

Hewlett Packard **Enterprise**

Installation and configuration Guide for Frame

HPE SYNERGY 12000



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24

29

30

33

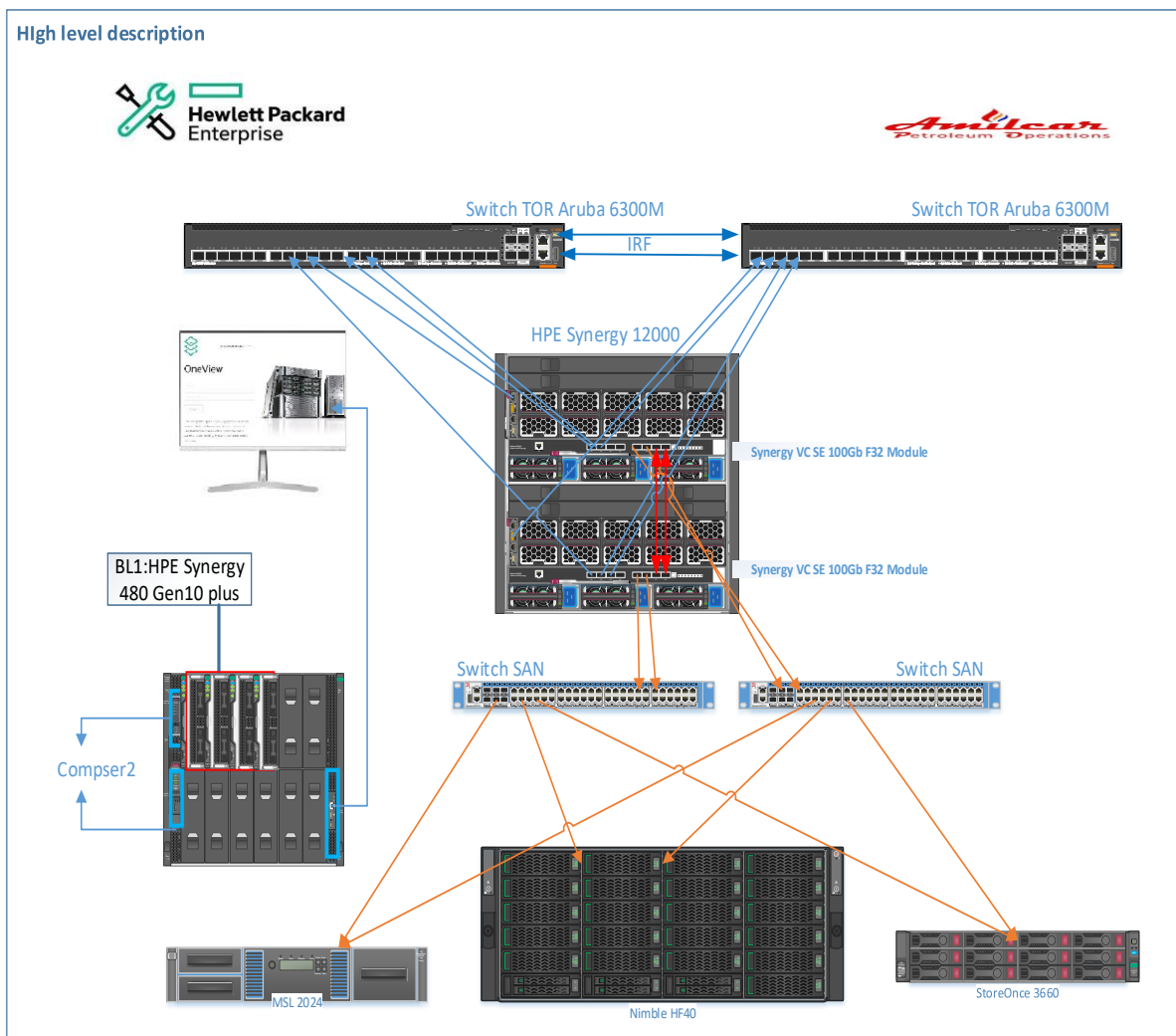
39

p. 2

1. Objective

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


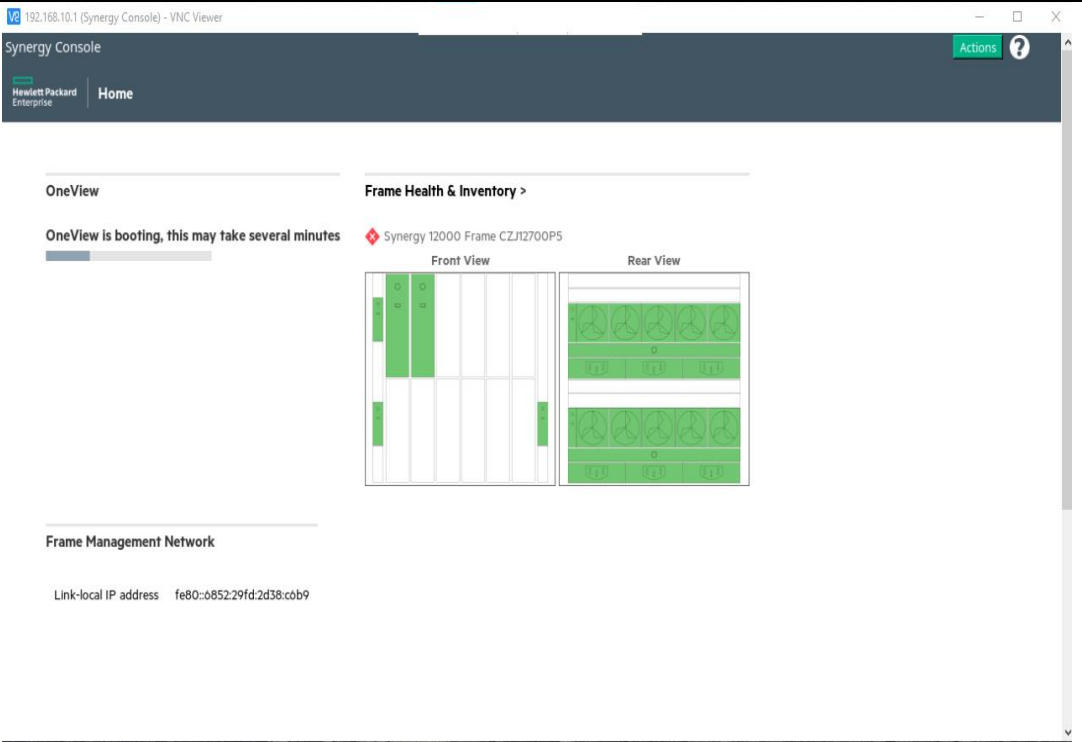
2. HLD Architecture



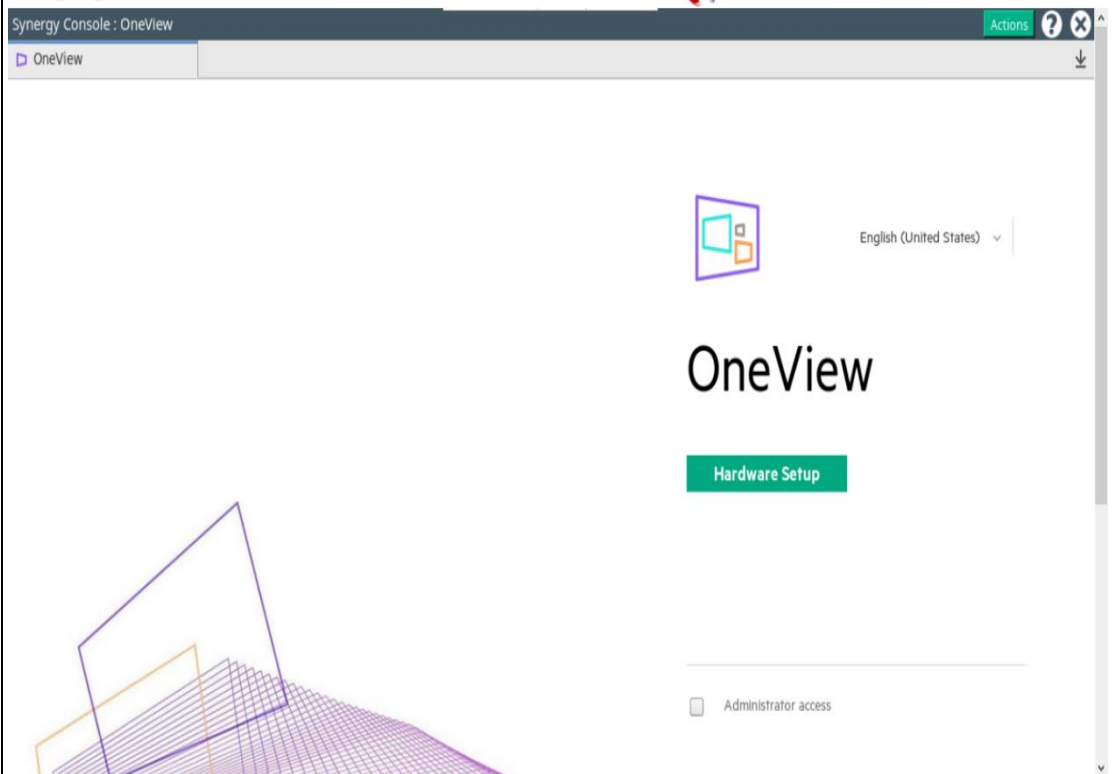
3. Port connections

Synergy Tunis	Virtual Connect		port	Switch
	VC3	Q1 (LAN)	3	Core LAN
		Q2 (LAN)	5	Core LAN
		Q3	1	Switch SAN 1
		Q4	2	Switch SAN1
		Q5	7	Core LAN
		Q6		
	VC6	Q1 (LAN)	4	Core LAN
		Q2 (LAN)	6	Core LAN
		Q3	1	Switch SAN 2
		Q4	2	Switch SAN 2
		Q5	7	Core LAN
		Q6		
	MGMT	FLM 1	1	Core LAN
		FLM 2	2	Core LAN

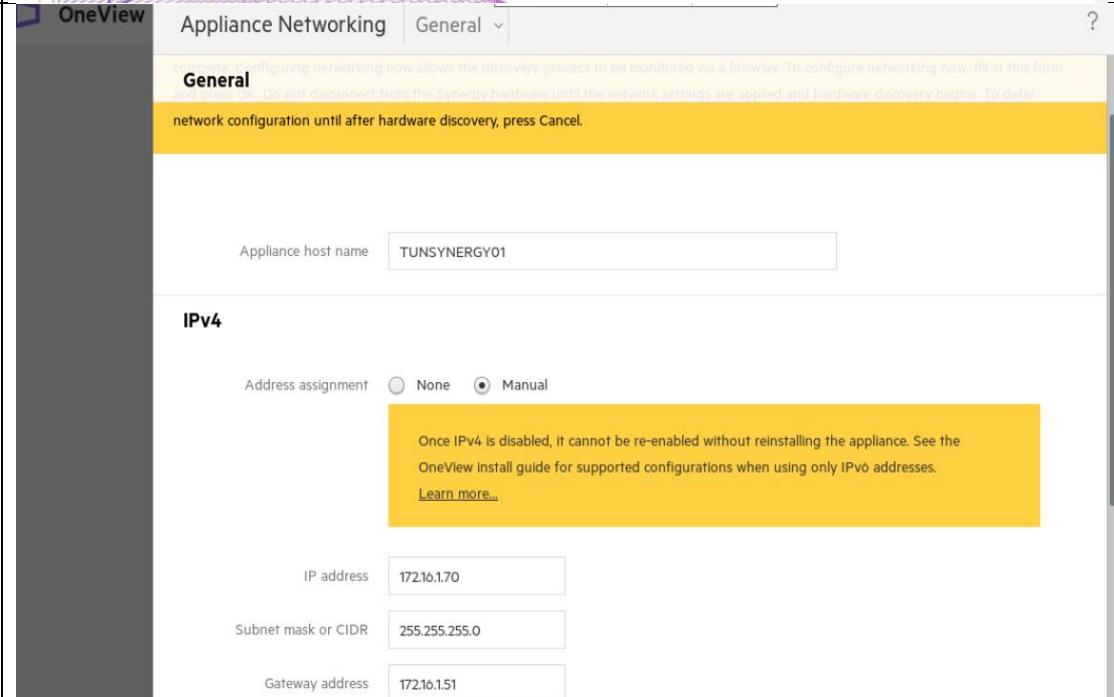
4. HPE SYNERGY Frame Initialization

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

