

# TXOne StellarOne Installation Guide

Unify your cyber security posture with one centralized console



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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.

TXOne Networks always seeks to improve its documentation. If you have questions, comments, or suggestions about this or any TXOne Networks document, please contact us at <a href="mailto:docs@txone-networks.com">docs@txone-networks.com</a>.

#### **Preface**

This Installation Guide introduces TXOne Stellar $One^{TM}$  and guides administrators through installation and deployment.

Topics in this chapter include:

- About the Documentation on page vi
- Audience on page vii
- Document Conventions on page vii
- Terminology on page viii

### **About the Documentation**

TXOne StellarOne™ documentation includes the following:

DOCUMENTATION	DESCRIPTION
Readme file	Contains a list of known issues and basic installation steps. It may also contain late-breaking product information not found in the other documents.
Installation Guide	A PDF document that discusses requirements and procedures for installing StellarOne
Administrator's Guide	A PDF document that discusses StellarOne agent installation, getting started information, and server and agent management
Online Help	HTML files that provide "how to's", usage advice, and field-specific information

DOCUMENTATION	DESCRIPTION
Knowledge Base	An online database of problem-solving and troubleshooting information. It provides the latest information about known product issues. To access the Knowledge Base, go to the following websites:
	https://kb.txone.com/
	http://success.trendmicro.com

### **Audience**

TXOne StellarOne™ documentation is intended for administrators responsible for StellarOne management, including agent installation. These users are expected to have advanced networking and server management knowledge.

# **Document Conventions**

The documentation uses the following conventions.

**TABLE 1. Document Conventions** 

CONVENTION	DESCRIPTION
UPPER CASE	Acronyms, abbreviations, and names of certain commands and keys on the keyboard
Bold	Menus and menu commands, command buttons, tabs, and options
Italics	References to other documents
Monospace	Sample command lines, program code, web URLs, file names, and program output

CONVENTION	DESCRIPTION
Navigation > Path	The navigation path to reach a particular screen
	For example, <b>File</b> > <b>Save</b> means, click <b>File</b> and then click <b>Save</b> on the interface
Note	Configuration notes
Tip	Recommendations or suggestions
Important	Information regarding required or default configuration settings and product limitations
WARNING!	Critical actions and configuration options

# **Terminology**

The following table provides the official terminology used throughout the TXOne StellarOne $^{\text{TM}}$  documentation:

TERMINOLOGY	DESCRIPTION	
server	The StellarOne console server program	
server endpoint	The host where the StellarOne server is installed	
agents	The host running the StellarProtect program	
managed agents managed endpoints	The hosts running the StellarProtect program that are known to the StellarOne server program	
target endpoints	The hosts where the StellarOne managed agents will be installed	

TERMINOLOGY	DESCRIPTION		
Administrator (or StellarOne administrator)	The person managing the StellarOne server		
StellarOne (management) console	The user interface for configuring and managing StellarOne settings and the agents managed by StellarOne		
CLI	Command Line Interface		
license activation	Includes the type of StellarOne server installation and the allowed period of usage that you can use the application		
agent installation folder	The folder on the host that contains the StellarProtect agent files. If you accept the default settings during installation, you will find the installation folder at one of the following locations:		
	C:\Program Files\TXOne\StellarProtect		
	C:\Program Files\TXOne\StellarProtect (Legacy Mode)		

# **Chapter 1**

# Introduction

This section introduces TXOne StellarOne™ and provides an overview of its features.

Topics in this chapter include:

- About TXOne Stellar on page 1-2
- Key Features and Benefits on page 1-2
- What's New on page 1-3

#### **About TXOne Stellar**

TXOne Stellar is a first-of-its-kind OT endpoint protection platform, which includes:

- StellarOne<sup>™</sup>, the centralized management console designed to streamline administration of both StellarProtect for modernized systems and StellarProtect (Legacy Mode) for legacy systems.
- StellarProtect<sup>™</sup>, the unified agent with industrial-grade next-generation antivirus and application lockdown endpoint security deployment for modernized OT/ICS endpoints.
- StellarProtect (Legacy Mode)<sup>™</sup>, for trust-list based application lockdown of legacy and fixed-use OT/ICS endpoints with anti-malware or ondemand AV scan.

Together, TXOne Stellar allows protection for modernized and legacy systems running side-by-side to be coordinated and maintained from the same management console, helping protect businesses against security threats and increase productivity.

# **Key Features and Benefits**

The TXOne StellarOne™ management console provides following features and benefits.

**TABLE 1-1. Features and Benefits** 

FEATURE	BENEFIT
	The web console dashboard provides summarized information about monitored agents.
Dashboard	Administrators can check deployed agent status easily, and can generate security reports (Legacy Mode only) related to specific agent activity for specified periods.

FEATURE	Benefit	
	StellarOne allows administrators to perform the following tasks:	
	Monitor StellarProtect/StellarProtect (Legacy Mode) agent status	
	Examine connection status	
	View configurations	
	Collect agent logs on-demand or by policy (Legacy Mode only)	
	Turn agent Application Lockdown on or off	
Controlized Agent	Enable or disable agent Device Control	
Centralized Agent Management	Configure agent Maintenance Mode settings	
	Update agent components	
	Initialize the Approved List	
	Deploy agent patches	
	Add trusted files and USB devices	
	Export agents' information	
	Import/Export agents' configuration settings or Approved List (Legacy Mode only)	
Centralized Event Management	On endpoints protected by StellarProtect/StellarProtect (Legacy Mode) agents, administrators can monitor status and events, as well as respond when files are blocked from running. StellarOne provides event management features that let administrators quickly know about and take action on the blocked-file events.	
Server Event Auditing	Operations performed by StellarOne web console accounts are logged. StellarOne records an operating log for each account, tracking who logs on, who deletes event logs, and more.	

# **What's New**

TXOne Stellar One  $^{\tiny \mathsf{TM}}$  2.2 provides following new features and enhancements.

TABLE 1-2. What's New in TXOne StellarOne™ 2.2

FEATURE	BENEFIT
Enhanced dashboard	Adds one type of blocked events, Malware Scan, to be displayed in the Blocked Event History widget on the dashboard.
Adding Lockdown features for StellarProtect	You can now remotely configure the sub-features and trusted hash values settings of Application Lockdown for StellarProtect agents.
Agent's User password management	In addition to existing Agent's Administrator password, you can also manage Agent's User password remotely from StellarOne web console.
New update command button for StellarProtect - Check Connections	This new button for StellarProtect allows you to check connections between the selected endpoints and StellarOne.
New update command button - Apply Policies	This new button allows you to apply policies immediately to the selected endpoints.
Policy refresh interval	You can now set how often you want StellarOne to apply policies to the managed endpoints.
Performance settings for Scheduled Scan and Scan Now	These settings allow you to select the appropriate mode of CPU usage to balance between the scan and the available CPU resources under different circumstances.
Time sync with NTP	In addition to manually modifying StellarOne system time, the option to configure StellarOne for automatically synchronizing system time with an NTP server is available now.
Enhanced email security	Provides protocal command options such as STARTTLS and SMTPS to secure transmissions of email notifications of warning or outbreak events.
Enhanced CLI command	Add a new vShell command for configuring StellarOne FQDN setting to allow communication with agents or SSO (Single Sign-On) login

# **Chapter 2**

# **Installation Planning**

This section shows how to plan for TXOne StellarOne installation.

Topics in this chapter include:

- System Requirements on page 2-2
- Hardware Requirements on page 2-2
- Planning Network Bandwidth for Agent Deployment on page 2-7
- Ports and FQDN Used on page 2-8

### **System Requirements**

TXOne StellarOne<sup>™</sup> is packaged in an Open Virtual Appliance (OVA) or Virtual Hard Disk v2 (VHDX) format. The above-mentioned package files respectively apply to different hypervisors.

#### Supported Hypervisors (OVA file)

- VMware ESXi 6.5 or above
- VMware Workstation 16 Pro or above

#### **Supported Hypervisors (VHDX file)**

Windows Server 2019, Hyper-V Manager Windows 10 or above



#### Note

For StellarOne deployed from AMI on a AWS EC2 instance, refer to *Deciding an Instance Type for StellarOne on AWS EC2 Platform on page 2-6* for more details.

#### **Supported Browser**

- Google Chrome 87 or above
- · Microsoft Edge 79 or above
- Mozilla Firefox 78 or above

#### **Minimum Supported Resolution**

1366x768

### **Hardware Requirements**

Hardware requirements vary depending on the number of agents and logs that will be configured and retained. Please refer to the sections below for determining the optimal number of agents that your StellarOne server deployment can manage on different platforms.

#### **Hardware Requirements for VMware System**

Refer to the tables below for determining the optimal number of agents that your StellarOne server deployment can manage on the VMware system.

TABLE 2-1. Sizing Table for VMware

MAX. No. of Agents	MIN NO. OF VCORES	MEMORY SIZE	1ST HDD SPACE	2ND HDD SPACE (RECOMMENDED)
30,000	8	32 GB	25 GB	100 GB
20,000	8	16 GB		100 GB
15,000	4	16 GB		50 GB
10,000	4	16 GB		50 GB
5,000	4	12 GB		50 GB
1,000	4	12 GB		50 GB
500	4	12 GB		50 GB

The external disk space varies depending on the number of logs planned to be stored, as shown in the table below.

TABLE 2-2. No. of Logs versus Disk Space

No. of Logs	DISK SPACE
90,000,000	150 GB
60,000,000	100 GB
30,000,000	50GB

To determine the ideal specifications for your exernal 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: $100 \times 30 \times 20000 = 60,000,000 \text{ Logs}$

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



#### Note

- 1. The StellarOne requires one external disk with at least 50 GB minimum space for initialization and booting process.
- The external disk is used to store the system configurations and event logs.
  You may reuse the external disk of a terminated StellarOne instance if you
  want to migrate the previous configurations and logs to a new StellarOne
  instance.
- 3. Please also take the network bandwidth into consideration when planning for agent deployment. Refer to *Planning Network Bandwidth for Agent Deployment on page 2-7* for more details.

