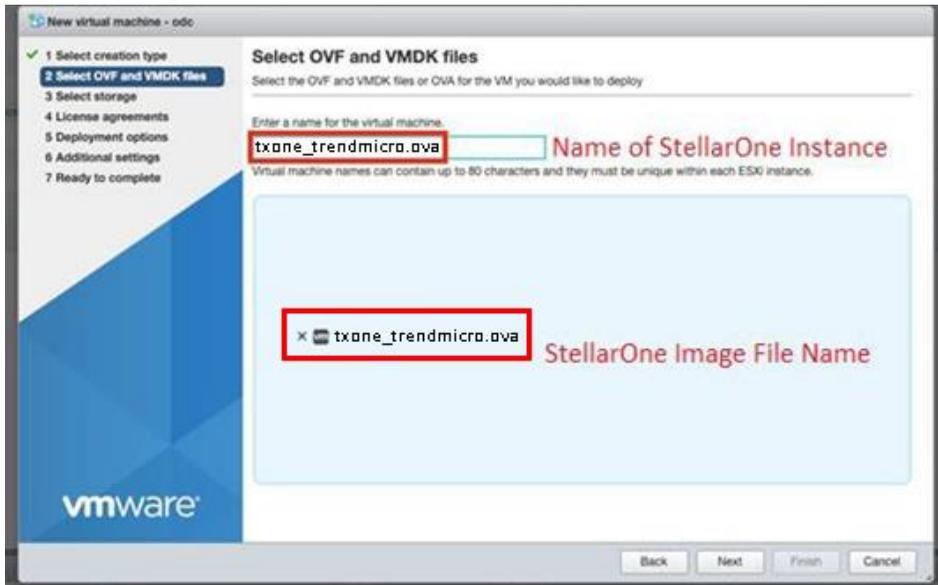
1. Log in to the VMware vSphere web client.
2. Under [Navigator], click [Host] and then click [Create/Register VM].



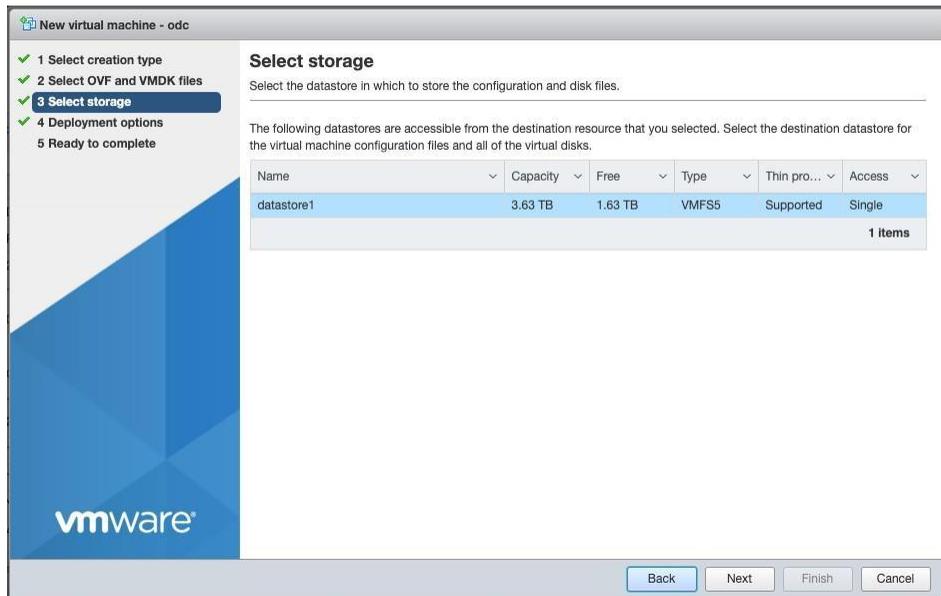
3. Select [Deploy a virtual machine from an OVF or OVA file].



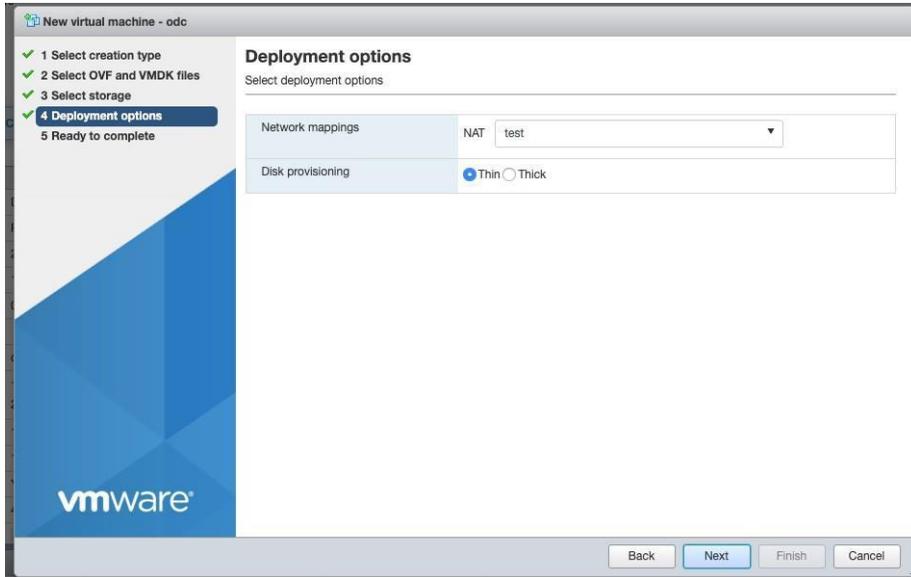
- Input a name for your new StellarOne virtual machine and then select the StellarOne disk image to upload.



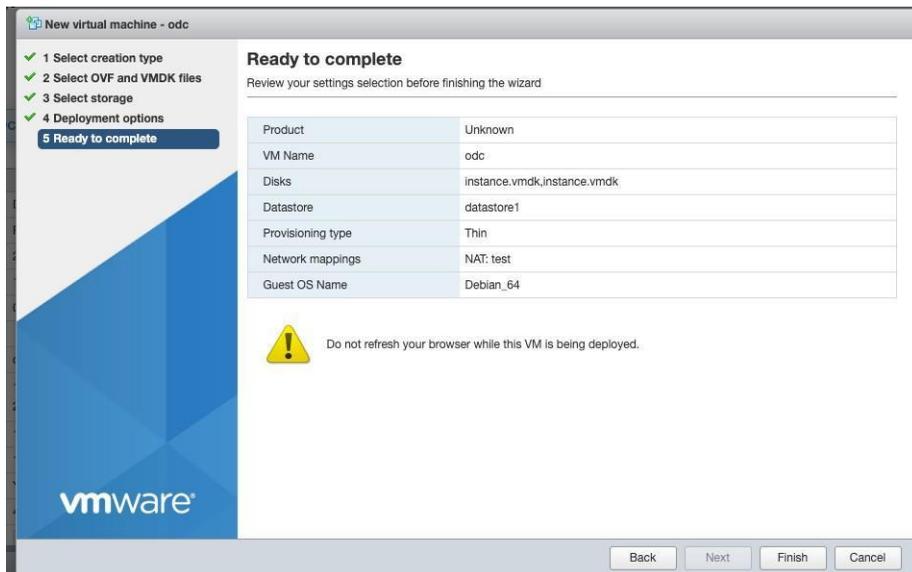
- Choose a storage location for the StellarOne virtual machine.



