

# TXOne StellarOne<sup>™</sup> Installation Guide

Unify your cyber security posture with one centralized console





## **TXOne StellarOne**<sup>™</sup>

**Installation Guide** 



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http://docs.trendmicro.com/en-us/enterprise/txonestellarenforce.aspx and http://docs.trendmicro.com/en-us/enterprise/txonestellarprotect.aspx

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This documentation introduces the main features of the product and/orprovides 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 productmay 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 Bowser:**

- 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 willbe retained. Users can gradually increase the number of endpoints while observing serverperformance 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 x 30 x 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	То	<b>Open Port</b>	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.c om/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
	25
	7590
StellarOne Internal Service	8888
StellarOne Internal Service	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	То	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

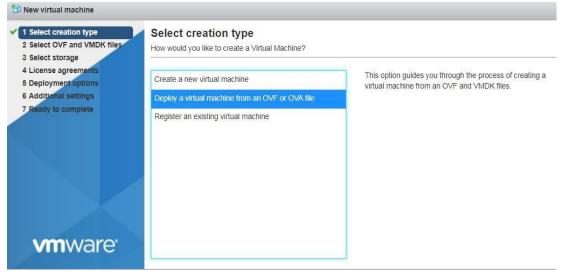


### **Deploying StellarOne**

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

Navigator	localhost.loca	aldomain				
💌 📱 Host				B. Chut dave	B. Datasat I. C	Defect
Manage Monitor	Get vCent	er Server	1 Create/Register VM	but down	Reboot C	Refresh
Monitor		localhos	st.localdomain		CPU	FREE: 2.5 GHz
🔻 🛅 Virtual Machines	6	Version:	6.5.0 (Build 4564106)		· · · · · · · · · · · · · · · · · · ·	82%
		State:	Normal (not connected to	anv vCenter Server	USED: 11.1 GHz	CAPACITY: 13.6 GHz
✓ I Kali Monitor		Uptime:	10.23 days		MEMORY	FREE: 12.35 GB
More VMs					USED: 19.48 GB	CAPACITY: 31.83 GB
E Storage					STORAGE USED: 308.34 GB	FREE: 149.91 GB 67% CAPACITY: 458.25 GB
▼ 🧕 Networking					0020.000.0400	0/17/0111: 400:20 00
vSwitch0						

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





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

30 New virtual machine - odc	
<ul> <li>Select creation type</li> <li>Select OVF and VMDK files</li> <li>Select storage</li> <li>License agreements</li> </ul>	Select OVF and VMDK files Select the OVF and VMDK files or OVA for the VM you would like to deploy
5 Deployment options 6 Additional settings 7 Ready to complete	Exter a name for the visual machine.
	*  txone_trendmicro.ova StellarOne Image File Name
<b>vm</b> ware <sup>.</sup>	
	Back Next Fisian Cancel

5. Choose a storage location for the StellarOne virtual machine.

🖄 New virtual machine - odc						
1 Select creation type     2 Select OVF and VMDK files     3 Select storage	Select storage Select the datastore in which to store the confi	guration and dis	k files.			
4 Deployment options 5 Ready to complete	The following datastores are accessible from the the virtual machine configuration files and all o			selected. Selec	t the destination	datastore for
	Name ~	Capacity ~	Free ~	Type ~	Thin pro ~	Access ~
	datastore1	3.63 TB	1.63 TB	VMFS5	Supported	Single
						1 items
<b>vm</b> ware <sup>*</sup>						
			Bac	k Next	Finish	Cancel



6. Select deployment options.

1 New virtual machine - odc				
<ul> <li>✓ 1 Select creation type</li> <li>✓ 2 Select OVF and VMDK files</li> <li>✓ 3 Select storage</li> </ul>	Deployment options Select deployment options			
4 Deployment options 5 Ready to complete	Network mappings	NAT	test	
	Disk provisioning	O Thi	n () Thick	
<b>vm</b> ware <sup>•</sup>				
				Back Next Finish Cancel

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

1 Select creation type 2 Select OVF and VMDK files	Ready to complete					
3 Select storage	Review your settings selection b	efore finishing the wizard				
4 Deployment options 5 Ready to complete	Product	Unknown				
5 Ready to complete	VM Name	odc				
	Disks	instance.vmdk,instance.v	/mdk			
	Datastore	datastore1				
	Provisioning type	Thin				
	Network mappings	NAT: test				
	Guest OS Name	Debian_64				
vmware	Do not refresh yo	ur browser while this VM is being o	leployed.			



