



Hewlett Packard Enterprise



Configuration and Integration of the Solution

Veeam + HPE StoreOnce



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1. Introduction

Modern businesses are anchored to a hybrid, hyper-scale ecosystem where every interaction results in massive and complex datasets that are crucial in their digital transformation journey. While this data needs to be protected and recovered in a simple, automated, reliable, and resilient manner, an unprecedented surge in ransomware attacks mandates the inclusion of data protection within a

comprehensive security strategy. Hewlett Packard Enterprise and Veeam co-innovation provides numerous integration options with Veeam Backup & Replication and HPE storage to deliver features that enable rapid, efficient, scalable, and secure backup and recovery throughout the lifecycle of data generated by a myriad of workloads.

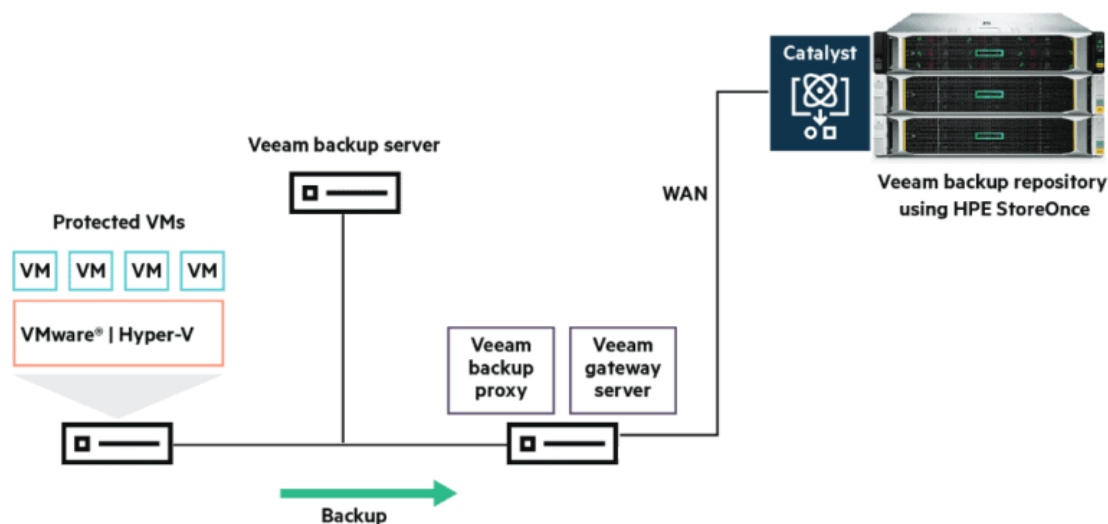
The integration of HPE StoreOnce with Veeam Backup & Replication version 12 present many benefits for complying with the 3-2-1-1 data protection rule (extension of 3-2-1 rule, where one copy must be immutable or air-gapped for ransomware protection) to protect data against planned and unplanned outages.

This document provides information for setting up and managing data availability infrastructures that include Veeam Backup & Replication, HPE StoreOnce backup appliances configured with HPE StoreOnce Catalyst backup targets.

2. Access

Management settings	Address IP		Mask
	Management Console	172.16.1.64	255.255.255.0
	ILO	172.16.1.65	255.255.255.0

3. Architecture



4. ILO and Console Configuration

During startup,

1/ Press F9 System Utilities.

2/ Go to System Configuration, iLO 5 Configuration, Network Options.

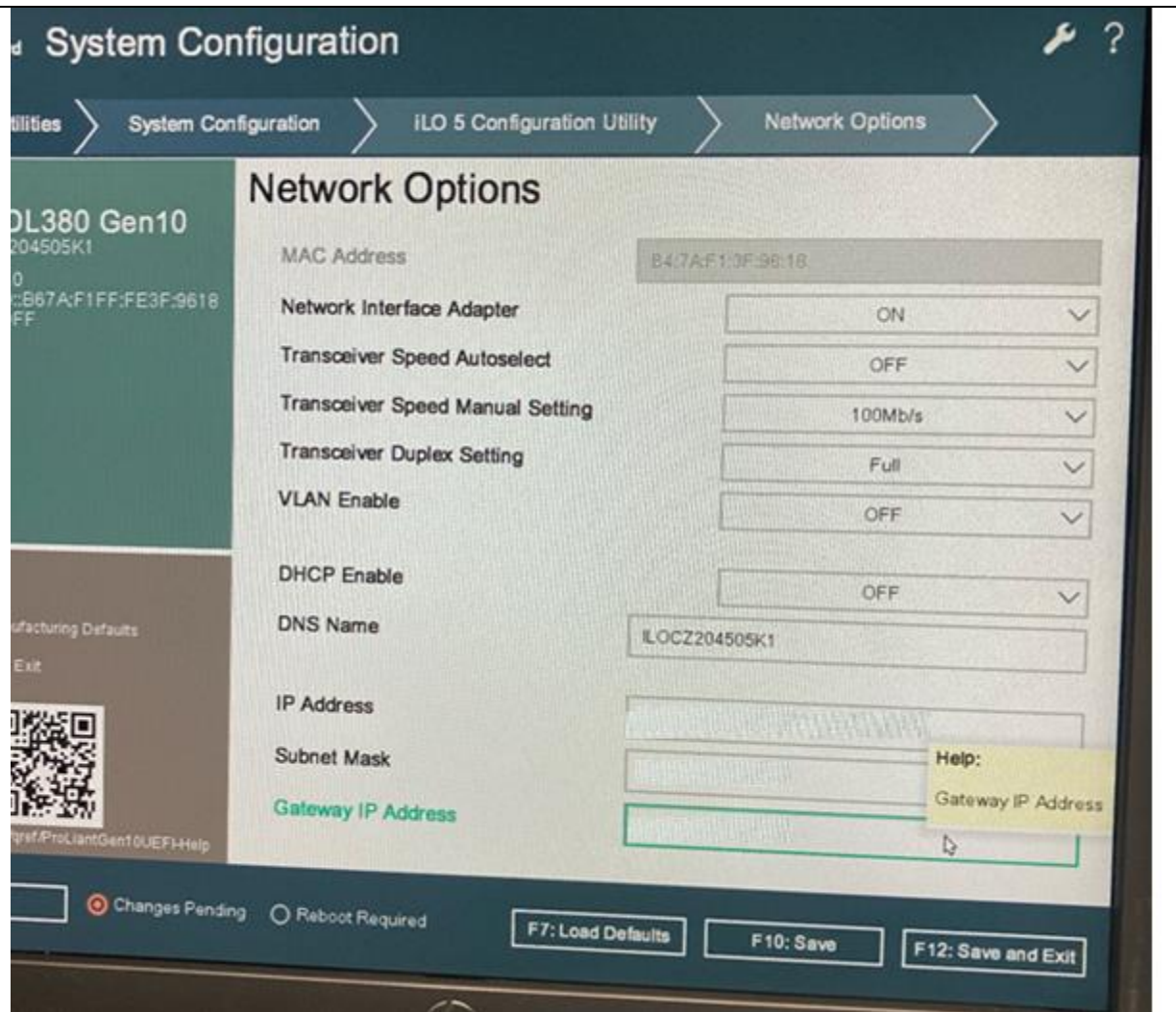
3/ Configure the options

iLO IP address:

172.16.1.65

iLO subnet

mask:255.255.255.0



System Configuration

Utilities > System Configuration > iLO 5 Configuration Utility > Network Options

Network Options

DL380 Gen10
204505K1
B67A:F1FF:FE3F:9618
FF

MAC Address: B4:7A:F1:3F:96:18

Network Interface Adapter: ON

Transceiver Speed Autoselect: OFF

Transceiver Speed Manual Setting: 100Mb/s

Transceiver Duplex Setting: Full

VLAN Enable: OFF

DHCP Enable: OFF

DNS Name: ILOCZ204505K1

IP Address:

Subnet Mask:

Gateway IP Address:

