

Hewlett Packard Enterprise

Installation and configuration Guide for Frame

HPE SYNERGY 12000



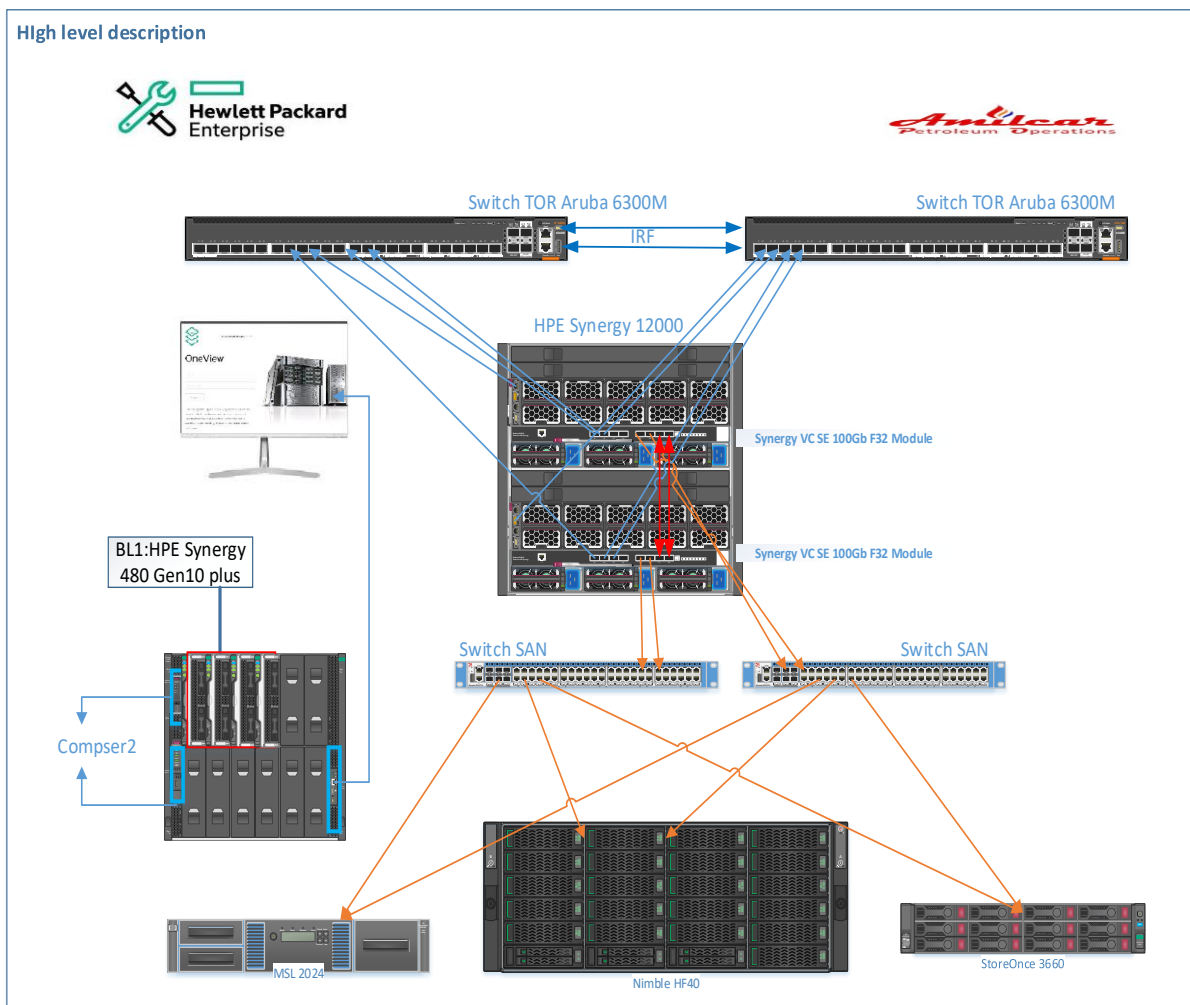
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1. Objective

This document provides instructions for installing and configuring the HPE SYNERGY frame

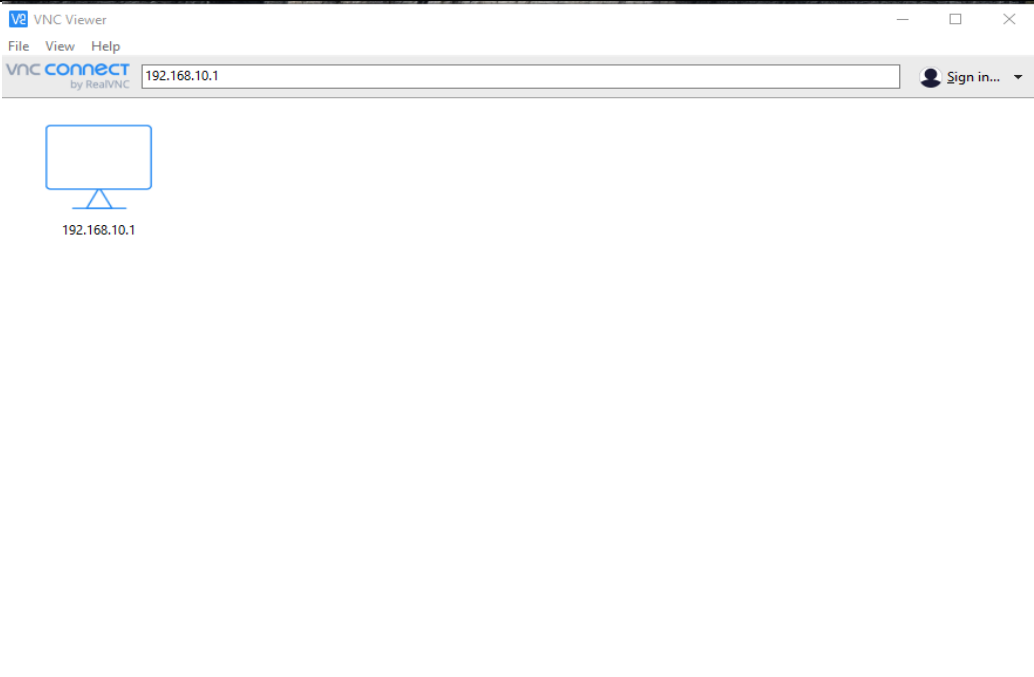
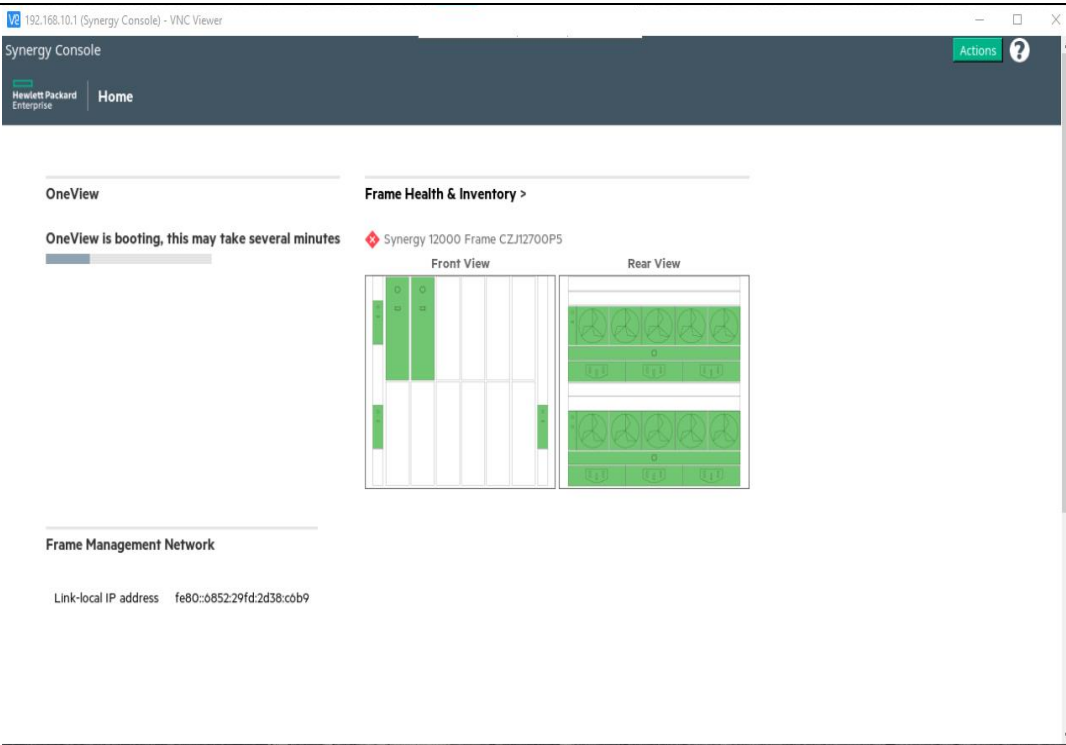
2. HLD Architecture



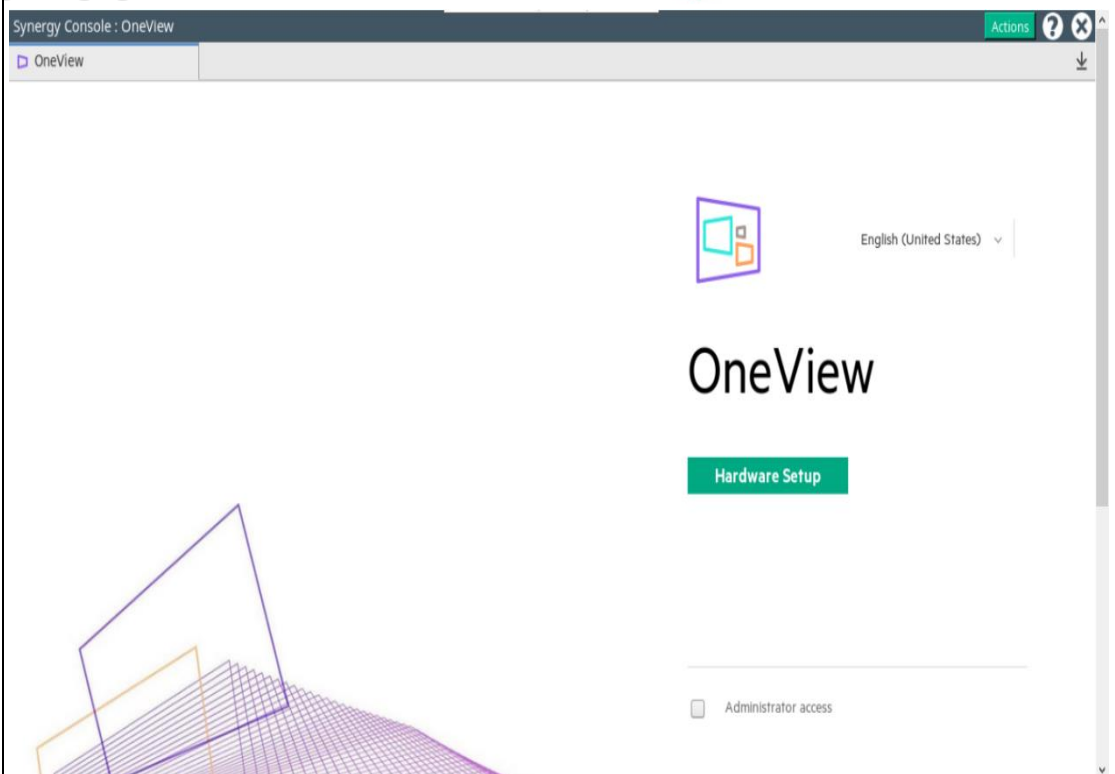
3. Port connections

HPE Synergy SFAX	Virtual Connect		port	Switch
	VC3	Q1 (LAN)	3	Core LAN
		Q2 (LAN)	4	Core LAN
		Q3	1	Switch SAN 1
		Q4	2	Switch SAN1
		Q5		
		Q6		
	VC6	Q1 (LAN)	5	Core LAN
		Q2 (LAN)	6	Core LAN
		Q3	1	Switch SAN 2
		Q4	2	Switch SAN 2
		Q5		
		Q6		
	MGMT	FLM 1	1	Core LAN
		FLM 2	2	Core LAN

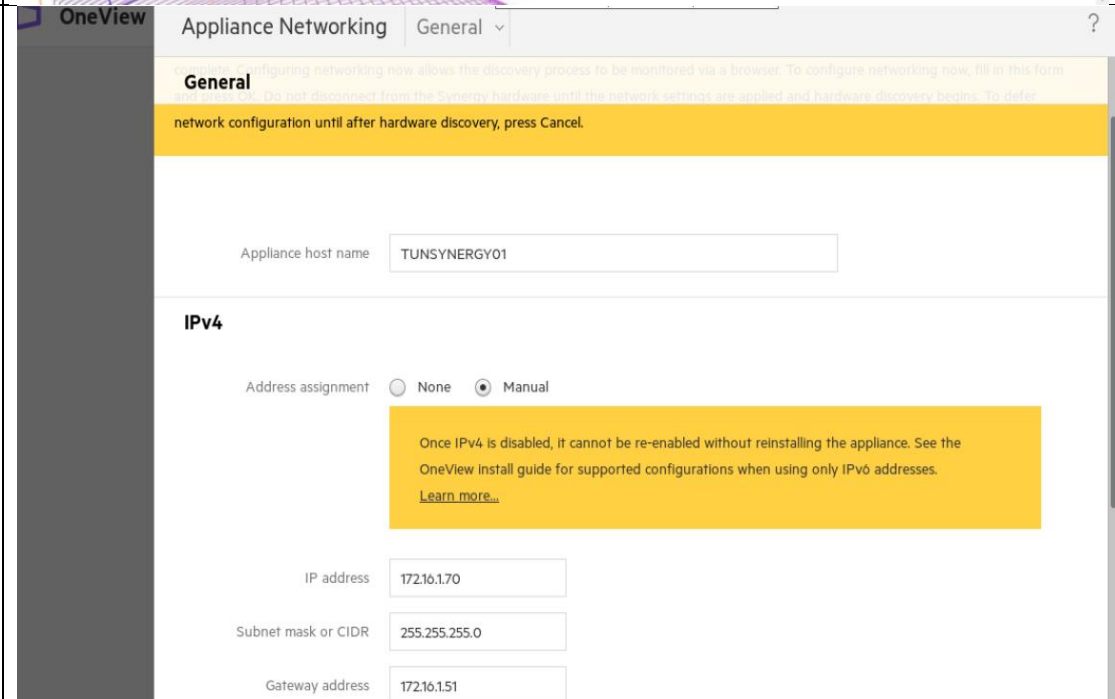
4. HPE SYNERGY Frame Initialization

<div> - Access the HPE Synergy Console using the VNC Viewer. </div>	<div>  </div>
<div> - Connect to the Synergy Console and launch “Hardware Setup procedure” through Frame Health & Inventory-- Connect </div>	<div>  </div>

- Connect to HPE OneView and select Hardware Setup.