- Connect to HPE OneView and select Hardware Setup.

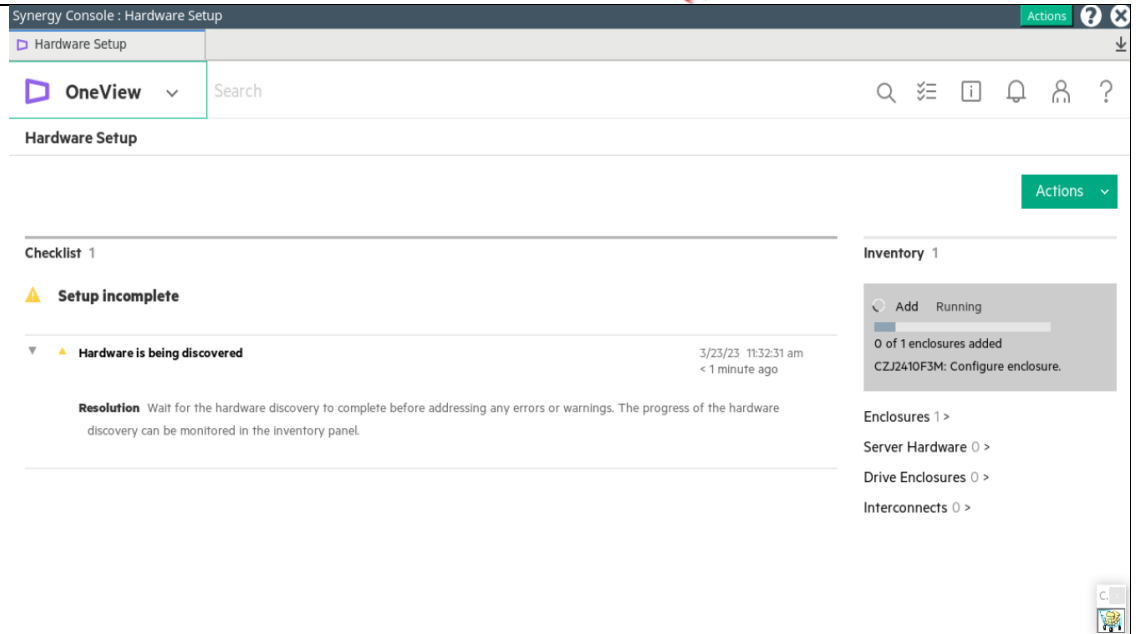


- Configure the necessary Synergy network settings. - Specify the IP address as well as the two service addresses, subnet mask and gateway.



<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



Synergy Console: Hardware Setup

Hardware Setup

OneView

Search

Hardware Setup

Actions

Checklist 1

Setup incomplete

Hardware is being discovered

3/23/23 11:32:31 am
< 1 minute ago

Resolution Wait for the hardware discovery to complete before addressing any errors or warnings. The progress of the hardware discovery can be monitored in the inventory panel.

Inventory 1

Add Running

0 of 1 enclosures added
CZJ2410F3M: Configure enclosure.

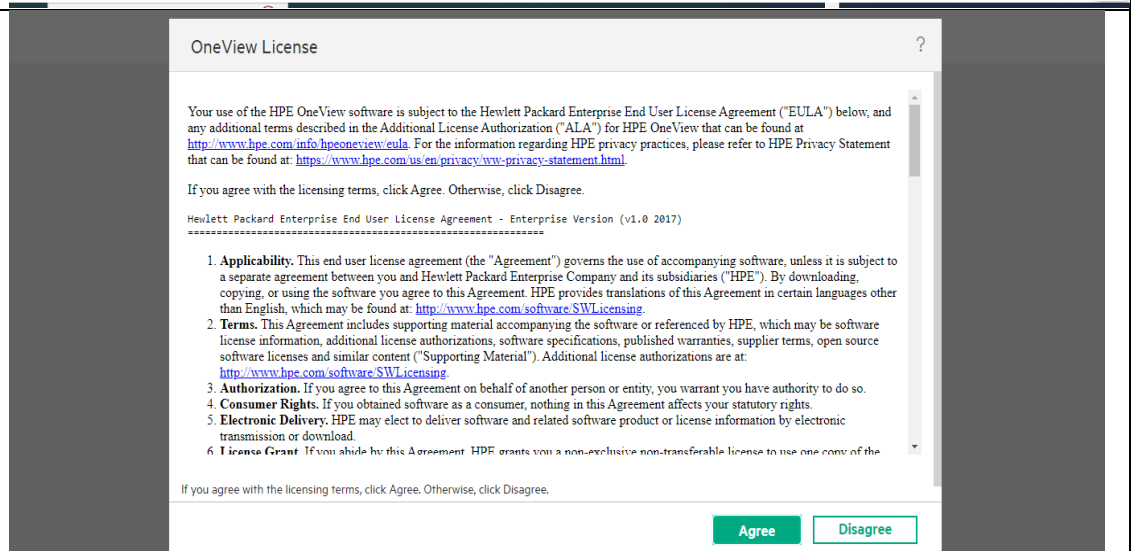
Enclosures 1 >

Server Hardware 0 >

Drive Enclosures 0 >

Interconnects 0 >

-Agree with OneView licensing terms .