- 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.



New hard clisk	8 *	0				
Existing hard disk	20480	МВ	•			
🛄 Hard disk 1 🛕	25	GB	5 <b>.</b>			0
SCSI Controller 0	LSI Logic F	Parallel		•		0
RE Network Adapter 1	test		٠	Connect	0	
Video Card	Specity cu	stom settings		•		

🔜 Add hard disk 🛛 🛤 Add netw	ork adapter 🗧 Ad	sd other devi	00			
CPU 🛕	8 •	0				
🕨 🛲 Memory <u>A</u>	20480	MB				
Hard disk 1 🧘	25	GB	•			0
New Hard disk 🛕	50	GB	*			0
SCSI Controller 0	LSI Logic F	Paraliol		٠		0
RE Network Adapter 1	test	test 🔻		Connect.	0	
🦉 Video Card	Specify cu	stom settings	p.	٠		
			Ade	d an ex	ternal disk	



- c. Add the external disk by the following steps: [Actions]  $\rightarrow$  [Edit Settings]  $\rightarrow$  [Add Hard Disk]  $\rightarrow$  [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 <u>System Migration.</u>
- 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.



- (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.

CPU <u>A</u>	8 7 🚯	'CPU' item to customize er of CPU.	Ð
Memory 🛕	16304 MB 🔻		
🕨 🛄 Hard disk 1 🛕	100 GB 🔻		Ø
SCSI Controller 0	LSI Logic Parallel	×	Ø
Network Adapter 1	VM Network	<ul> <li>Connect</li> </ul>	Ø
Video Card	Specify custom settings	•	
			_
		Sav	e Canc

c. Configure the amount of memory.

Memory A	8 • ()	
Man Mercury 20	16384 MB •	
Hard disk 1 🛕	100 GB	c
SCSI Controller 0	LSI Logic Parallel	• 0
IN Network Adapter 1	VM Network	Connect
Video Card	Specify custom settings	
alact the "Mamo	y" item and adjust the amount	
	ed to StellarOne instance.	

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	
	v1.6.1–29–g7ecec51
The commands prov	vided 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
Ctrl + L	Clear the screen
\$_	
poweroff pwd reboot scp ssh service sftp web stellar locale	Shut down the machine immediately Change the root user password Restart the machine immediately Manage the domain name server Send files via scp SSH to a device Manage the device center services Send files via sftp Commands of the device center web Commands of the Stellar products Locale setting



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

strift to treat the screen \$ iface ls [
د ۱۳۶۵ (۱۹۶۵) ۱۶۹۳ (۱۹۶۷) (۱۹۹۵) ۱۶۹۳ (۱۹۹۵) (۱۹۹۵) ۱۹۹۹ (۱۹۹۵) (۱۹۹۹) (۱۹۹۹) ۱۹۹۹ (۱۹۹۹) (۱۹۹۹) (۱۹۹۹) ۱۹۹۹ (۱۹۹۹) (۱۹۹۹) (۱۹۹۹) (۱۹۹۹) ۱۹۹۹ (۱۹۹۹) (۱۹۹۹) (۱۹۹۹) (۱۹۹۹) (۱۹۹۹) (۱۹۹۹) (۱۹۹۹) ۱۹۹۹ (۱۹۹۹) (۱۹۹۹) (۱۹۹۹) (۱۹۹۹) (۱۹۹۹) (۱۹۹۹) (۱۹۹۹) (۱۹۹۹) (۱۹۹۹) (۱۹۹۹)
Name": "etho",
"Family": "inet", "Method": "dhcp" }
ן 1: lo: <loopback,up,lower_up> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1 link/loopback 00:00:00:00:00 brd 00:00:00:00:00 inet 127.0.0.1/8 scope host lo</loopback,up,lower_up>
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 100 0</broadcast,multicast,up,lower_up>
link/ether 00:0c:29:fc:65:af brd 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:fefc: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.