#### **Hardware Requirements for Hyper-V System**

Refer to the tables below for determining the optimal number of agents that your StellarOne server deployment can manage on the Hyper-V system.

TABLE 2-3. Sizing Table for Hyper-V

Max. No. of Agents	MIN. No. of CPU	MEMORY SIZE	1ST HDD SPACE	2ND HDD SPACE (RECOMMENDED )
30,000	10	24 GB	25 GB	100 GB
20,000	8	16 GB		100 GB
15,000	8	16 GB		50 GB
10,000	8	16 GB		50 GB
5,000	8	16 GB		50 GB
1,000	4	16 GB		50 GB
500	4	8 GB		50 GB

TABLE 2-4. No. of Logs versus Disk Space

No. of Logs	DISK SPACE
300,000,000	500 GB
180,000,000	300 GB
90,000,000	150 GB
30,000,000	50GB



#### Note

- 1. The StellarOne requires one external disk with at least 50 GB minimum space for initialization and booting process.
- The external disk is used to store the system configurations and event logs. You may reuse the external disk of a terminated StellarOne instance if you want to migrate the previous configurations and logs to a new StellarOne instance.
- 3. Please also take the network bandwidth into consideration when planning for agent deployment. Refer to *Planning Network Bandwidth for Agent Deployment on page 2-7* for more details.

#### **Deciding an Instance Type for StellarOne on AWS EC2 Platform**

Refer to the tables below for determining the optimal number of agents that your StellarOne server deployment can manage on the AWS EC2 platform.



#### Note

Please refer to  $\underline{\text{Amazon EC2 Instance Types}}$  for specifications of the instance types.

TABLE 2-5. Sizing Table for AWS EC2

Max. No. of Agents	MIN. No. OF CPU	MEMORY SIZE	1ST HDD SPACE	2ND HDD SPACE (RECOMMENDED )
30,000	10	24 GB	25 GB	100 GB
20,000	8	16 GB		100 GB
15,000	8	16 GB		50 GB
10,000	8	16 GB		50 GB
5,000	8	16 GB		50 GB
1,000	4	16 GB		50 GB
500	4	8 GB		50 GB

TABLE 2-6. No. of Logs versus Disk Space

No. of Logs	DISK SPACE
300,000,000	500 GB
180,000,000	300 GB
90,000,000	150 GB
30,000,000	50GB



#### Note

- 1. The StellarOne requires one external disk with at least 50 GB minimum space for initialization and booting process.
- The external disk is used to store the system configurations and event logs.
   You may reuse the external disk of a terminated StellarOne instance if you want to migrate the previous configurations and logs to a new StellarOne instance.
- 3. Please also take the network bandwidth into consideration when planning for agent deployment. Refer to *Planning Network Bandwidth for Agent Deployment on page 2-7* for more details.

# Planning Network Bandwidth for Agent Deployment

Please take network bandwidth into consideration when planning for agent deployment. See below as an example of calculating the bandwidth required to support the number of agents planned to deploy.

#### **Basic concept:**

Total available bandwitdth / Deployment task size = How many agents can be deployed at one task

Currently, there are 3 types of StellarOne deployment tasks:

- Incremental Pattern Update: works for agent pattern version no less than server version for two weeks, which requires about less than 5 MB
- Full Pattern Update: works for agent pattern version that's already exceeded two-week duration compared to server/update source, which requires about 80 MB
- Agent Remote Patch: update with the remote agent deployment upgrade package, which requires about 70 MB

The following tables illustrate the number of agents to be deployed on condition that the deployment takes 5 minutes and requires 50% of network

bandwidth, as well as the recommended policy refresh interval regarding the number of agents managed.

**TABLE 2-7. Agent Deployment Plan** 

TOTAL	No. of Agents Deployed			
BANDWIDTH / DEPLOYMEN T TASK	10 MBPS	100 MBPS	1000 MBPS	10 GBPS
Incremental Pattern Update	38	375	3750	37500
Full Pattern Update	2	23	234	2344
Agent Remote Patch	3	27	268	2679

TABLE 2-8. Policy Refresh Interval vs No. of Agents Managed

POLICY REFRESH INTERVAL	No. of Agents Managed
5 minutes	5000
10 minutes	10000
20 minutes	20000
60 minutes	60000

# **Ports and FQDN Used**

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

TABLE 2-9. Ports and FQDN Used

FROM	То	OPEN PORT	FQDN	Function
StellarProtect	StellarOne	9443, 443	-	StellarOne's listening port for StellarProtect
StellarProtect (Legacy Mode)	StellarOne	8000, 443	-	StellarOne's listening port for StellarProtect (Legacy Mode)
StellarOne	StellarProtect	14336	-	StellarProtect's listening port
StellarOne	StellarProtect (Legacy Mode)	14336	-	StellarProtect (Legacy Mode)'s listening port
StellarOne	License (PR) Server	443	odc.cs.txone- networks.com	StellarOne connects to global server port for license verification and renewal through HTTPS
Browser	StellarOne Web	443	-	StellarOne's listening port for web access through HTTPS
StellarOne	Active Update Server	443	https:// ttau.cs.txone.com/ protect https:// ttau.cs.txone.com/ enforce	StellarOne connects to global server port for the Stellar Active Update through HTTPs



#### Note

The following ports are reserved for StellarOne private service usage and are not allowed to use for other purposes.

**TABLE 2-10. StellarOne Occupied Ports** 

STELLARONE OCCUPIED PORT	Port	
StellarProtect (Legacy Mode) Default Port	8000	
StellarProtect Default Port	9443	
SSH	22	
NTP	123	
Web	443	
StellarOne Internal Service	25	
	7590	
	8888	
	8889	
	8999	
	9091	

# **Supported Agent Versions**

The following table indicates the StellarOne supported agent versions.



#### **WARNING!**

- Before upgrading, please check the table below to identify the StellarOne supported agent versions.
- Please upgrade the StellarOne server first before you upgrade the agents.

**TABLE 2-11. Supported Agent Version** 

SERVER VERSION	Agents Version		
STELLARONE	STELLARPROTECT	STELLARPROTECT (LEGACY MODE)	STELLARENFORCE
2.2	2.2 and earlier versions	1.5 and earlier versions	N/A
2.1	2.1and earlier versions	1.4 and earlier versions	N/A
2.0	2.0 and earlier versions	1.3 and earlier versions	1.3 and earlier versions
1.2	1.2 and earlier versions	N/A	1.2 and earlier versions
1.1	1.1 and earlier version	N/A	1.1 and earlier version
1.0	1.0	N/A	1.0



#### Important

Please try to keep or upgrade the managed agents in or to the corresponding StellarOne major release version as indicated in the table above. Though StellarOne provides backward compatibility to support agents with earlier version, new features or enhanced functionality should not be applicable on some agents with earlier versions.



#### Note

The Stellar Enforce was renamed Stellar Protect (Legacy Mode) upon the release of version 1.3.

# **Chapter 3**

# **Installation**

This chapter guides you through TXOne StellarOne installation. StellarOne is packaged in an Open Virtual Appliance (OVA) or Virtual Hard Disk v2 (VHDX) format and supports 4 types of platforms: VMware ESXi, VMware Workstation, Windows Hyper-V systems, and AWS EC2.

#### Topics in this chapter include:

- StellarOne Installation Flow on page 3-2
- StellarOne Onboarding to VMware ESXi on page 3-2
- StellarOne Onboarding to VMware Workstation on page 3-12
- StellarOne Onboarding to Windows Hyper-V on page 3-17
- StellarOne Onboarding to AWS EC2 on page 3-32
- Opening StellarOne Management Console on page 3-46

#### **StellarOne Installation Flow**

Installing StellarOne web console requires performing the following steps:

#### **Procedure**

- **1.** Deploy a StellarOne instance on VMware ESXi or Workstation, Windows Hyper-V, or AWS EC2 platform.
- 2. Add an external hard disk with at least 50 GB of space to the StellarOne instance.
- **3.** Log on StellarOne web console to set up the administrator's account.
- **4.** Log on StellarOne web console to activate the product license and set time properties.
- 5. Configure settings such as IP address and communication ports.

## StellarOne Onboarding to VMware ESXi

This section describes how to deploy StellarOne to the VMware ESXi system.

#### **Prerequisites**

- The OVA packages provided by TXOne must be available and accessible to VMwareESXi.
- VMware ESXi 6.5 or above is required.
- The necessary networks have been properly created for ESXi.
- An external disk with at least 50 GB.

#### **Deploying StellarOne on the VMware ESXi**

Below section details procedures of deploying StellarOne from an OVA file to the VMware ESXi system.

#### **Procedure**

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

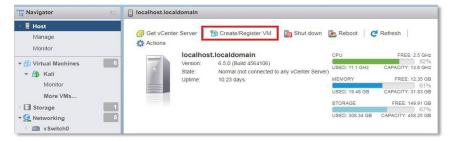


FIGURE 3-1. Navigator

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



FIGURE 3-2. Select creation type

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



FIGURE 3-3. Select OVF and VMDK files

**5.** Choose a strorage location for the StellarOne instance.

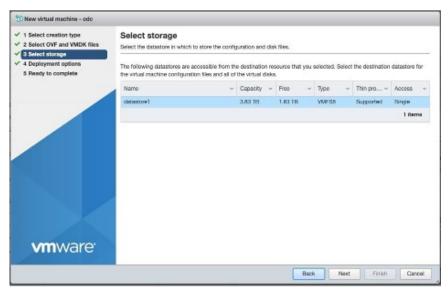


FIGURE 3-4. Select storage

6. Select deployment options.

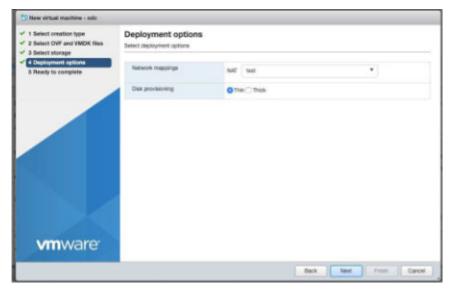


FIGURE 3-5. Deployment options

7. When you see **Ready to complete**, click **Finish** to start the deployment.

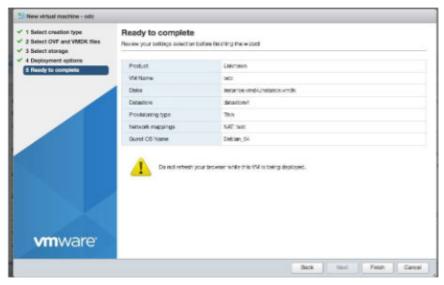


FIGURE 3-6. Ready to complete

- 8. Under the **Recent Tasks** pane, you will see a progress bar indicating the StellarOne image is being uploaded. Please wait until the upload is finished.
- Add an external disk with at least 50 GB of capacity to the StellarOne instance.
  - a. Close the StellarOne instance if it is open.
  - b. The external disk capacity is determined by the number of logs to be stored, as shown in the table below.