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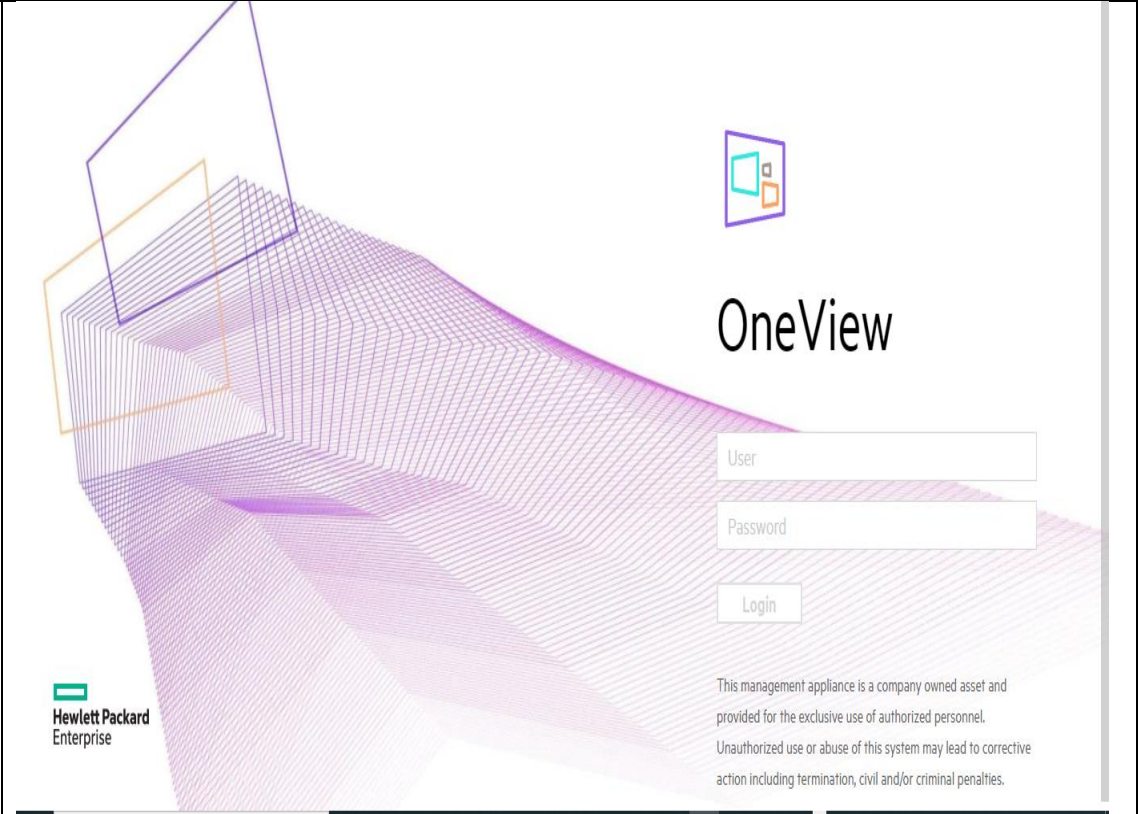
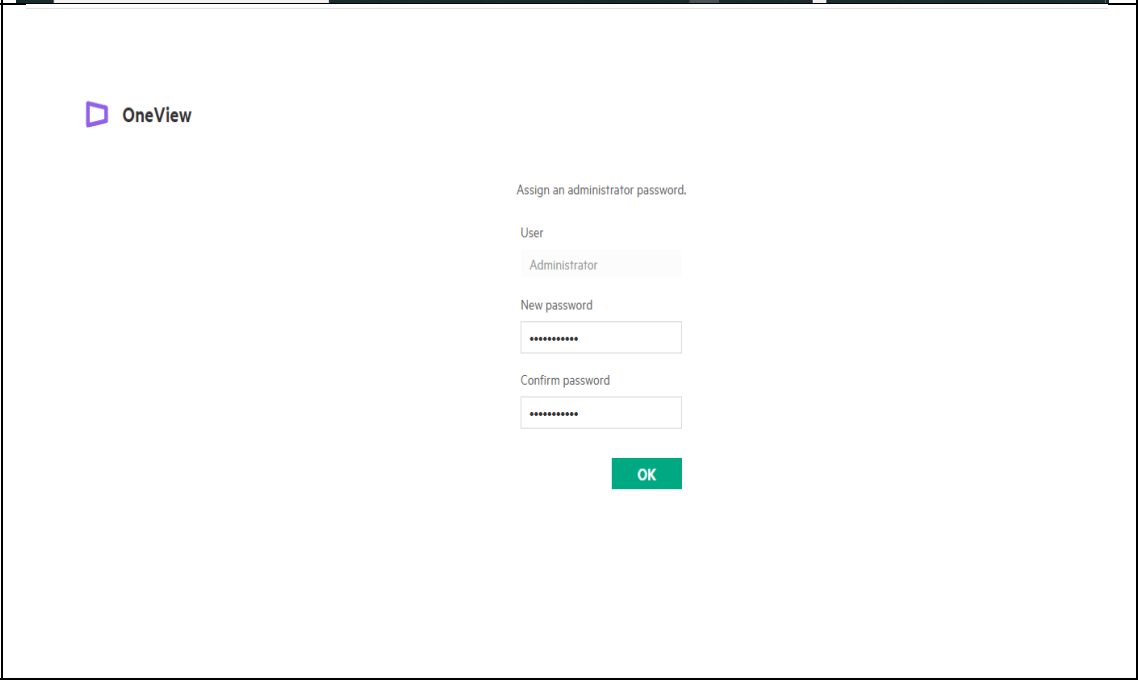
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Agree Disagree

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

-Access to Onview Dashboard

OneView

Search

Dashboard

Server Profiles 0 >

Server Hardware 2 >

Servers with profiles >

Servers in maintenance mode >

Blade bays >

Storage Pools 0 >

OneView Tutorial

Welcome to the OneView user interface tutorial. This tutorial will appear the first time you log in from this browser.

< previous | close | play | next >

- Choose Update appliance at Appliance > Settings level. The version is 6.5

OneView

Search

Settings

Appliance >

Backup >

Networking >

Time and Locale >

Firmware6.10.00-0437859

Appliance statusOK

Update appliance

Create support dump

Frequencynot set

Last downloadednone

backup created at

Current backupnone

created at

Create backup

Network StatusConfiguration error

Host nameSynergy2qnb.bnk

Appliance IP address10.206.3.129

Gateway address10.206.3.158

Primary DNS10.206.140

Time10/26/21 12:

LocaleEnglish (Un

p. 10

- Select the update image after downloading it

Update Appliance



A backup has not been downloaded for this appliance. Create a new backup and download it prior to updating the appliance.

High availability will be disabled during the appliance update.

Appliance login might be unavailable for an hour or more. Apparent pauses in progress are expected.

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](#).

Get [latest updates](#)

☒ Select an update image ☐ Update from uploaded image

Upload

Cancel

-choose Upload the image file and wait for a prompt to install it and click Upload

Update Appliance



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](#).