 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 address10.7.19.254:

```
$ 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 thefollowing 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 listthe 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 1s" view the DNS server settings.

\$ resolv ls

Ŧ	vShell	øΧ
<u>File</u> <u>E</u> dit <u>T</u> abs <u>H</u> elp		
5 resolv ls		^
5 resolv add 8.8.8.8 8.8.8.8 is added.		
s <mark>resolv ls</mark> nameserver 8.8.8.8 S		

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 Po	
Stellar Protect Agent Up Port	
Stellar Protect Agent Down Pom	rt: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



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
	2.0.8.00f637
DPI Pattern Version:	
Stellar Enforce Agent Up Port	
Stellar Enforce Agent Down Po	
Stellar Protect Agent Up Port	
Stellar Protect Agent Down Po	ort: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.

<pre>\$ help</pre>	
	v1.6.1-19-g28c3cf5
The commands pr	ovided in:
access-list	Manage the IP whitelists
d×	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
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
<pre>\$ locale ja</pre>	
Successfully la	nguage setting for locale.
Please reload S	tellarOne 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:	
Stellar Enforce Agent Down Por	
Stellar Protect Agent Up Port:	
<u>Stellar Protect Agent Down Por</u>	nt:14336
Locale:	ja
8	

### [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 aweb 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 clickcontinue.
- 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.

Navigator	🗇 odc-esxi - Virtual Machines Sh	ut down the old ODC					
Host Manage	1 Create / Register VM   SConsole   > Power on	Shut down	C Refresh				Q. Search
Monitor	Urtual machine	~ Status ~	Used space ~	Guest OS	<ul> <li>Host name</li> </ul>	Host CPU	- Host memory
Virtual Machines	C B nate-jp-test-0.9.2	O Normal	25.99 GB	Other (32-bit)	ODC	17 GHz	6.63 GB
🕶 🏟 odc	🗇 🚳 0.9.3-disk_odc_moxa	O Normal	45.11 GB	Other (32-bit)	SDC	225 MHz	4.11 GB
Monitor	T arvan-demo-0.9.3_odc_trendmicro	Normal	45.11 GB	Other (32-bit)	ODC	679 MHz	13.57 GB
1.0.0_odc_trendmicro	andy-0.9.3_odc_trendmicro	Normal	45.11 GB	Other (32-bit)	ODC	278 MHz	11.43 GB
1.0.0_odc_moxa	1.0.0-testing_odc_trendmicro	Normal	45.11 GB	Other (32-bit)	ODC	339 MHz	12.83 GB
More VMs	D 6 1.0.0_odc_moxa	Normal	45.11 GB	Other (32-bit)	SDC	242 MHz	4.27 GB
Storage	1.0.0_odc_trendmicro	O Normal	45.11 GB	Other (32-bit)	ODC	693 MHz	13.15 GB
Networking	🖸 🚯 ods	1 Warning	25.96 GB	Other (32-bit)	ODC	348 MHz	4.59 GB
	D B new_odc	Normal	25.87 GB	Other (32-bit)	ODC	35 MHz	1.07 GB



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

🔜 Add hard disk 🛛 🛤 Add netwo	rk adaptar 🖉 🗛	dd other device			
New hard disk	8 T				
Existing hard disk	20480	MB			
🕨 🔜 Hard disk 1 🛕	25	GB 🔻			0
SCSI Controller 0	LSI Logic	Parallel	•		0
Network Adapter 1	test		۲	Connect	0
Video Card	Specify cu	istom settings	•		

C Datastore browser					
💡 Upload 🛛 🔓 Download	🛃 Delete 🛛 🔒 Move 👔 Copy	Create directory	Refresh		
datastore1	1.0.0_odc_moxa     1.0.0_odc_mroxa     1.0.0_odc_trendmicro     1.0.0-testing_odc_t     DHCP-server     est-gm-verify-093     gm-verified-093     mate-ip-test-0.9.2     nate-test-093-tm     new_odc     odc     ODC-0.6     odc-0.7     ODC-0.6     odc-0.7     ODC-box     ODC-IsO     ODC-IsO     ODC-test     mrdk	odc_1.vmdk     odc.vmdk	odc_1.vmdk 2.59 GB Wednesday, January 2	III	
					Select Cancel



- 4. The information from the old instance of StellarOne will be migrated to thenew 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.