Help: Gateway IP Address

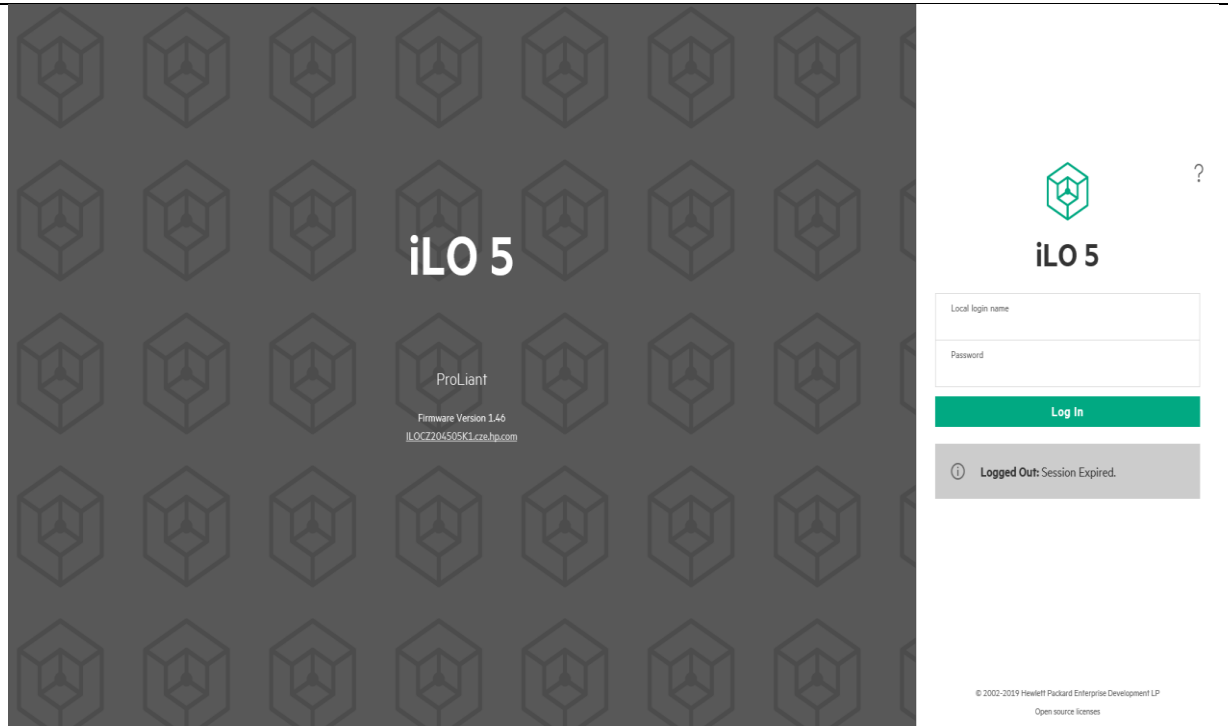
Changes Pending Reboot Required

F7: Load Defaults F10: Save F12: Save and Exit

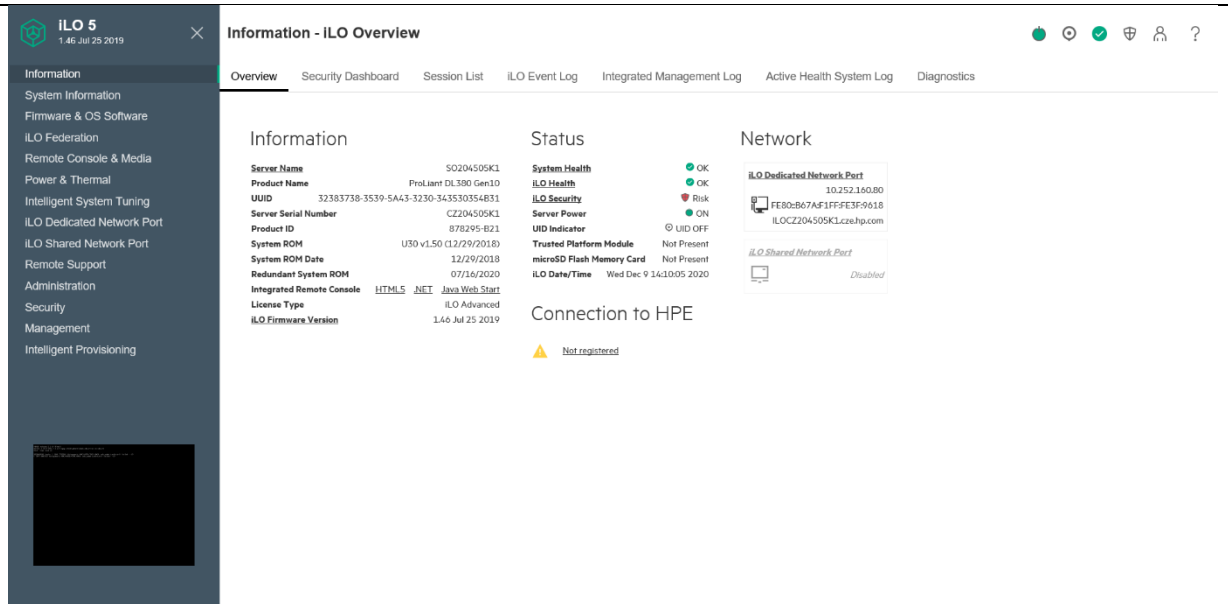
Open a browser
enter the IP address
of your iLO interface
then access the
administration web
interface.

Factory default
access information:

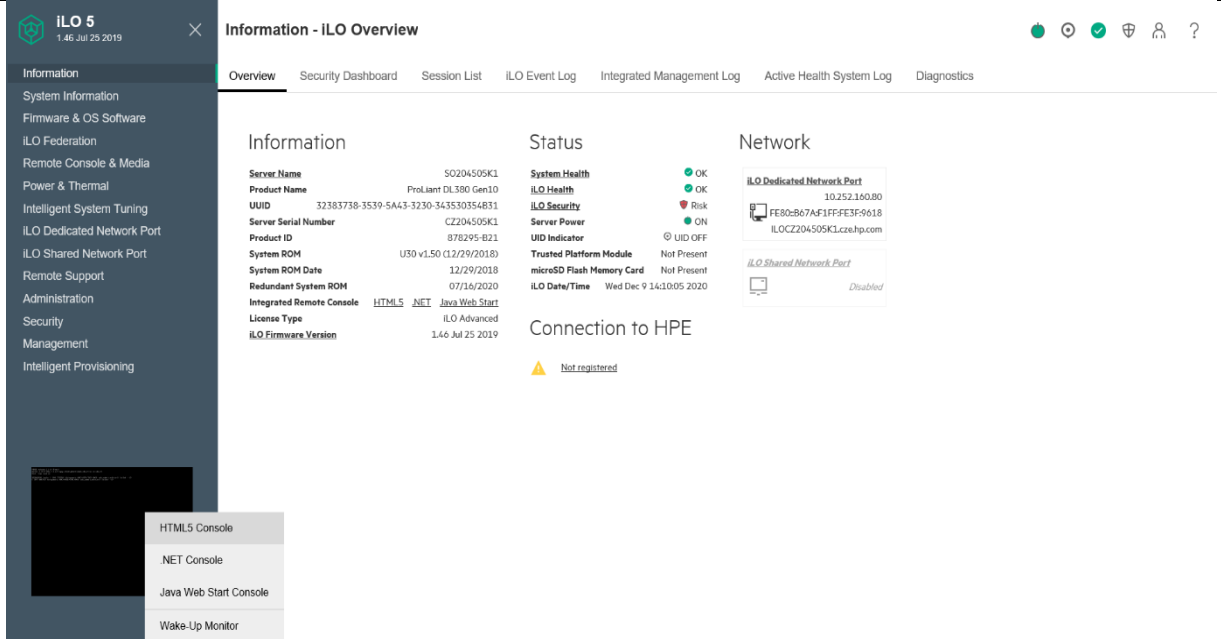
- Username:
Administrator
- Password:
available on your
server information
tag



iLO Overview



To configure the management port 1 ip address, open the console with 'HTML5 Console'



iLO 5
1.46 Jul 25 2019

Information - ILO Overview

Overview | Security Dashboard | Session List | iLO Event Log | Integrated Management Log | Active Health System Log | Diagnostics