Get [latest updates](#)

☒ Select an update image ☐ Update from uploaded image

HPE_Synergy_Composer_2_6.30.00_UP 2.02 GB
DATE_Z7550-97240.bin

Browse

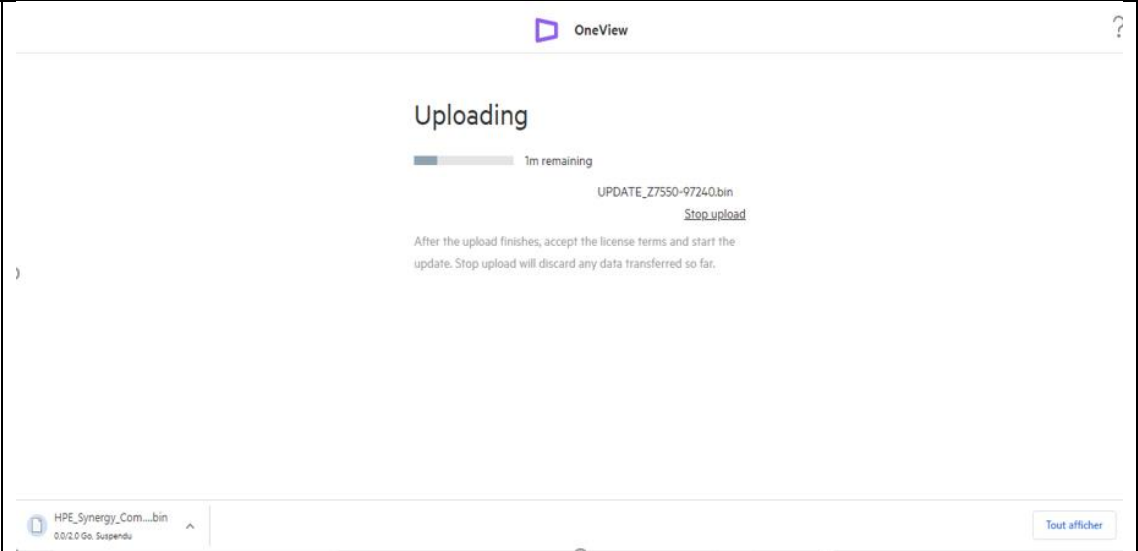
Select how to upload

☒ Upload the image file and wait for a prompt to install it
☐ Upload the image file in the background for later installation

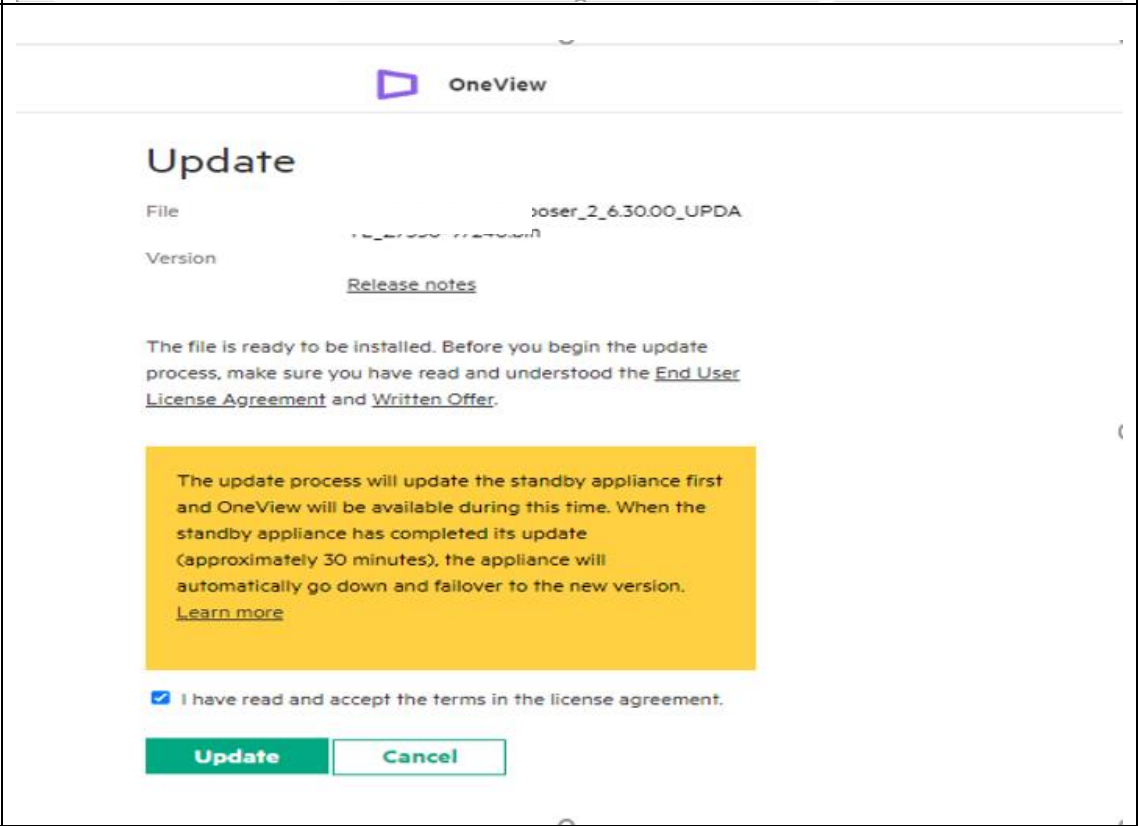
Upload



Cancel

- 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><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><div><div></div><div>Release notes</div></div></div><div><div>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.</div><div><div>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</div></div><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></div>
- Monitor the progress of the update	<div><div> OneView</div><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></div>

OneView

Updating

OneView from 7.00.00 to 7.20.00

Started at 8:32 pm

55% completed

8:44 pm Prepare for active/standby node swap

(takes about 5 minutes)

The version of HPE OneView is 8.2

ApplianceGeneral

General

CZJ2410F3M, appliance bay 1

active

Connected

CZJ2410F3M, appliance bay 2

standby

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

Firmware

Version

8.20.00-0475724

Date

Mar 3, 2023

Composable Infrastructure Appliances

Expand allCollapse all

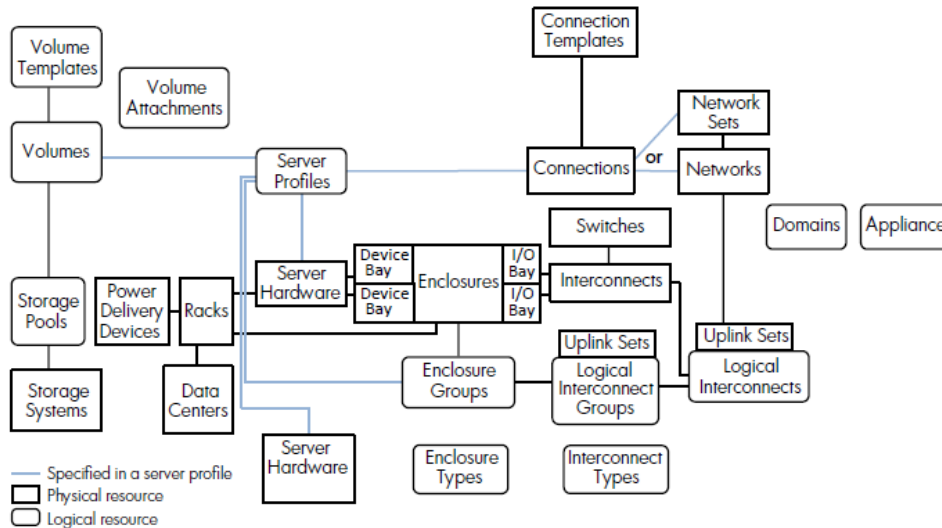
Name	Model	iLO Address
CZJ2410F3M, appliance bay 2	Synergy Composer2	172.16.1.78
CZJ2410F3M, appliance bay 1	Synergy Composer2	172.16.1.79

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.