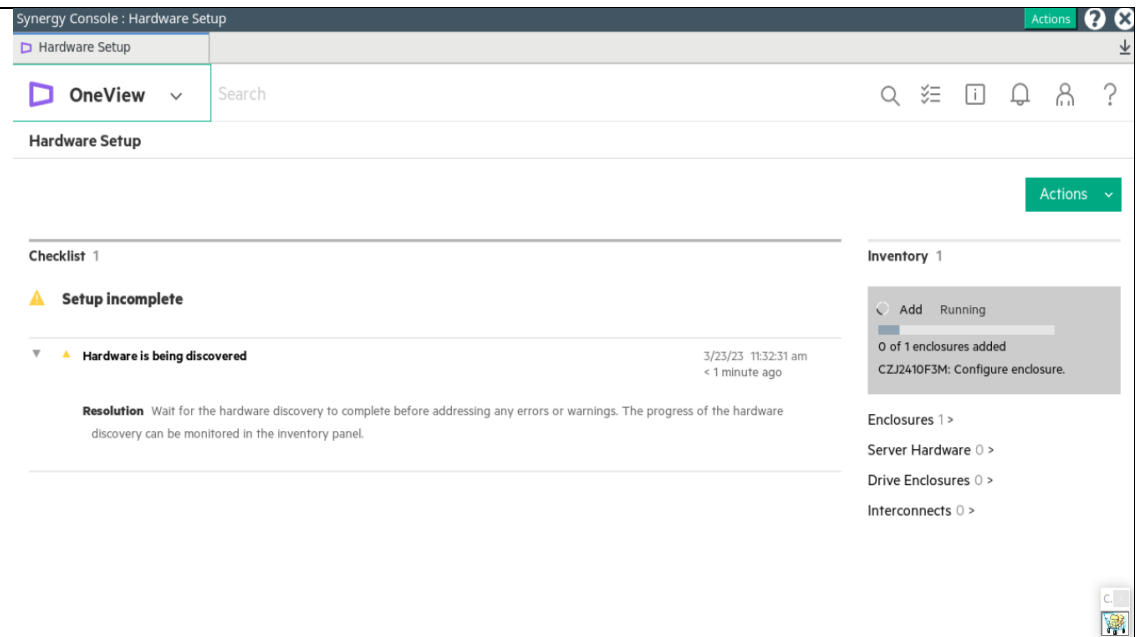


- Configure the necessary Synergy network settings. - Specify the IP address as well as the two service addresses, subnet mask and gateway.

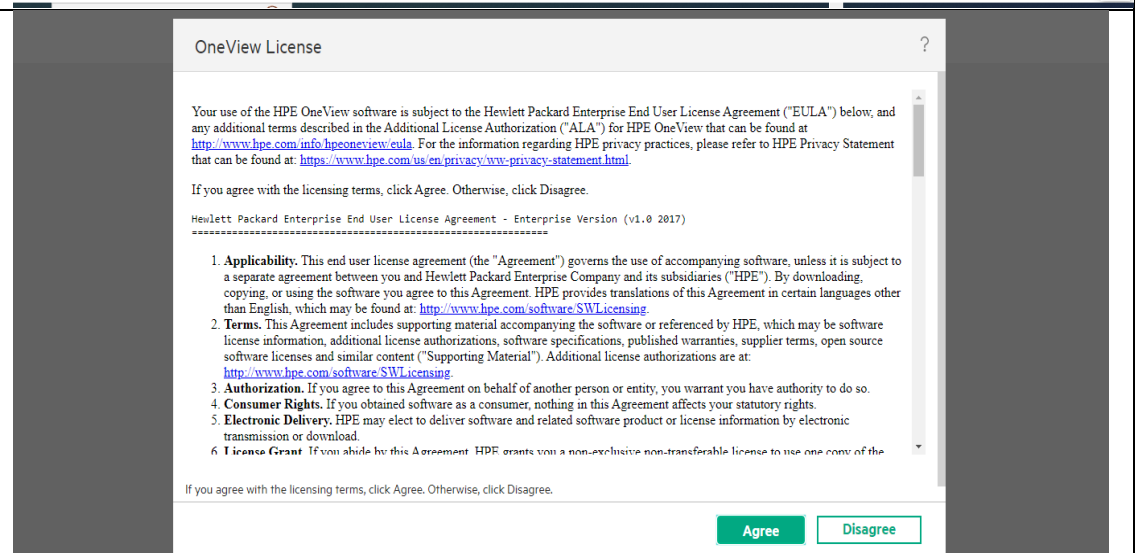


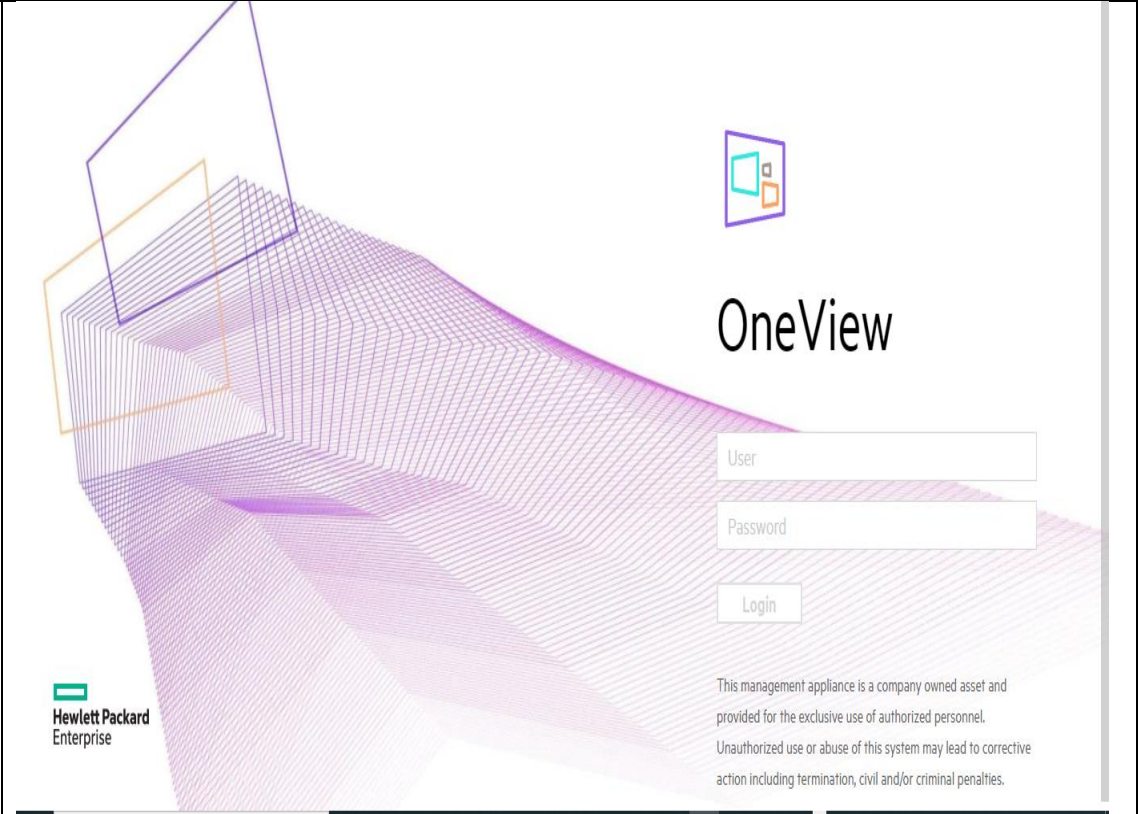
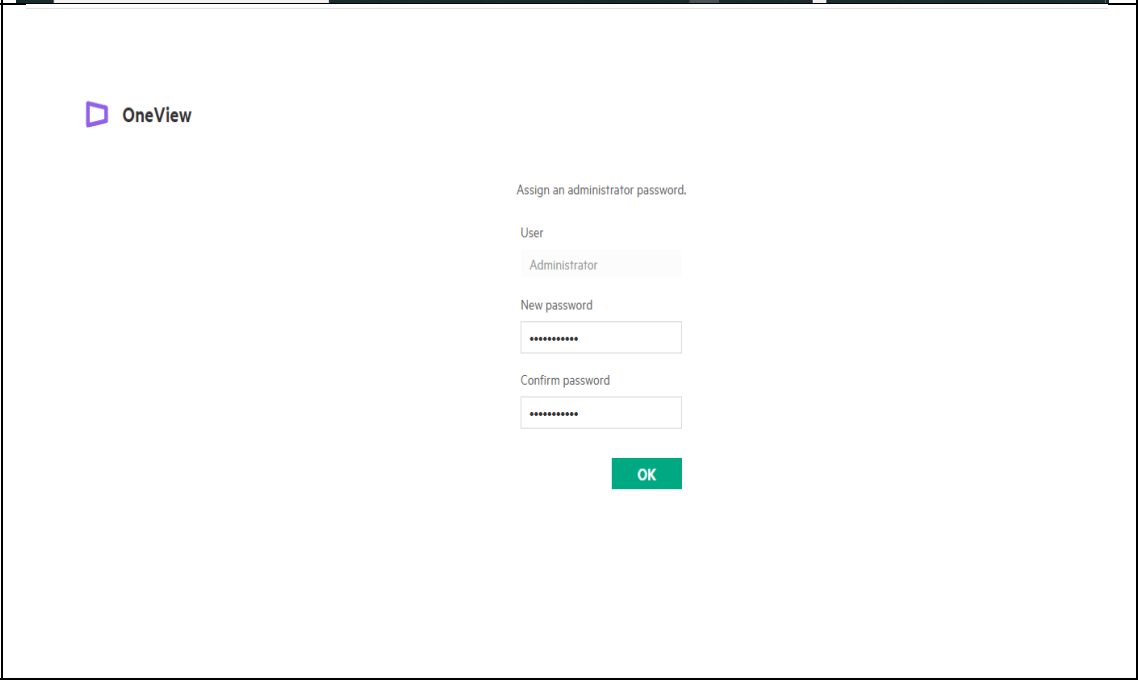
<div>- Add the two DNS servers (primary and secondary).</div>	<div><div><div>IPv4</div><div><div>Address assignment</div><div><div><div><div></div></div><div>None</div></div><div><div><div></div></div><div>Manual</div></div></div></div><div><div>Once IPv4 is disabled, it cannot be re-enabled without reinstalling the appliance. See the OneView install guide for supported configurations when using only IPv6 addresses. Learn more...</div></div><div><div>IP address</div><div>172.16.1.70</div></div><div><div>Subnet mask or CIDR</div><div>255.255.255.0</div></div><div><div>Gateway address</div><div>172.16.1.51</div></div><div><div>Maintenance IP address 1</div><div>172.16.1.71</div><div>active</div><div>Required</div></div><div><div>Maintenance IP address 2</div><div>172.16.1.72</div><div>standby</div><div>Required</div></div></div><div><div>IPv6</div><div><div>Address assignment</div><div><div><div><div></div></div><div>None</div></div><div><div><div></div></div><div>Manual</div></div></div></div></div><div><div><div><div></div><div>7</div></div><div>Changed: Preferred DNS server to "10.100.1.21"</div><div><div>OK</div><div>Cancel</div></div></div></div></div>
<div>- Wait for the network settings application to finish</div>	<div><div>Applying network settings.</div><div></div><div><div>Browser will be redirecting to the new settings shortly.</div><div>You may need to accept certificate warnings when the browser refreshes. You may need to refresh or restart the browser for the connection to the site to be shown as secure.</div></div></div>

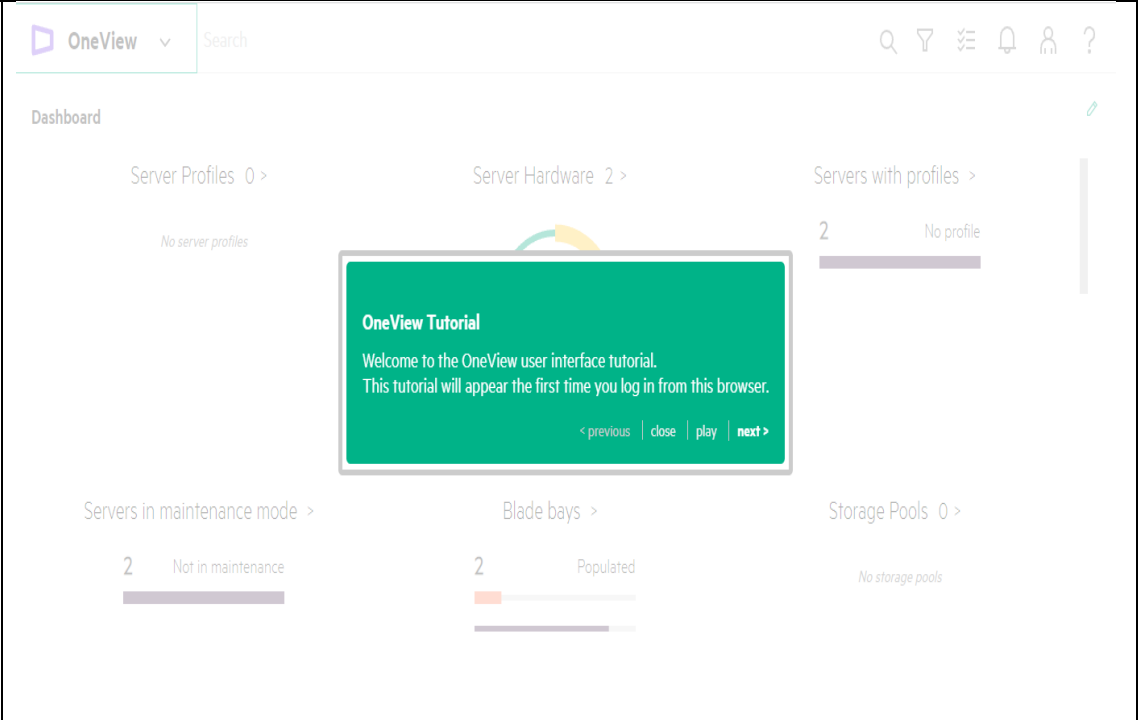
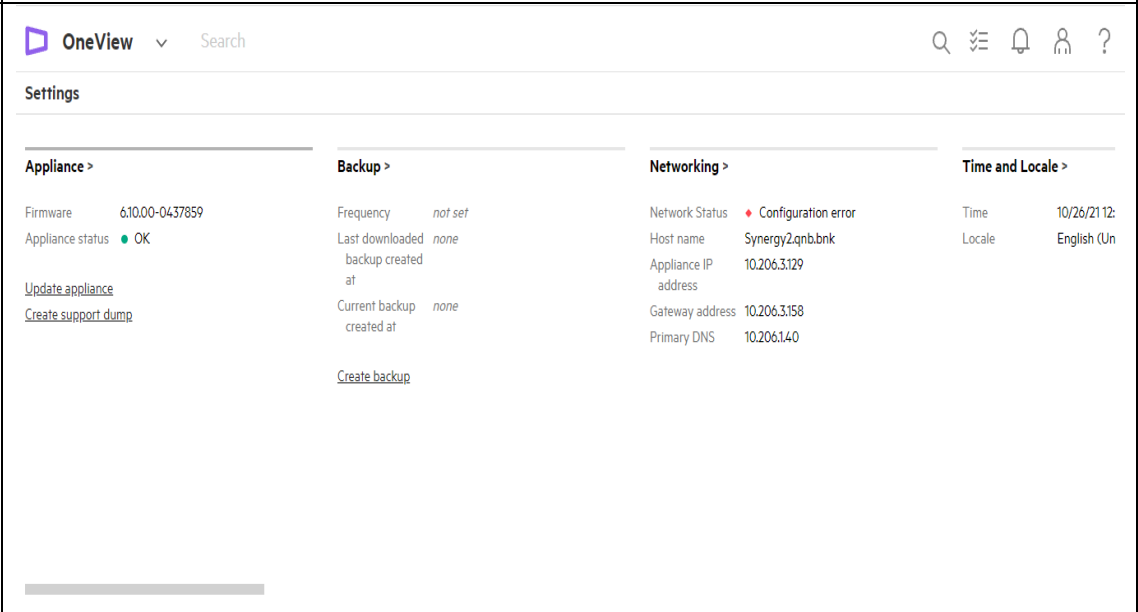
- Wait until the hardware discovery to complete



-Agree with OneView licensing terms .