Information

Server Name	S0204505K1
Product Name	ProLiant DL380 Gen10
UUID	32383738-3539-5A43-3230-343530354831
Server Serial Number	CZ204505K1
Product ID	878295-621
System ROM	US0 v1.50 (12/29/2018)
System ROM Date	12/29/2018
Redundant System ROM	07/16/2020
Integrated Remote Console	HTML5 NET Java Web Start
License Type	iLO Advanced
iLO Firmware Version	1.46 Jul 25 2019

Status

System Health: OK
iLO Health: OK
iLO Security: Risk
Server Power: ON
UID Indicator: @ UID OFF
Trusted Platform Module: Not Present
microSD Flash Memory Card: Not Present
iLO Date/Time: Wed Dec 9 14:10:05 2020

Network

iLO Dedicated Network Port
10.252.160.80
FE80::B67AF1FF-FE3F-9618
ILOCCZ204505K1.cze.hp.com

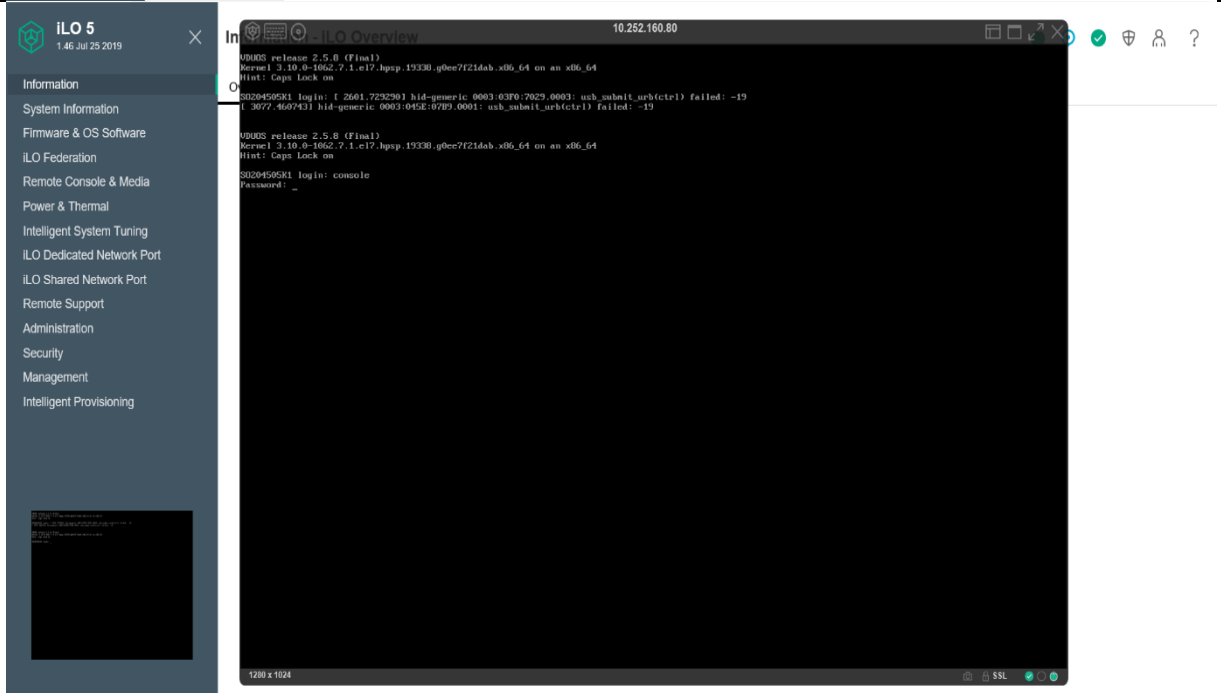
iLO Shared Network Port
Disabled

Connection to HPE
Not registered

HTML5 Console
NET Console
Java Web Start Console
Wake-Up Monitor

Log in to the console using the default username and password.

Username: console
Password: changeme



iLO 5
1.46 Jul 25 2019

Information - ILO Overview

Overview | Security Dashboard | Session List | iLO Event Log | Integrated Management Log | Active Health System Log | Diagnostics

Information

Server Name	S0204505K1
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ILOCCZ204505K1.cze.hp.com