6. Select deployment options.



7. When you see the [Ready to complete] screen, click [Finish] to start the deployment.



8. Under the [Recent Tasks] pane, you will see a progress bar indicating that the StellarOne image is being uploaded. Please wait until the upload is finished.

9. Add an external disk with at least 50 GB of space to the StellarOne instance.
 - a. Close the StellarOne instance if it is open.
 - b. You can decide the external disk size depending on the number of logs to be stored, as shown in the table below.

Number of Logs	Disk Size
50,000,000	50 GB
100,000,000	100 GB
150,000,000	150 GB

To determine the ideal specifications for your external HDD, please refer to the following formula:

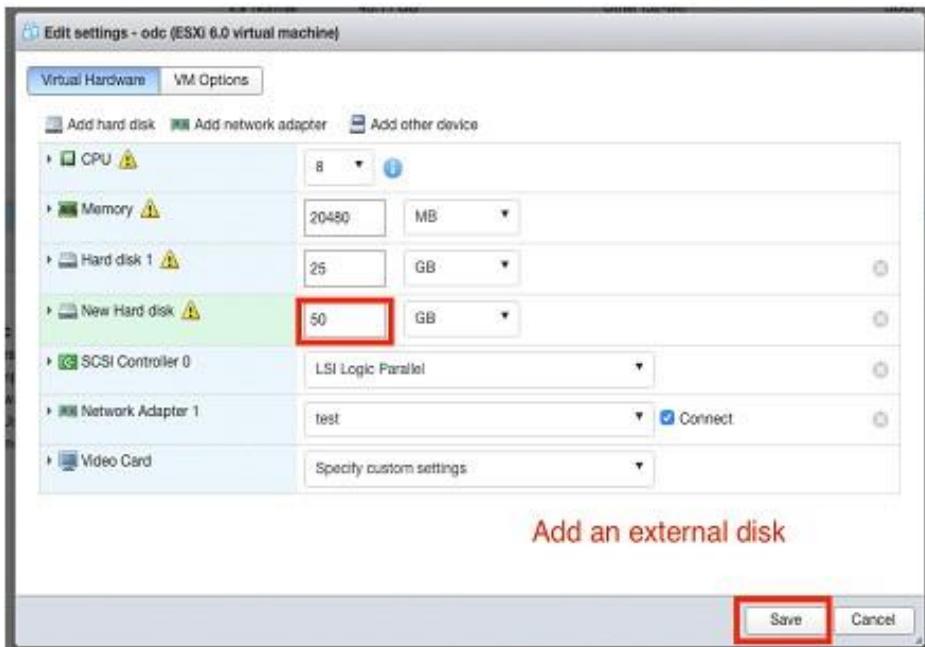
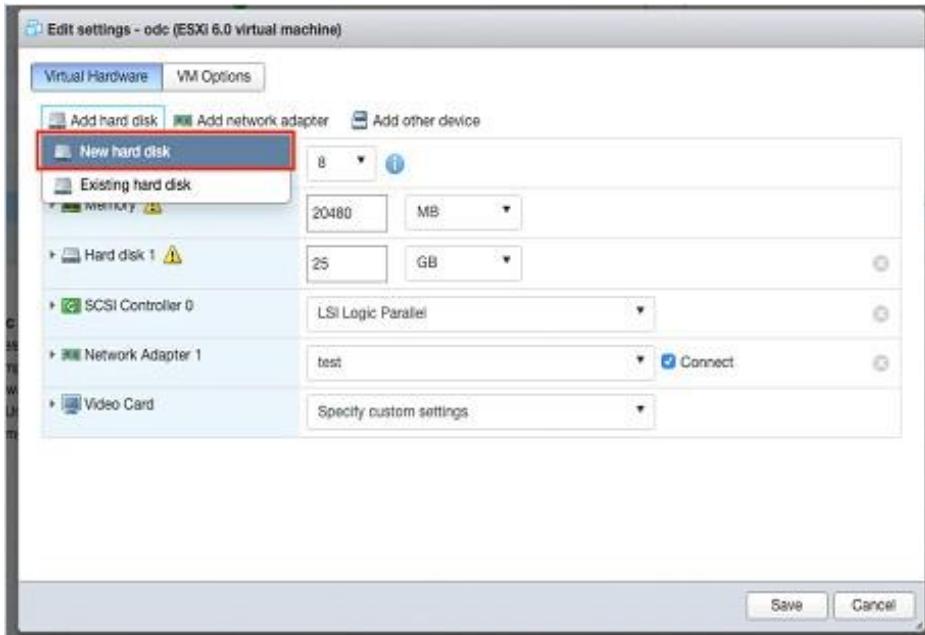
[Output Log numbers for a single agent per day] X [Log storage period in days]
X [Total number of agents]

Example: External HDD size for 20,000 agents

- Output log numbers for a single agent per day: 100 events
- Log storage period in days: 30 days
- Total number of agents: 20,000 agents

Total number of logs: $100 \times 30 \times 20,000 = 60,000,000$ logs

For this case, to prepare 100GB for storage space would be required.

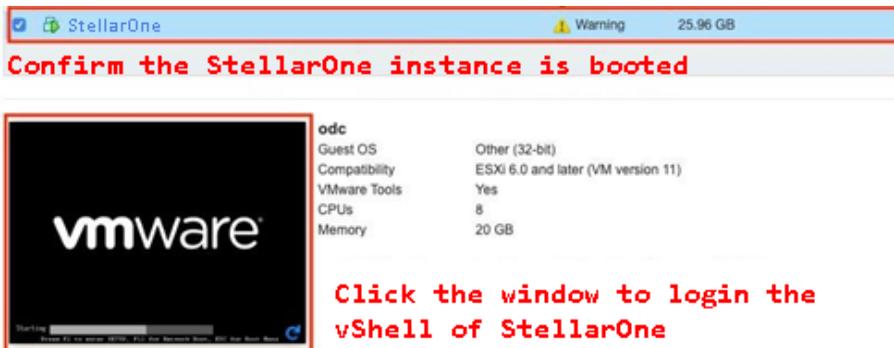


- c. Add the external disk by the following steps: [Actions] → [Edit Settings] → [Add Hard Disk] → [Save].
- d. If you must increase the number of logs which StellarOne can store, the steps are:
 - (1) Shut down StellarOne.
 - (2) Increase the external disk size to fit the maximum log requirements.
 - (3) Restart the instance of StellarOne. After that, the storage available for StellarOne’s log files will be expanded.
- e. If you want to migrate to the existing StellarOne settings to the newly-launched VM, please refer to [System Migration](#).

Note: StellarOne requires one external disk with a minimum size above **50GB**, otherwise StellarOne will not finish initialization and will not complete the boot process.