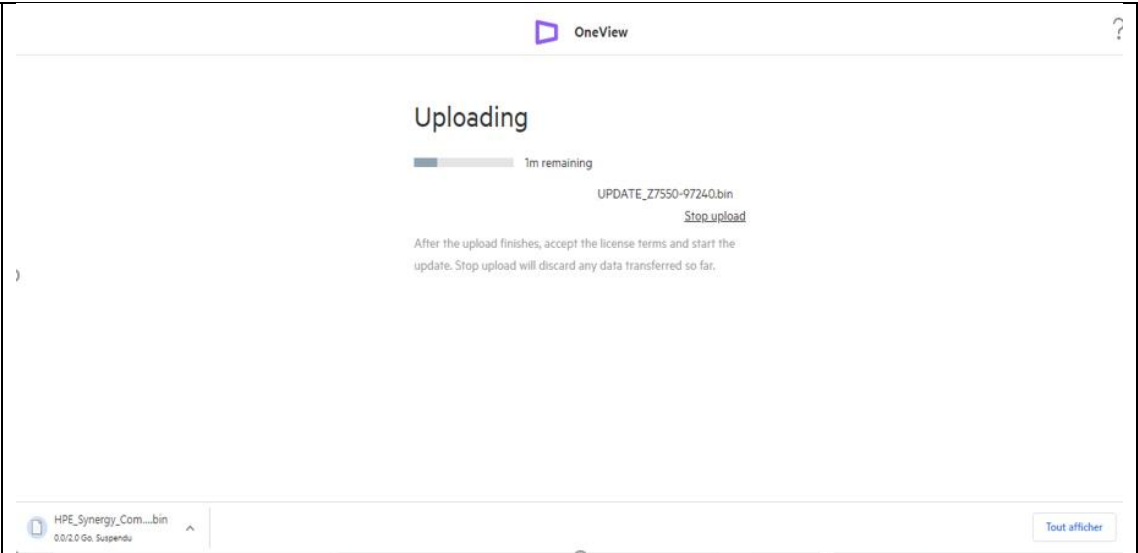


<p>- Log in to the HPE OneView management interface using default credentials.</p>	
<p>-change the default password</p>	

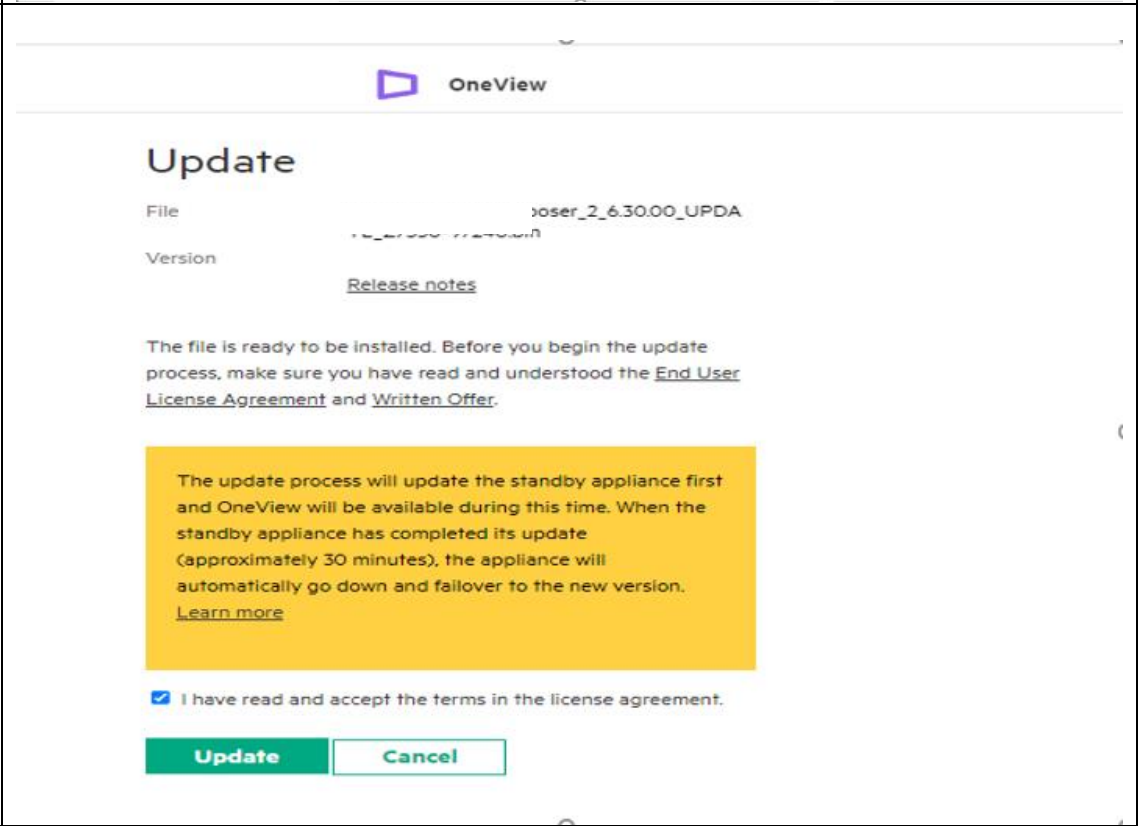
<p>-Access to Onview Dashboard</p>	
<p>- Choose Update appliance at Appliance > Settings level. The version is 6.5</p>	

<p>- Select the update image after downloading it</p>	<div> <div> Update Appliance ? </div> <div> <p>A backup has not been downloaded for this appliance. Create a new backup and download it prior to updating the appliance.</p> <p>High availability will be disabled during the appliance update.</p> <p>Appliance login might be unavailable for an hour or more. Apparent pauses in progress are expected.</p> <p>Before updating the appliance, it is recommended to run the HPE OneView Update Readiness Checker, which will check for known update issues on the appliance. Get the latest version of the checker.</p> <p>Get latest updates</p> <div> <input checked="" type="radio"/> Select an update image <input type="radio"/> Update from uploaded image </div> <div> <div>Upload</div> <div>Cancel</div> </div> </div> </div>
<p>-choose Upload the image file and wait for a prompt to install it and click Upload</p>	<div> <div> Update Appliance ? </div> <div> <p>Before updating the appliance, it is recommended to run the HPE OneView Update Readiness Checker, which will check for known update issues on the appliance. Get the latest version of the checker.</p> <p>Get latest updates</p> <div> <input checked="" type="radio"/> Select an update image <input type="radio"/> Update from uploaded image </div> <div> <div> HPE_Synergy_Composer_2_6.30.00_UP 2.02 GB Browse </div> <div>DATE_Z7550-97240.bin</div> </div> <div> Select how to upload <div> <input checked="" type="radio"/> Upload the image file and wait for a prompt to install it <input type="radio"/> Upload the image file in the background for later installation </div> </div> <div> <div>Upload</div> <div>Cancel</div> </div> </div> </div>

- Wait for the image to finish downloading

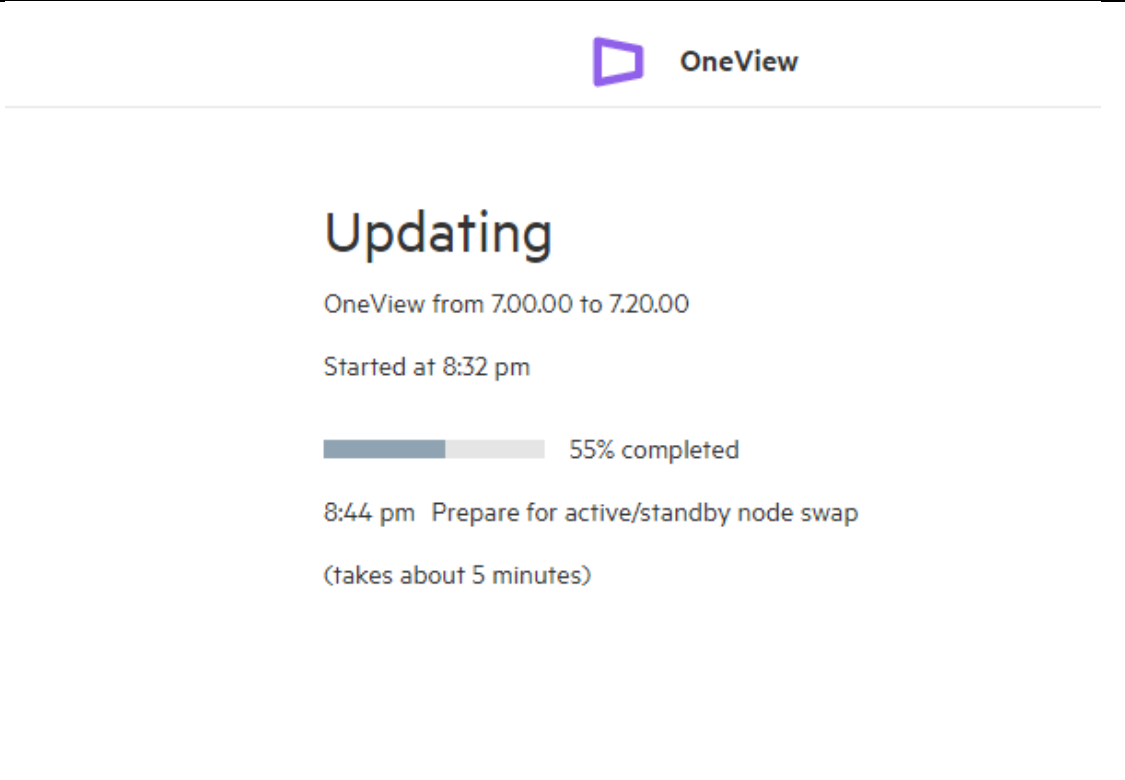


-Accept the terms in the license agreement and click Update



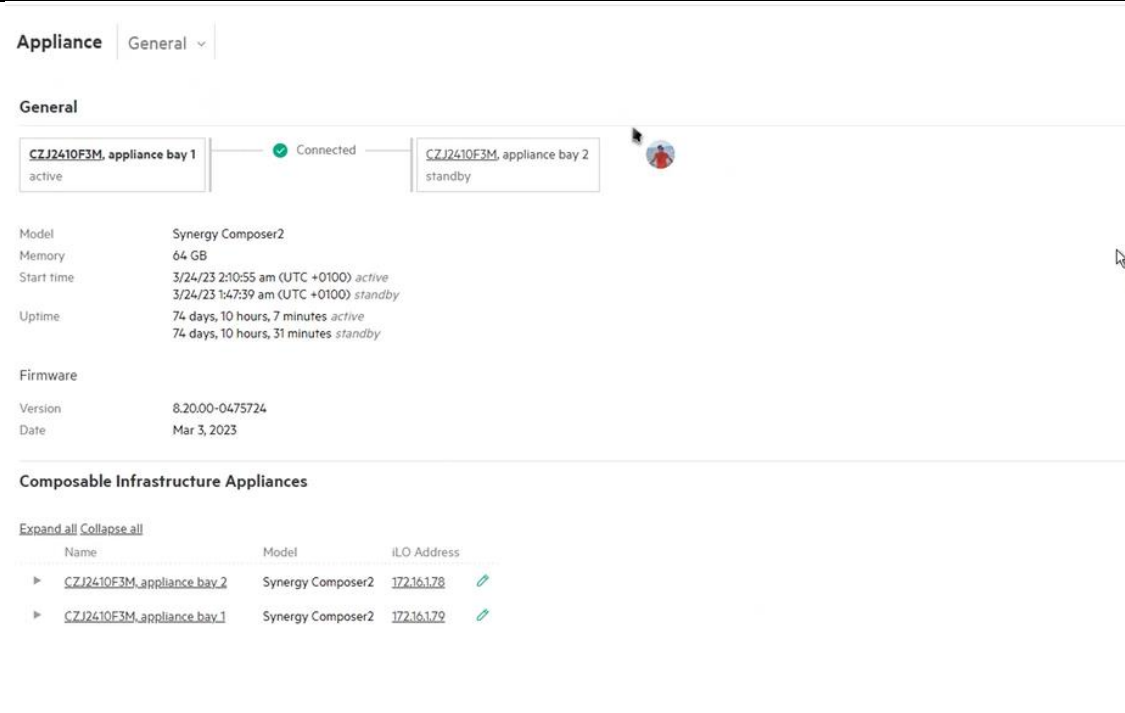
-Click yes update	<div> <div>OneView</div> <div>Update</div> <div> <div>File</div> <div>HPE_Synergy_Composer2_7.20.00_Update_Z7550-97427.bin</div> </div> <div> <div>Version</div> <div>7.20.00-0467548</div> <div>Release notes</div> </div> <div> <p>The file is ready to be installed. Before you begin the update process, make sure you have read and understood the End User License Agreement and Written Offer.</p> <div> <p>The update process will update the standby appliance first and OneView will be available during this time. When the standby appliance has completed its update (approximately 30 minutes), the appliance will automatically go down and failover to the new version. Learn more</p> </div> <div> <input checked="" type="checkbox"/> I have read and accept the terms in the license agreement. </div> <div> <div>Update</div> <div>Cancel</div> </div> </div> </div>
- Monitor the progress of the update	<div> <div>OneView</div> <div>Updating</div> <div> <div>OneView from 6.50.00 to 7.00.00</div> <div>Started at 3:14 pm</div> <div> <div></div> <div>60% completed</div> </div> <div>3:30 pm Swap active/standby nodes</div> <div>(takes about 15 minutes)</div> </div> </div>

-when the update process from 6.5 to 7.0 ,is accomplished. Update again the Oneview Appliance To version 7.2 then to version 8.2



The screenshot shows the OneView 'Updating' screen. At the top, there's a purple OneView logo. The main heading is 'Updating'. Below it, the text reads 'OneView from 7.00.00 to 7.20.00'. The update started at 8:32 pm. A progress bar indicates 55% completion. The current status is '8:44 pm Prepare for active/standby node swap' with a note '(takes about 5 minutes)'.