iLO Shared Network Port
Disabled

Connection to HPE
Not registered

HTML5 Console
NET Console
Java Web Start Console
Wake-Up Monitor

Console Login

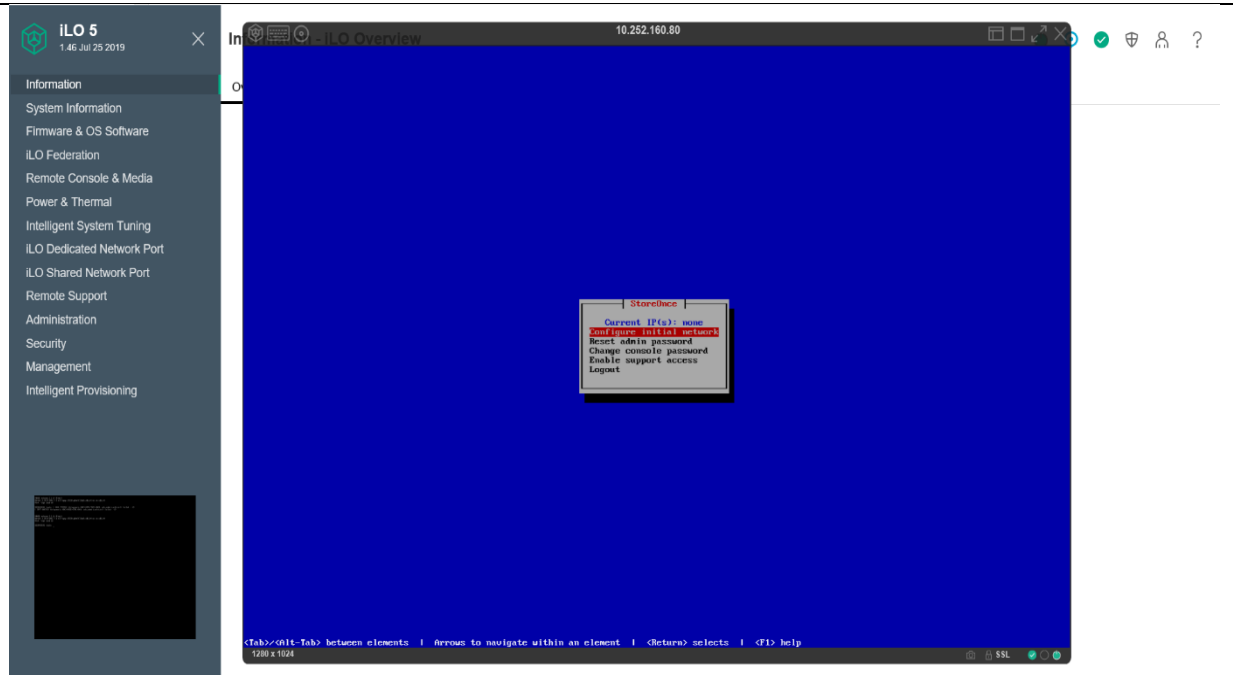
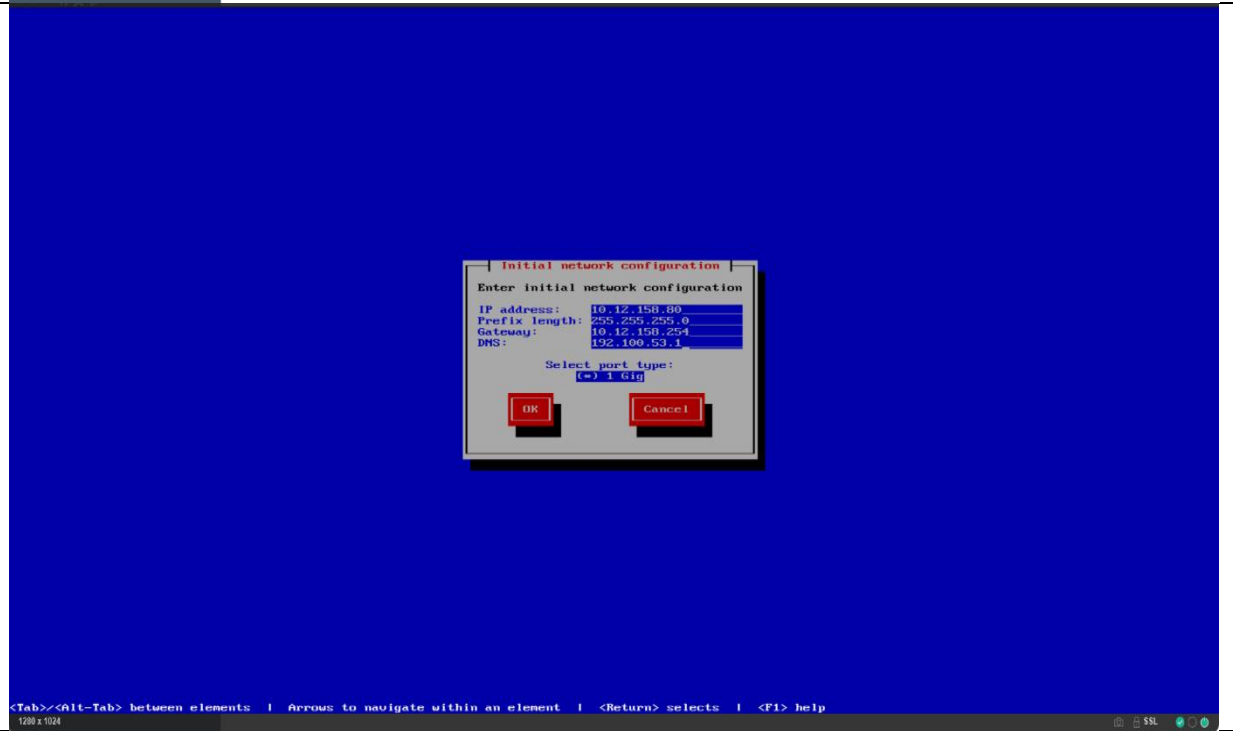
```

iLO release 2.5.8 (Final)
Server: 3.10.0-1062.7.1.el7.hmp.19330.g0ec7f21dab.x86_64 on an x86_64
Init: Caps Lock on

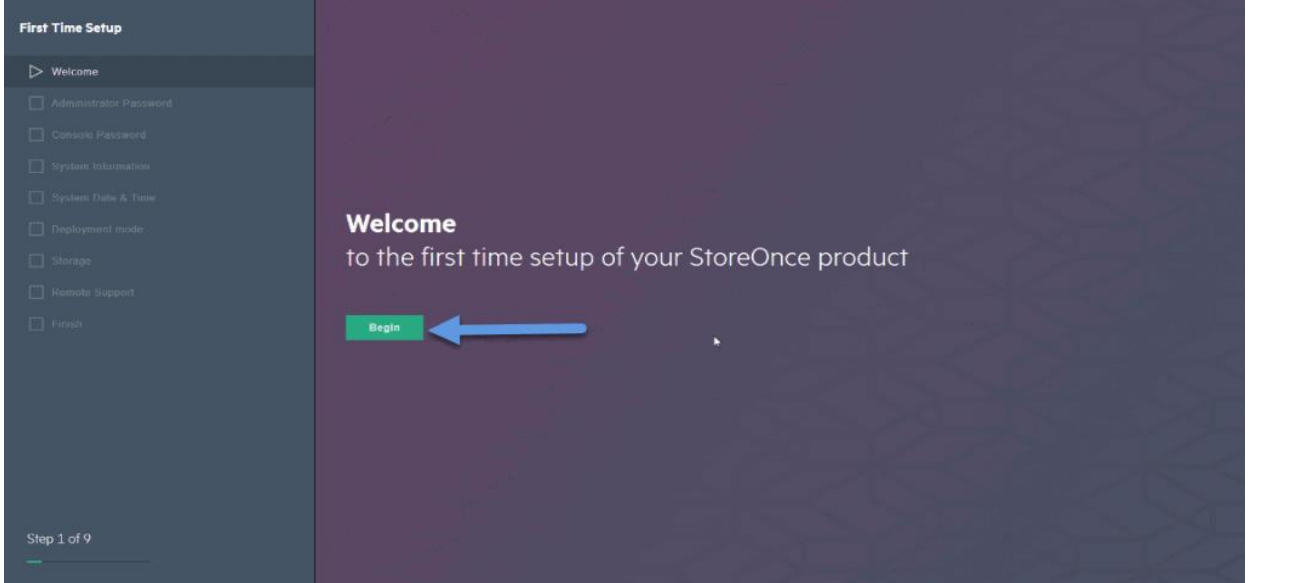
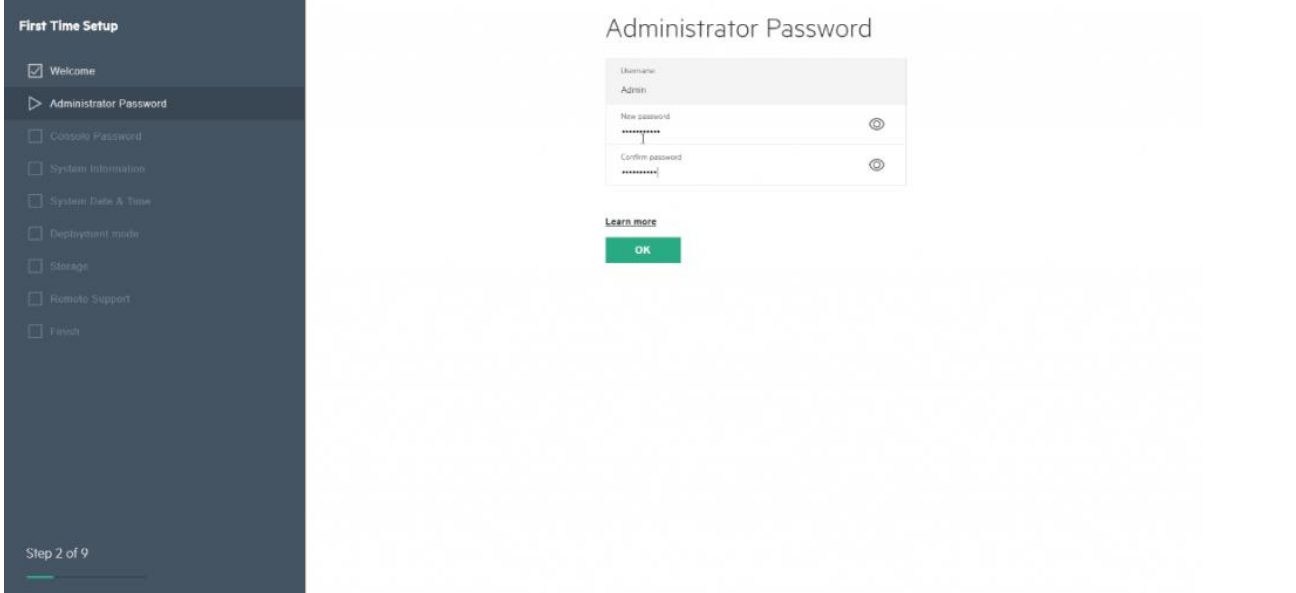
30204505K1 login: ( 2681.723290) h1d-generic: 0003:6370:7829:0003: ush_ashmit_urb(ctr1) failed: -19
302774697431 h1d-generic: 0003:045E:079D:0001: ush_ashmit_urb(ctr1) failed: -19

iLO release 2.5.8 (Final)
Server: 3.10.0-1062.7.1.el7.hmp.19330.g0ec7f21dab.x86_64 on an x86_64
Init: Caps Lock on

30204505K1 login: console
Password: _
  
```

<p>Change the console password to continue.</p>	
<p>To configure a static address for LAN port 1 (1 Gig), select the 'Configure initial network' option from the console menu.</p> <p>Open a web browser and use the IP address from the previous step to access the StoreOnce Management Console. Use 'First Time Setup' to configure the system</p>	

5. First time setup

<p>Open a browser and navigate to https://172.16.1.64</p>	 <p>The screenshot shows the 'First Time Setup' interface. On the left, a sidebar lists steps: Welcome, Administrator Password, Console Password, System Information, System Date & Time, Deployment mode, Storage, Remote Support, and Finish. The 'Welcome' step is selected. The main area displays 'Welcome to the first time setup of your StoreOnce product' and a green 'Begin' button, which is pointed to by a blue arrow. At the bottom left, it says 'Step 1 of 9'.</p>
<p>Assign new password</p>	 <p>The screenshot shows the 'First Time Setup' interface at 'Step 2 of 9: Administrator Password'. The sidebar now has 'Administrator Password' selected. The main area has the title 'Administrator Password' and a form with fields for 'Username' (pre-filled with 'Admin'), 'New password', and 'Confirm password'. There are 'Learn more' and 'OK' buttons at the bottom. The 'Step 2 of 9' indicator is at the bottom left.</p>

create a
password for
the Console

First Time Setup

- ☒ Welcome
- ☒ Administrator Password

Console Password

- ☐ System Information
- ☐ System Date & Time
- ☐ Deployment mode
- ☐ Storage
- ☐ Remote Support
- ☐ Finish

Step 3 of 9

Console Password

Username	console
New password	<input type="password"/>
Confirm password	<input type="password"/>

[Learn more](#)

OK

Enter system
information.