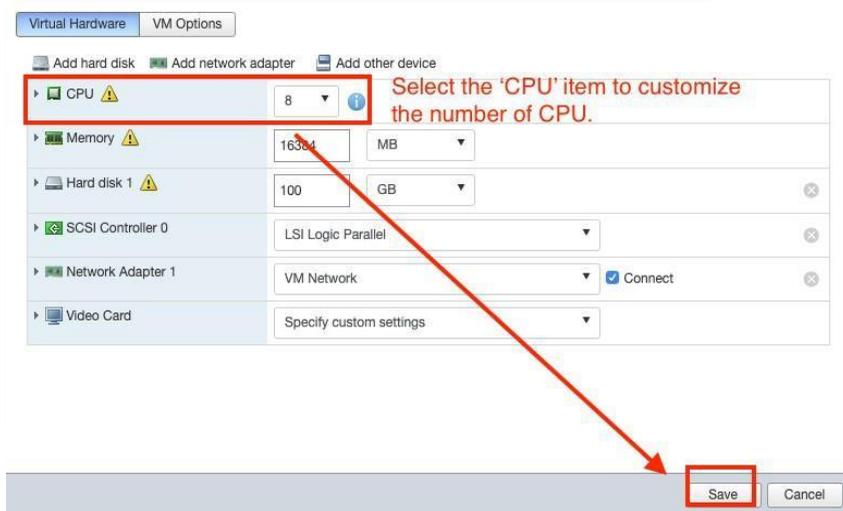
Note: The external disk is used to store the system configurations and event logs. You may attach the external disk of a terminated StellarOne instance here instead of adding a new disk if you want to migrate the previous configurations and logs to a new instance.

10. Turn on the VM.

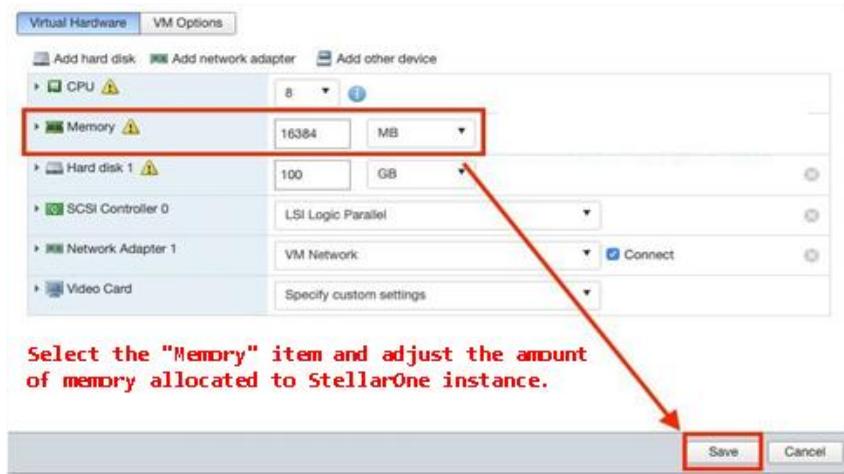


11. (Optional) Adjust your StellarOne instance to use proper resource configurations based on the default settings (8-core CPU, 16 GB Memory).

- a. Shut down the instance of StellarOne and click [Edit]. The [Edit Settings] window will appear.
- b. Configure the number of CPU cores.



- c. Configure the amount of memory.



- d. Boot the StellarOne instance.

Sizing Table

Number of Agents	Number of CPU Cores	Memory Size
500	4 cores	12 GB
1,000	4 cores	12 GB
5,000	4 cores	12 GB
10,000	4 cores	16 GB
15,000	4 cores	16 GB
20,000	8 cores	16 GB
30,000	8 cores	32 GB

Accessing StellarOne via CLI

1. Open the StellarOne VM console.
2. Log in with "**root / txone**".
3. Change the default password.
 - a. Type **oobe** and press enter.
 - b. Change the default password.
 - c. Log in to StellarOne again with your new password.

```
$ help
vShell, version v1.6.1-29-g7ecec51
The commands provided in:
  access-list  Manage the IP whitelists
  dx           Curl the target server.
  env         Manage system environment variables
  exit        Exit this shell
  help        List all command usage
  iface       Manage the network interfaces
  ping        Test the reachability of a host
  poweroff    Shut down the machine immediately
  pwd         Change the root user password
  reboot      Restart the machine immediately
  resolv      Manage the domain name server
  scp         Send files via scp
  ssh         SSH to a device
  service     Manage the device center services
  sftp        Send files via sftp
  web         Commands of the device center web
  stellar     Commands of the Stellar products
  locale      Locale setting
  network     Manage network of the StellarOne service

Shortcut table:
  Tab         Auto-complete or choose the next suggestion on the list
  Ctrl + A    Go to the head of the line (Home)
  Ctrl + E    Go to the tail of the line (End)
  Ctrl + D    Delete the character located at the cursor
  Ctrl + L    Clear the screen
$ _
```

4. After logging in to StellarOne again, you may optionally type the “help” command to see a list of available commands for the instance.

Getting the IP Address of StellarOne Instance

1. Type the following command to get the IP address of StellarOne instance:

```
$ iface ls
```

```
Ctrl + L      Clear the screen
$ iface ls
[
  {
    "Name": "lo",
    "Family": "inet",
    "Method": "loopback"
  },
  {
    "Name": "eth0",
    "Family": "inet",
    "Method": "dhcp"
  }
]
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
        valid_lft forever preferred_lft forever
    inet6 ::1/128 scope host
        valid_lft forever preferred_lft forever
2: eth0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast state UP group default qlen 1000
    link/ether 00:0c:29:fc:65:af brd ff:ff:ff:ff:ff:ff
    inet 192.168.68.147/24 brd 192.168.68.255 scope global eth0
        valid_lft forever preferred_lft forever
    inet6 fe80::20c:29ff:fe6c:65af/64 scope link
        valid_lft forever preferred_lft forever
$
```

[Optional] Configuring the IP Address Settings

You can choose to configure the IP address manually.

1. Use the "iface update" command to update the settings of an existing network interface. For example, the following command sets the interface "eth0" to a static IP address 10.7.19.157/24 with the Gateway IP address 10.7.19.254:

```
$ iface update eth0 --method static --address 10.7.19.157 --netmask 255.255.255.0 --gateway 10.7.19.254
```

2. Confirm that the network interface settings are correct and execute the following command to bring the new settings into effect:

```
$ iface restart eth0
```

3. Execute the following command to view the network interface settings:

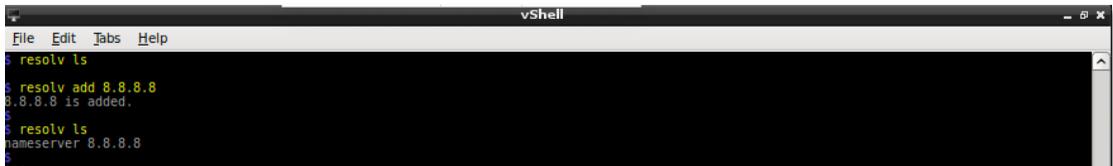
```
$ iface ls
```

4. Use the "resolv add" command to add a DNS server and "resolv ls" to list the DNS servers you've added. For example, the following commands add "8.8.8.8" to the DNS server list.

```
$ resolv mode custom
$ resolv add 8.8.8.8
```

5. You can then use "resolv ls" view the DNS server settings.

```
$ resolv ls
```

A screenshot of a vShell terminal window. The window title is "vShell". The terminal shows the following commands and output:

```
resolv ls
resolv add 8.8.8.8
8.8.8.8 is added.
resolv ls
nameserver 8.8.8.8
```

6. Execute the following command to reboot the VM:

```
$ reboot
```

[Optional] Modify Communication Ports

You can modify communication ports manually.