The version of HPE OneView is 8.2



The screenshot shows the 'Appliance' page in the OneView console, specifically the 'General' tab. It displays two appliances: 'CZJ2410F3M, appliance bay 1' (active) and 'CZJ2410F3M, appliance bay 2' (standby), connected by a 'Connected' line. Below this, system details are listed: Model (Synergy Composer2), Memory (64 GB), Start time (3/24/23 2:10:55 am UTC +0100 active, 3/24/23 1:47:39 am UTC +0100 standby), Uptime (74 days, 10 hours, 7 minutes active, 74 days, 10 hours, 31 minutes standby), and Firmware (Version 8.20.00-0475724, Date Mar 3, 2023). At the bottom, a table titled 'Composable Infrastructure Appliances' lists the same two appliances with their iLO addresses (172.16.178 and 172.16.179).

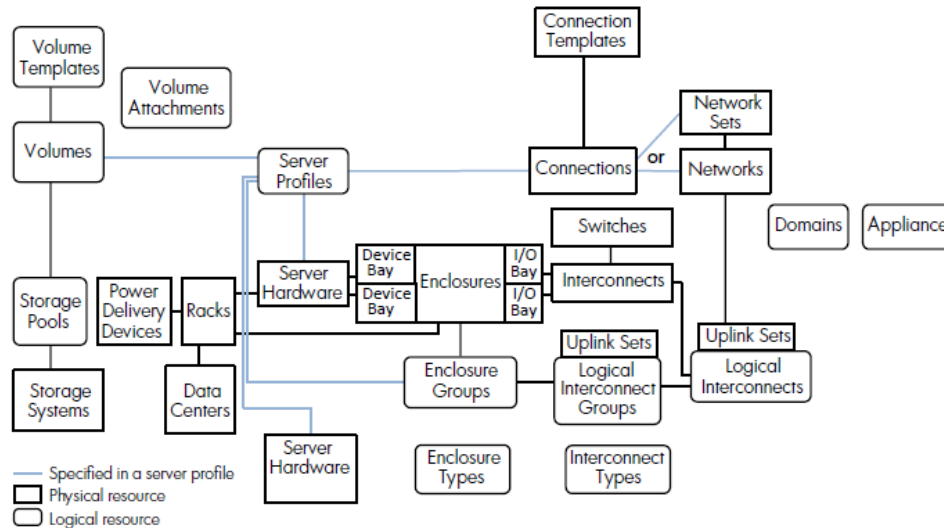
Name	Model	iLO Address
CZJ2410F3M, appliance bay 2	Synergy Composer2	172.16.178
CZJ2410F3M, appliance bay 1	Synergy Composer2	172.16.179

5. HPE OneView Management Console

HPE OneView uses a resource model that reduces complexity and simplifies managing your data center. This pattern provides logical resources, including models, groups, and sets, which when applied to physical resources provides a common structure across your data center.

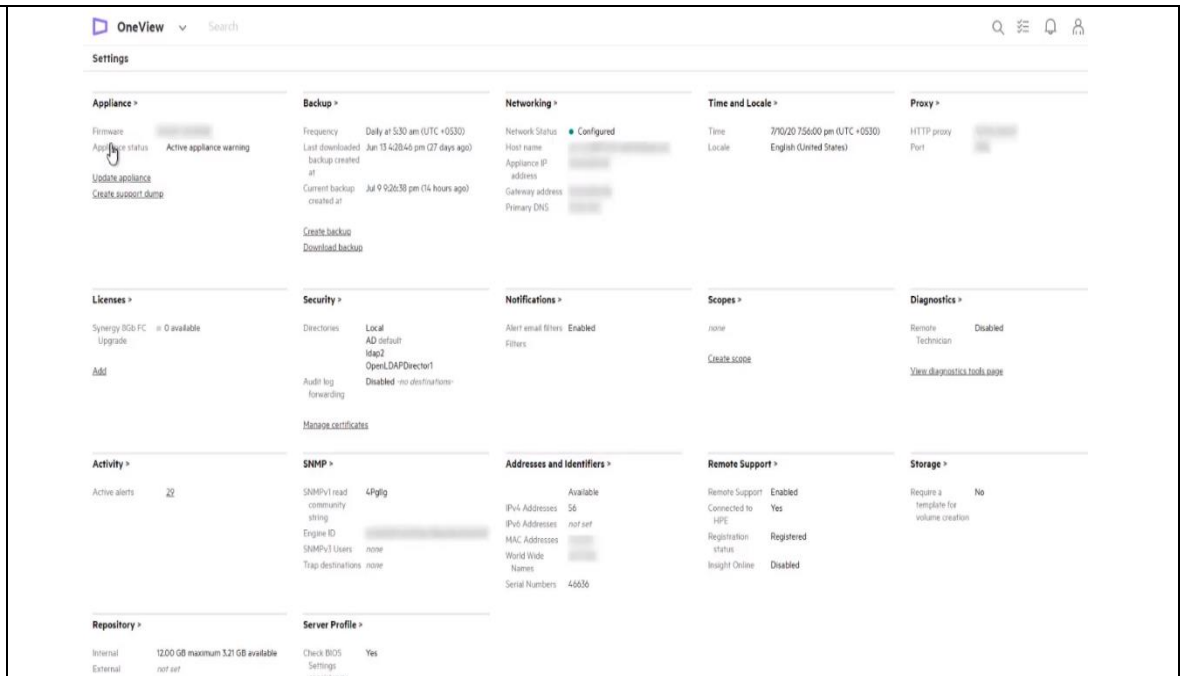
Summary diagram of resource models

The following figure summarizes some of the most frequently used resources and shows the relationships between them.



a. Set IP address and subnet ranges

Connect to the HPE Oneview management console, Select Settings then Addresses & Identifiers



The screenshot shows the HPE OneView Settings page. The 'Addresses and Identifiers' section is highlighted, showing the following configuration:

- Network Status:** Configured
- Host name:** [Redacted]
- Appliance IP address:** [Redacted]
- Gateway address:** [Redacted]
- Primary DNS:** [Redacted]

Other visible settings include:

- Appliance:** Firmware, Appliance status (Active appliance warning), Update appliance, Create support dump.
- Backup:** Frequency (Daily at 5:30 am (UTC+0530)), Last downloaded backup created at (Jun 15 4:28:40 pm (27 days ago)), Current backup created at (Jul 9 9:26:38 pm (14 hours ago)), Create backup, Download backup.
- Licenses:** Synergy BCB FC, in 0 available, Upgrade, Add.
- Security:** Directories (Local, AD default, ldap2, OpenLDAPDirector1), Audit log forwarding (Disabled - no destinations), Manage certificates.
- SNMP:** SNMPv1 read community string (Lifgig), Engine ID ([Redacted]), SNMPv3 Users (none), Trap destinations (none).
- Activity:** Active alerts (22).
- Repository:** Internal (1200 GB maximum 321 GB available), External (not set).
- Server Profile:** Check BIOS (Yes), Settings consistency.
- Time and Locale:** Time (3/10/20 7:56:00 pm (UTC+0530)), Locale (English (United States)).
- Proxy:** HTTP proxy ([Redacted]), Port ([Redacted]).
- Notifications:** Alert email filter (Enabled), Filters.
- Scopes:** none, Create scope.
- Diagnostics:** Remote Technician (Disabled), View diagnostics tools page.
- Remote Support:** Remote Support (Enabled), Connected to HPE (Yes), Registration status (Registered), Insight Online (Disabled).
- Storage:** Require a template for volume creation (No).

Choose Add IPV4 subnet and address range

Edit Addresses and IdentifiersIPv4 Subnets and Address Ranges?

IPv4 Subnets and Address Ranges

Subnet ID	Subnet Mask	Gateway	Domain	DNS Servers		
172.16.1.0	255.255.255.0	172.16.1.51	none	10.100.1.21 10.72.8.10		

▼ Address Ranges

Available addresses 0

Name	Enabled	IP Addresses	Count	Allocated	Available
No address ranges defined					

Add IPv4 subnet and address range

IPv6 Subnets and Address Ranges

Subnet ID	Prefix Length	Gateway	Domain	DNS Servers
No subnets have been defined				

Add IPv6 subnet and address range

OK

Cancel

Edit 172.16.1.0?

Subnet ID172.16.1.0

Subnet mask255.255.255.0

Gateway172.16.1.51

optional

Domain

optional

DNS10.100.1.21

optional

10.72.8.10

optional

optional

Address Ranges

Name	Start	End	IP Addresses
172.16.1.0 Range 1	172.16.1.80 - 172.16.1.100		

Add address range

Update

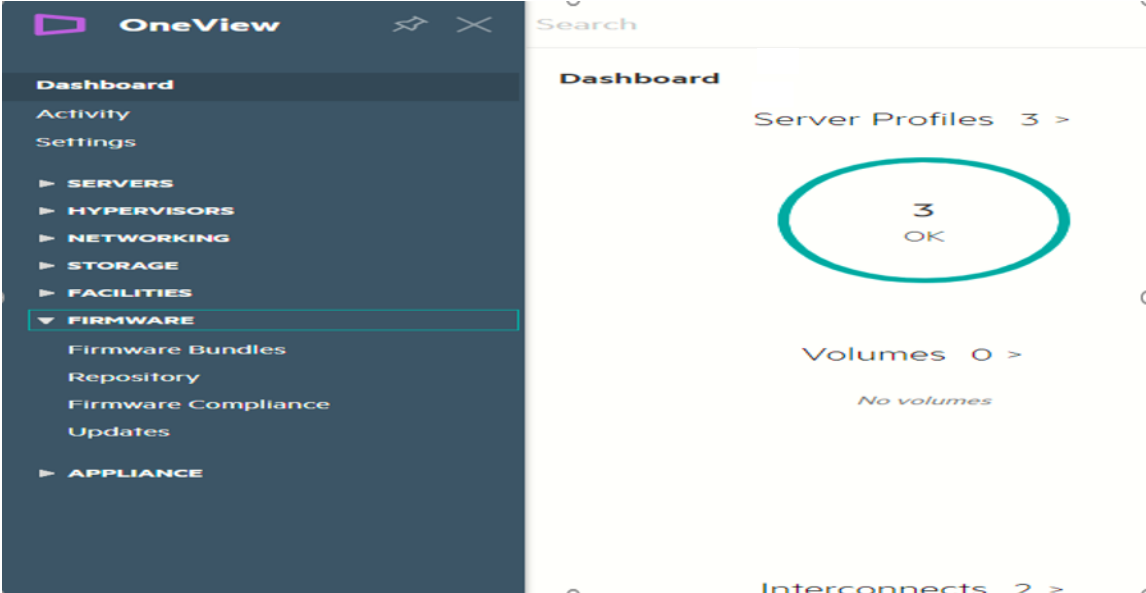
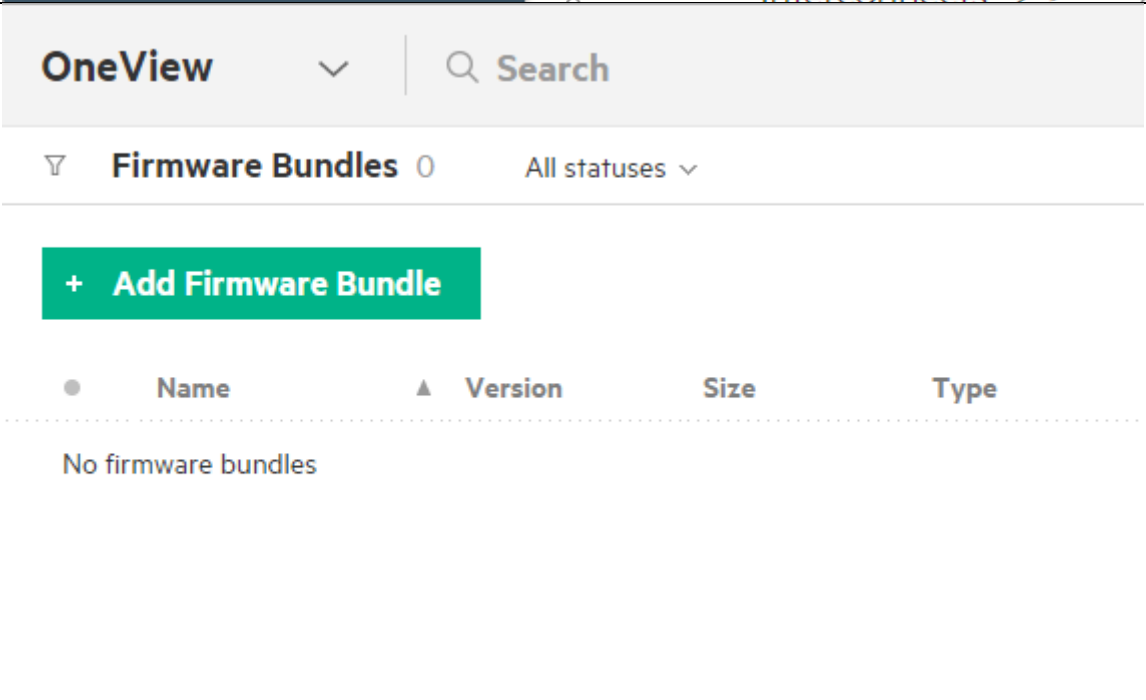
Cancel

p. 16

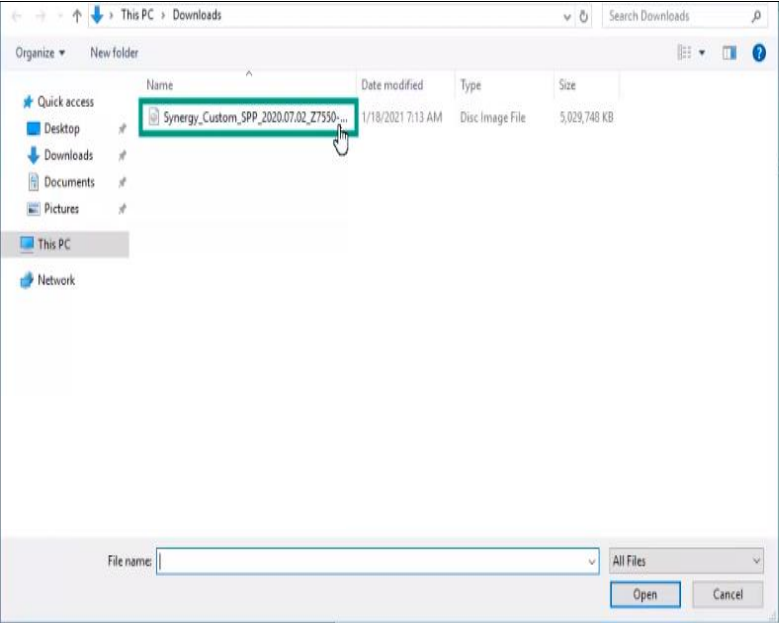
b. Firmware Bundle Synergy service Pack

A firmware bundle, also known as an SPP, is a comprehensive collection of firmware and system software components, all tested together as a single solution stack that includes drivers, agents, utilities, and firmware packages.