- For Japanese-speaking users, please note that you can switch the management console language. For more information, please see <u>How to Switch Management Console</u> <u>Language</u>.

### 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).
- Log on StellarOne console and enter Administration > Firmware page.
- 3. Import the target file to StellarOne.

Dashboard	Agents 🔻	Logs 🔻	Administration 🔻	About		
Administratio	on > Firmware					
Firmware						
Version	1.1.0112					
Release Date	2021-09-1	I6T12:55:03+08	:00			
Description	1.1.0112	2				
	🖆 Imp	port				
Firmware U	pdate					×
Version	1.2.	0134				
Release Date	202	2-02-24T00:4	5:31+08:00			
Description	1	.2.0134				
					Apply	Cancel

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.
<ul> <li>Notice</li> <li>The installation may take 5 to 10 minutes to finish. Please do not shut down the StellarOne during the installation</li> <li>We highly recommended you to back up your data before starting the installation.</li> <li>The system will not support downgrading to an earlier version.</li> </ul>
Linstall Now OAbort



### Chapter 3

### Installing StellarOne on a VMware Workstation

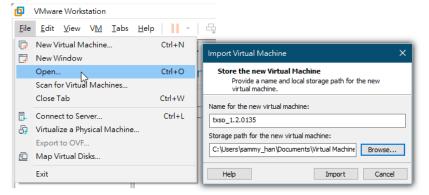
This chapter describes how to deploy StellarOne to a VMware Workstation system.

### **Prerequisites**

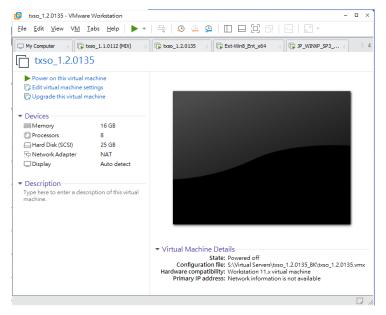
- The OVA packages provided by TXOne must be available and accessible to the VMware Workstation.
- VMware workstation 16 or later versions is required.

### **Deploying StellarOne**

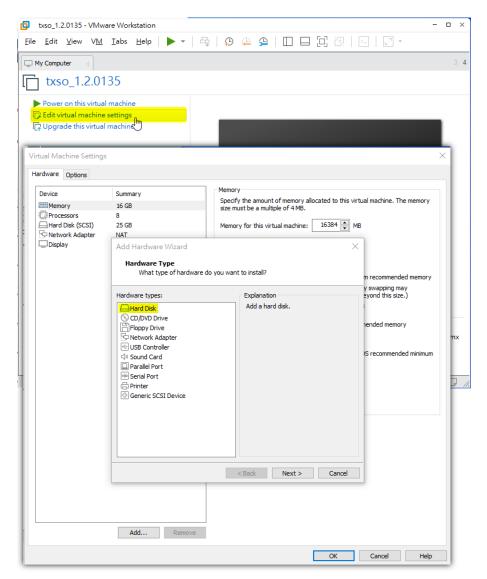
- 1. Start the VMware Workstation and click [File] on the menu bar.
- 2. Select [Open] to import the StellarOne VM image file (\*.ova).
- 3. Select the StellarOne VM image file from your localhost file path and click the [Import] button.



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**.

Add Hardware Wizard X
Specify Disk Capacity How large do you want this disk to be?
Maximum disk size (GB): 50 🗼 Recommended size for Other: 8 GB
Allocate all disk space now.
Allocating the full capacity can enhance performance but requires all of the physical disk space to be available right now. If you do not allocate all the space now, the virtual disk starts small and grows as you add data to it.
O Store virtual disk as a single file
Split virtual disk into multiple files
Splitting the disk makes it easier to move the virtual machine to another computer but may reduce performance with very large disks.
< Back Next > Cancel

f. Select path to store the disk and click [Finish] button,

and the new external disk will be created in Virtual Machine Settings.

tual Machine Settings		>
ardware Options		
Device Memory Processors	Summary 16 GB 8	Disk file txso_1.2.0135.vmdk
Hard Disk (SCSI)	25 GB	Capacity
New Hard Disk (SCSI)	50 GB	Current size: 6.3 MB
Network Adapter	NAT Auto detect	System free: 244.6 GB Maximum size: 50 GB

- 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.

Virtual Machine Settings	5		×
Hardware Options			
Hardware Options Device Memory Hard Disk (SCSI) Reverse Adapter Display	Summary 16 GB 8 25 GB NAT Auto detect	Memory Specify the amount of memory size must be a multiple of 4 MB 22 GB - 16 GB - 2 GB - 16 GB - 2 GB - 16 GB - 16 B - 128 MB - 256 MB - 128 MB - 256 MB - 128 MB - 16 MB - 32 MB - 16 MB - 32 MB - 16 MB - 32 MB - 16 MB - 32 MB -	

- 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.

Virtual Machine Settings		x
Hardware Options		