1. Use the “`env ls`” command to list the current communication ports.

```
$ env ls
Hostname:                ODC
Status:                  RUNNING
Product Serial Number:  d8a5c2e0-b715-11ec-a674-000c29d4fc9b
Version:                  1.2.0173
External IP:              Not Set
DPI Engine Version:      2.0.8.00f637
DPI Pattern Version:     SDP_201012_15
Stellar Enforce Agent Up Port:8000
Stellar Enforce Agent Down Port:14336
Stellar Protect Agent Up Port:9443
Stellar Protect Agent Down Port:14336
Locale:                   en
```

2. Type “`stellar`”, and the product agent will appear for selection.

```
$ stellar
  set-enforce-ports  Edit the communication ports for Stellar Enforce agents
  set-protect-ports  Edit the communication ports for Stellar Protect agents
```

3. Select one product agent (`set-enforce-ports` or `set-protect-ports`) you want to edit.

```
$ stellar set-enforce-ports
  set-enforce-ports  Edit the communication ports for Stellar Enforce agents
  set-protect-ports  Edit the communication ports for Stellar Protect agents
```

4. Input the valid value for `<up-port>` and `<down-port>`.

`<up-port>`: Port for receiving data from agents

`<down-port>`: Port to send command to agents

```
$ stellar set-enforce-ports 8000 14336
Port for receiving data from Stellar Enforce agents: 8000
Port to send commands to Stellar Enforce agents: 14336

Successfully set up ports for Stellar Enforce.
Please reload services to take effect.
```

5. Type "service reload", and the up and/or down ports will change to specified values.

```
$ env ls
Hostname:                ODC
Status:                  RUNNING
Product Serial Number:  d8a5c2e0-b715-11ec-a674-000c29d4fc9b
Version:                 1.2.0173
External IP:             Not Set
DPI Engine Version:     2.0.8.00f637
DPI Pattern Version:    SDP_201012_15
Stellar Enforce Agent Up Port:8000
Stellar Enforce Agent Down Port:14336
Stellar Protect Agent Up Port:9443
Stellar Protect Agent Down Port:14336
Locale:                  en
```

Note: These port changes will need to repack the agent installation package existing in StellarOne.

[Optional] Switching Management Console Language

The StellarOne web console's default language is English. You can modify the language to Japanese manually with the following procedure.

1. Use the command to switch management console to Japanese as the below shows.

```
$ locale ja
```

2. Reload the StellarOne web console.

```
$ help
vShell, version v1.6.1-19-g28c3cf5
The commands provided in:
access-list  Manage the IP whitelists
dx           Curl the target server.
env         Manage system environment variables
exit        Exit this shell
help        List all command usage
iface       Manage the network interfaces
ping        Test the reachability of a host
poweroff    Shut down the machine immediately
pwd         Change the root user password
reboot      Restart the machine immediately
resolve     Manage the domain name server
scp         Send files via scp
ssh         SSH to a device
service     Manage the device center services
sftp        Send files via sftp
web         Commands of the device center web
stellar     Commands of the Stellar products
locale      Locale setting

Shortcut table:
Tab         Auto-complete or choose the next suggestion on the list
Ctrl + A   Go to the head of the line (Home)
Ctrl + E   Go to the tail of the line (End)
Ctrl + D   Delete the character located at the cursor
Ctrl + L   Clear the screen

$ locale ja
Successfully language setting for locale.
Please reload StellarOne console to take effect.
$
```

3. Use the command to check the current language below.

`$ env ls`

```
$ env ls
Hostname:                ODC
Status:                  RUNNING
Product Serial Number:   2d8d6db8-f9bf-11eb-a20e-000c29959b2b
Version:                 1.1.0087
External IP:             Not Set
DPI Engine Version:      2.0.8.00f637
DPI Pattern Version:     SDP_201012_15
Stellar Enforce Agent Up Port:8000
Stellar Enforce Agent Down Port:14336
Stellar Protect Agent Up Port:9443
Stellar Protect Agent Down Port:14336
Locale:                  ja
$
```

[Optional] Manage Docker Network on vShell

1. If your environment also uses 169.254.0.0/16 IP range, please set a new IP address to convert IP/16 subnet mask for docker daemon.

```
$ network internal-service-update <New IP>
```

2. If you want to restore docker daemon back to the default-address-pools (169.254.0.0/16), please use the command below.

```
$ network internal-service-reset
```

3. Enter the command below to display docker daemon config's address-pools.

```
$ network internal-service-list
```

Opening the Management Console

StellarOne provides a built-in management console that you can use to configure and manage the product. Access the management console using a web browser.

Note: View the management console using Google Chrome 87, Microsoft Edge 79, Mozilla Firefox 78 or their later versions.

Procedure

1. In a web browser, type the address of the StellarOne in the following format:

```
https://<target server IP address >
```

The login screen will appear.

2. Enter your credentials (user name and password).

Use the default administrator credentials when logging in for the first time:

- User name: `admin`
- Password: `txone`

3. Click Log On.

If this is your first time logging on, the Login Information Setup frame will appear.

- a. Confirm your password settings.

- New Password
- Retype Password

- b. Click **Confirm**.

You will be automatically logged out of the system. The Log On screen will appear again.

- c. Log on again using your new credentials.

- d. Enter your first Activation Code, then click **Continue**.

If you want to enter an activation code for another product, click Enter Another Code instead of Continue.

- e. After you log in again, specify the Date and Time, as well as your Time Zone, then click continue.

- f. You are now logged in to StellarOne console.

System Migration (From 1.0 to 1.x)

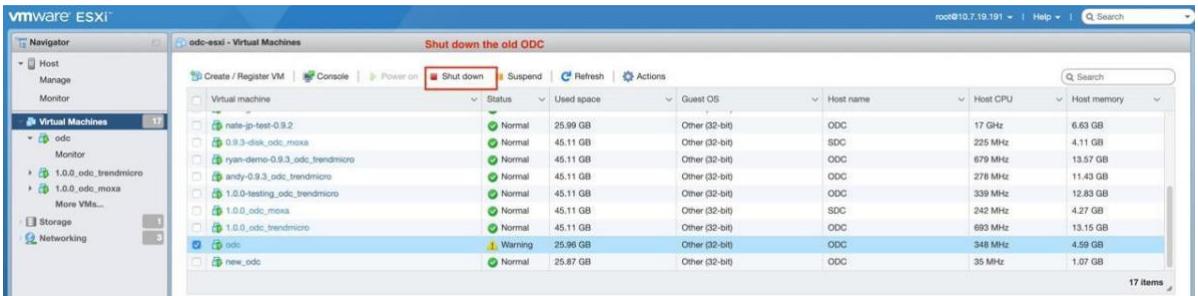
Since StellarOne 1.1, the migration of settings of StellarOne 1.0 to StellarOne 1.x is allowed. This is completed by attaching the external disk of the old StellarOne 1.0 to the new StellarOne 1.x VM. The migration of settings includes:

- The UUID
- The system configuration, including license, account information, security policies, and so on.
- Security event logs