No. of Logs	DISK CAPACITY
90,000,000	150 GB
60,000,000	100 GB
30,000,000	50 GB

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

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

For example, to calcuate the external HDD capacity required for 20,000 agents on the assumption that:

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

The total number of logs:  $100 \times 30 \times 20,000 = 60,000,000 \log 8$ 

In this case, it is required to prepare an external disk with capacity of 100 GB for storage space.

c. Follow the procedures to add the external disk: Actions > EditSettings > Add Hard Disk > New hard disk > Save

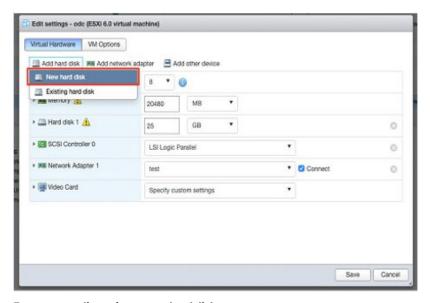


FIGURE 3-7. Edit settings - New hard disk

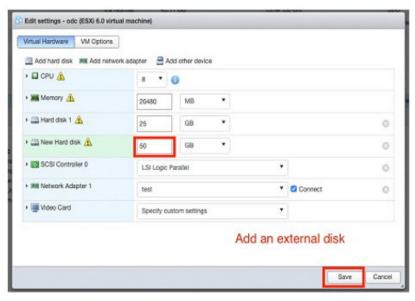


FIGURE 3-8. Edit settings - New hard disk capacity

- d. If you need to increase the number of logs StellarOne can store, follow the procedures.
  - i. Shut down StellarOne
  - ii. Increase the external disk capacity to fit the maximum log requirements
  - iii. Restart the StellarOne instance. After that, the storage space available for StellarOne log files will be expanded.
- e. If you wan to migrate the existing StellarOne settings to the newly launched VM, please refer to *System Migration on page 5-4*.



- a. StellarOne requires one external disk with minimum capacity above 50GB; otherwise, StellarOne will not finish initialization and will not complete the boot process.
- b. 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.



FIGURE 3-9. VM turned on

- **11.** (Optional) Adjust your StellarOne instance to use proper resource configurations based on the default setting (8-core CPU, 16 GB Memory).
  - a. Shut down the StellarOne instance and click **Edit**. The **Edit Settings** window will appear.
  - b. Configure the number of CPU cores.

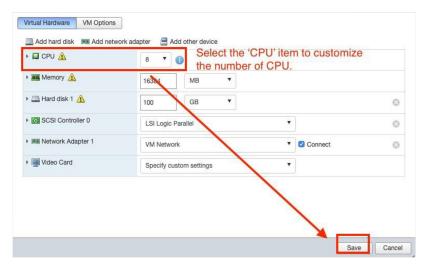


FIGURE 3-10. Select number of CPU

c. Configure the amount of Memory.

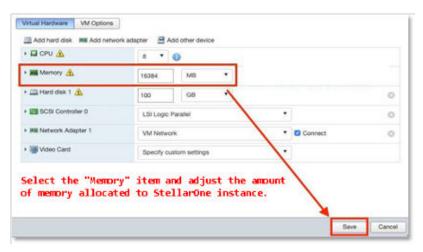


FIGURE 3-11. Configure Memory



Refer to the *Hardware Requirements for VMware System on page 2-3* to determine CPU and memory requirements for agent deployment.

d. Boot the StellarOne instance.

# StellarOne Onboarding to VMware Workstation

This section describes how to deploy StellarOne to the VMware Workstation system.

### **Prerequisites**

- The OVA packages provided by TXOne must be available and accessible to VMware Workstation.
- VMware Workstaion 16 Pro or above is required.
- The necessary networks have been properly created for VMware Workstation.
- An external disk with at least 50 GB.

### **Deploying StellarOne on the VMware Workstation**

Below section details procedures of deploying StellarOne from an OVA file to the VMware Workstation.

#### Procedure

- 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 **Import**.

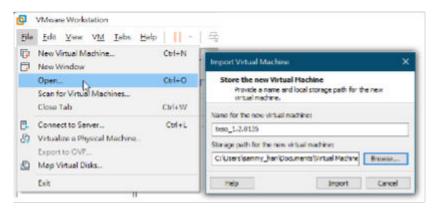


FIGURE 3-12. Import File to VMware Workstation

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

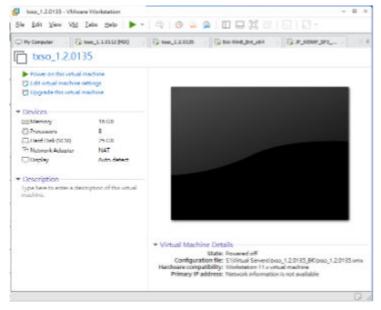


FIGURE 3-13. StellarOne VM Details

- 5. Add an extra hard disk.
  - a. Click Edit virtual machine settings.
  - b. Click Add... > Hard Disk for Hardware Type

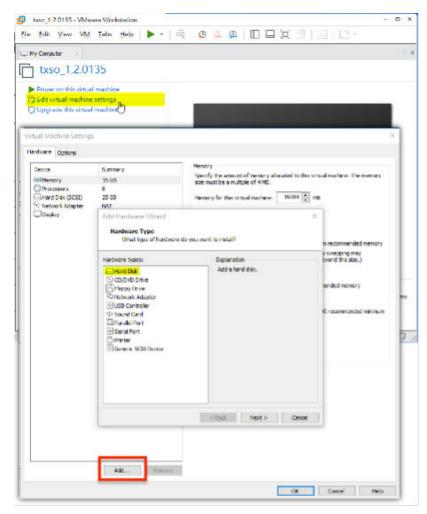


FIGURE 3-14. Add a Hard Disk

- c. Select **SCSI** (**Recommended**) as the disk type.
- d. Select Create a new virtual disk as the disk item.
- e. Set Maximum disk size (GB)as 50.

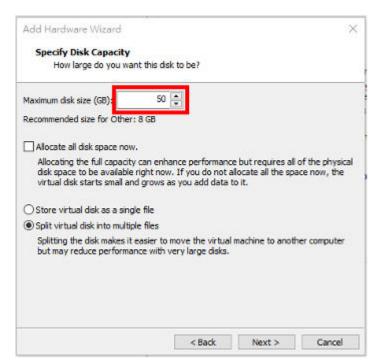


FIGURE 3-15. Add Hardware Wizard

f. Select path to store the disk and click **Finish**. The new external disk will be created in **Virtual Machine Settings**.

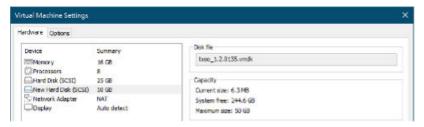


FIGURE 3-16. Hardware Overview in Virtual Machine Settings

- **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 the StellarOne instance.

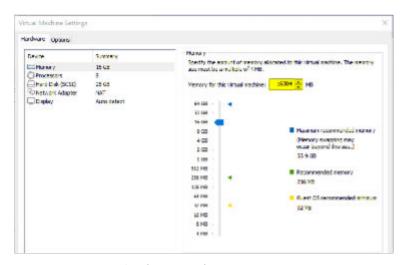


FIGURE 3-17. Memory for Virtual Machine

- 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.

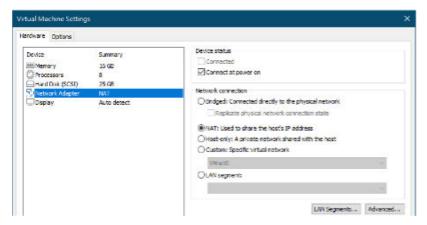


FIGURE 3-18. Network Adapter in Virtual Machine Settings

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

# StellarOne Onboarding to Windows Hyper-V

This section describes how to deploy StellarOne to the Windows Hyper-V system.

### **Prerequisites**

- The VHDX packages provided by TXOne must be available and accessible to Windows Hyper-V.
- Windows Server 2019, Hyper-V Manager Windows 10 or above.
- The necessary networks have been properly created for Windows Hyper-V.

An external disk with at least 50 GB.

### **Deploying StellarOne to a Hyper-V System**

Below section details procedures of deploying StellarOne from a VHDX File to a Hyper-V system.