Device Memory Processors Hard Disk (SCSI) Network Adapter Display	Summary 16 GB 8 25 GB NAT Auto detect	Device status Connected Connect at power on Network connection Gridged: Connected directly to the physical network Replicate physical network connection state NAT: Used to share the host's IP address Host-only: A private network shared with the host Custom: Specific virtual network WhiteID LAN segment: LAN Segments Advanced

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.

Navigator	🔂 odc-esxi - Virtual Machines Shut e	down the old ODC					
Host Manage	😭 Create / Register VM   💕 Console   🌗 Power on 🔳 Shi	ut down	C Refresh				Q Search
Monitor	Virtual machine	~ Status ~	Used space ~	Guest OS ~	Host name ~	Host CPU v	Host memory
🕸 Virtual Machines 🛛 💷	D B nate-jp-test-0.9.2	O Normal	25.99 GB	Other (32-bit)	ODC	17 GHz	6.63 GB
🕶 🎒 odc	🗇 🚳 0.9.3-disk_odc_moxa	Normal	45.11 GB	Other (32-bit)	SDC	225 MHz	4.11 GB
Monitor	ryan-demo-0.9.3_odc_trendmicro	Normal	45.11 GB	Other (32-bit)	ODC	679 MHz	13.57 GB
1.0.0_oda_trendmicro	andy-0.9.3_odc_trendmicro	<ul> <li>Normal</li> </ul>	45.11 GB	Other (32-bit)	ODC	278 MHz	11.43 GB
1.0.0_odc_moxa	D a 1.0.0-testing_odc_trendmicro	Normal	45.11 GB	Other (32-bit)	ODC	339 MHz	12.83 GB
More VMs	🗇 🎒 1.0.0_odc_moxa	Normal	45.11 GB	Other (32-bit)	SDC	242 MHz	4.27 GB
Storage	1.0.0_odc_trendmicro	Normal	45.11 GB	Other (32-bit)	000	693 MHz	13.15 GB
Networking	🖸 👸 ods	1. Warning	25.96 GB	Other (32-bit)	ODC	348 MHz	4.59 GB
	new_odc	Normal	25.87 GB	Other (32-bit)	ODC	35 MHz	1.07 GB

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

	New hard disk	8 *	0			
C SCSI Controller 0 LSI Logic Parallel			1			
	Hard disk 1 🛕	25	GB 🔻			G
test Vetwork Adapter 1 Vest	SCSI Controller 0	LSI Logic F	Parallel	۲		G
	Network Adapter 1	test		•	Connect	0
Video Card Specify custom settings	Video Card	Specify cu	stom settings	•		

Q Datastore browser					
💡 Upload 🛛 🔒 Download	🙀 Delete 🛛 🔒 Move 👔 Co	py 🎦 Create directory	C Refresh		
a datastore1	<ul> <li>1.0.0_odc_moxa</li> <li>1.0.0_odc_trendmicro</li> <li>1.0.0-testing_odc_t</li> <li>DHCP-server</li> <li>est-gm-verify-093</li> <li>gm-verified-093</li> <li>nate-jp-test-0.9.2</li> <li>nate-test-093-tm</li> <li>new_odc</li> <li>ODC-0.6</li> <li>odc-0.7</li> <li>ODC-box</li> <li>ODC-box</li> <li>ODC-ISO</li> <li>ODC-test</li> </ul>	cdc_1.vmdk cdc_vmdk	2.5	1.vmdk 9 GB , January 2	
[datastore1] odc/odc_1.v	mdk				Select Cancel

- 4. The information from the old instance of StellarOne will be migrated to thenew 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 <u>How to Switch Management Console Language</u>.

### 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.

Dashboard	Agents 🔻	Logs 🔻	Administration 🔻	About			
Administration > Firmware							
Firmware							
Version	1.1.0112						
Release Date	2021-09-16T12:55:03+08:00						
Description	1.1.0112	2					
	🖆 Imp	port					
Firmware U	pdate						×
Version	1.2.	.0134					
Release Date	202	2-02-24T00:46	31+08:00				
Description	1	.2.0134					
						Ар	ply Cancel

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.					
<ul> <li>Notice</li> <li>The installation may take 5 to 10 minutes to finish. Please do not shut down the StellarOne during the installation</li> <li>We highly recommended you to back up your data before starting the installation.</li> <li>The system will not support downgrading to an earlier version.</li> </ul>					
Linstall Now 🛞 Abort					

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 Po	rt:14336		
Stellar Protect Agent Up Port	:9443		
Stellar Protect Agent Down Po	rt:14336		
Locale:	en		





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