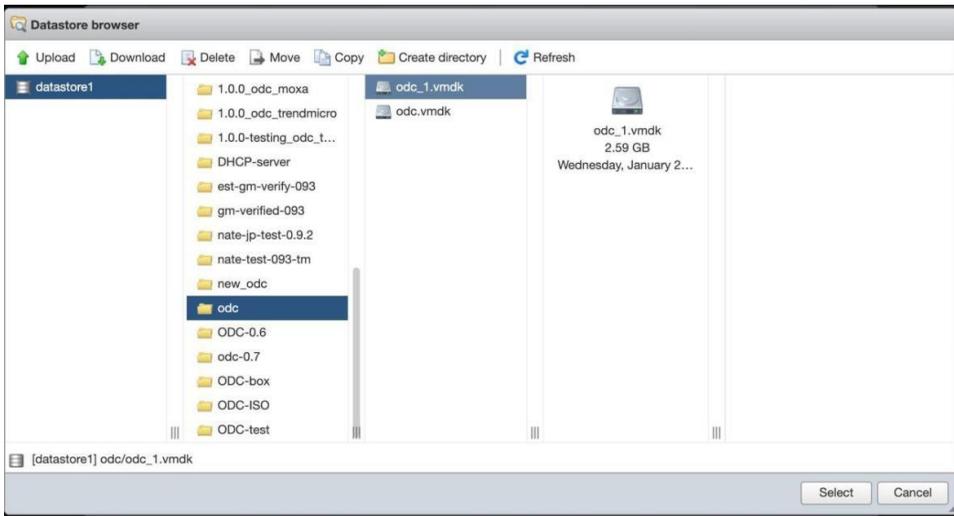
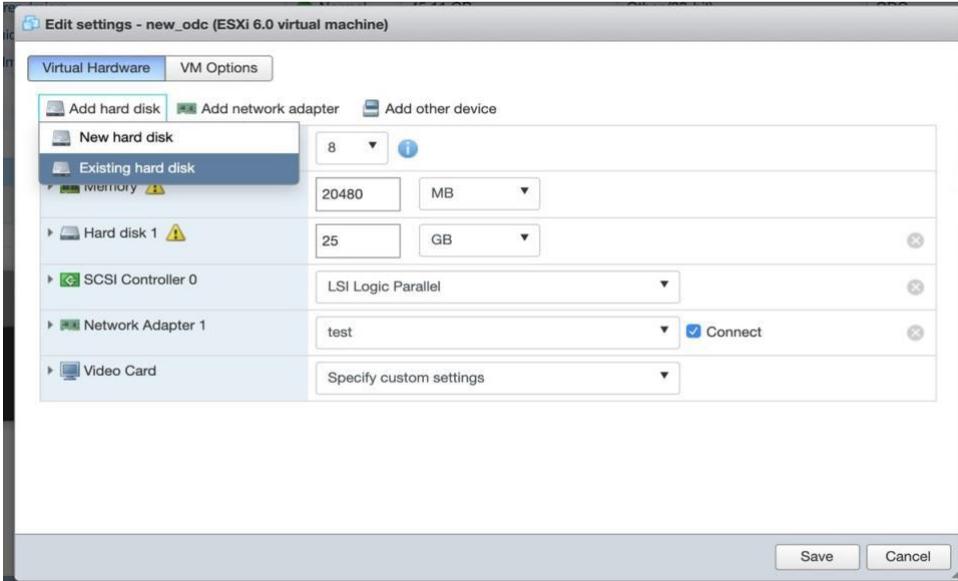
Important: Before conducting a system migration, please remember to take a VMware snapshot or back up your StellarOne data first.

Procedure

1. Launch the new StellarOne instance (refer to section "Deploying StellarOne").
2. Close the old instance of StellarOne.



3. Attach the external disk of the old StellarOne to the new StellarOne.



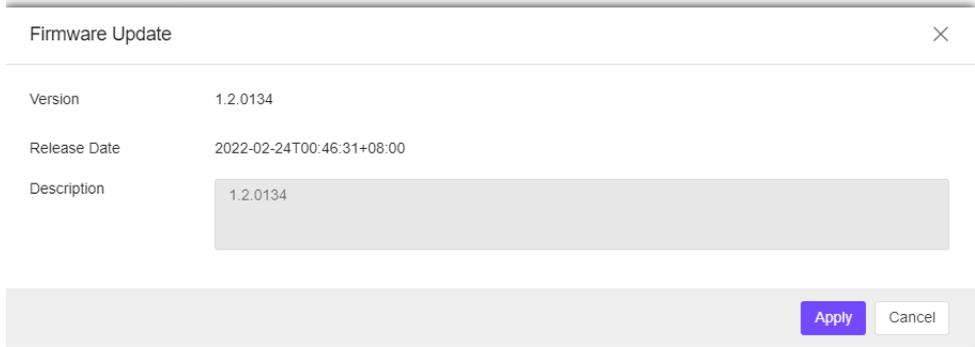
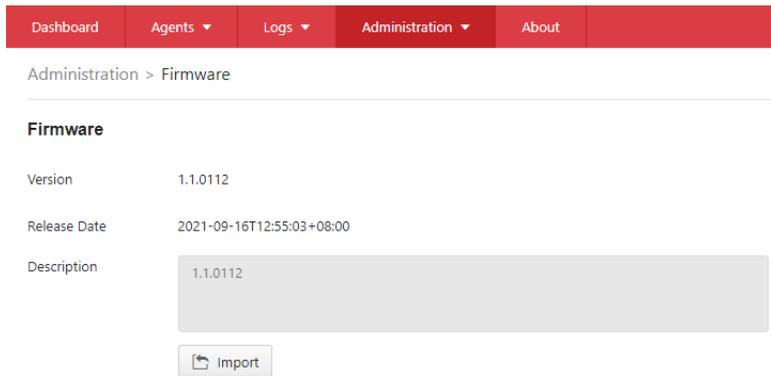
4. The information from the old instance of StellarOne will be migrated to the new instance of StellarOne.
5. Check and, if necessary, configure the IP address of the new StellarOne to be the same as the IP address for the old instance of StellarOne. After this is configured, the communications between the new StellarOne and agents will be reconnected normally. Next time, the agents sync their status, they will report the new StellarOne. By default, agents will sync every 20 minutes.
6. If the proxy or scan component update source is already defined in the old instance of StellarOne, please define it again in the UI of the new instance of StellarOne.
7. For Japanese-speaking users, please note that you can switch the management console language. For more information, please see [How to Switch Management Console Language](#).

System Upgrade (From 1.1 to 1.x)

Since StellarOne 1.1, the upgrade of settings of StellarOne 1.1 to StellarOne 1.x is allowed. The upgrade of settings includes:

Procedure

1. Download the target file (e.g. acus.fw_1.2.0134.acf).
2. Log on StellarOne console and enter **Administration > Firmware** page.
3. Import the target file to StellarOne.



4. Wait for the following panel coming out, click "Install Now" button to process the upgrade for StellarOne.

Firmware

Update downloaded. StellarOne is ready to install. Please click the Install button to start the installation. After completing installation, the system may restart all services.

 **Notice**

- The installation may take 5 to 10 minutes to finish. Please do not shut down the StellarOne during the installation
- We highly recommended you to back up your data before starting the installation.
- The system will not support downgrading to an earlier version.