#### **Procedure**

1. Launch Hyper-V Manager

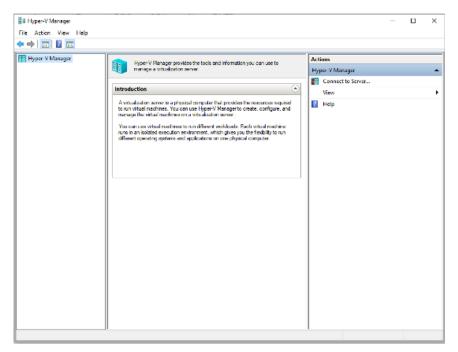


FIGURE 3-19. Hyper-V Manager

- 2. Under Actions, click New > Virtual Machine.
- $\textbf{3.} \quad \text{The New Virtual Machine Wizard} \ \text{appears, click Next.}$

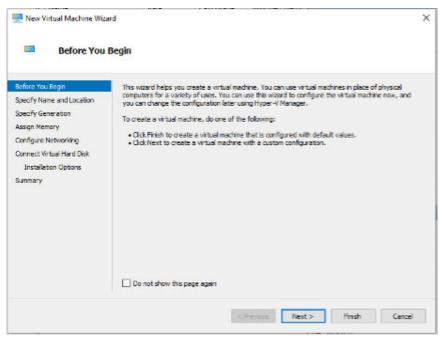


FIGURE 3-20. New Virtual Machine Wizard: Before You Begin

**4.** Under **Specify Name and Location**, type a name for your new virtual machine.

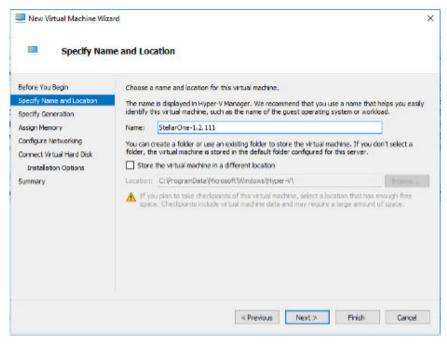


FIGURE 3-21. New Virtual Machine Wizard: Specify Name and Location

5. Under Specify Generation, select Generation 1.

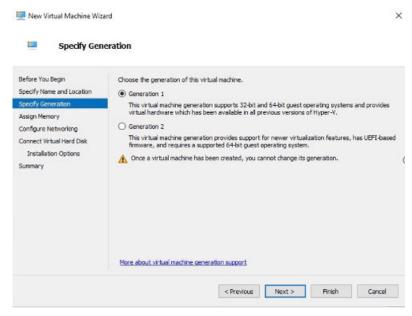


FIGURE 3-22. New Virtual Machine Wizard: Specify Generation

**6.** Under **Assign Memory**, allocate memory for the new virtual machine.

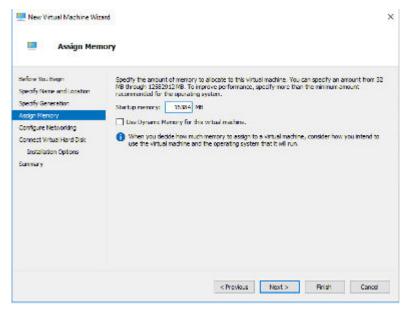


FIGURE 3-23. Assign Memory for Virtual Machine



StellarOne requires minimum memory of 8 GB.

**7.** Configure the VM's network settings.

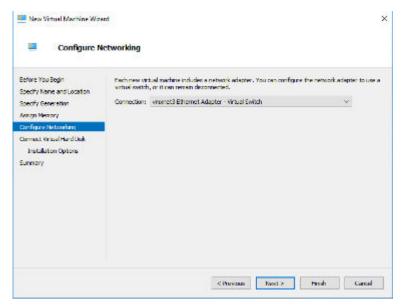


FIGURE 3-24. Configure Networking for Virtual Machine

**8.** Select a virtual hard disk (select the StellarOne .vhdx file)

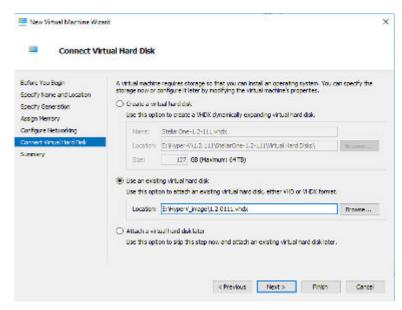


FIGURE 3-25. Connect Virtual Hard Disk

9. Check your settings and then click Finish.

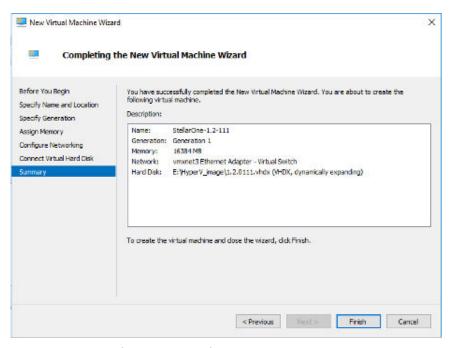


FIGURE 3-26. Completing the New VM Wizard

10. Add a new disk for the virtual machine.



#### Note

Make sure the previous SterllarOne instance is turned off.

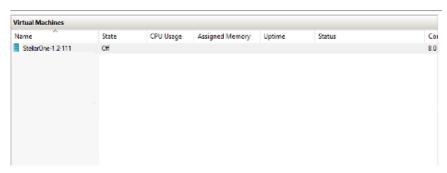


FIGURE 3-27. State of previous StellarOne is off

- a. Select Virtual Machine, right click Menu and then select Settings.
- b. Select Hard Drive, and then click Add.

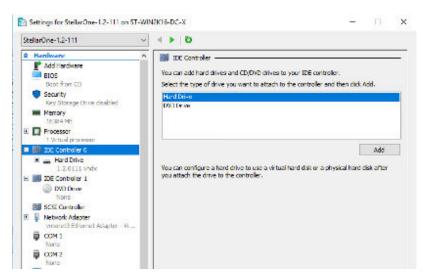


FIGURE 3-28. Settings for StellarOne - 1

c. Click **New**.

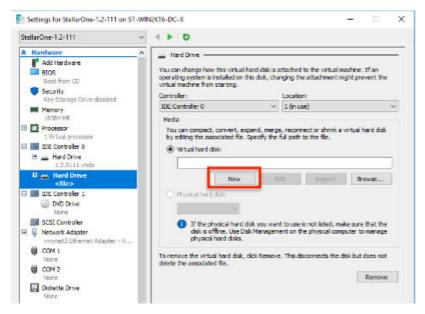


FIGURE 3-29. Settings for StellarOne - 2

d. Under **Choose Disk Format**, select **VHDX** as the disk format.

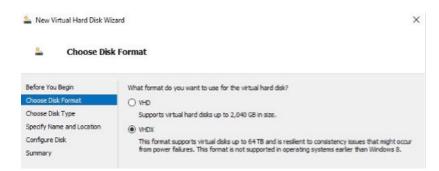


FIGURE 3-30. Choose Disk Format

e. Under **Choose Disk Type**, select **Dynamically expanding** as the disk type.

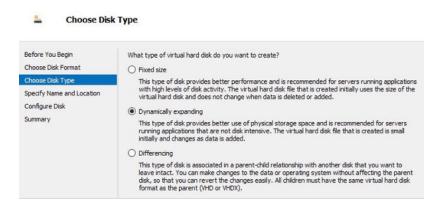


FIGURE 3-31. Choose Disk Type

f. Specify name and location for the virtual hard disk file.

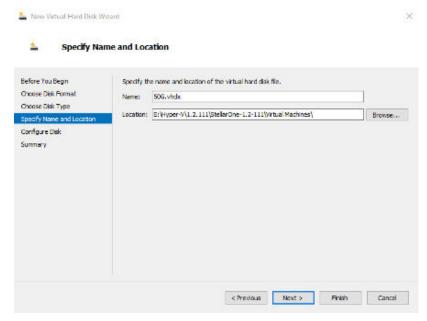


FIGURE 3-32. Specify Name and Location

### g. Configure disk size.



#### Note

Refer to the *Sizing Table for Hyper-V System on page 2-4* to determine the proper disk size for StellarOne.

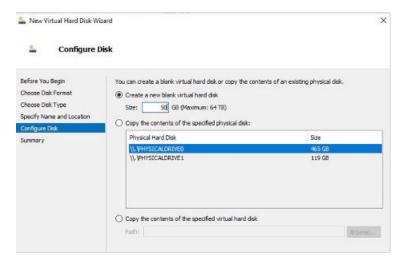


FIGURE 3-33. Configure Disk for StellarOne

#### h. Click **Finish**.

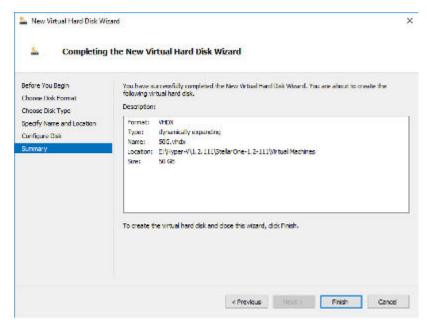


FIGURE 3-34. Completing the New Virtual Hard Disk Wizard

- 11. (Optional) Refer to *Hardware Requirements for Hyper-V System on page 2-4* to determine CPU and memory requirements for agent deployment and corresponding StellarOne configuration and resource allocation. It is advisory to at least adopt the default settings (4 CPU cores, 16 GB Memory).
  - a. Shut down the StellarOne instance. Select and right click the instance, and then click **Settings**.

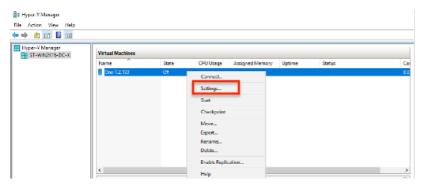


FIGURE 3-35. StellarOne Configuration

b. Under **Processor**, configure the number of virtual processors and resource control settings.

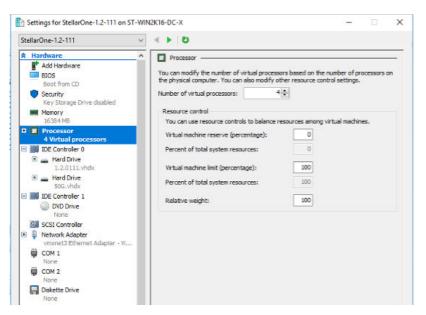


FIGURE 3-36. Processor Settings in StellarOne Configuration

c. Under **Memory**, configure the amount of memory.