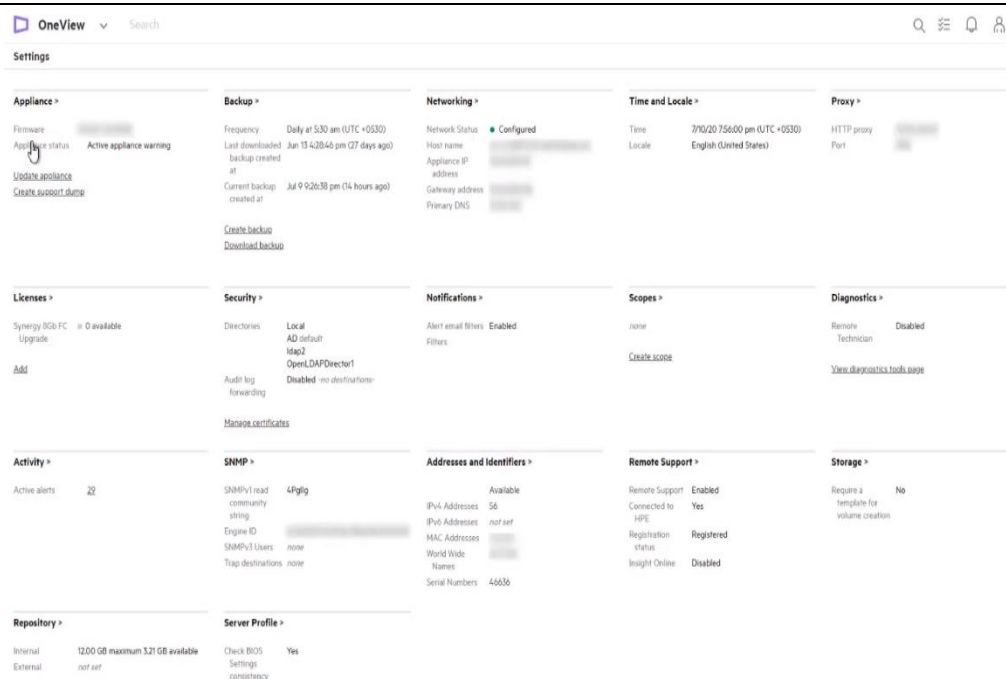
Summary diagram of resource models

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



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

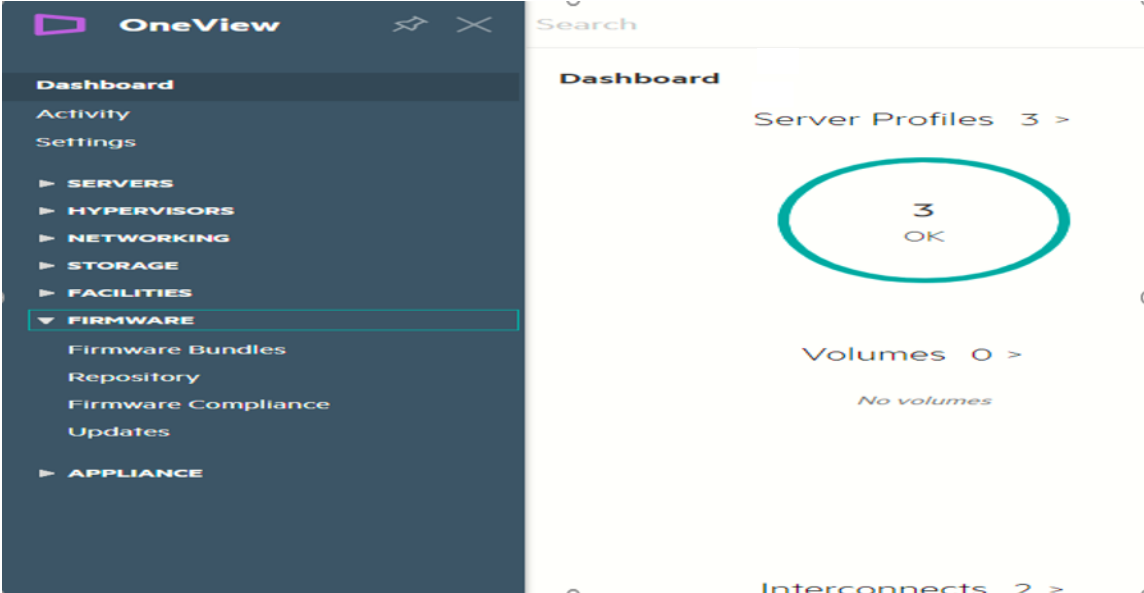
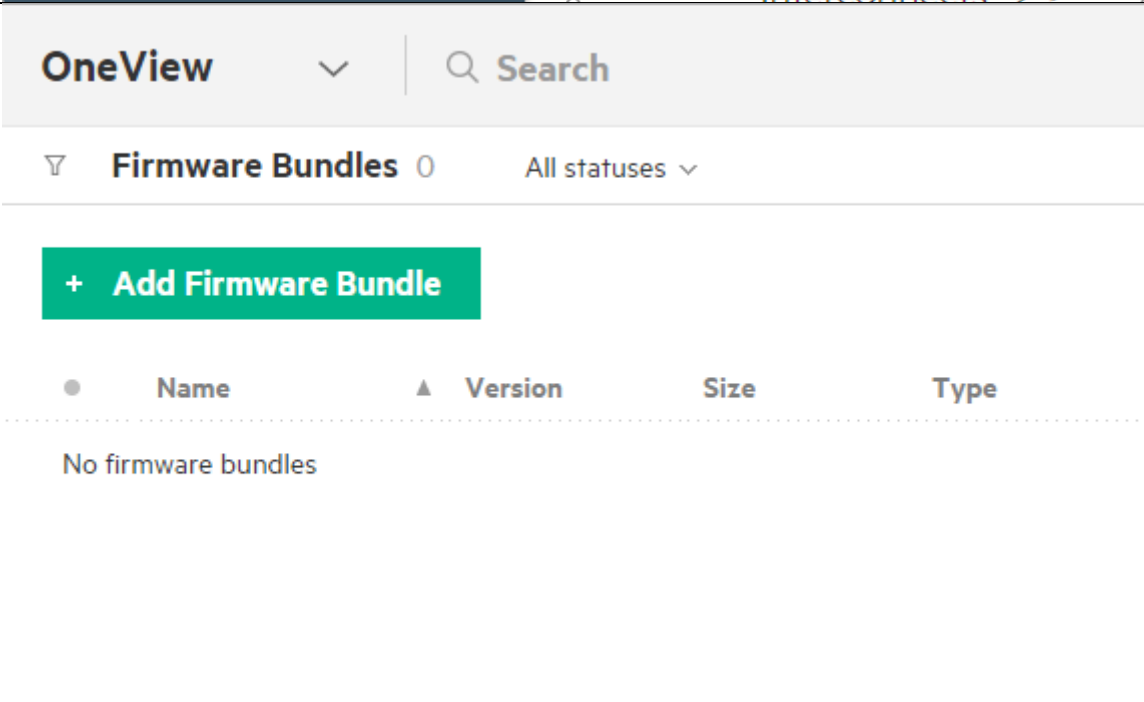
Cancel

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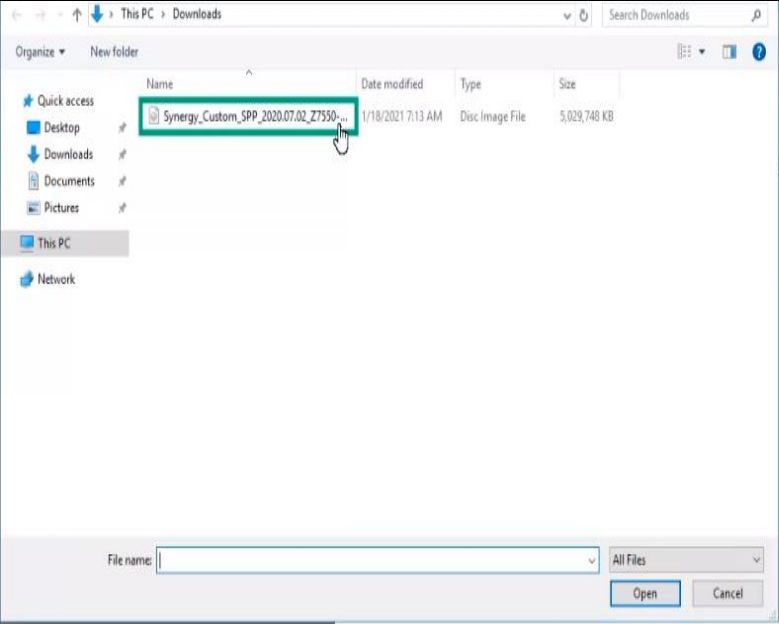
b. Firmware Bundle Synergy service Pack

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

In the main menu choose Appliance then Firmware Bundle	
Cliquer Add firmware Bundle	

Choose SPP



Click OK in order to start Click Start upload.