 Install Now

 Abort

Installing StellarOne on a VMware Workstation

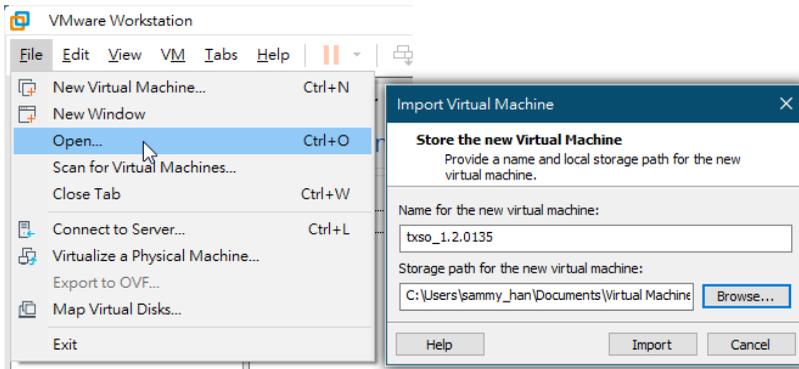
This chapter describes how to deploy StellarOne to a VMware Workstation system.

Prerequisites

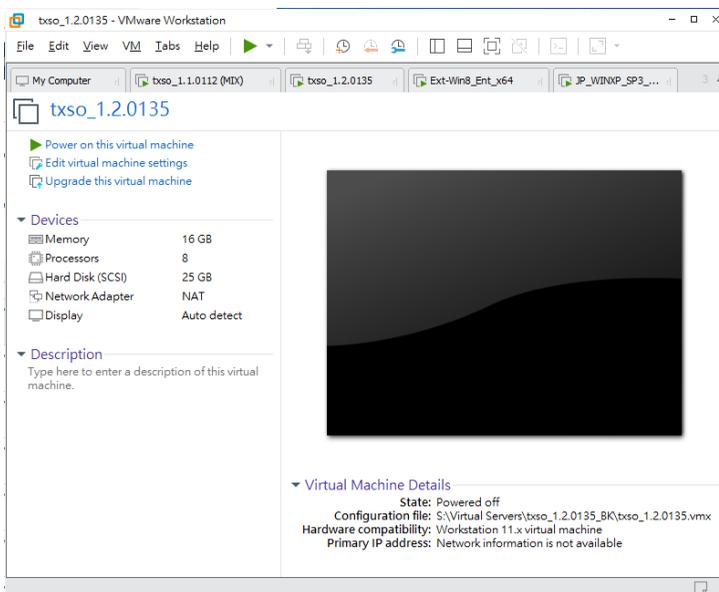
- The OVA packages provided by TXOne must be available and accessible to the VMware Workstation.
- VMware workstation 16 or later versions is required.

Deploying StellarOne

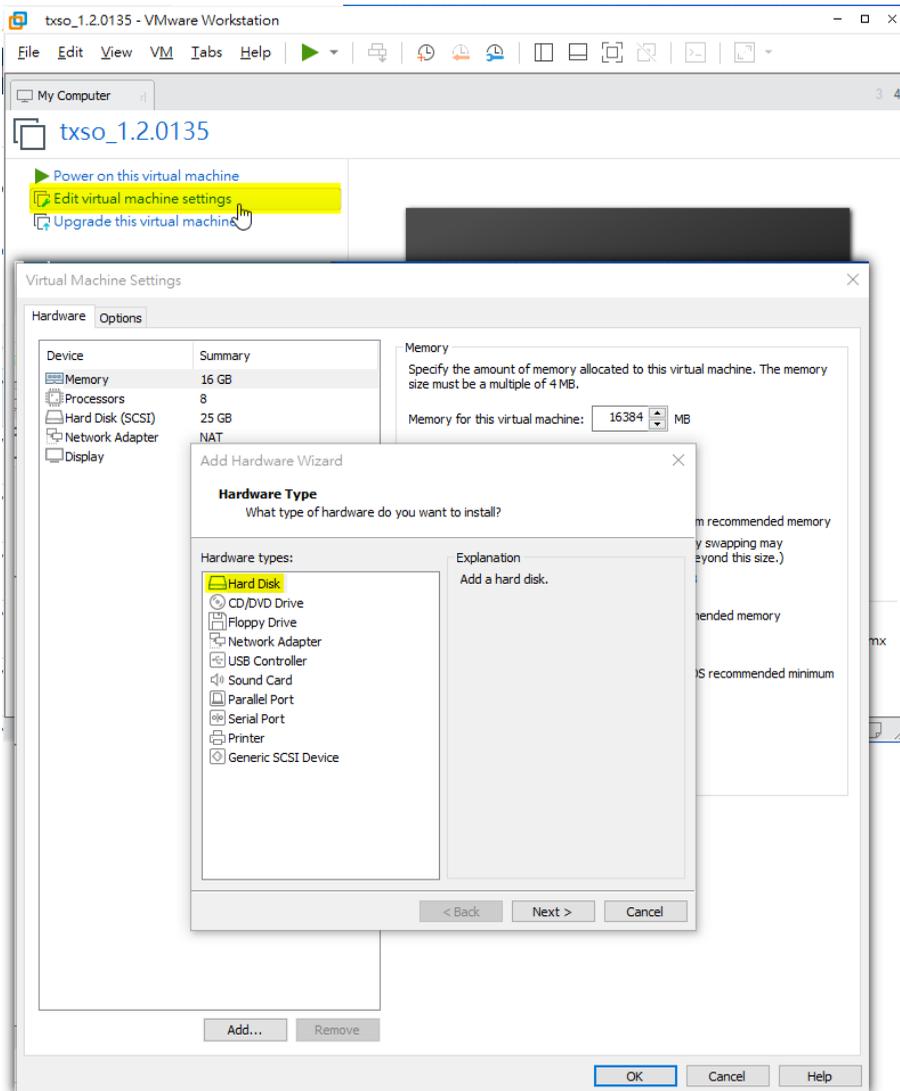
1. Start the VMware Workstation and click [File] on the menu bar.
2. Select [Open] to import the StellarOne VM image file (*.ova).
3. Select the StellarOne VM image file from your localhost file path and click the [Import] button.



4. Check the detailed VM information of the imported StellarOne VM.

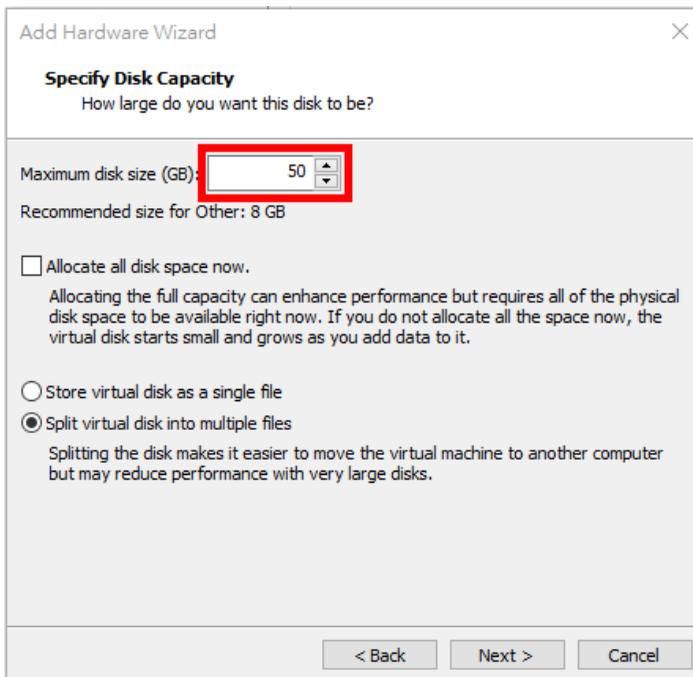


5. Add an extra disk.
 - a. Click [Edit virtual machine settings].
 - b. Click [Add...] and then choose [Hard Disk] for Hardware Type.