First Time Setup

- ☒ Welcome
- ☒ Administrator Password
- ☒ Console Password

System Information

- ☐ System Date & Time
- ☐ Deployment mode
- ☐ Storage
- ☐ Remote Support
- ☐ Finish

Step 4 of 9

System Information

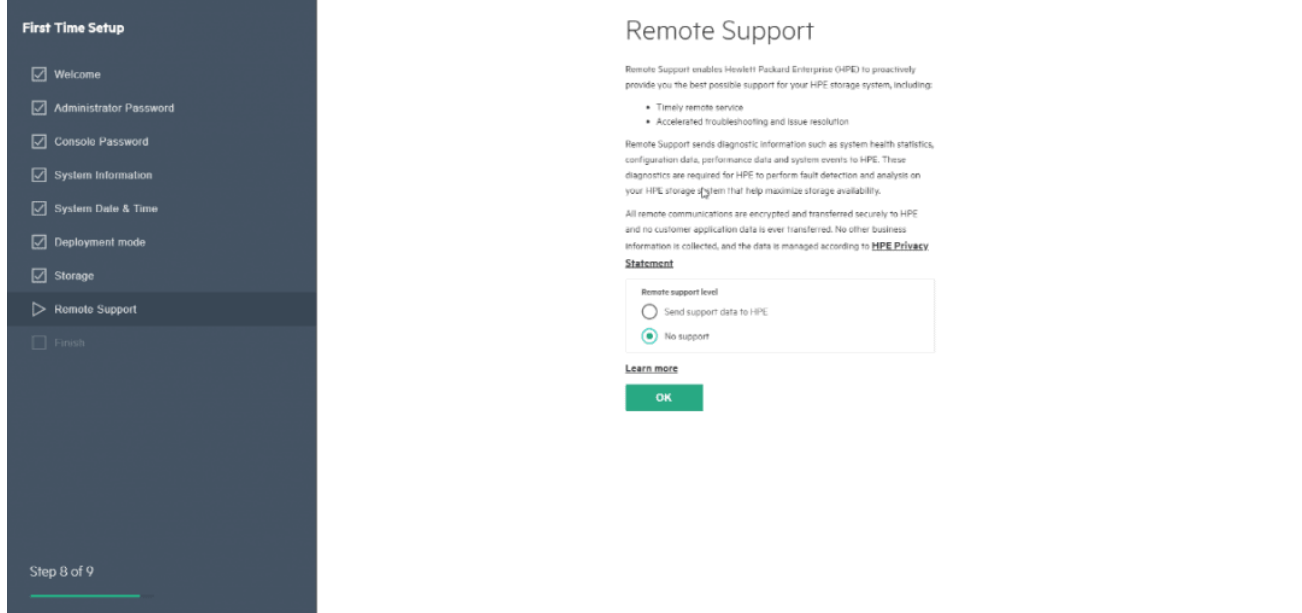
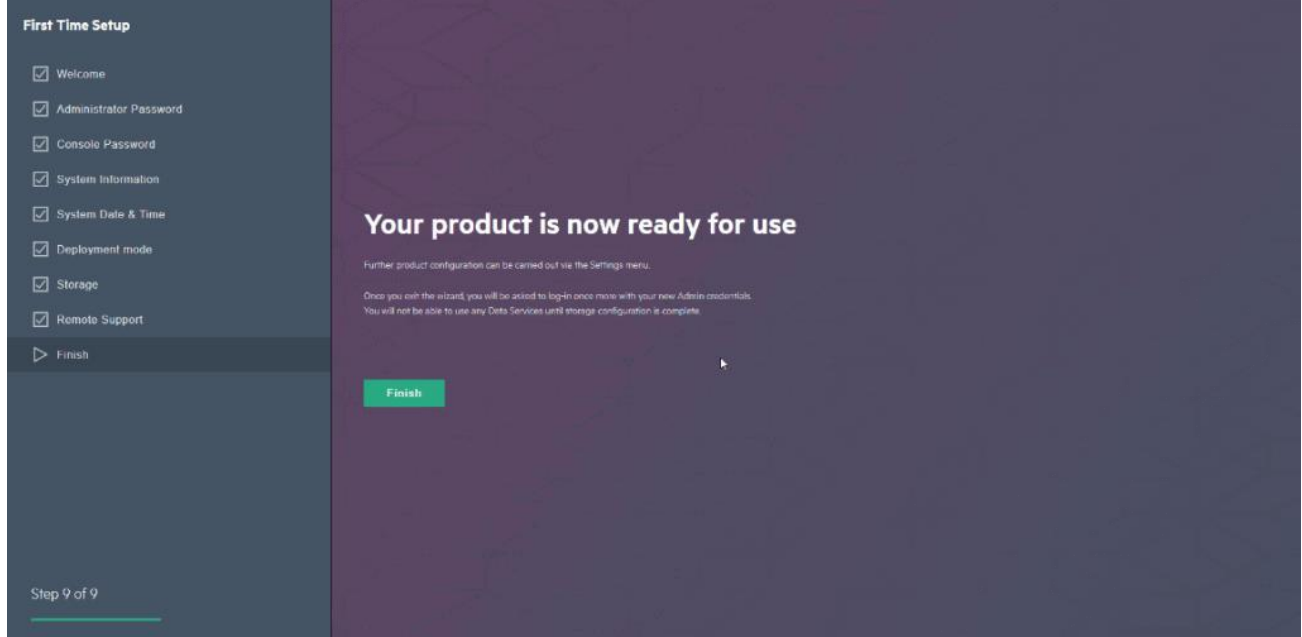
System Name (mandatory)	SOYUKDPQV3
Location	<input type="text"/>
Contact name	Jorge de la Cruz
Contact number	<input type="text"/>
Contact email	<input type="text"/>

[Learn more](#)

[HPE Privacy Statement](#)

OK

<p>We will configure now the time and timezone, we can use a NTP server in case we can access one, or select it manually</p>	<p>First Time Setup</p> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Welcome <input checked="" type="checkbox"/> Administrator Password <input checked="" type="checkbox"/> Console Password <input checked="" type="checkbox"/> System Information System Date & Time <input type="checkbox"/> Deployment mode <input type="checkbox"/> Storage <input type="checkbox"/> Remote Support <input type="checkbox"/> Finish <p>Step 5 of 9</p>	<p>System Date & Time</p> <p>Current system date and time: 8/29/2020 5:29 pm UTC <small>(M/D/YYYY h:mm a)</small></p> <div> <input checked="" type="radio"/> Synchronize with time server (recommended) <input type="radio"/> Enter date and time manually </div> <div> Network time server 1: </div> <div> Network time server 2 (optional): </div> <div> System time zone: UTC </div> <p>Learn more</p> <p>OK</p>
<p>The storage is successfully initialized and online</p>	<p>Configuration initiale</p> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Bienvenue <input checked="" type="checkbox"/> Mot de passe de l'administrateur <input checked="" type="checkbox"/> Mot de passe de la console <input checked="" type="checkbox"/> Informations sur le système <input checked="" type="checkbox"/> Modifier la date et l'heure système Stockage <input type="checkbox"/> Assistance à distance <input type="checkbox"/> Autorisation double <input type="checkbox"/> Terminer 	<p>Stockage</p> <p>Stockage configuré</p> <div> 50,9 Tio </div> <p>Stockage non configuré</p> <div> 0,0 </div> <p>✓ En ligne, fonctionnement normal</p> <p>En savoir plus</p> <p>OK Configurer Relancer l'analyse</p>