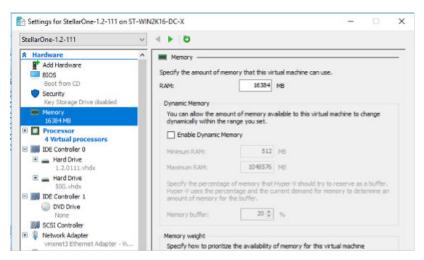


FIGURE 3-37. Memory Settings in StellarOne Configuration

d. Boot the StellarOne instance.

## **StellarOne Onboarding to AWS EC2**

This section describes how to deploy StellarOne on the AWS EC2 platform.

### **Prerequisites**

- · An AWS account is required
- StellarOne for AWS supports only BYOL (Bring Your Own License)
- An external disk (EBS) with at least 50 GB.



#### Note

Please contact your support provider for the BYOL license.

### **Deploying StellarOne on AWS EC2**

Below section details procedures of deploying StellarOne from BYOL AMI on the AWS EC2 platform.

#### **Procedure**

- 1. Go to the **AWS Markeplace** homepage.
- 2. Enter the search string such as TXOne or StellarOne in the search bar and then run the search.
- **3.** Click the search result and read the product information carefully before proceeding to the subscription process.
- **4.** After accepting the terms and conditions for using StellarOne, choose the **Fulfillment option**, **Software version**, and **Region** to launch StellarOne.
- 5. Select **Launch through EC2** as the launch action.

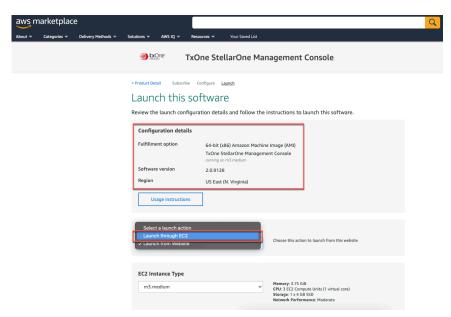


FIGURE 3-38. Select a Launch Action

- 6. Log on the AWS EC2 console.
- 7. Go to Images > AMIs.
- **8.** Select the region you chose in step 4.
- **9.** Find the target AMI from the list of **AMI ID**.
- 10. Select the target AMI and click Launch Instance from AMI.
- 11. Select a supported instance type.

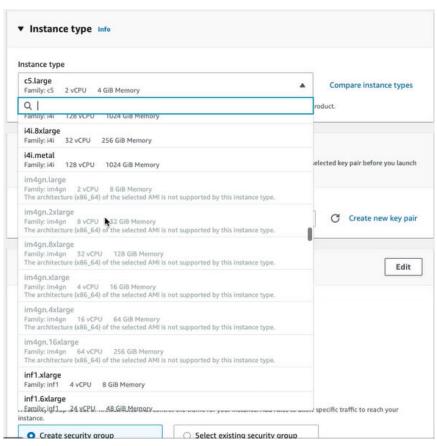


FIGURE 3-39. Select an Instance Type

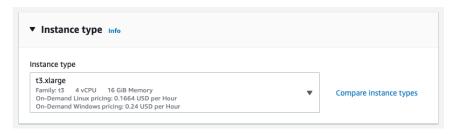


FIGURE 3-40. Information of the Selected Insance Type



- The instance types that do not meet StellarOne's deployment requirements will be unavailable for selection.
- Refer to *Deciding an Instance Type for StellarOne on AWS EC2 Platform on page 2-6* for determining which instance type to use.

### **12.** Configure the instance settings:

a. Select or create the Key pair (login)



FIGURE 3-41. Key pair (login)

- b. Configure the **Network settings**:
  - Be sure to create security group for allowing specific data exchanges to access your instance. It is required to enable the HTTPS traffic from the Internet to allow StellarOne to manage endpoints on the network.

 (Optional) If you have the need for SSH login, you can also enable the Allow SSH traffic from and select Anywhere or specify the IP address.



Refer to *Ports and FQDN Used on page 2-8* for configuring the ports that should have access to StellarOne.

- Be sure to grant 8000 or 9443, the dedicated port for StellarProtect or StellarProtect (Legacy Mode), access to your instance.
- For security reasons, it is advisory to allow 443 or 22, the web port or SSH port for StellarOne, to be accessible from trusted IP address.

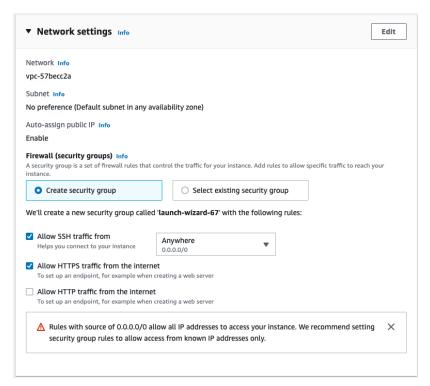


FIGURE 3-42. Network settings

c. Add an EBS with at least 50 GB of space to the StellarOne instance in **Configure storage**.

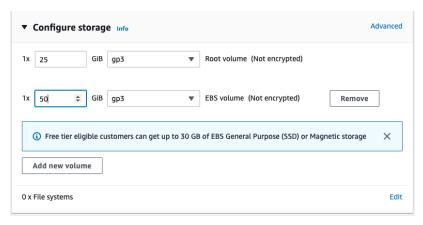


FIGURE 3-43. Configure Storage

d. Click Launch Instance.



#### Note

It may take 5 to 10 minutes to complete the deployment.

13. Find the StellarOne instance and copy its assigned IP address.

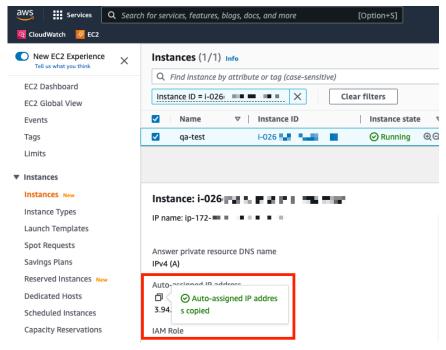


FIGURE 3-44. Auto-assigned IP address



The auto-assigned IP address may change if the instance has been rebooted. Please refer to *Associating the Elastic IP Address with an Instance on page 3-42* for assigning a static IPv4 address to your instance.

**14.** Refer to *Opening StellarOne Management Console on page 3-46* for logging on StellarOne via a web browser, or *Accessing StellarOne via SSH on page 3-40* for accessing StellarOne via SSH.

### **Accessing StellarOne via SSH**

This section describes how to access StellarOne via SSh.

#### **Procedure**

 Find the StellarOne instance on the AWS EC2 and copy its auto-assigned IP address.

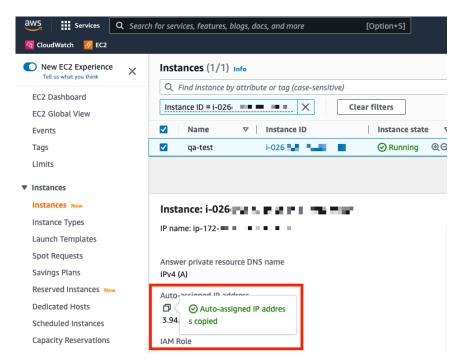


FIGURE 3-45. Auto-assigned IP address



#### Note

The auto-assigned IP address may change if the instance has been rebooted. Please refer to *Associating the Elastic IP Address with an Instance on page 3-42* for assigning a static IPv4 address to your instance.



#### **Important**

- Ensure that you use admin as the SSH login username.
- If you access StellarOne via SSH, it is not required to go through the OOBE process and change password.
- **3.** Check if the service of StellarOne instance is activated and running.

```
env ls
Hostname:
                              ODC
Status:
                              RUNNING
                              7ē
Product Serial Number:
Version:
                              2.2.1148
Advertise Address:
                              Not Set
DPI Engine Version:
DPI Pattern Version:
StellarProtect (Legacy Mode) Agent Up Port:8000
StellarProtect (Legacy Mode) Agent Down Port:14336
StellarProtect Agent Up Port: 9443
StellarProtect Agent Down Port:14336
```

FIGURE 3-46. Check Service Status via SSH

### **Associating the Elastic IP Address with an Instance**

The following section describes how to assign the Elastic IP addrdss to your StellarOne instance deployed from the AMI on AWS EC2 platform.



#### Note

The Elastic IP address is a static IPv4 address designed for dynamic cloud computing, and is allocated to your AWS account.

#### **Procedure**

- 1. Log on the AWS EC2 console and go to **Network & Security > Elastic IPs**.
- 2. Select the Elastic IP address to associate and choose **Actions** > **Associate Elastic IP address**.

- 3. For Resource type, select Instance.
- **4.** Choose the target instance.



You can search for a specific instance by typing relevant strings in the search bar.

- **5.** (Optional) For **Private IP address**, specify a private IP address with which to associate the Elastic IP address.
- 6. Click **Associate**.