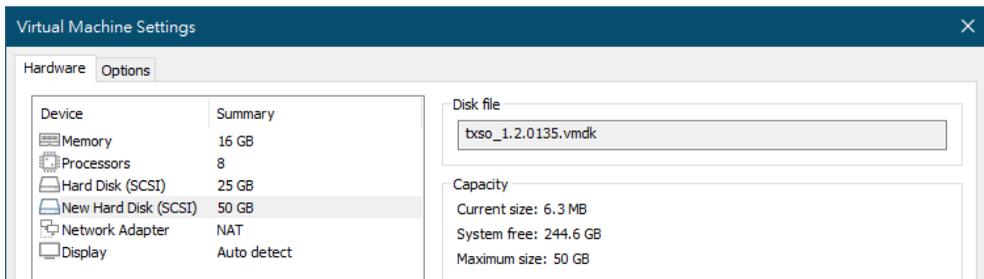


- c. Select [SCSI (Recommended)] as the disk type.
- d. Select [Create a new virtual disk] as the disk item.

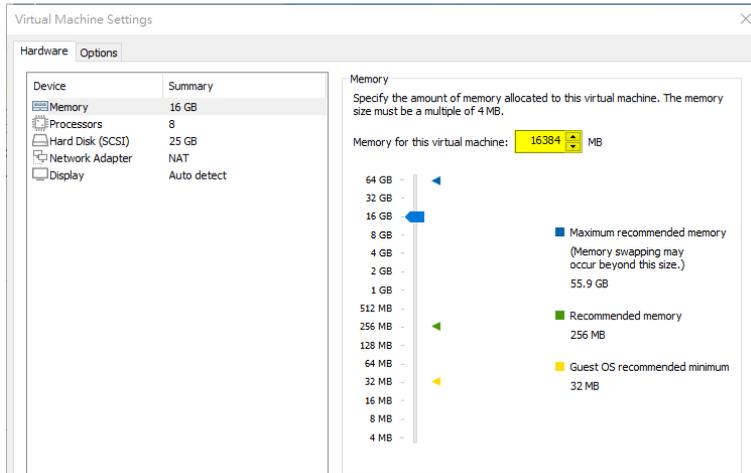
- e. Set the maximum disk size (GB) as **50**.



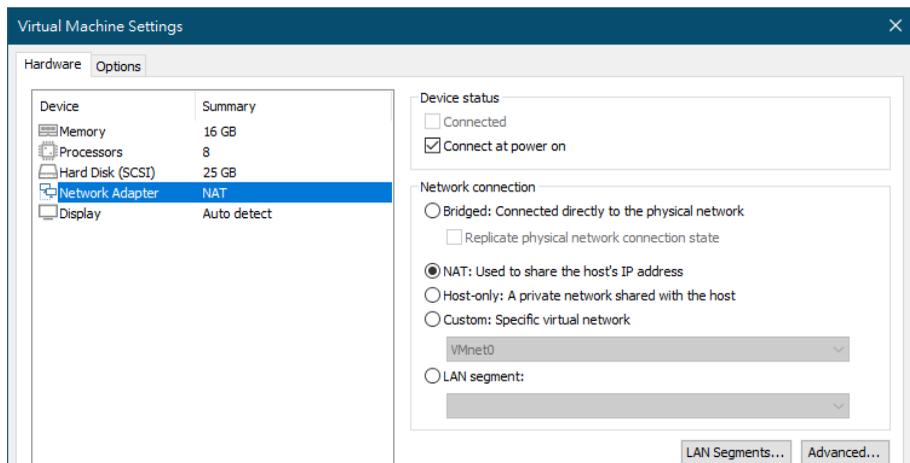
- f. Select path to store the disk and click [Finish] button, and the new external disk will be created in Virtual Machine Settings.



6. **(Optional)** Adjust your StellarOne instance to use proper resource configurations based on the default settings (8 CPU cores, 16 GB memory).
 - a. Click [Edit virtual machine settings].
 - b. Specify the amount of memory allocated to StellarOne instance.



7. **(Optional)** Change the network adapter settings from [NAT] to [Bridged].
 - a. Right-click the StellarOne VM icon and select [Settings].
 - b. Select [Network Adapter] and change the default setting from [NAT] to [Bridged] if necessary.



8. Boot the StellarOne VM, and the StellarOne instance will start.

System Migration (from 1.0 to 1.x)

For StellarOne 1.x, the migration of settings of StellarOne 1.0 to StellarOne 1.x is allowed. This is completed by attaching the external disk of the old StellarOne 1.0 to the new StellarOne 1.x VM. The migration of settings includes:

- The UUID
- The system configuration including license, accounting information, security policies, and so on.
- Security event logs

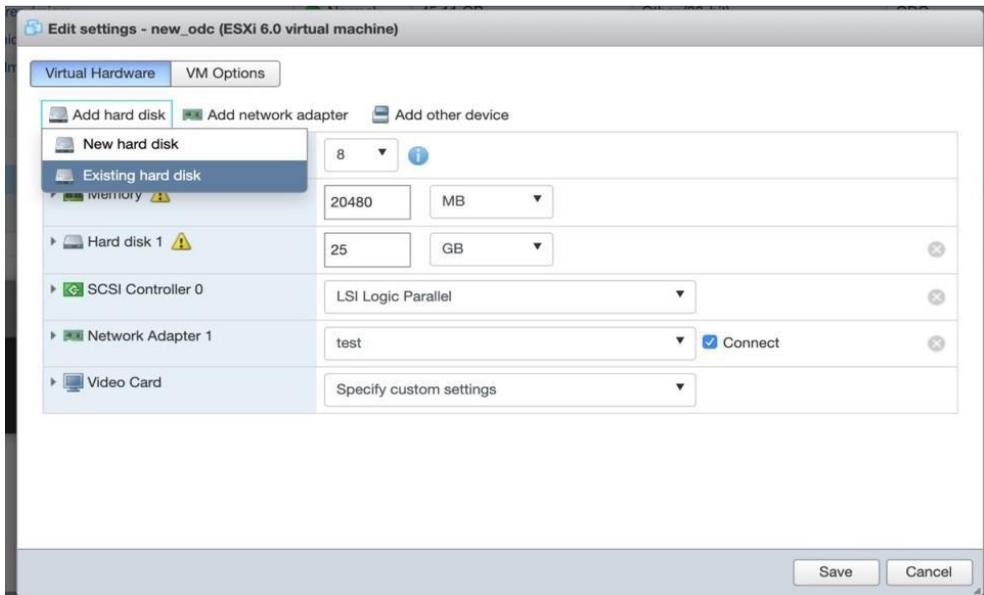
Important: Before conducting a system migration, please remember to take a VMware snapshot or back up your StellarOne data first.