<p>Finally, we will be able to select if we want Remote Support from HPE or not, send metrics, feedback,</p>	 <p>First Time Setup</p> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Welcome <input checked="" type="checkbox"/> Administrator Password <input checked="" type="checkbox"/> Console Password <input checked="" type="checkbox"/> System Information <input checked="" type="checkbox"/> System Date & Time <input checked="" type="checkbox"/> Deployment mode <input checked="" type="checkbox"/> Storage ▶ Remote Support <input type="checkbox"/> Finish <p>Step 8 of 9</p> <p>Remote Support</p> <p>Remote Support enables Hewlett Packard Enterprise (HPE) to proactively provide you the best possible support for your HPE storage system, including:</p> <ul style="list-style-type: none"> • Timely remote service • Accelerated troubleshooting and issue resolution <p>Remote Support sends diagnostic information such as system health statistics, configuration data, performance data and system events to HPE. These diagnostics are required for HPE to perform fault detection and analysis on your HPE storage system that help maximize storage availability.</p> <p>All remote communications are encrypted and transferred securely to HPE and no customer application data is ever transferred. No other business information is collected, and the data is managed according to HPE Privacy Statement</p> <p>Statement</p> <p>Remote support level</p> <p><input type="radio"/> Send support data to HPE</p> <p><input checked="" type="radio"/> No support</p> <p>Learn more</p> <p>OK</p>
<p>The configuration is completed , click finish</p>	 <p>First Time Setup</p> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Welcome <input checked="" type="checkbox"/> Administrator Password <input checked="" type="checkbox"/> Console Password <input checked="" type="checkbox"/> System Information <input checked="" type="checkbox"/> System Date & Time <input checked="" type="checkbox"/> Deployment mode <input checked="" type="checkbox"/> Storage <input checked="" type="checkbox"/> Remote Support ▶ Finish <p>Step 9 of 9</p> <p>Your product is now ready for use</p> <p>Further product configuration can be carried out via the Settings menu.</p> <p>Once you exit the wizard, you will be asked to log-in once more with your new Admin credentials. You will not be able to use any Data Services until storage configuration is complete.</p> <p>Finish</p>

Log in with
Admin and
the **password**



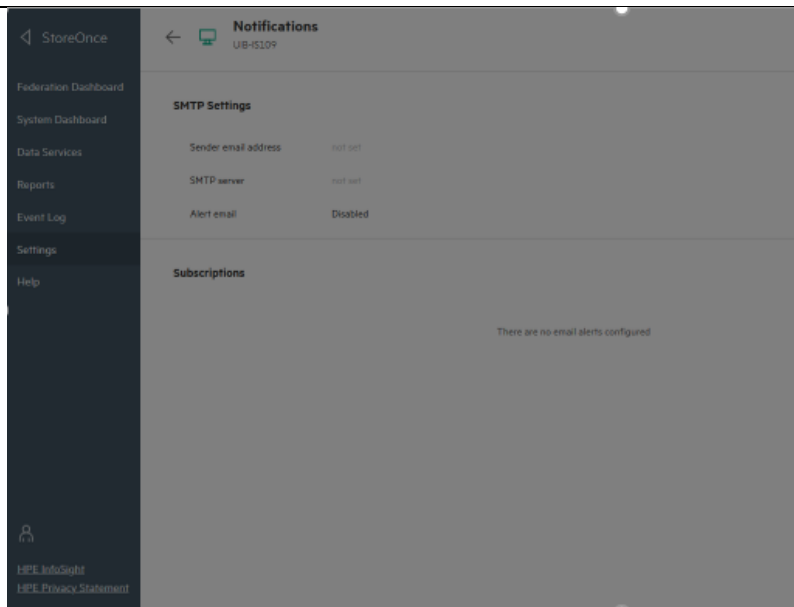
Console de gestion StoreOnce

Nom d'utilisateur	admin
Mot de passe	*****

Connexion

6. Configuration serveur SMTP

Pour configurer les
notifications,
Settings →
Notifications.



Edit SMTP Settings

Sender email address	
Password (optional)	*****
SMTP server	
SMTP port	25
<input checked="" type="checkbox"/> Enable email alerts	

[Learn more](#)

OK

Reset

7. License Management

To check and manage licenses.

Settings → License Management.

StoreOnce

Federation Dashboard

System Dashboard


Data Services

Reports

Event Log


Settings

Help



HPE InfoSight
HPE Privacy Statement

←




License Management
UIB-IS109

✓ Standalone Mode. Support agreements available.

Overview
Licenses
Optional Hardware

Name	Category	License Type	Capacity	Expiration
BB969A HPE StoreOnce 5250/5650-120TB Drawer	Storage	Capacity	120 TB	None
BB977A HPE StoreOnce 5250/5650-88TB Upgrade	Storage	Capacity	88 TB	None
BB987A HPE StoreOnce Gen4 16Gb FC Network Card	Hardware	Fibre Channel Optional Hardware	-	None

Actions

 Add license
 Remove Cards

8. Catalyst Store Creation

To create catalyst stores

Data Services → Catalyst Stores.

StoreOnce

Federation Dashboard

System Dashboard


Data Services

Reports

Event Log


Settings

Help



HPE InfoSight
HPE Privacy Statement

←


Data Services

✓ Running

Catalyst Stores
Cloud Bank Stores
VT Libraries
NAS Shares
VT Replication
NAS Replication