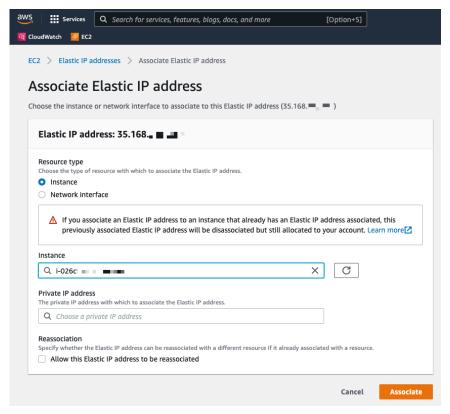


FIGURE 3-47. Associate the Elastic IP Address with an Instance

**7.** A message appears indicating the Elastic IP address has been associated to the target instance.

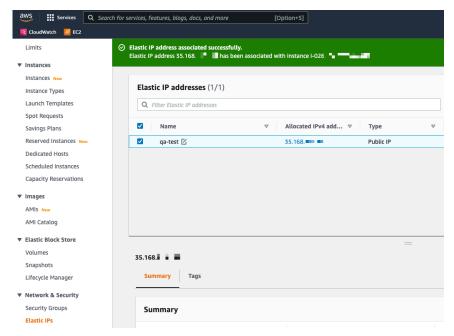


FIGURE 3-48. Associate Elastic IP Address

- **8.** You can use the Elastic IP address to log on StellarOne via a web browser or via SSH now.
- **9.** (Optional) Choose one of the methods below to access StellarOne via SSH with the Elastic IP address:
  - Replace the advertise address with the Elastic IP address by typing:
    - env advertise <the elastic IP address>
  - Replace the advertise address with the Elastic Load Balancer address by typing:
    - env advertise <the ELB address>

## **Opening StellarOne Management Console**

### **Procedure**

- In a web browser, type the address of the StellarOne in the following format: https://<targetserver IP address>. The log on screen appears.
- 2. Enter your credentials (user ID and password).

Use the default credentials of administrator when logging on for the first time:

User ID: admin

Password: txone

- 3. Click Log On.
- **4.** If this is the first time the StellarOne instance being logged on, follow below procedures to complete the initial settings.
  - a. The **Login Information Setup** window appears and prompts you to change password. Confirm your password settings by:
    - specifying your new password in the **New Password** text field.
    - specifying the password again in the Confirm Password text field.



### Note

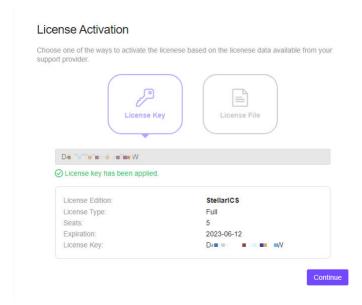
- For StellarOne 1.2 or above, the default login name is always admin and can not be changed by the user.
- For StellarOne 1.0/1.1, in addition to changing the password, the
  user is also required to change the default login name in this
  step. The new login name can not be admin, administrator,
  auditor or root.
- b. Click **Confirm**. You will be automatically logged out. The **Log On** screen will appear again.

- c. Log on again using your new credentials. The **License Activation** window appears.
- d. Choose one of the ways to activate the license based on the license data available from your support provider:
  - · License Key
    - i. Click License Key.
    - ii. Specify your license key in the text field.
  - · License File:
    - i. Click License File.
    - ii. Select the license file (a .txt file) to import.



If you don't have the license file on hand, refer to *Getting the License File on page 3-49*.

- e. Click Apply.
- f. The License key is valid message appears. Click Continue.



- g. A success message appears. License information also appears at the bottom of the **License Activation** window. Check if it matches the license data provided by your support provider.
- h. Click **Continue**.
- i. The **End User License Agreement and TXOne OT Intelligent Trust** window appears. Click the links to read the documents carefully and click the checkboxes to proceed to next step.



It is advisory to enable **TXOne OT Intelligent Trust** to enhance security deployment. Please refer to *OT Intelligent Trust on page 3-51* for more details.

- j. Specify the time settings such as the **Date and Time** as well as the **Time Zone**, and then click **Continue**.
- k. The StellarOne console is ready for use now.



After the initial settings are completed, the StellarOne allows various user accounts to log on remotely via a web browser.

- **5.** (Optional) You can change your password by clicking the ID icon at the top right corner of the screen, and then selecting **Change Password**.
- **6.** (Optional) For security reasons, you can manually log off by clicking the ID icon at the top right corner of the screen.
  - a. A pop-up **Log Off** window appears. Click **Yes** to log out of StellarOne.



#### Note

You will be automatically logged off the console if no operations are performed within 30 minutes.

## **Getting the License File**

Depending on the license data available from your support provider, you may need a license file to activate license for StellarOne.



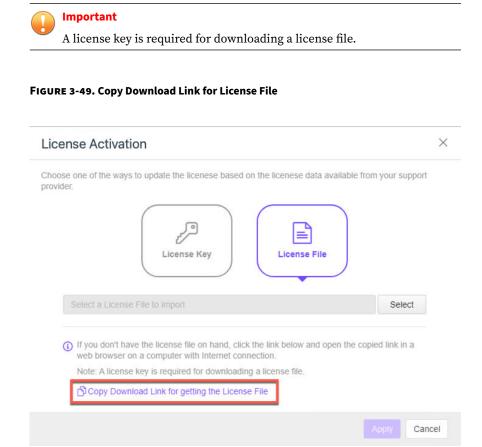
#### Note

The license file can be used for license activation if the StellarOne has no Internet connection.

### **Procedure**

- 1. Go to Administration > License
- 2. Click the **New License Key / File** button.
- 3. The **New License** window appears.
- **4.** When you log on StellarOne using your new credentials after the **Login Information Setup** procedure, the **License Activation** window appears.

- 5. Click License File.
- **6.** Click **Copy Download Link for getting the License File** at the bottom of the **License ActivationNew License** window.



- 7. The Download Link has been copied toast message appears.
- **8.** Open the copied link in a web browser on a computer with Internet connection.

You will be directed to the TXOne License File Management screen.
 Specify your license key in the License Key field, and then click Download.

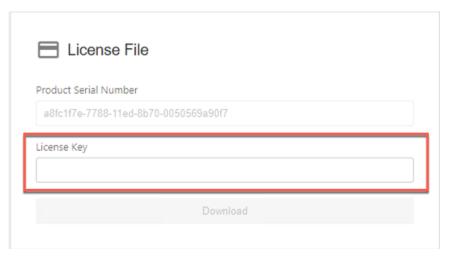


FIGURE 3-50. TXOne License File Management

**10.** A pop-up window appears showing the license information. Read it carefully and click **Yes** for downloading the license file.



### Tip

You can send the license file to StellarOne that has no Internet connection via the internal secured network or a trusted portable device.

## **OT Intelligent Trust**

When enabled, TXOne OT Intelligent Trust shares anonymous threat information with the Smart Protection Network, allowing TXOne to rapidly indentify and address new threats. You can disable TXOne OT Intelligent Trust anytime on this console.

## **Chapter 4**

# Configuring StellarOne via Command Line Interface (CLI)

This chapter describes how to configure some settings for StellarOne via command line interface (CLI).

### Topics in this chapter include:

- Using the StellarOne Command Line Interface (CLI) on page 4-2
- Configuring the IP Address via CLI on page 4-3
- Modifying Communication Ports via CLI on page 4-9
  - Configuring the Advertise Address via CLI on page 4-6
- Changing Language Settings via CLI on page 4-11
- Managing Docker Network via CLI on page 4-13
- Reseting Administrator's Password via CLI on page 4-13

## **Using the StellarOne Command Line Interface (CLI)**

The following section describes how to log on StellarOne and get a list of available commands via command line interface (CLI).

### **Procedure**

- 1. Open the StellarOne VM console.
- 2. Log on by tying root as the user name, txone as the password.



### Note

If the StellarOne instance is deployed from AMI on AWS EC2 platform, type admin as the user name and no password is needed.

**3.** After logging on the StellarOne console, type help command for a list of available commands.

```
help
vShell, version
The commands provided in:
 access-list Manage the IP whitelists
                  Connection test for target server
  env
                 Manage system environment variables
  exit
                  Exit this shell
                  List all command usage
 help
  iface
                  Manage the network interfaces
 ping
                 Test the reachability of a host
 poweroff
                 Shut down the machine immediately
 pwd
                  Change the root user password
                  Restart the machine immediately
  reboot
  resolv
                  Manage the domain name server
  scp
                  Send files via scp
                  SSH to a device
  ssh
  service
                  Manage the StellarOne service
                  Send files via sftp
  sftp
                  Commands of the web management console
  web
  stellar
                  Commands of the Stellar products
  locale
                  Locale setting
 network
                  Manage network for the StellarOne service
 Tab Auto-complete or switch among options available 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
Shortcut table:
  Ctrl + L
                  Clear the screen
```

FIGURE 4-1. Command list

## **Configuring the IP Address via CLI**

The following section describes procedures of configuring the IP address settings for StellarOne instance via CLI.

### **Procedure**

1. Type iface 1s to get the IP address of the StellarOne instance.

FIGURE 4-2. Getting the IP Address of StellarOne

2. Type iface update command for updating the settings of current 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
```

Check if the network interface settings are correct, and then type the following command to execute the change.

```
iface restart eth0
```

**4.** Type following command again for viewing the new network interface settings.

iface ls

```
[

"Name": "lo",
    "Fomily": "inet",
    "Method: "loopback"
},

{

"Name": "eth0",
    "Fomily": "inet",
    "Method: "istatic",
    "Address": "10 7.19.157",
    "Address": "10 7.19.157",
    "Netmosk": "255.255.255.0°,
    "Gatewoy": "10.7.19.254"
}

]:

lo: <LOOPBACK,UP,LONER,UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1
link/loopback 00:00:00:00:00:00:00 bd d0:00:00:00:00
inet 127, 00.1/8 scope host to
    valid_lft forever preferred_lft forever
    inet6::1/128 scope host
    valid_lft forever preferred_lft forever
    inet6::2/128 scope host
    valid_lft forever preferred_lft forever
linet6::2/1.291.59724 bd 10.7:19.255 scope global eth0
    valid_lft forever preferred_lft forever
linet6::2/1.291.59724 bd 10.7:19.255 scope global eth0
    valid_lft forever preferred_lft forever
linet6::20:2259ff:fe2f:52d/64 scope link
    valid_lft forever preferred_lft forever
```

FIGURE 4-3. Viewing New Network Settings

5. Use the resolv add command to add a DNS server and resolv 1s to view the DNS server list. For example, the following command adds 8.8.8.8 to the DNS server list

resolv mode custom

resolv add 8.8.8.8

**6.** Type following command to view the DNS server settings

resolv ls

```
$ resolv mode custom
$ resolv add 8.8.8.8
8.8.8 is added
$ resolv ls
Custom Mode
8.8.8.8
```

FIGURE 4-4. Viewing DNS Server Settings

**7.** Type following command to reboot the VM.

reboot

### **Configuring the Advertise Address via CLI**

The following section describes how to configure the IP address or FQDN as the StellarOne advertise address via CLI.

### **Procedure**

- 1. Type help command for a list of available commands.
- 2. Type env and find the advertise-addr command.