You can apply SPPs as baselines to frames, interconnects, and server profiles, establishing a desired version for firmware and drivers across devices. Each SPP deliverable contains the Smart Update Manager (SUM) and firmware smart components. Hot fixes are software and firmware component updates that have an additional release outside the normal SPP release cycle and that address specific issues. Each hot fix is listed on the "Hot Fix and Advisories" page associated with a specific SPP. These pages are available from the SPP download page at the site that is displayed on the slide

<p>In the main menu choose Appliance then Firmware Bundle</p>	
<p>Cliquer Add firmware Bundle</p>	

Choose SPP



Click OK in order to start Click Start upload.

Add Firmware Bundle

Synergy_Custom_SPP_2020.07.02_Z7550-97031.iso

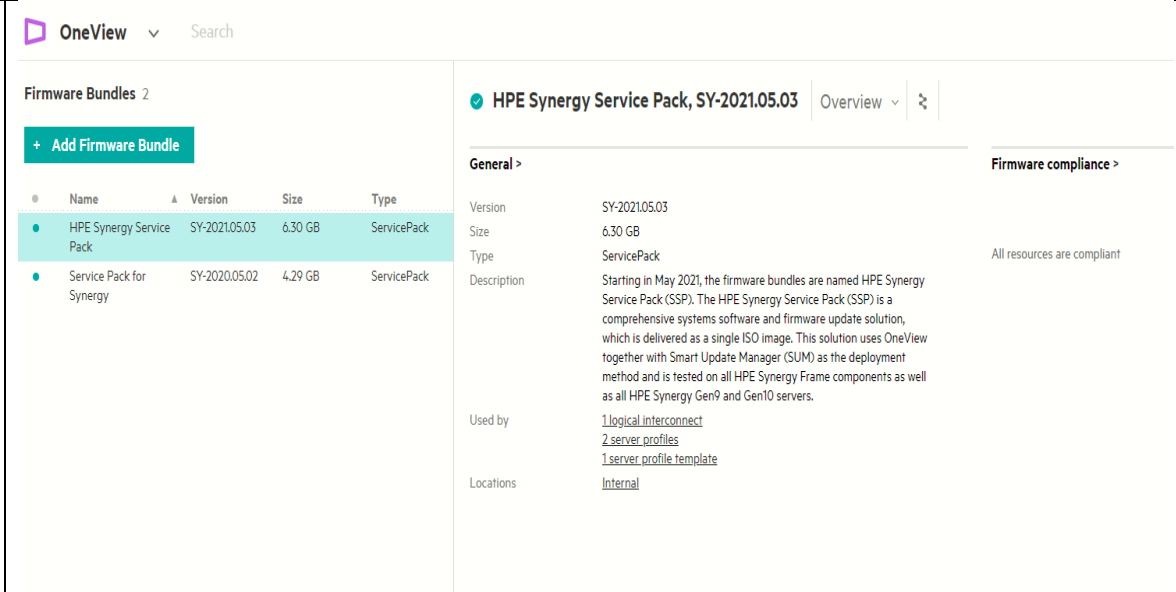
4.8 GB

Browse

OK

Close

Adding the SPP bundle is successfully completed



OneView Search

Firmware Bundles 2

+ Add Firmware Bundle

Name	Version	Size	Type
HPE Synergy Service Pack	SY-2021.05.03	6.30 GB	ServicePack
Service Pack for Synergy	SY-2020.05.02	4.29 GB	ServicePack

HPE Synergy Service Pack, SY-2021.05.03 Overview

General >

Version: SY-2021.05.03
 Size: 6.30 GB
 Type: ServicePack
 Description: Starting in May 2021, the firmware bundles are named HPE Synergy Service Pack (SSP). The HPE Synergy Service Pack (SSP) is a comprehensive systems software and firmware update solution, which is delivered as a single ISO image. This solution uses OneView together with Smart Update Manager (SUM) as the deployment method and is tested on all HPE Synergy Frame components as well as all HPE Synergy Gen9 and Gen10 servers.
 Used by: [1 logical interconnect](#), [2 server profiles](#), [1 server profile template](#)
 Locations: [Internal](#)

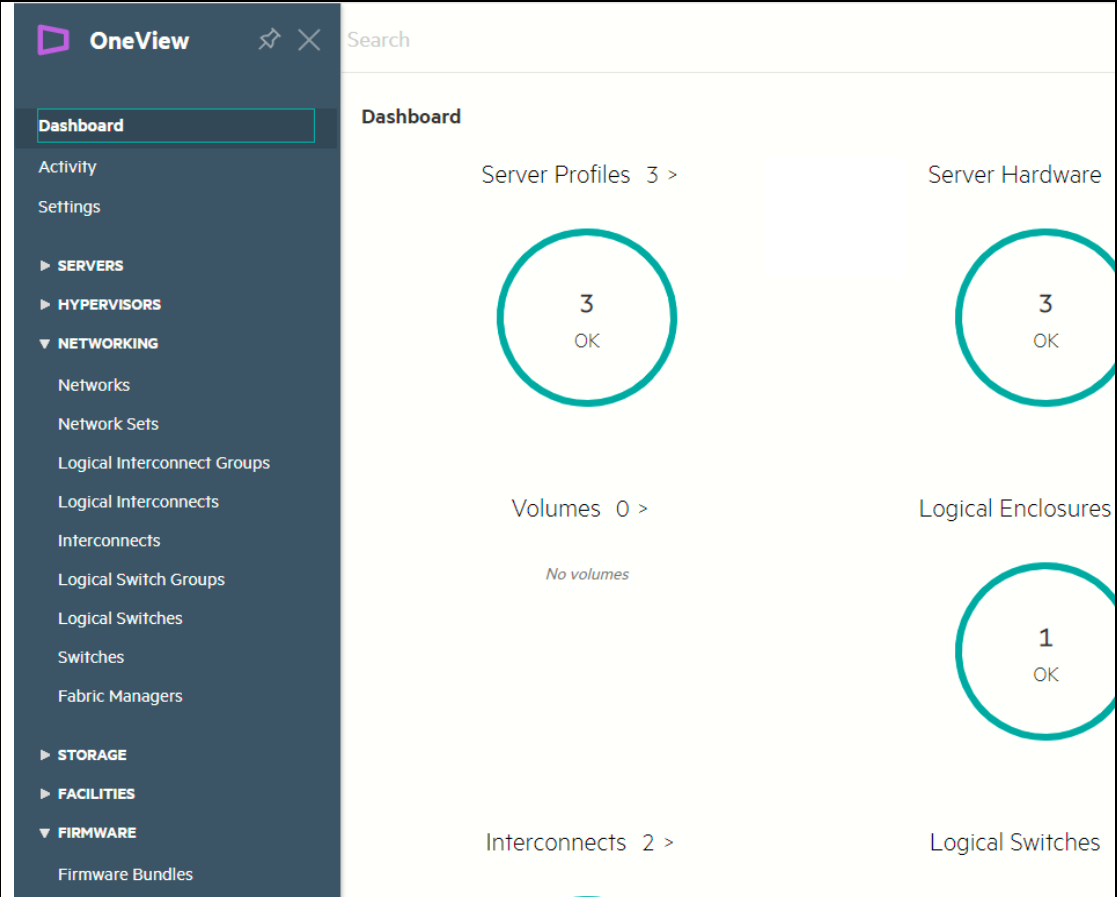
Firmware compliance >

All resources are compliant

c. Configuring Networks and Network Set

i. Configuring Ethernet networks

In the main menu, select Networks then click on + Create network
 The Create network dialog opens



OneView Search

Dashboard

Activity
Settings

SERVERS
HYPERVISORS
NETWORKING
 Networks
 Network Sets
 Logical Interconnect Groups
 Logical Interconnects
 Interconnects
 Logical Switch Groups
 Logical Switches
 Switches
 Fabric Managers

STORAGE
FACILITIES
FIRMWARE
 Firmware Bundles

Server Profiles 3 >

3 OK

Server Hardware

3 OK

Volumes 0 >

No volumes

Logical Enclosures

1 OK

Interconnects 2 >

Logical Switches

Create Ethernet Network

For Name: VLAN2009-VM-PROD2

Type **Ethernet**.

For VLAN, select **Tagged**

For VLAN ID (ID de VLAN), enter **ID**

For Purpose General

Name

VLAN2009-VM-PROD02

A unique, descriptive name for the network

Type

Ethernet

VLAN

2009

Associate with IPv4 subnet ID

none

Associate with IPv6 subnet ID

none

Purpose

General

Preferred bandwidth

2.5

Gb/s

Maximum bandwidth

50

Gb/s

☒ Smart link

☐ Private network

Vue of all networks created

Networks 9

+ Create network

	Name	VLAN	Type
	HD-VLAN2008-VM-PROD01	2008	Ethernet
	HD-VLAN2009-VM-PROD02	2009	Ethernet
	HD-VLAN2010-VM-NON-PROD	2010	Ethernet
	HD-VLAN-171-VM-MGMT	171	Ethernet
	HD-VLAN-2011-BACKUP	2011	Ethernet
	HD-VLAN-2019-VM-MGMT	2019	Ethernet
	SAN-A		FC
	SAN-B		FC
	Vmotion	Untagged	Ethernet

ii. Configuration SAN Fibre Channel Networks

From the main menu, select Networks then click + Create network in the main pane.
The Create network dialog opens.
2. For Name SAN-A enter FC For Type, select Fiber Channel.
For Fabric type, select Direct attach. For this datacenter, use the default values for the other attributes of configuration. Click Create +

Edit SAN-A?

Name

SAN-A

Type

Fibre Channel

Fabric type

Fabric attach

Associated SAN

none

Preferred bandwidth

8

Gb/s

Maximum bandwidth

50

Gb/s

Login redistribution

Auto

Link stability interval

30

seconds

Warning: This network is used by multiple server profiles

OK

Cancel

For Name SAN-B enter FC For Type, select Fiber Channel.
For Fabric type, select Direct attach. For this datacenter, use the default values for the other attributes of configuration. Click Create

Edit SAN-B

Name

SAN-B

Type

Fibre Channel

Fabric type

Fabric attach

Associated SAN

none

Preferred bandwidth

8

Gb/s

Maximum bandwidth

50

Gb/s

Login redistribution

Auto

Link stability interval

30

seconds

Warning: This network is used by multiple server profiles

OK

Cancel

Same procedure to create other networks

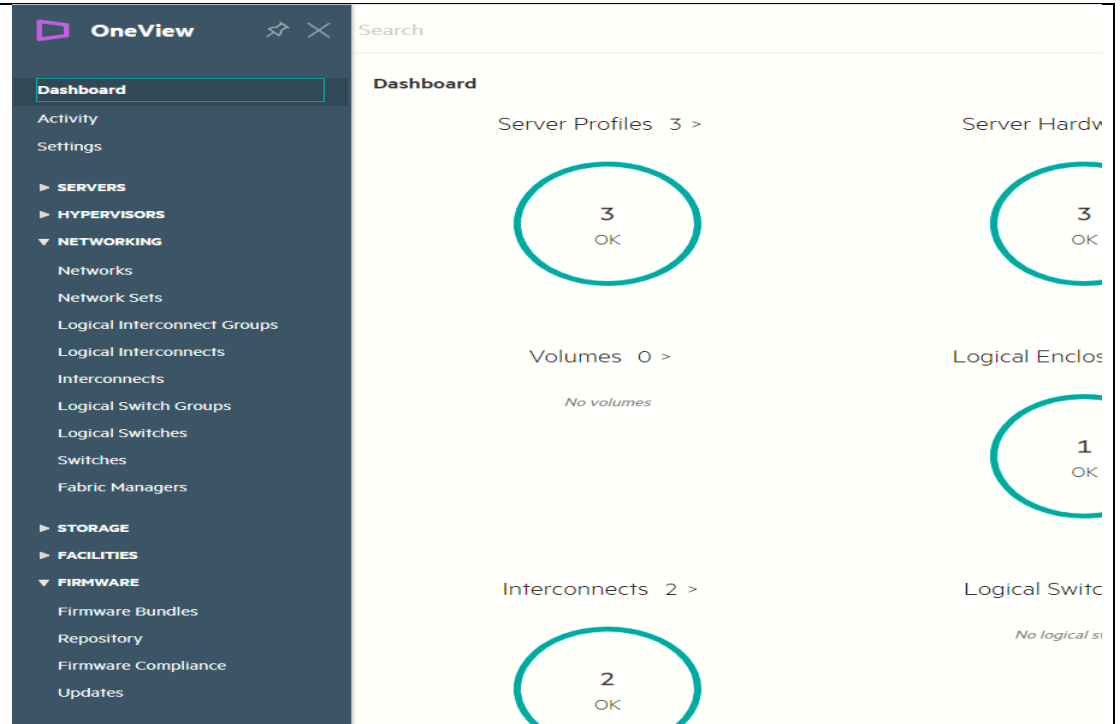
- **Site Sfax**

Network Name	VLAN	Ethernet/FC	Purpose
HD-VLAN2008-VM-PROD01	2008	Ethernet	General
HD-VLAN2009-VM-PROD02	2009	Ethernet	General
HD-VLAN2010-VM-NON-PROD	2010	Ethernet	General
HD-VLAN171-VM-MGMT	171	Ethernet	General
HD-VLAN-2011-BACKUP	2011	Ethernet	General
HD-VLAN-2019-VM-MGMT	2019	Ethernet	General
SAN-A		FC	
SAN-B		FC	
Vmotion	Untagged	Ethernet	VM Migration

iii. Configuration des ensembles de réseaux

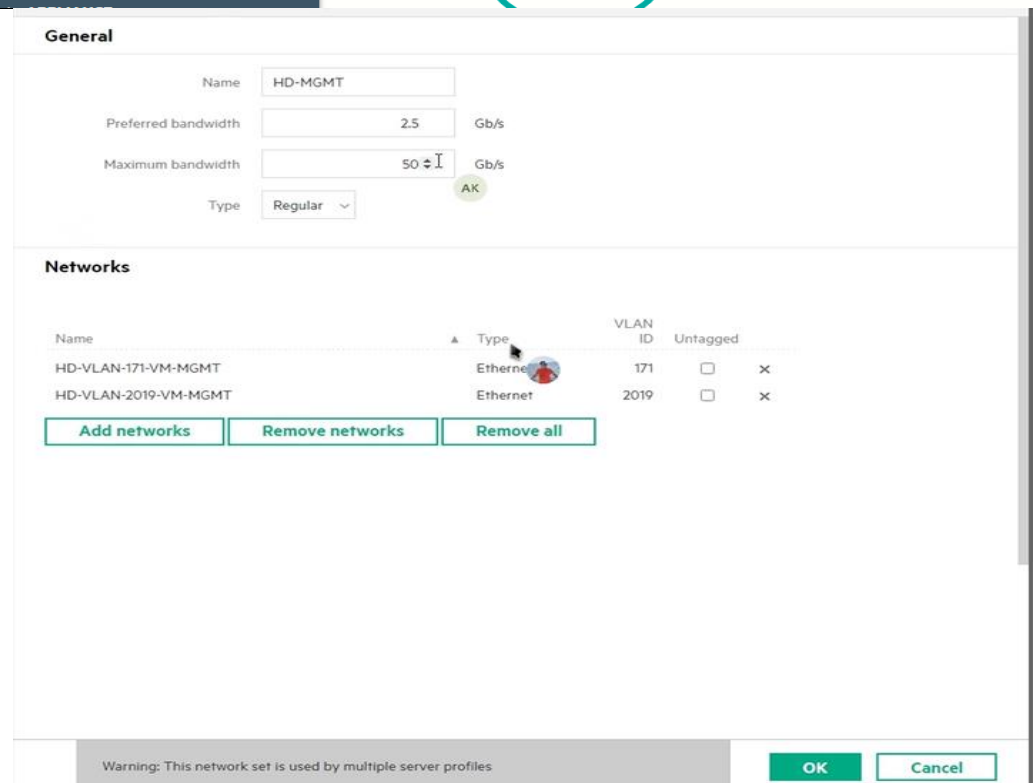
You use network sets to create multiple networks per connection. During this task, you will use the device's smart search capabilities to quickly narrow the list of networks that you add to the network set.