0

Store

Total

0

Store

Total

0

Library

Total

0

Share

Total

0

Mapping

Total

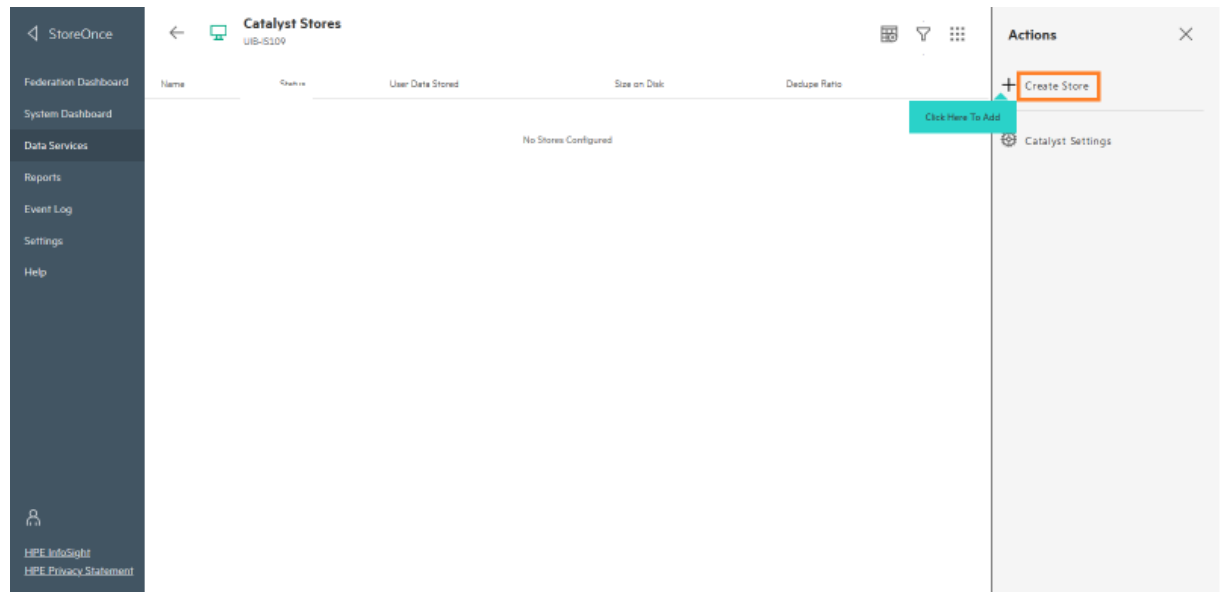
0

Mapping

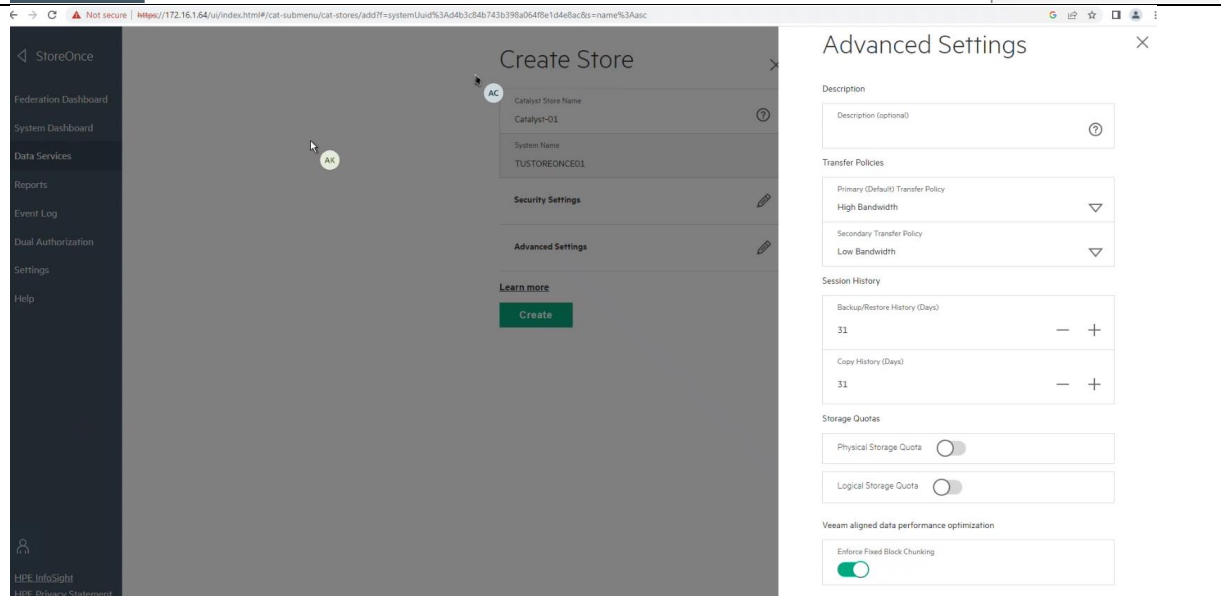
Total

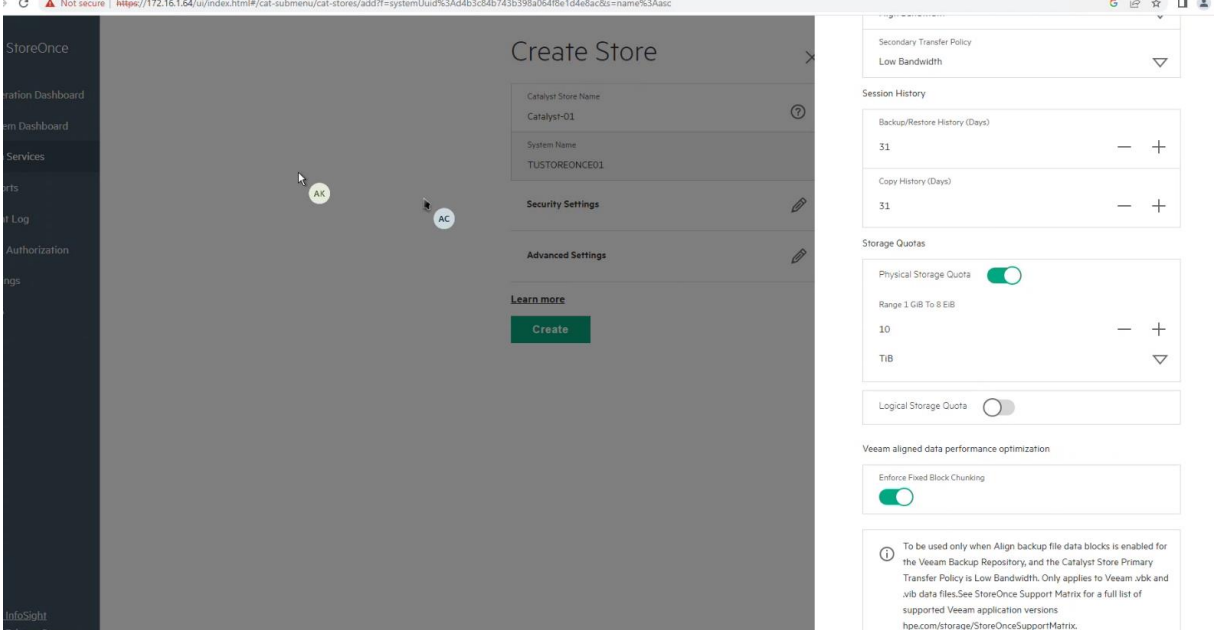
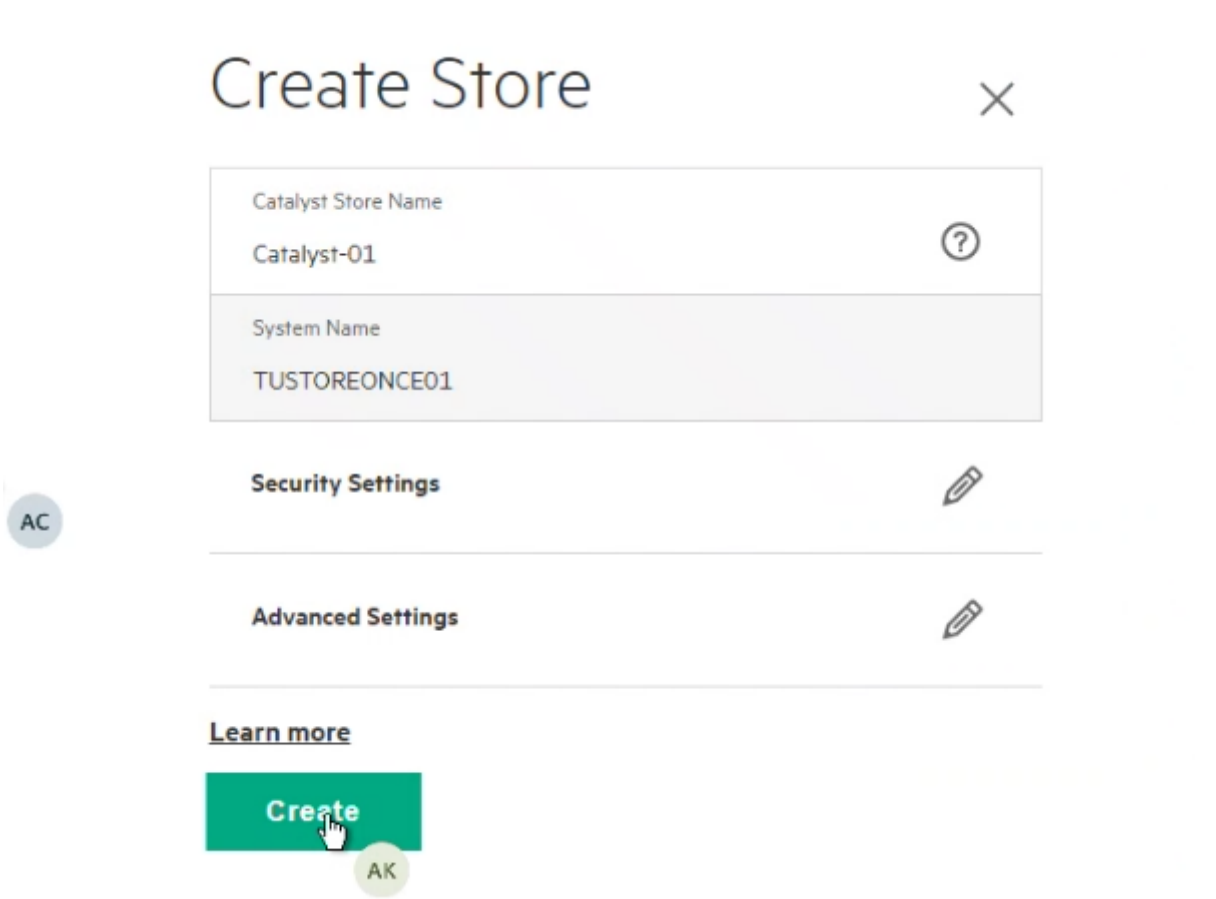
13

Cliquez **Create Store.**



Enter the necessary information (Name, Session History, Storage Quotas).