Add Firmware Bundle

Synergy_Custom_SPP_2020.07.02_Z7550-97031.iso

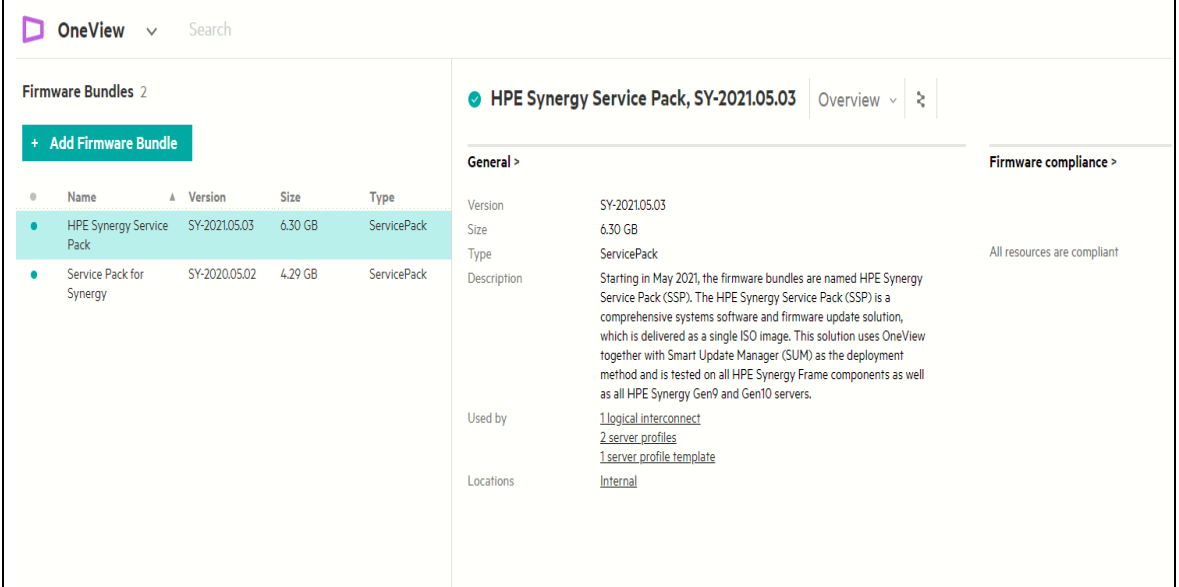
4.8 GB

Browse

OK

Close

Adding the SPP bundle is successfully completed

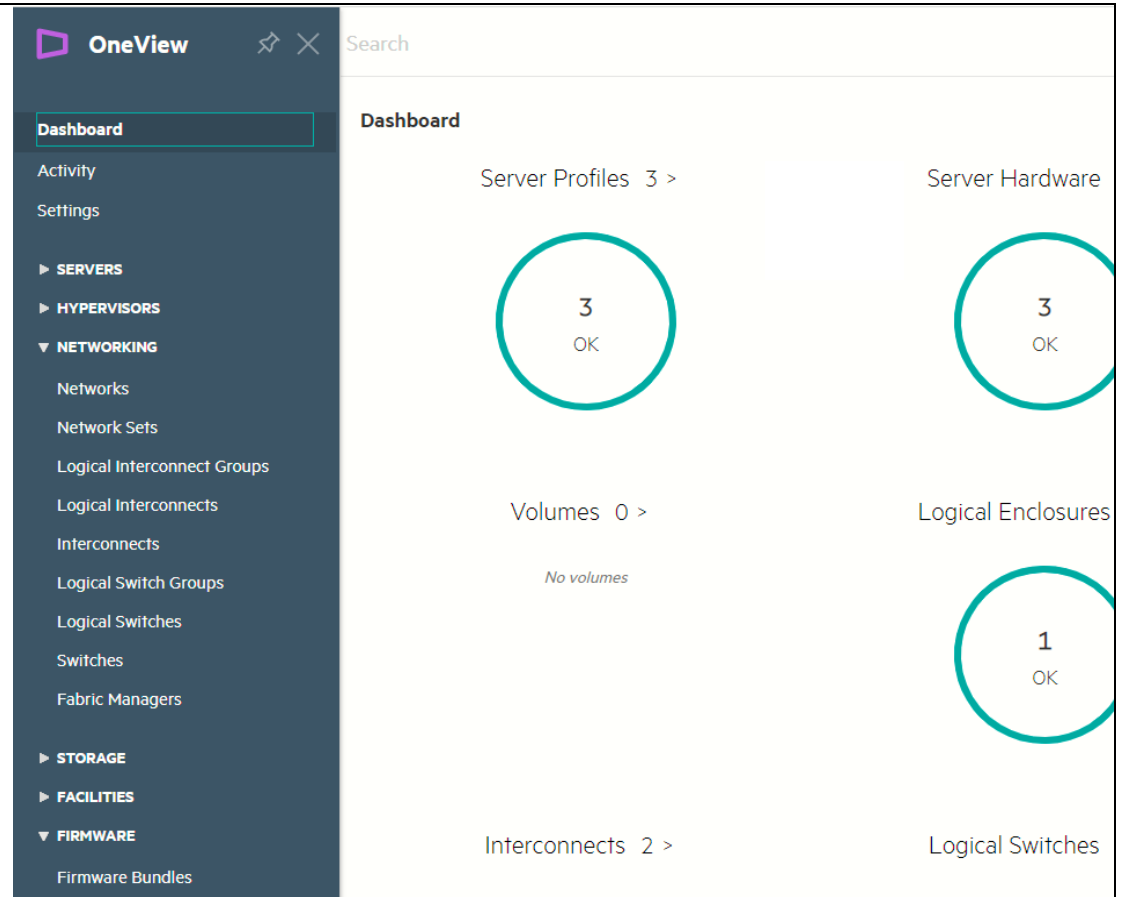


The screenshot shows the OneView interface for Firmware Bundles. On the left, a table lists two bundles: 'HPE Synergy Service Pack' (SY-2021.05.03, 6.30 GB) and 'Service Pack for Synergy' (SY-2020.05.02, 4.29 GB). A '+ Add Firmware Bundle' button is visible. On the right, the details for the 'HPE Synergy Service Pack, SY-2021.05.03' are shown, including a description and a 'Firmware compliance' status of '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



The screenshot shows the OneView Dashboard. The left sidebar contains a navigation menu with categories: SERVERS, HYPERVISORS, NETWORKING (expanded), STORAGE, FACILITIES, and FIRMWARE. Under NETWORKING, 'Networks' is selected. The main dashboard area displays four metrics: 'Server Profiles' (3 OK), 'Server Hardware' (3 OK), 'Volumes' (0 No volumes), and 'Logical Enclosures' (1 OK). At the bottom, 'Interconnects' (2) and 'Logical Switches' are partially visible.

<div>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</div>	<div><div><div><div>Name</div><div>VLAN2009-VM-PROD02</div><div>A unique, descriptive name for the network</div></div><div><div>Type</div><div>Ethernet</div></div><div><div>VLAN</div><div>2009</div></div><div><div>Associate with IPv4 subnet ID</div><div>none</div><div></div></div><div><div>Associate with IPv6 subnet ID</div><div>none</div><div></div></div><div><div>Purpose</div><div>General</div><div></div></div><div><div>Preferred bandwidth</div><div>2.5</div><div>Gb/s</div></div><div><div>Maximum bandwidth</div><div>50</div><div>Gb/s</div></div><div><div><input checked="" type="checkbox"/> Smart link</div><div><input type="checkbox"/> Private network</div></div></div></div>
---	--

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 Tunis

Network Name	VLAN	Ethernet/FC	Purpose
Corporate	101	Ethernet	General
DMZ	192	Ethernet	General
Management DNS	172	Ethernet	General
Management SRV	171	Ethernet	General
BACKUP	170	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.