From Main Menu
Select Network Sets),
then click
network set.



The screenshot shows the OneView Dashboard. On the left is a navigation menu with categories: Dashboard, Activity, Settings, SERVERS, HYPERVISORS, NETWORKING (expanded), STORAGE, FACILITIES, and FIRMWARE. Under NETWORKING, 'Network Sets' is highlighted. The main dashboard area shows several metrics: 'Server Profiles' with a value of 3 (OK), 'Server Hardware' with a value of 3 (OK), 'Volumes' with a value of 0 (No volumes), 'Logical Enclosures' with a value of 1 (OK), 'Interconnects' with a value of 2 (OK), and 'Logical Switches' with a value of 0 (No logical switches). The 'Server Profiles' and 'Interconnects' values are circled in red.

Create Network set for
Management and for
Prod
and select Networks



The screenshot shows the 'General' tab of a Network Set configuration form. The 'Name' field is 'HD-MGMT'. The 'Preferred bandwidth' is set to 2.5 Gb/s and the 'Maximum bandwidth' is set to 50 Gb/s. The 'Type' is set to 'Regular'. There is a green 'OK' button next to the bandwidth fields. Below the 'General' tab is the 'Networks' section, which contains a table with two rows of network configurations. The table has columns for Name, Type, VLAN ID, and Untagged. Below the table are three buttons: 'Add networks', 'Remove networks', and 'Remove all'. At the bottom of the form, there is a warning message: 'Warning: This network set is used by multiple server profiles'. There are 'OK' and 'Cancel' buttons at the bottom right.

Name	Type	VLAN ID	Untagged
HD-VLAN-171-VM-MGMT	Ethernet	171	<input type="checkbox"/> x
HD-VLAN-2019-VM-MGMT	Ethernet	2019	<input type="checkbox"/> x

General

Name

HD-PROD

Preferred bandwidth

10

Gb/s

Maximum bandwidth

50

Gb/s

Type

Regular

▼

Networks

Name	Type	VLAN ID	Untagged	
HD-VLAN2008-VM-PROD01	Ethernet	2008	<input type="checkbox"/>	x
HD-VLAN2009-VM-PROD02	Ethernet	2009	<input type="checkbox"/>	x

Add networks

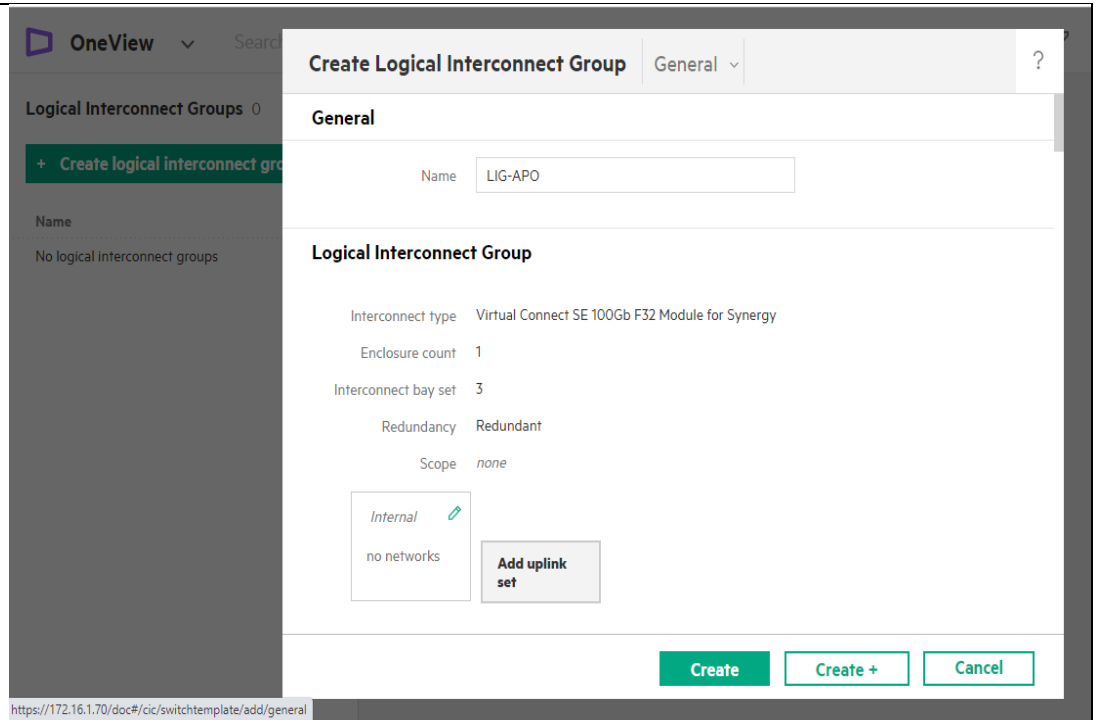
Remove networks

Remove all

d. Create Logical Interconnects Groups : LIG

A logical interconnect group is a set of logical interconnects that represent the available networks based on internal networks, uplink sets, and interconnect settings for a set of physical interconnects in a single enclosure or set of enclosures. You can have multiple logical interconnect groups per enclosure group.

In the main Menu, select Logical InterConnect Groups and click + Create logical InterConnect group



Create Logical Interconnect Group General

General

Name LIG-APO

Logical Interconnect Group


Interconnect type Virtual Connect SE 100Gb F32 Module for Synergy

Enclosure count 1

Interconnect bay set 3

Redundancy Redundant

Scope none

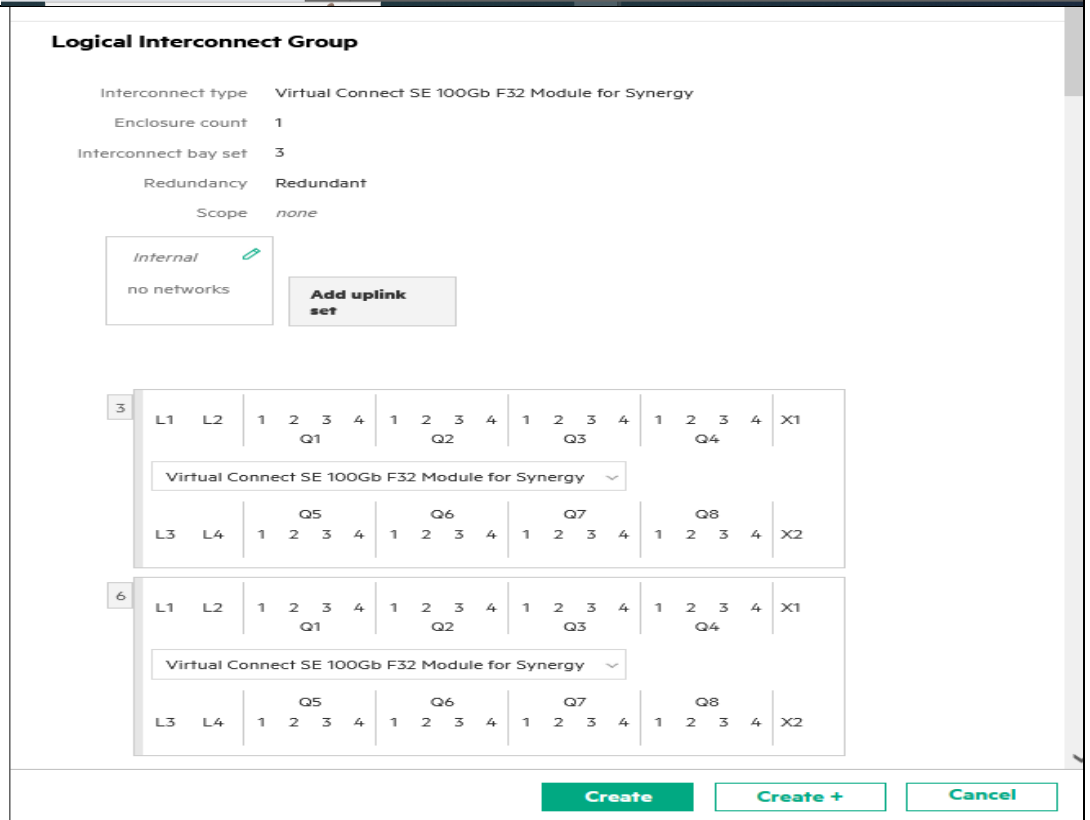
Internal 

no networks

Add uplink set

Create Create + Cancel

Select HP VC 100Gb F32 Module For Synergy. Choose Enclosure Count :1 Interconnect bay Set 3 & 6



Logical Interconnect Group


Interconnect type Virtual Connect SE 100Gb F32 Module for Synergy

Enclosure count 1

Interconnect bay set 3

Redundancy Redundant

Scope none

Internal 

no networks

Add uplink set

3

L1	L2	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	X1
		Q1				Q2				Q3				Q4				

Virtual Connect SE 100Gb F32 Module for Synergy

L3	L4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	X2
		Q5				Q6				Q7				Q8				

6

L1	L2	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	X1
		Q1				Q2				Q3				Q4				

Virtual Connect SE 100Gb F32 Module for Synergy

L3	L4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	X2
		Q5				Q6				Q7				Q8				

Create Create + Cancel

Click Add uplink set to create ethernet uplink set.
Add Networks

General

Name:

Consistency checking:

Type:

Connection mode:

LACP timer:

LACP load balancing:

LACP failover trigger:

LACP distribute uplink ports: ☒

Networks

Name	Type	VLAN ID	Network Sets	Native
HD-VLAN2008-VM-PROD01	Ethernet	2008	HD-PROD	<input type="checkbox"/>
HD-VLAN2009-VM-PROD02	Ethernet	2009	HD-PROD	<input type="checkbox"/>
HD-VLAN2010-VM-NON-PROD	Ethernet	2010		<input type="checkbox"/> x
HD-VLAN-171-VM-MGMT	Ethernet	171	HD-MGMT	<input type="checkbox"/>
HD-VLAN-2011-BACKUP	Ethernet	2011		<input type="checkbox"/> x
HD-VLAN-2019-VM-MGMT	Ethernet	2019	HD-MGMT	<input type="checkbox"/>

Configuration of uplinks ports

Choose

- ICM 3 : Q1 :1
- Q2 :1
- ICM 6 :Q1 :1 Q2 :1

Network Sets

Name:

HD-MGMT x

HD-PROD x

Add network set Remove network set

Uplink Ports

Interconnect Module	Enclosure	Bay	Port	Capability	Speed	FEC Mode
Virtual Connect SE 100Gb F32 Module for Synergy	1	3	Q1:1	Ethernet + FCoE	<input type="text" value="Auto"/>	<input type="text" value="Auto"/> x
Virtual Connect SE 100Gb F32 Module for Synergy	1	3	Q2:1	Ethernet + FCoE	<input type="text" value="Auto"/>	<input type="text" value="Auto"/> x
Virtual Connect SE 100Gb F32 Module for Synergy	1	6	Q1:1	Ethernet + FCoE	<input type="text" value="Auto"/>	<input type="text" value="Auto"/> x
Virtual Connect SE 100Gb F32 Module for Synergy	1	6	Q2:1	Ethernet + FCoE	<input type="text" value="Auto"/>	<input type="text" value="Auto"/> x

Add uplink ports Remove uplink ports Remove all

Configure internal network for VMotion

Edit Vmotion-New?

General

Name

Vmotion-New

Consistency checking

Exact match

Type

Ethernet

Connection mode

Automatic

LACP timer

Short (1s)

LACP load balancing

Source & Destination MAC Address

LACP failover trigger

All active uplinks transition to offline

LACP distribute uplink ports

☒

Consistency checking

Exact match

Internal Networks

Name	Type	VLAN ID
Vmotion	Ethernet	Untagged

There are no available Ethernet networks to add.