```
Shell, version ab2e3bc
he commands provided in:
access-list Manage the IP whitelists
                    Connection test for target server
                   Manage system environment variables
Exit this shell
List all command usage
                    Manage the network interfaces
Test the reachability of a host
iface
                     Shut down the machine immediately
                    Change the root user password Restart the machine immediately
reboot
                    Manage the domain name server
                    SSH to a device
Manage the StellarOne service
                    Send files via sftp
                    Commands of the web management console
Commands of the Stellar products
                     Locale setting
                    Manage network for the StellarOne service
hortcut table:
                    Go to the head of the line (Home)
Go to the tail of the line (End)
Ctrl + A
Ctrl + L
                    Clear the screen
```

FIGURE 4-5. The advertise-addr command

**3.** Specify the advertise address for StellarOne after the advertise-addr command. The following example uses the FQDN as the advertise address:

env advertise-addr S1.txone.com



You can choose to specify the IP address, FQDN, or type default to use the default IP address for StellarOne.

**4.** (Optional) If the specified advertise address can not be resolved, type the --force command after it to force the setup:

env advertise-addr S1.txone.com --force

**5.** Reload the StellarOne web console by typing:

service reload

```
© env advertise-addr S1.txone.com

VShell: unable to resolve address S1.txone.com or it's an invalid IP. Try to add --force after the address to force the stup.

8 env advertise-addr S1.txone.com --force
Successfully set up advertise address: S1.txone.com. Please reload the service to take effect.

8 service reload
Start to reload services...
```

**6.** Type the following command to check the advertise address settings.

env ls



FIGURE 4-6. Checking Advertise Address Settings

7. After the setup, the agent installer package and the SAML SSO (Single Sign-On) metadata file downloaded from StellarOne should contain the configured advertise address, allowing the quick deployment for the agents to communicate with StellarOne or SSO login via the advertise address.

• See the examples below as the agent's config files (StellarSetup.ini) that contain the configured advertise address.

FIGURE 4-7. Use IP address as the advertise address in StellarSetup.ini

FIGURE 4-8. Use FQDN as the advertise address in Stellar Setup. ini

• See the example below as the SAML SSO metada files tha contatin the configured advertise address.



FIGURE 4-9. Use IP address or FQDN as the advertise address in SAML SSO metadata file

## **Modifying Communication Ports via CLI**

Below section describes how to modify the communication ports for StellarOne instance via CLI.

### **Procedure**

1. Type env ls command for the list of current communication ports.

```
env ls
Hostname:
                              ODC
Status:
                              RUNNING
Product Serial Number:
                              7 a
Version:
                              2.2.1148
Advertise Address:
                              Not Set
DPI Engine Version:
DPI Pattern Version:
StellarProtect (Legacy Mode) Agent Up Port:8000
StellarProtect (Legacy Mode) Agent Down Port:14336
StellarProtect Agent Up Port: 9443
StellarProtect Agent Down Port:14336
Locale:
```

FIGURE 4-10. List of Current Communication Ports

2. Type stellar command for available agents to 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
```

### FIGURE 4-11. Available Agents for Selection

**3.** Select one of the agents to edit its communication port.

FIGURE 4-12. Select the Agent for Editing Communication Port

- **4.** Input the valid value for <up-port> and <down-port>.
  - <up-port>: Port for receiving data from agents.
  - <down-port>: Port for sending command to agents



#### Note

Make sure not to use StellarOne's service port. Please refer to **Table 2-7. StellarOne Occupied Ports** in *Ports and FQDN Used on page 2-8.* 

```
$ 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.
```

FIGURE 4-13. Agent's Communication Ports

**5.** Reboot.



### Important

Please note the previously installed package does not contain the new port setting. Be sure to do either of the following actions after changing the commuication ports for StellarOne via CLI.

- Download the agent's installer package containing the new port setting from StellarOne, and install it on the agent.
- Modify the port setting accordingly in the StellarSetup.ini file in the agent's existing installer package, and reinstall it on the agent.

## **Changing Language Settings via CLI**

Below section describes how to change language settings for StellarOne via CLI. The default language for StellarOne web console is English. You can change the language to Japanese following below procedures.

### **Procedure**

- 1. Type locale ja command to switch the language to Japanese.
- 2. Reload the StellarOne web console

```
help
vShell, version ab2e3bc
The commands provided in:
 access-list Manage the IP whitelists
                Connection test for target server
 env
                Manage system environment variables
                Exit this shell
 exit
                List all command usage
 help
                Manage the network interfaces
 iface
                Test the reachability of a host
 ping
                Shut down the machine immediately
 poweroff
 pwd
                Change the root user password
 reboot
                Restart the machine immediately
 resolv
                Manage the domain name server
                Send files via scp
 scp
                SSH to a device
 ssh
                Manage the StellarOne service
 service
 sftp
                Send files via sftp
 web
                Commands of the web management console
 stellar
                Commands of the Stellar products
 locale
                Locale setting
 network
                Manage network for the StellarOne service
Shortcut table:
 Tab
                Auto-complete or switch among options available
 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.
```

FIGURE 4-14. Reload StellarOne console

**3.** Type env ls command to check current language settings.

```
env ls
Hostname:
                             ODC
Status:
                             RUNNING
Product Serial Number:
                             7 44 -----
                             2.2.1148
Advertise Address:
                             Not Set
DPI Engine Version:
                             2.0.11.33e2e1+turbo
DPI Pattern Version:
                             SDP 230228 08
StellarProtect (Legacy Mode) Agent Up Port:8000
StellarProtect (Legacy Mode) Agent Down Port:14336
StellarProtect Agent Up Port: 9443
StellarProtect Agent Down Port:14336
Locale:
```

FIGURE 4-15. Check Language Settings

## **Managing Docker Network via CLI**

The following section describes how to manage docker network on vShell for StellarOne via CLI.

#### **Procedure**

- 1. If 169.254.0.0/16 IP range is used in your network setting, please type network internal-service-update <New IP> command to set a new IP address for converting IP/16 subnet mask for docker daemon.
- 2. If you want to restore docker daemon back to the default-address-pools (169.254.0.0/16), type network internal-service-reset command.
- Type network internal-service-list command to display the address pools of docker daemon configuration.

## **Reseting Administrator's Password via CLI**

The following section describes how to reset administrator's password for StellarOne via CLI.

### **Procedure**

- 1. Type web reset admin command to reset administrator's password.
- The reset OK! message appears. The administrator's password has been reset.
- **3.** Use the default credentials (user ID: admin / password: txone) to log on the StellarOne web console.



#### Note

For StellarOne 1.0/1.1, the default login name (user ID) is required to be changed by users. Be sure to use the changed default login name for accessing StellarOne 1.0 or 1.1.

- **4.** The **Login Information Setup** window appears and prompts you to change password. Confirm your password settings by:
  - a. specifying your new password in the **New Password** text field.
  - b. specifying the password again in the **Confirm Password** text field.
- **5.** Click **Confirm**. You will be automatically logged out. The **Log On** screen will appear again.
- 6. Log on again using your new credentials.

## **Chapter 5**

## **Upgrade**

This chapter describes the supported upgrade paths and methods for TXOne StellarOne.

Topics in this chapter include:

- Supported Upgrade Paths on page 5-2
- Upgrade Methods on page 5-3

## **Supported Upgrade Paths**

The following table illustrates the supported upgrade paths for StellarOne installed in VMware or Windows Hyper-Vsystem..

**TABLE 5-1. Supported Upgrade Paths** 

PLATFORM	CURRENT VERSION	SUPPORTED TARGET UPGRADE VERSION	FIRMWARE Upgrade*	MOUNT UPGRADE
VMWare	2.1	2.2	√	√
Hyper-V	2.0	2.1 / 2.2	√	√
	1.2 Patch 1	2.0 / 2.1 / 2.2	N/A	√
	1.2	2.0 / 2.1	N/A	√
	1.2	1.2 Patch 1	V	√
VMWare	1.1	1.2 / 1.2 Patch 1	√	√
	1.0	1.1	N/A	√



### **Important**

- Do not use firmware upgrade to update StellarOne 1.0, 1.2, or 1.2 Patch1 to a newer version (except for upgrading 1.2 to 1.2 patch 1). Please use mount upgrade instead, which requires importing a new virtual image (.ova or .vhdx file) to a new instance and then mounting the 2nd external disk from the previous StellarOne instance. See *Mount Upgrade (VMware) on page 5-4* or *Mount Upgrade (Hyper-V) on page 5-7* for more details.
- StellarOne 1.2 patch1 equals to StellarOne1.2.2114
- TXOne Networks recommends always using firmware upgrade to update StellarOne if both upgrade options are available.

## **Upgrade Methods**

This section describes two methods to upgrade StellarOne installed in VMware or Windows Hyper-Vsystem.

Topics in this section include:

- Firmware Upgrade on page 5-3
- Mount Upgrade (VMware) on page 5-4
- Mount Upgrade (Hyper-V) on page 5-7

## **Firmware Upgrade**

This section describes how to perform firmware upgrade via the StellarOne web console.

### **Procedure**

- 1. Download the .acf upgrade patch file (e.g., TX0ne-S1-acus.fw-2.x.xxxx.acf) from the Download Center.
- 2. Log on the StellarOne web console and go to **Administration** > **Fimware**.
- **3.** Click **Import** and select the .acf file downloaded in *Step 1*, and then click **Apply**.
- **4.** Wait until the following window appears and read the upgrade notice carefully.