OneView

Dashboard

Activity

Settings

SERVERS

HYPERVERSORS

NETWORKING

Networks

Network Sets

Logical Interconnect Groups

Logical Interconnects

Interconnects

Logical Switch Groups

Logical Switches

Switches

Fabric Managers

STORAGE

FACILITIES

FIRMWARE

Firmware Bundles

Repository

Firmware Compliance

Updates

Search

Dashboard

Server Profiles 3 >

3OK

Server Hardv

3OK

Volumes 0 >

No volumes

Logical Enclos

1OK

Interconnects 2 >

2OK

Logical Switc

No logical s

Create Network set for
Management and for
Prod
and select Networks

General

Name

HD-MGMT

Preferred bandwidth

2.5

Gb/s

Maximum bandwidth

50

Gb/s

Type

Regular

AK

Networks

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

Add networks

Remove networks

Remove all

Warning: This network set is used by multiple server profiles

OK

Cancel

General

Name

Preferred bandwidth Gb/s

Maximum bandwidth Gb/s

Type

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

OneView

Logical Interconnect Groups 0

+ Create logical interconnect group

Name

No logical interconnect groups

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

https://172.16.1.70/doc#/cic/switchtemplate/add/general

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

HD-SAN-A

Consistency checking

Exact match

Type

Fibre Channel

Networks

Network

SAN-A

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

HD-SAN-B

Consistency checking

Exact match

Type

Fibre Channel

Networks

Network

SAN-B

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

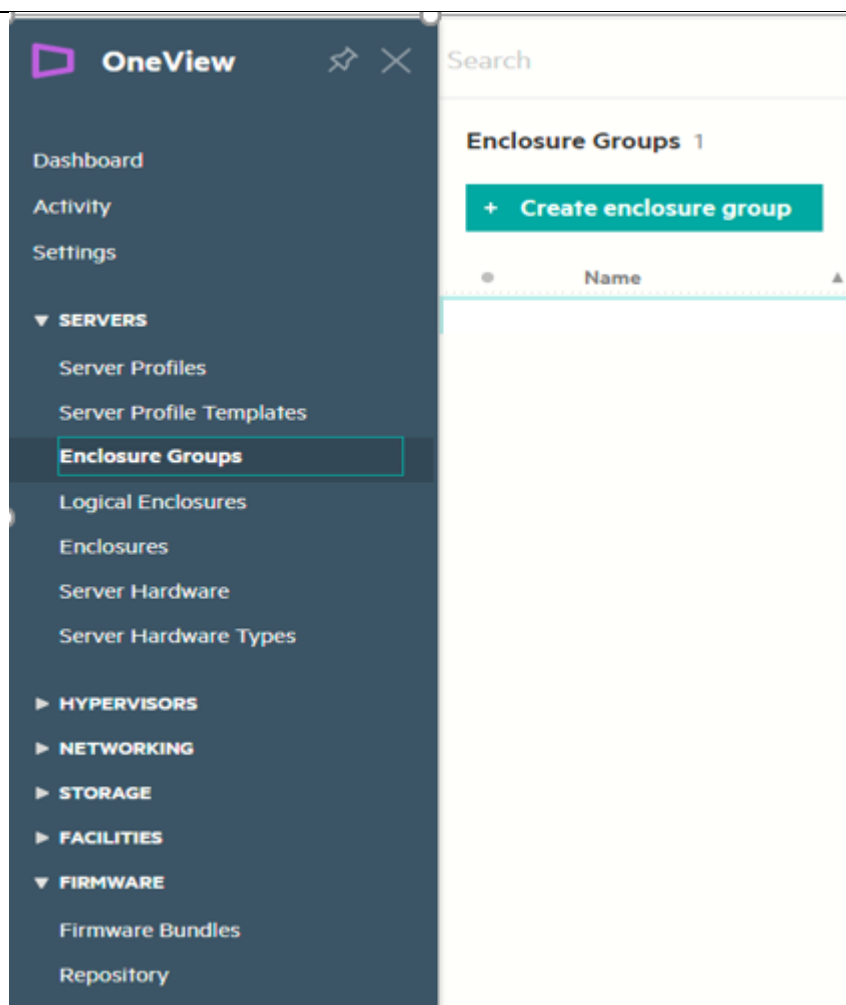
Remove all

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

x

Add address ranges

Remove all

There are no more address ranges.

IPv6 iLO / interconnect configuration

☐ Use address pool

☐ Use DHCP

☒ Manage externally

3

Changed: IPv6 iLO / interconnect configu...

Create

Create+

Cancel

Select LIG in Inetrconnect Bay Configuration side

OneView

Search

Dashboard

Activity

Settings

SERVICES

SERVERS

HYPERVISORS

NETWORKING

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

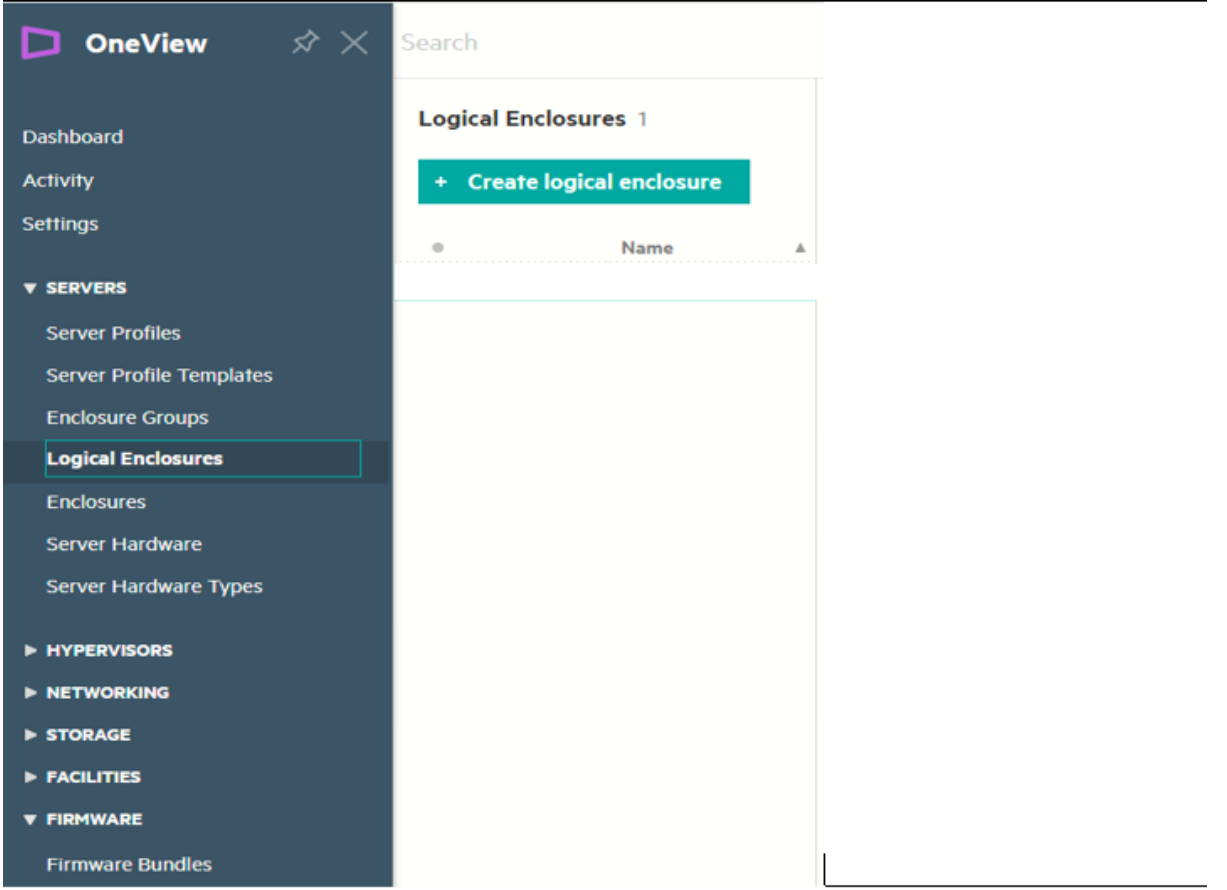
Available

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

x

Enclosure group

EG-APO

x

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

[illegible]

OneView Search

Logical Interconnects 1

LE-APO-LIG-APO Logical Interconnect

Logical Interconnect

Internal
no networks

Actions

- Edit
- Update firmware
- Configure port monitoring
- Refresh
- Reapply configuration
- Download MAC table
- 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

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

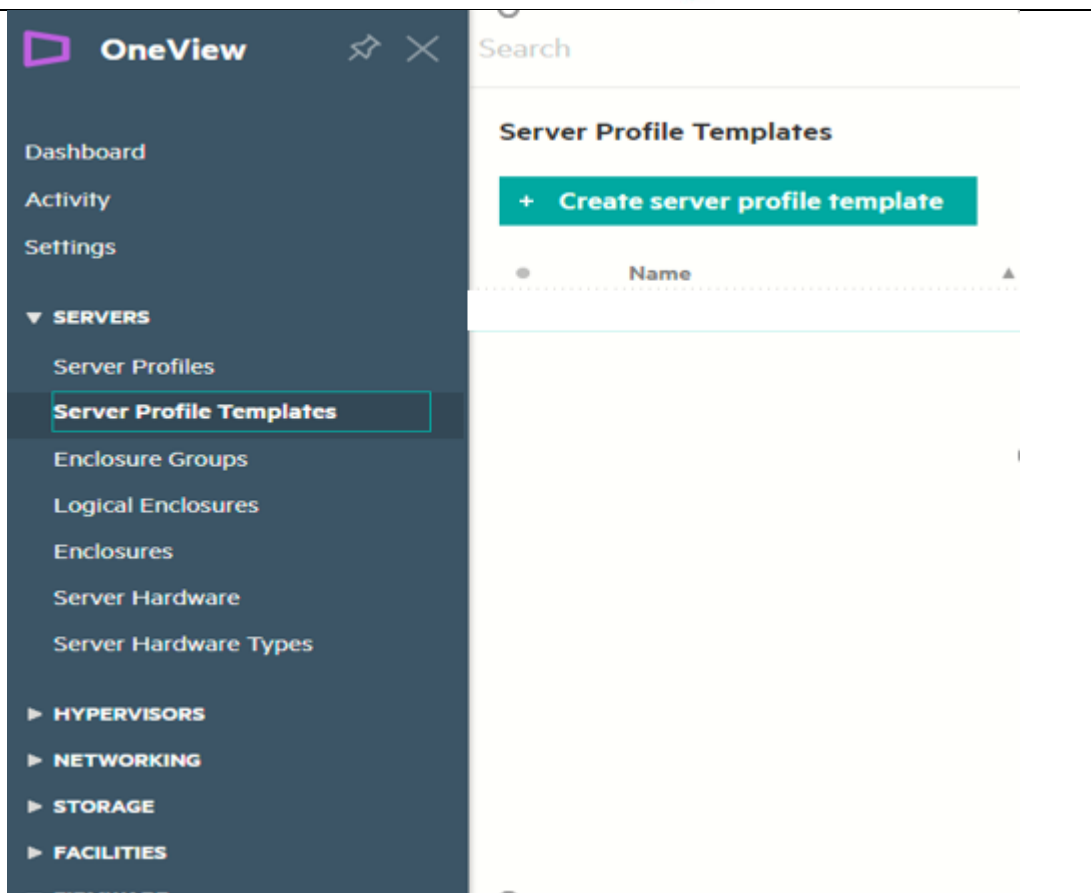
Logical Interconnect [Edit](#)