Remove networks

Remove all

OK

Cancel

Configure Uplink set
for **Fibre Channel**
network
and define the uplink
ports
ICM3 :Q3 :1
ICM3 :Q4 :1
For
SAN –B define uplink
port
ICM6 :Q3 :1
ICM6 :Q4 :1

General

Name

Consistency checking

Type
Fibre Channel

Networks

Network

Uplink Ports

Interconnect Module	Enclosure	Bay	Port	Speed	
Virtual Connect SE 100Gb F32 Module for Synergy	1	3	Q3:1	16 Gb/s	×
Virtual Connect SE 100Gb F32 Module for Synergy	1	3	Q4:1	16 Gb/s	×

Add uplink ports

Remove uplink ports

Remove all

OK

Cancel

General

Name

Consistency checking

Type
Fibre Channel

Networks

Network

Uplink Ports

Interconnect Module	Enclosure	Bay	Port	Speed	
Virtual Connect SE 100Gb F32 Module for Synergy	1	6	Q3:1	16 Gb/s	×
Virtual Connect SE 100Gb F32 Module for Synergy	1	6	Q4:1	16 Gb/s	×

Add uplink ports

Remove uplink ports

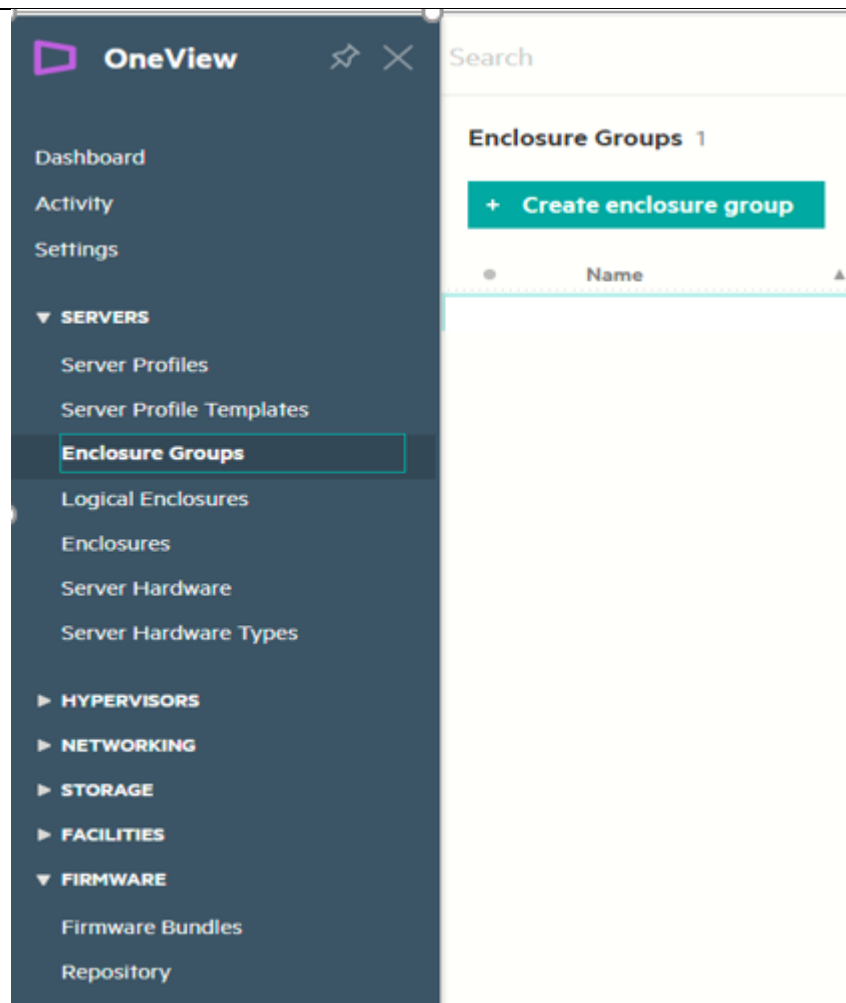
Remove all

Site Tunis				
Uplink Set	Type	Networks	Uplink Port	
LAN	Ethernet	Corporate	ICM3	Q1:1
		DMZ		Q2:1
		Management DNS	ICM6	Q1:1
		Management SRV		Q2:1
RX-SAN -A	FC	SAN A	ICM3	Q3:1
			ICM3	Q4:1
RX-SAN -B	FC	SAN B	ICM6	Q3:1
			ICM6	Q4:1
Backup	Ethernet	Backup	ICM 3	Q5:1
			ICM 6	Q5:1

e. Create Enclosure Group

A part of the procedure to manage a frame includes specifying the enclosure group to which it will belong. Each enclosure group is associated with one or more logical interconnect groups that act as a recipe for creating and configuring the logical interconnects. That configuration is then applied to each enclosure added as a member of the enclosure group.

From the main menu, select Enclosure Groups, click Create enclosure group . The Create enclosure group dialog box appears.



Set Name,
Select The
management
pool.
Click Create

Create Enclosure Group

General

?

General

Name

EG-APO

Enclosure count

1

IPv4 iLO / interconnect configuration

☒ Use address pool
 ☐ Use DHCP
 ☐ Manage externally

IPv4 address pool

Range Name	Domain	IPv4 Addresses
172.16.1.0 Range 1		172.16.1.80 - 172.16.1.100

Add address ranges

Remove all

There are no more address ranges.

IPv6 iLO / interconnect configuration

☐ Use address pool
 ☐ Use DHCP
 ☒ Manage externally

Changed: IPv6 iLO / interconnect configu...

Create

Create+

Cancel

Select LIG in
Inetrconnect
Bay
Configuration
side

OneView

Search

Dashboard

Activity

Settings

SERVERS

Server Hardware

Server Profiles

Server Profile Templates

Enclosure Groups

Logical Enclosures

Enclosures

Server Hardware Types

HYPERVISORS

NETWORKING

Networks

Enclosure Groups 1

+ Create enclosure group

Name
EG-APO

EG-APO

Interconnect Bay Configuration

Actions

Interconnect Bay Configuration

Enclosure 1

3

Logical interconnect group LIG-APO

6

Logical interconnect group LIG-APO

General

Edit

Used by none

IPv4 management address Use address pool configuration

IPv4 address pool

Range Name

Domain

IPv4 Addresses

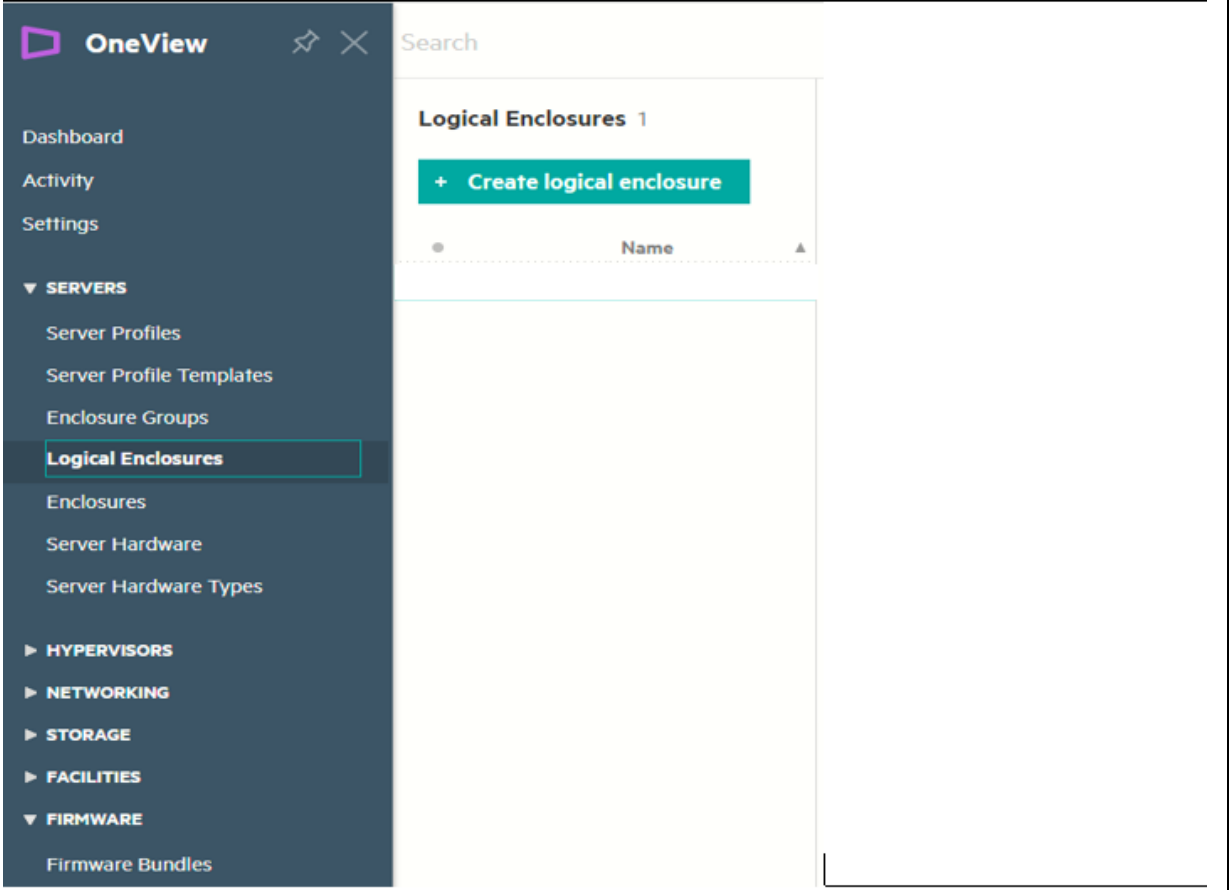
Available

f. Add Logical Enclosure

A logical enclosure (LE) contains the configuration intended for a set of physical enclosures. It also automatically creates a logical interconnect (LI) for each logical interconnect group

defined in an enclosure group. A logical enclosure is created by specifying the enclosures and the enclosure group template. Firmware baseline is an optional setting

In the main menu select servers, logical Enclosures then create logical Enclosure



Create Logical Enclosure

General

?

General

Name

LE-APO

Enclosures

CZJ2410F3M

✕ 🔍

Enclosure group

EG-APO

✕ 🔍

Firmware

Firmware baseline

Manage manually

IPv4 Addresses

IPv4 iLO / interconnect configuration

address pool

Autofill device IPv4 addresses

Autofill interconnect IPv4 addresses

3

Changed: Enclosure group to "EG-APO"

Create

Create +

Cancel

The screenshot displays the OneView web interface. On the left, a dark sidebar contains a navigation menu with categories like 'SERVERS', 'HYPERVISORS', and 'NETWORKING'. Under 'Logical Enclosures', a table lists a single enclosure named 'LE-APO' with a green status icon. To the right of this table, a detailed view for 'LE-APO' is shown, including an 'Overview' tab and an 'Actions' button. The 'General' section of this view lists the enclosure's configuration: 'Consistency state' is 'Creating', 'Enclosure group' is 'EG-APO', 'Enclosures' is 'CZJ2410F3M', and 'Logical Interconnects' is 'LE-APO-LIG-APO'. The top of the interface features a search bar and several utility icons.

The screenshot shows the OneView interface for Logical Interconnects. On the left, a sidebar titled 'Logical Interconnects 1' contains a table with one entry: 'LE-APO-LIG-APO'. The main content area displays the details for this interconnect, including a 'Logical Interconnect' dropdown menu and a 'Logical Interconnect' section showing 'Internal' and 'no networks'. An 'Actions' menu is open on the right, listing options like 'Edit', 'Update firmware', 'Configure port monitoring', 'Refresh', 'Reapply configuration', 'Download MAC table', and 'Send test trap'.

Choose orchestrated activation and click update

Activation ☒ Orchestrated ☐ Parallel ☐ Manual orchestration

Orchestrated activation is optimized to reduce the risk and duration of network and storage connectivity disruption. To minimize potential disruptions ensure the logical interconnect is redundantly configured. [Learn more...](#)

[Preview](#)

Affected Components

Name	Model	Installed	Baseline
CZJ2410F3M, interconnect 3	Virtual Connect SE 100Gb F32 Module for Synergy	2.3.1.1001	update to 2.4.0.1002
CZJ2410F3M, interconnect 6	Virtual Connect SE 100Gb F32 Module for Synergy	2.3.1.1001	update to 2.4.0.1002

Wait until the update firmware process finish

Search 🔍 🔧 📋 📄 🔔 👤 ?

Logical Interconnects 1

● **LE-APO-LIG-APO** Logical Interconnect ⌵ ⚙️ Actions ⌵

○ Update firmware 📊 Staging started for... Administrator 3/23/23 11:58:04 pm ⌵

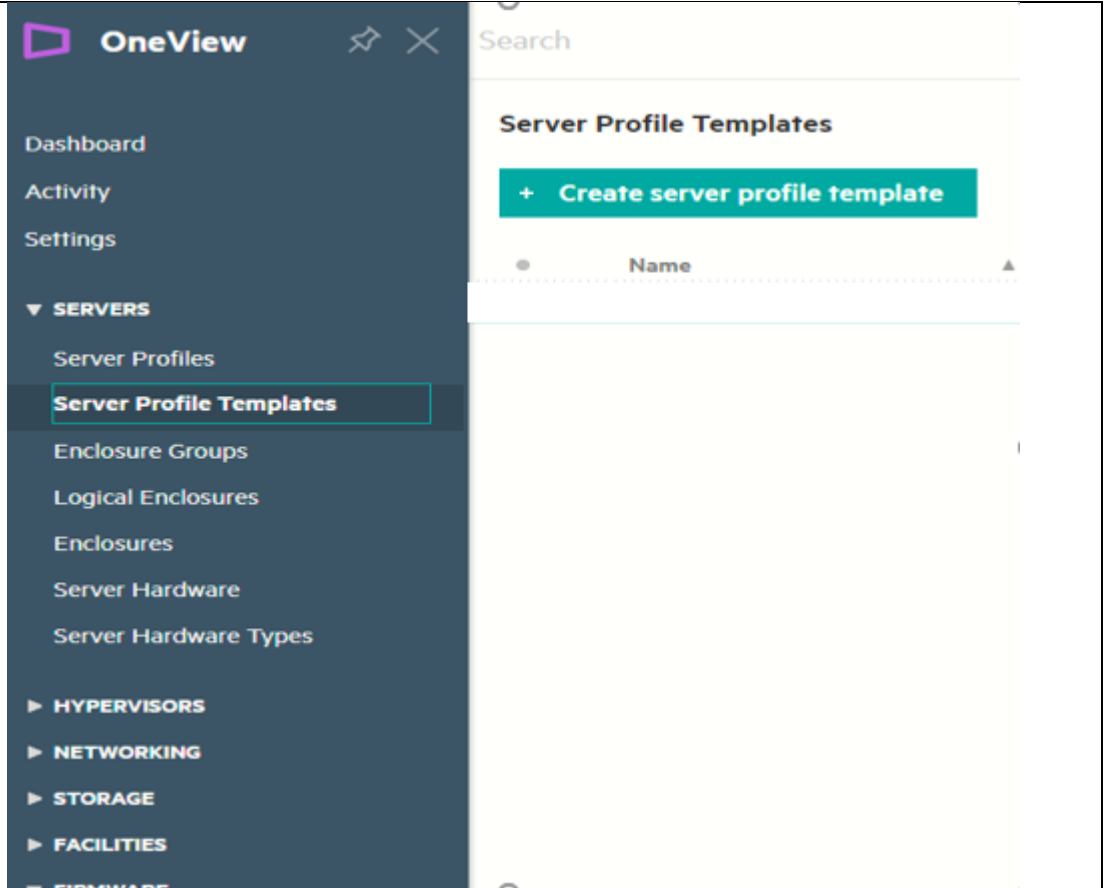
Logical Interconnect [Edit](#)