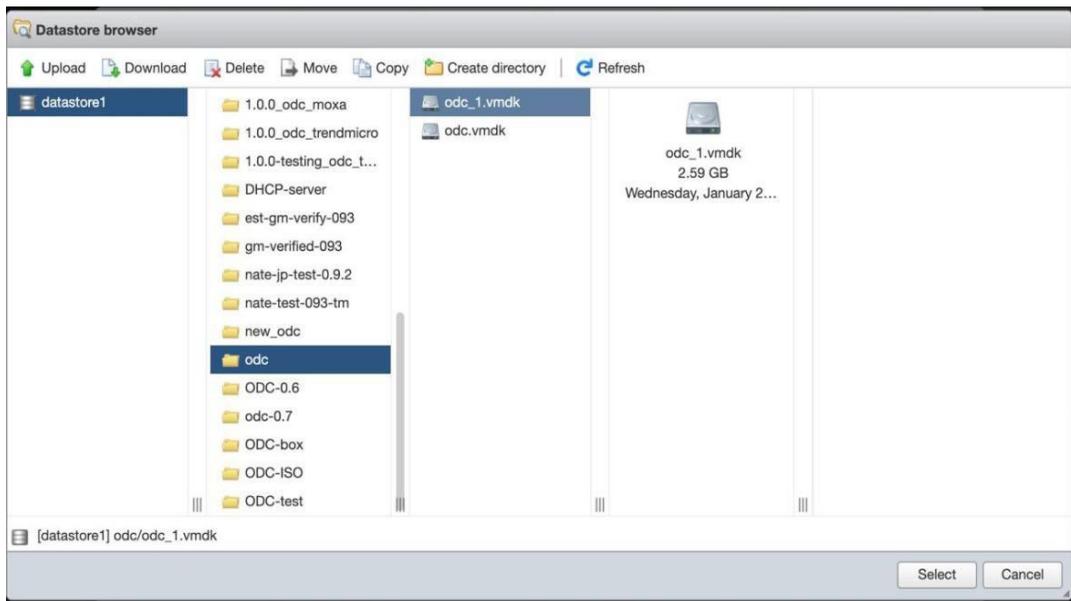
Procedure

1. Launch the new StellarOne instance (refer to section “Deploying StellarOne”).
2. Close the old instance of StellarOne.



3. Attach the external disk of the old StellarOne to the new StellarOne.



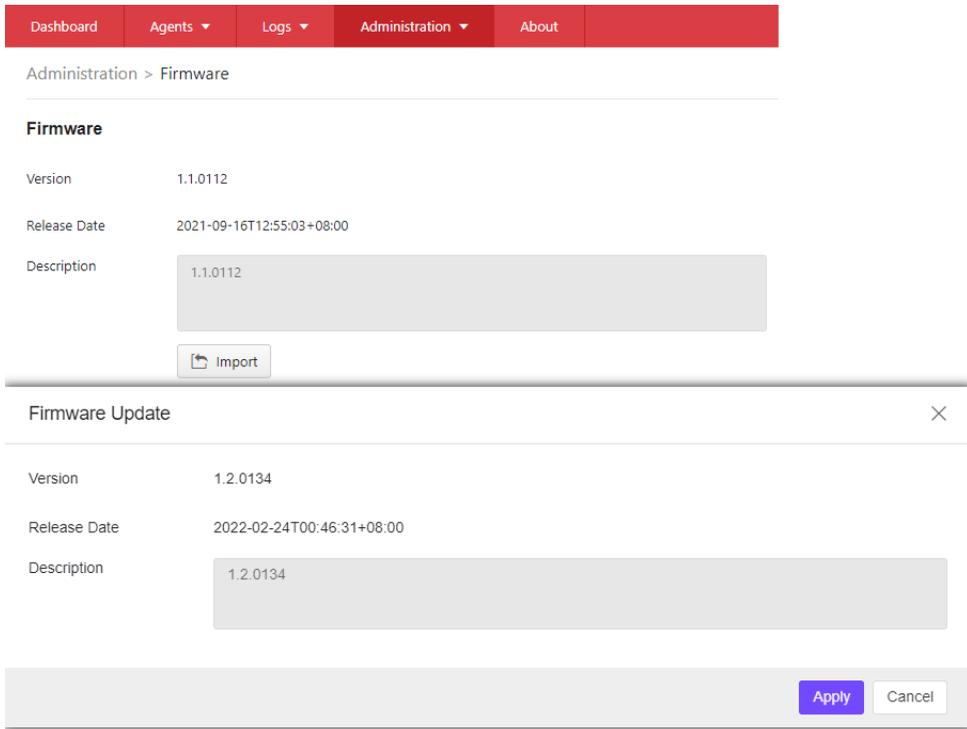


4. The information from the old instance of StellarOne will be migrated to the new instance of StellarOne.
5. Check and, if necessary, configure the IP address of the new StellarOne to be the same as the IP address for the old instance of StellarOne. After this is configured, the communications between the new StellarOne and agents will be reconnected normally. Next time, the agents sync their status, they will report the new StellarOne. By default, agents will sync every 20 minutes.
6. If the proxy or scan component update source is already defined in the old instance of StellarOne, please define it again in the UI of the new instance of StellarOne.
7. For Japanese-speaking users, please note that you can switch the management console language. For more information, please see [How to Switch Management Console Language](#).

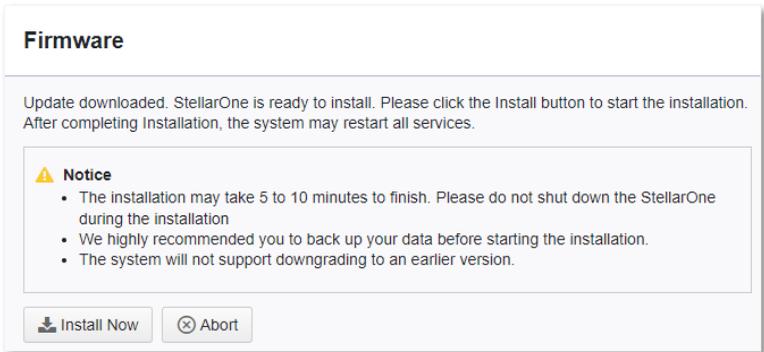
System Upgrade (from 1.1 to 1.x)

For StellarOne 1.x, a feature was added to allow the upgrade of settings of StellarOne 1.1 into StellarOne 1.x directly. The upgrade of settings can include:

1. Download the target file (e.g. `acus.fw_1.2.0173.acf`).
2. Log on StellarOne console and enter **Administration > Firmware** page.
3. **Import** the target file to StellarOne and **Apply** it.



4. Wait for the following panel coming out, click [**Install Now**] button to process the upgrade for StellarOne.



5. After the upgrade completed, you could check the actual version of StellarOne. You can log on and access the StellarOne web console.

```
$ env ls
Hostname: ODC
Status: RUNNING
Product Serial Number: d8a5c2e0-b715-11ec-a674-000c29d4fc9b
Version: 1.2.0173
External IP: Not Set
DPI Engine Version: 2.0.8.00f637
DPI Pattern Version: SDP_201012_15
Stellar Enforce Agent Up Port:8000
Stellar Enforce Agent Down Port:14336
Stellar Protect Agent Up Port:9443
Stellar Protect Agent Down Port:14336
Locale: en
```



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