Internal
no networks

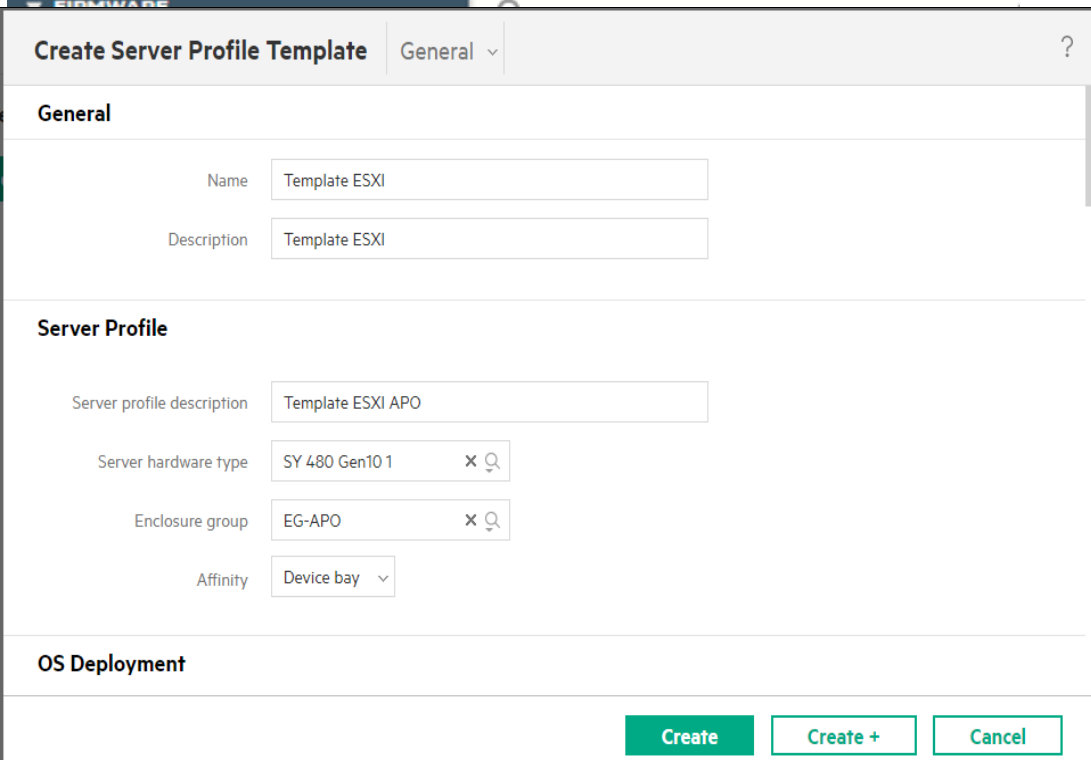
g. Server Profile template

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. The 'General' tab is selected. The form has the following fields:

- Name:** Template ESXI
- Description:** Template ESXI
- Server Profile:**
 - Server profile description:** Template ESXI APO
 - Server hardware type:** SY 480 Gen10 1
 - Enclosure group:** EG-APO
 - Affinity:** Device bay
- OS Deployment:** (empty field)

At the bottom right, there are three buttons: 'Create' (red), 'Create +' (blue), and 'Cancel' (blue).

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)

Boot

Total 3

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

OneView

Search

Server Profile Templates 2

+ Create server profile template

Template-ESXI

Template-ORACLE

Template-ORACLE

Overview

Actions

General

Description

not set

Server profile description

not set

Server hardware type

SY 480 Gen10 1

Enclosure group

HD-EG

Affinity

Device bay

Connections

2

SAN volume attachments

managed manually

Logical drives

0

Logical JBODs

0

Firmware baseline

HPE Synergy Service Pack version SY-2022.11.01

BIOS

managed manually

ILO Settings

managed manually

Server Profiles 1

1

Consistent



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

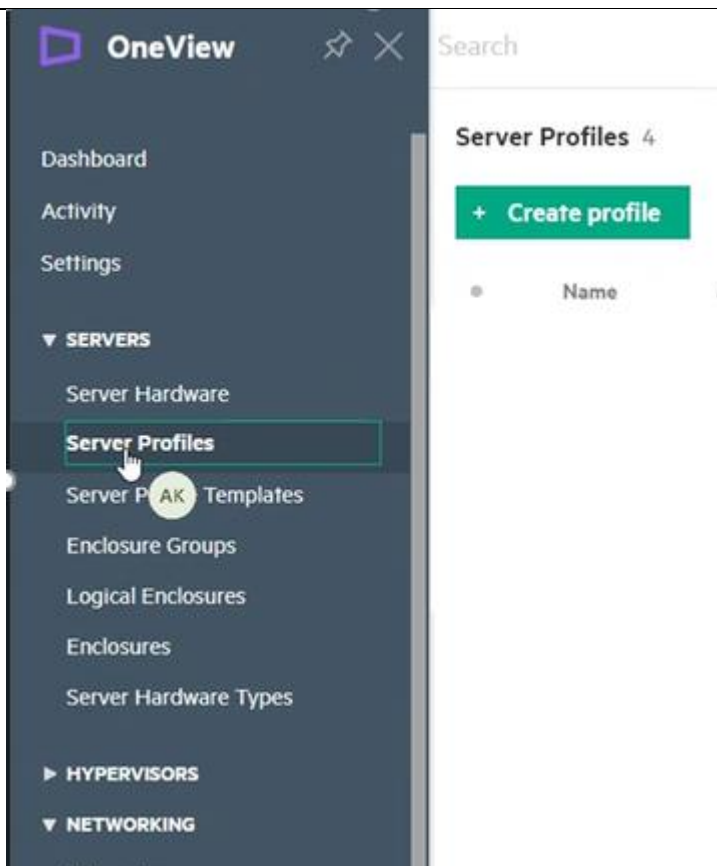
ref. name	Connection name	Network / network set name	Port	Requested bandwidth (Gb/s)
server connection #1	LAN MGMT P1	HD-MGMT	Mezz3-Port1-a	2GB
server connection #2	LAN MGMT P2	HD-MGMT	Mezz3-Port2-a	2GB
server connection #3	LAN DMZ P1	DMZ	Mezz3-Port1-c	2Gb
server connection #4	LAN DMZ P2	DMZ	Mezz3-Port2-c	2GB
server connection #5	LAN CORPORATE P1	Corporate	Mezz3-Port1-d	8GB
server connection #6	LAN CORPORATE P2	Corporate	Mezz3-Port2-d	8GB
server connection #7	LAN MGMT DNS P1	Management DNS	Mezz3-Port1-e	1,5GB
server connection #8	LAN MGMT DNS P2	Management DNS	Mezz3-Port2-e	1,5GB
server connection #9	LAN-Vmotion-P1	Vmotion	Mezz3-Port1-f	2,5GB
server connection #10	LAN-Vmotion-P2	Vmotion	Mezz3-Port2-f	2,5GB
server connection #11	RX-Storage-SAN-A	SAN-A	Mezz3-Port1-b	6GB
server connection #12	RX-Storage-SAN-B	SAN-B	Mezz3-Port2-b	6GB
server connection #13	LAN-BACKUP-P1	backup	Mezz3-Port1-g	3GB
server connection #14	LAN-BACKUP-P2	backup	Mezz3-Port2-g	3GB

✚ Profil connexion mapping for server profile Template “Template-Windows”

ref. name	Connection name	Network / network set name	Port	Requested bandwidth (Gb/s)
server connection #1	LAN MGMT P1	Management SRV	Mezz3-Port1-c	2GB
server connection #2	LAN MGMT P2	HD-MGMT	Mezz3-Port2-c	2GB
server connection #3	LAN CORPORATE P1	Corporate	Mezz3-Port1-a	2Gb
server connection #4	LAN CORPORATE P2	Corporate	Mezz3-Port2-a	2GB
server connection #5	SAN-A	SAN-A	Mezz3-Port1-b	8GB
server connection #6	SAN-B	SAN-B	Mezz3-Port2-b	



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

Description

Server profile template Template-ESXI [Change](#)

Server hardware ✕ 🔍

☐ 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 Tunis

Server profile Name
ESXI-BAY2
ESXI-BAY3
HYPER-V-BAY1