Internal
no networks

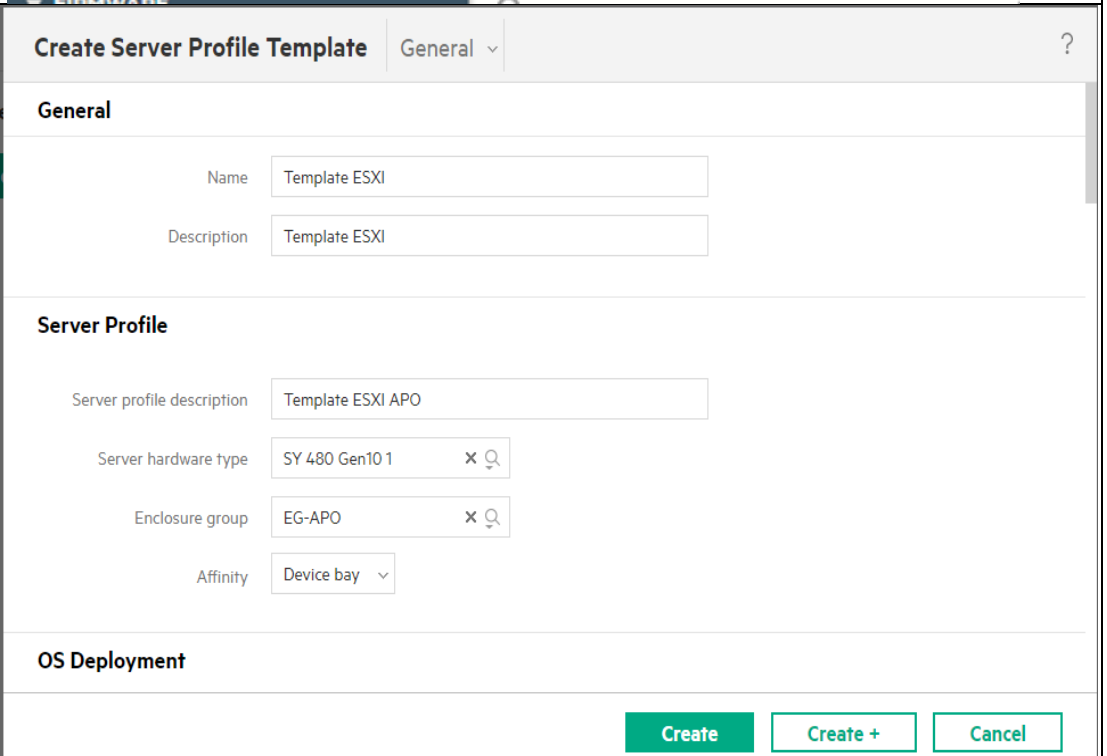
g. Server Profile template

Server profile templates help to monitor, flag, and update server profiles in HPE OneView. A server profile template serves as a structural reference when creating a server profile and defines the centralized source for the configuration of firmware, connections, local storage, SAN storage, boot, BIOS, profile affinity, and hides unused FlexNICs. Typically, you capture best-practice configurations in a server profile template, and then create and deploy server profiles.

In the main menu select
Server Profile Template



Choose create Server
Profile Template.
Set the needed
informations
NAME : ESXI-
Template
Server Hardware Type :
Sy 480Gen 10



The screenshot shows the 'Create Server Profile Template' form in the OneView interface. The form has a title bar with 'Create Server Profile Template' and a 'General' tab. The form is divided into three main sections: 'General', 'Server Profile', and 'OS Deployment'. In the 'General' section, there are input fields for 'Name' (containing 'Template ESXI') and 'Description' (containing 'Template ESXI'). In the 'Server Profile' section, there are input fields for 'Server profile description' (containing 'Template ESXI APO'), 'Server hardware type' (containing 'SY 480 Gen10 1'), 'Enclosure group' (containing 'EG-APO'), and 'Affinity' (a dropdown menu set to 'Device bay'). At the bottom right of the form are three buttons: 'Create', 'Create +', and 'Cancel'.

Click Add Connection and define Connections types for this profile.
Create Connection:
SAN-A
And associate it to port Mezzanine 3 :1-b

General

Name

SAN-A

Function type

Fibre Channel

Network

SAN-A

Port

Mezzanine 3:1-b

Requested bandwidth (Gb/s)

Total 3

Boot

Mezzanine 2:1

Mezzanine 2:2

Mezzanine 3:1-b

OK

Cancel

















Vue sur les différents Connection créés

Connections

☒ Manage connections

Consistency checking Minimum match

ID	Name	Network	Port	Boot
1	PROD-P1	HD-PROD (network set)	Mezzanine 3:1-a	Not bootable
	Type	Ethernet		
	MAC address	Auto		
	Requested virtual functions	None		
	Requested bandwidth	9 Gb/s		
	Link aggregation group	None		
	Isolated trunk	No		
2	NON-PROD-P1	HD-VLAN2010-VM-NON-PROD VLAN2010	Mezzanine 3:1-c	Not bootable
	Type	Ethernet		
	MAC address	Auto		
	Requested virtual functions	None		
	Requested bandwidth	2.5 Gb/s		
	Link aggregation group	None		
3	Backup-P1	HD-VLAN-2011-BACKUP VLAN2011	Mezzanine 3:1-d	Not bootable
	Type	Ethernet		
	MAC address	Auto		
	Requested virtual functions	None		
	Requested bandwidth	2.5 Gb/s		
	Link aggregation group	None		
4	SAN-A	SAN-A Fabric attach	Mezzanine 3:1-b	Not bootable
	Type	Fibre Channel		
	WWPN	Auto		
	WWNN	Auto		
	MAC address	Auto		
	Requested bandwidth	6 Gb/s		

5	SAN-B	<u>SAN-B</u>	Fabric attach	Mezzanine 3:2-b	Not bootable		
	Type	Fibre Channel					
	WWPN	Auto					
	WWNN	Auto					
	MAC address	Auto					
	Requested bandwidth	6 Gb/s					
6	VMOTION-P1	<u>Vmotion</u>	Untagged	Mezzanine 3:1-e	Not bootable		
	Type	Ethernet					
	MAC address	Auto					
	Requested virtual functions	None					
	Requested bandwidth	2.5 Gb/s					
	Link aggregation group	None					
7	MGMT-P1	<u>HD-MGMT</u>	(network set)	Mezzanine 3:1-f	Not bootable		
	Type	Ethernet					
	MAC address	Auto					
	Requested virtual functions	None					
	Requested bandwidth	2.5 Gb/s					
	Link aggregation group	None					
	Isolated trunk	No					
8	PROD-P2	<u>HD-PROD</u>	(network set)	Mezzanine 3:2-a	Not bootable		
	Type	Ethernet					
	MAC address	Auto					
	Requested virtual functions	None					
	Requested bandwidth	9 Gb/s					
	Link aggregation group	None					
	Isolated trunk	No					
9	NON-PROD-P2	<u>HD-VLAN2010-VM-NON-PROD</u>	VLAN2010	Mezzanine 3:2-c	Not bootable		
	Type	Ethernet					
	MAC address	Auto					
	Requested virtual functions	None					
10	Backup-P2	<u>HD-VLAN-2011-BACKUP</u>	VLAN2011	Mezzanine 3:2-d	Not bootable		
	Type	Ethernet					
	MAC address	Auto					
	Requested virtual functions	None					
	Requested bandwidth	2.5 Gb/s					
	Link aggregation group	None					
11	VMOTION-P2	<u>Vmotion</u>	Untagged	Mezzanine 3:2-e	Not bootable		
	Type	Ethernet					
	MAC address	Auto					
	Requested virtual functions	None					
	Requested bandwidth	2.5 Gb/s					
	Link aggregation group	None					
12	MGMT-P2	<u>HD-MGMT</u>	(network set)	Mezzanine 3:2-f	Not bootable		
	Type	Ethernet					
	MAC address	Auto					
	Requested virtual functions	None					
	Requested bandwidth	2.5 Gb/s					
	Link aggregation group	None					
	Isolated trunk	No					

For boot mode
choose :UEFI optimized

Boot Settings

☒ Manage boot settings

Consistency checking Exact match ▾

Boot mode Select mode
UEFI optimized
UEFI
Legacy BIOS

Secure boot UEFI

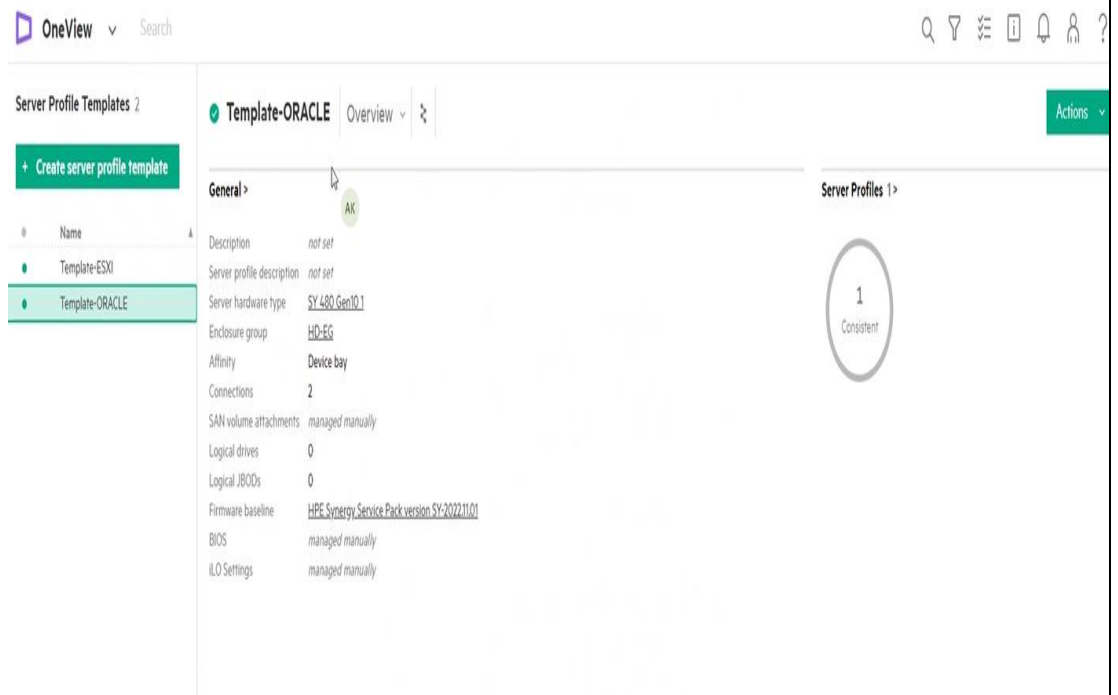
PXE boot policy Legacy BIOS

☒ Manage boot order

Consistency checking Exact match ▾

Primary boot device Hard disk ▾

Different server profile
template created



❖ Site Sfax

🌐 Profil connexion mapping for server profile Template “Template-ESXI”

ref. name	Connection name	Network / network set name	Port	Requested bandwidth (Gb/s)
server connection #1	Mgmt-P1	HD-MGMT	Mezz3-Port1-f	2,5GB
server connection #2	Mgmt-P2	HD-MGMT	Mezz3-Port2-f	2,5GB
server connection #3	Prod-P1	HD-Prod	Mezz3-Port1-a	9Gb
server connection #4	Prod-P2	HD-Prod	Mezz3-Port2-a	9GB

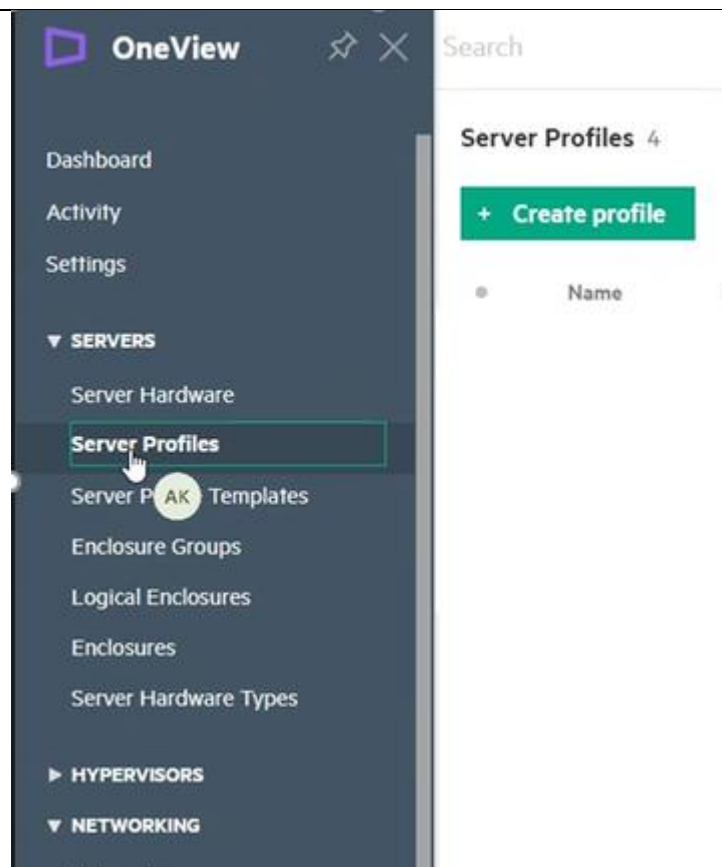
server connection #5	Non-Prod-P1	HD-VLAN2010-VM-NON-PROD	Mezz3-Port1-c	2,5GB
server connection #6	Non-Prod-P2	HD-VLAN2010-VM-NON-PROD	Mezz3-Port2-c	2,5GB
server connection #7	backup-1	HD-VLAN-2011-BACKUP	Mezz3-Port1-d	2,5GB
server connection #8	backup-2	HD-VLAN-2011-BACKUP	Mezz3-Port2-d	2,5GB
server connection #9	Vmotion-P1	Vmotion	Mezz3-Port1-e	2,5GB
server connection #10	Vmotion-P2	Vmotion	Mezz3-Port2-e	2,5GB
server connection #11	SAN-A	SAN-A	Mezz3-Port1-b	8GB
server connection #12	SAN-B	SAN-B	Mezz3-Port2-b	8GB

Profil connexion mapping for server profile Template “Template-Oracle”

ref. name	Connection name	Network / network set name	Port	Requested bandwidth (Gb/s)
server connection #1	PROD-ORACLE-P1	HD-VLAN2009-VM-PROD02	Mezz3-Port1-a	20 GB
server connection #2	PROD-ORACLE-P2	HD-VLAN2009-VM-PROD02	Mezz3-Port2-a	20 GB

h. Server Profile

From the main menu, select Server Profile Templates and select a template from the list of available templates. Click Actions → Create server profile in the menu on the upper right



Provide a unique name and optional description for this new server profile. Select a server hardware to assign (enclosure and enclosure bay), or select unassigned if that profile will not be applied immediately. Click the Create button.

General

Name

HD-PROF-ESXI-01

Description

Server profile template

Template-ESXI

Change

Server hardware

CZJ2410F3P, bay 2

×

Q

☐ Show empty bays

AK

Server hardware power is on. Some server profile updates require the server to be powered off. [Power off](#) the server. [Learn more](#).

Server hardware type

SY 480 Gen10 1

Change

Enclosure group

HD-EG

Change

Affinity

Device bay

▼

List of server profile created "Site-Sfax"

Server Profiles 4

+ Create profile

	Name
●	HD-PROF-ESXI-01
●	HD-PROF-ESXI-02
●	HD-PROF-ESXI-03
●	HD-PROF-ORACLE

Site SFA

Server profile Name
HD-PROF-ESXI-01
HD-PROF-ESXI-02
HD-PROF-ESXI-03
HD-PROF-ORACLE