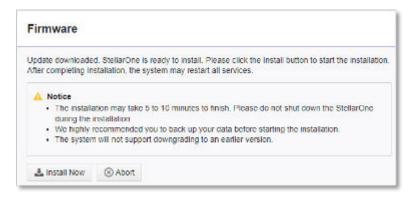


FIGURE 5-1. Firmware Install

**5.** Click **Install Now** to start the upgrade.

## **Mount Upgrade (VMware)**

This section describes how to perform mount upgrade for StellarOne on VMware ESXi or Workstation. The mount upgrade is performed by attaching the external disk of previous StellarOne instance to the StellarOne instance running new firmware version. The previously configured settings will be transferred to the new StellarOne instance, including:

- The UUID
- The pattern and firmware
- The agent list, policy settings, and StellarOne certificates
- The system configuration, including license, account information, security policies, and proxy/SSO settings
- Security event logs



### **Important**

- Before executing a mount upgrade, please create a back up of the VM files first.
- StellarOne 2.0 ONLY supports mount upgrade from version 1.2 or 1.2 Patch 1. Make sure you upgrade StellarOne 1.1 to 1.2 or 1.2 Patch 1 before upgrading to 2.0.
- StellarOne 1.1 ONLY supports mount upgrade from version 1.0.

### **Procedure**

- 1. Launch the new StellarOne instance. See *Deploying StellarOne* on the *VMware ESXi* on page 3-3 or *Deploying StellarOne* on the *VMware Workstation* on page 3-12 for deployment procedures.
- 2. Close the previous StellarOne instance.

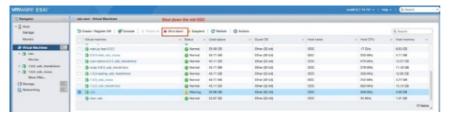


FIGURE 5-2. Shut Down the Previous VM

**3.** Attach the external disk of the existing StellarOne instance to the new StellarOne instance.

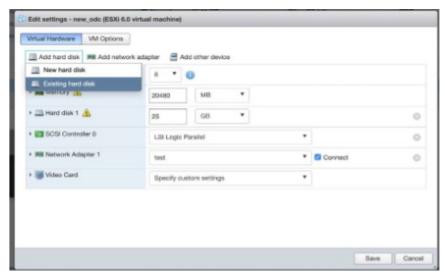


FIGURE 5-3. Select Existing (Previous) Hard Disk



FIGURE 5-4. Attach to New VM

**4.** The data of the previous StellarOne instance will be migrated to new StellarOne instance.

- 5. The IP address of the new StellarOne instance must be the same as that of the previous StellarOne instance. If not, manually configure the IP address so the new StellarOne instance and agents can be connected to each other. Next time when the agents synchronize their status with the server, they will connect to the new StellarOne. By default, the agents synchronize with the server every 20 minutes.
- 6. If the proxy or scan component update source has already been defined in the previous StellarOne instance, please define it again via the web GUI of the new StellarOne instance.
- 7. If you want to change the language setting to Japanese for the new StellarOne instance, see *Changing Language Settings via CLI on page 4-11*.

## **Mount Upgrade (Hyper-V)**

This section describes how to perform mount upgrade for StellarOne in Windows Hyper-V system. The mount upgrade is performed by attaching the external disk of previous StellarOne instance to the StellarOne instance running new firmware version. The previously configured settings will be transferred to the new StellarOne instance, including:

- The UUID
- The pattern and firmware
- The agent list, policy settings, and StellarOne certificates
- The system configuration, including license, account information, security policies, and proxy/SSO settings
- Security event logs



### **Important**

- Before executing a mount upgrade, please create a back up of the VM files first.
- StellarOne 2.0 ONLY supports mount upgrade from version 1.2 or 1.2 Patch
   1.

### **Procedure**

- **1.** Launch the new StellarOne instance. See *Deploying StellarOne to a Hyper-V System on page 3-18* for deployment details.
- 2. Close the previous StellarOne instance.
- **3.** Click **Browse** and choose the existing disk.
- Attach the external disk of previous StellarOne to the new StellarOne instance.

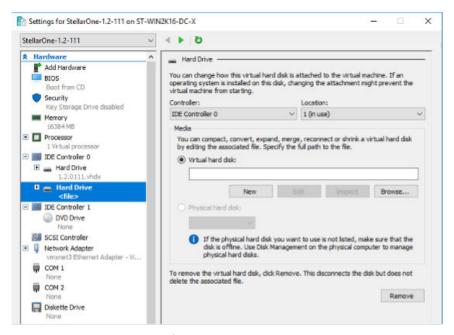


FIGURE 5-5. Shut Down the Previous VM

- The data of the previous StellarOne instance will be migrated to new StellarOne instance.
- **6.** The IP address of the new StellarOne instance must be the same as that of the previous StellarOne instance. If not, manually configure the IP

- address so the new StellarOne instance and agents can be connected to each other. Next time when the agents synchronize their status with the server, they will connect to the new StellarOne. By default, the agents synchronize with the server every 20 minutes.
- 7. If the proxy or scan component update source has already been defined in the previous StellarOne instance, please define it again via the web GUI of the new StellarOne instance.
- **8.** If you want to change the language setting to Japanese for the new StellarOne instance, see *Changing Language Settings via CLI on page 4-11*.

## **Chapter 6**

## **Technical Support**

Support for TXOne Networks products is provided mutually by TXOne Networks and Trend Micro. All technical support goes through TXone and Trend Micro engineers.

Learn about the following topics:

- Troubleshooting Resources on page 6-2
- Contacting Trend Micro and TXOne on page 6-3
- Sending Suspicious Content to Trend Micro on page 6-5
- Other Resources on page 6-6

## **Troubleshooting Resources**

Before contacting technical support, consider visiting the following Trend Micro online resources.

## **Using the Support Portal**

The Trend Micro Support Portal is a 24x7 online resource that contains the most up-to-date information about both common and unusual problems.

### **Procedure**

- 1. Go to <a href="https://success.trendmicro.com">https://success.trendmicro.com</a>.
- 2. Select from the available products or click the appropriate button to search for solutions.
- **3.** Use the **Search Support** box to search for available solutions.
- **4.** If no solution is found, click **Contact Support** and select the type of support needed.



### Tip

To submit a support case online, visit the following URL:

https://success.trendmicro.com/smb-new-request

A Trend Micro support engineer investigates the case and responds in 24 hours or less.

## **Threat Encyclopedia**

Most malware today consists of blended threats, which combine two or more technologies, to bypass computer security protocols. Trend Micro and TXOne combats this complex malware with products that create a custom

defense strategy. The Threat Encyclopedia provides a comprehensive list of names and symptoms for various blended threats, including known malware, spam, malicious URLs, and known vulnerabilities.

Go to <a href="https://www.trendmicro.com/vinfo/us/threat-encyclopedia/#malware">https://www.trendmicro.com/vinfo/us/threat-encyclopedia/#malware</a> and <a href="https://www.encyclopedia.txone.com/">https://www.encyclopedia.txone.com/</a> to learn more about:

- Malware and malicious mobile code currently active or "in the wild"
- Correlated threat information pages to form a complete web attack story
- Internet threat advisories about targeted attacks and security threats
- Web attack and online trend information
- Weekly malware reports

## **Contacting Trend Micro and TXOne**

In the United States, Trend Micro and TXOne representatives are available by below contact information:

**TABLE 6-1. Trend Micro Contact Information** 

Address	Trend Micro, Incorporated
	225 E. John Carpenter Freeway, Suite 1500
	Irving, Texas 75062 U.S.A.
Phone	Phone: +1 (817) 569-8900
	Toll-free: (888) 762-8736
Website	https://www.trendmicro.com
Email address	support@trendmicro.com

**TABLE 6-2. TXOne Contact Information** 

Address	TXOne Networks, Incorporated	
	222 West Las Colinas Boulevard, Suite 1650	
	Irving, TX 75039 U.S.A	
Website	https://www.txone.com	
Email address	support@txone.com	

Worldwide support offices:

https://www.trendmicro.com/us/about-us/contact/index.html
https://www.txone.com/contact/

Trend Micro product documentation:

https://docs.trendmicro.com

## **Speeding Up the Support Call**

To improve problem resolution, have the following information available:

- Steps to reproduce the problem
- · Appliance or network information
- Computer brand, model, and any additional connected hardware or devices
- Amount of memory and free hard disk space
- · Operating system and service pack version
- Version of the installed agent
- Serial number or Activation Code
- · Detailed description of install environment
- Exact text of any error message received

## **Sending Suspicious Content to Trend Micro**

Several options are available for sending suspicious content to Trend Micro for further analysis.

### **Email Reputation Services**

Query the reputation of a specific IP address and nominate a message transfer agent for inclusion in the global approved list:

https://ers.trendmicro.com/

Refer to the following Knowledge Base entry to send message samples to Trend Micro:

http://esupport.trendmicro.com/solution/en-US/1112106.aspx

## **File Reputation Services**

Gather system information and submit suspicious file content to Trend Micro:

https://success.trendmicro.com/solution/1059565

Record the case number for tracking purposes.

## **Web Reputation Services**

Query the safety rating and content type of a URL suspected of being a phishing site, or other so-called "disease vector" (the intentional source of Internet threats such as spyware and malware):

https://global.sitesafety.trendmicro.com/

If the assigned rating is incorrect, send a re-classification request to Trend Micro.

### **Other Resources**

In addition to solutions and support, there are many other helpful resources available online to stay up to date, learn about innovations, and be aware of the latest security trends.

### **Download Center**

From time to time, TXOne Networks may release a patch for a reported known issue or an upgrade that applies to a specific product or service. To find out whether any patches are available, go to:

https://www.trendmicro.com/download/

If a patch has not been applied (patches are dated), open the Readme file to determine whether it is relevant to your environment. The Readme file also contains installation instructions.

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### **TXONE NETWORKS INCORPORATED**

222 West Las Colinas Boulevard, Suite 1650 Irving, TX 75039 U.S.A Email: support@txone.com