	
Click create	

9. Configuring access permissions to an HPE StoreOnce Catalyst Store

After a Catalyst Store is created, we configure Client Access to allow a selected group of client identifiers to have access to the HPE StoreOnce Catalyst Stores. Navigate to the **Permissions tab** of the required Catalyst Store and add a client.

These credentials are required when you create a backup repository using this Catalyst Store



Configure Client Access

Public Access 

Public Access Disabled


Client Access

Client	Description
No clients configured	

 Add Client
  Edit Access

OK

Add Client



Catalyst Client Name 

Veeam


Description (optional)

System


TUSTOREONCE01

Password  

Connect*123

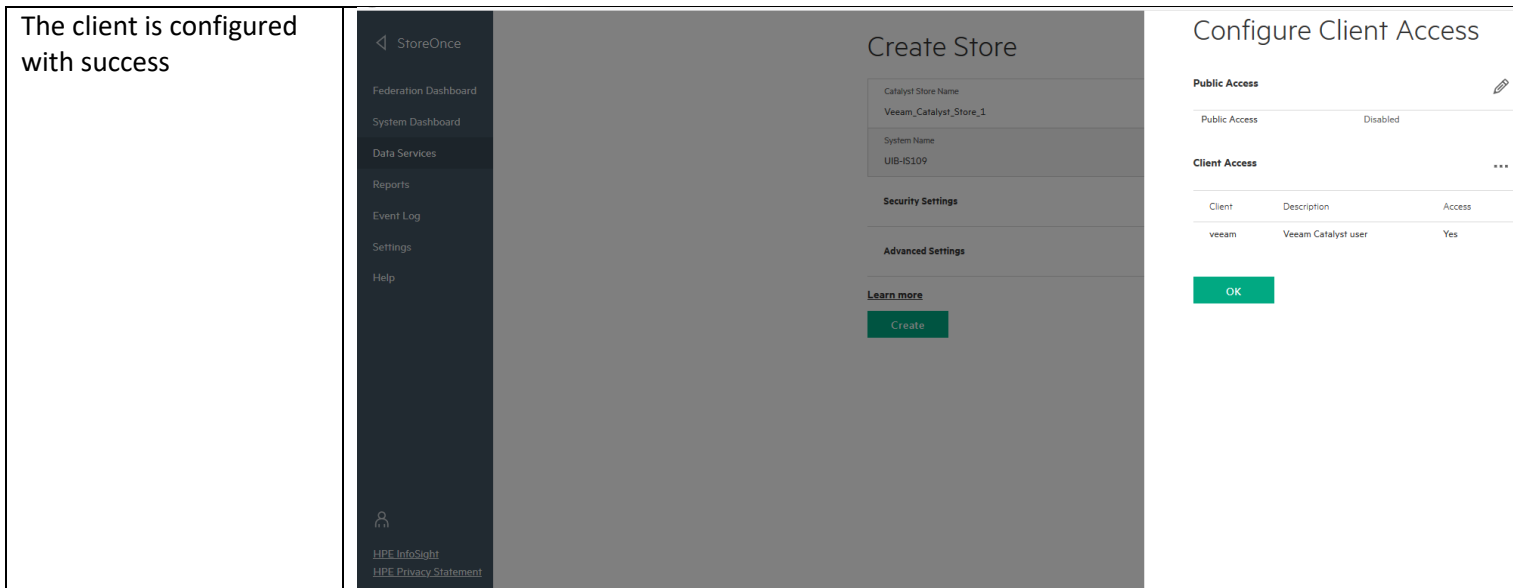
Confirm password 

.....

Access 

[Learn more](#)

Add



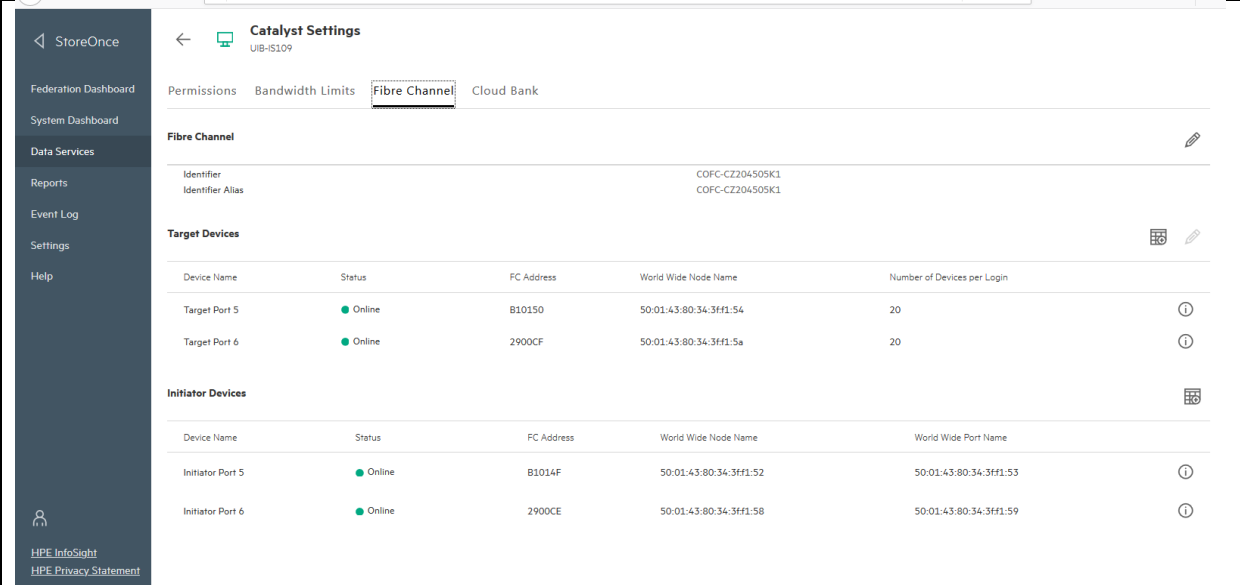
10. Connect to an HPE StoreOnce Catalyst Store via IP or Fibre Channel

There are two options for connecting Veeam servers to an HPE StoreOnce Catalyst Store.

1. IP/Ethernet: Catalyst over Ethernet (CoE) is the most commonly used option, and it is available with minimal configuration. This configuration is supported by Veeam gateways running on both physical and virtual servers. Every Veeam proxy server can also run the gateway service and directly access HPE StoreOnce via Catalyst protocol, thereby avoiding an additional hop in LAN. CoE is generally slightly faster than Catalyst over FC (CoFC).

2. Fibre Channel (FC): CoFC functions the same way as HPE StoreOnce CoE. However, some additional configuration is required to set up the backup and restore connections between the ports on the HPE StoreOnce appliance and the ports on the client servers. This is done using the Fibre Channel settings tab in the HPE StoreOnce GUI, shown in Figure 7. This GUI page is only available if CoFC is enabled on the HPE StoreOnce appliance. CoFC is only supported by Veeam gateways running on Windows physical servers. The configuration is less flexible than Ethernet and it is generally recommended when there isn't enough Ethernet bandwidth, or when there is a requirement to use a dedicated and isolated connectivity.

The FC settings of the HPE StoreOnce appliance are located at **Data Services → Catalyst Settings → Fibre Channel**.



The screenshot shows the 'Catalyst Settings' page for 'UIB-IS109'. The 'Fibre Channel' tab is selected. It displays the 'Fibre Channel' configuration with the following details:

- Identifier: COFC-CZ204505K1
- Identifier Alias: COFC-CZ204505K1

Below this, there are two tables: 'Target Devices' and 'Initiator Devices'.

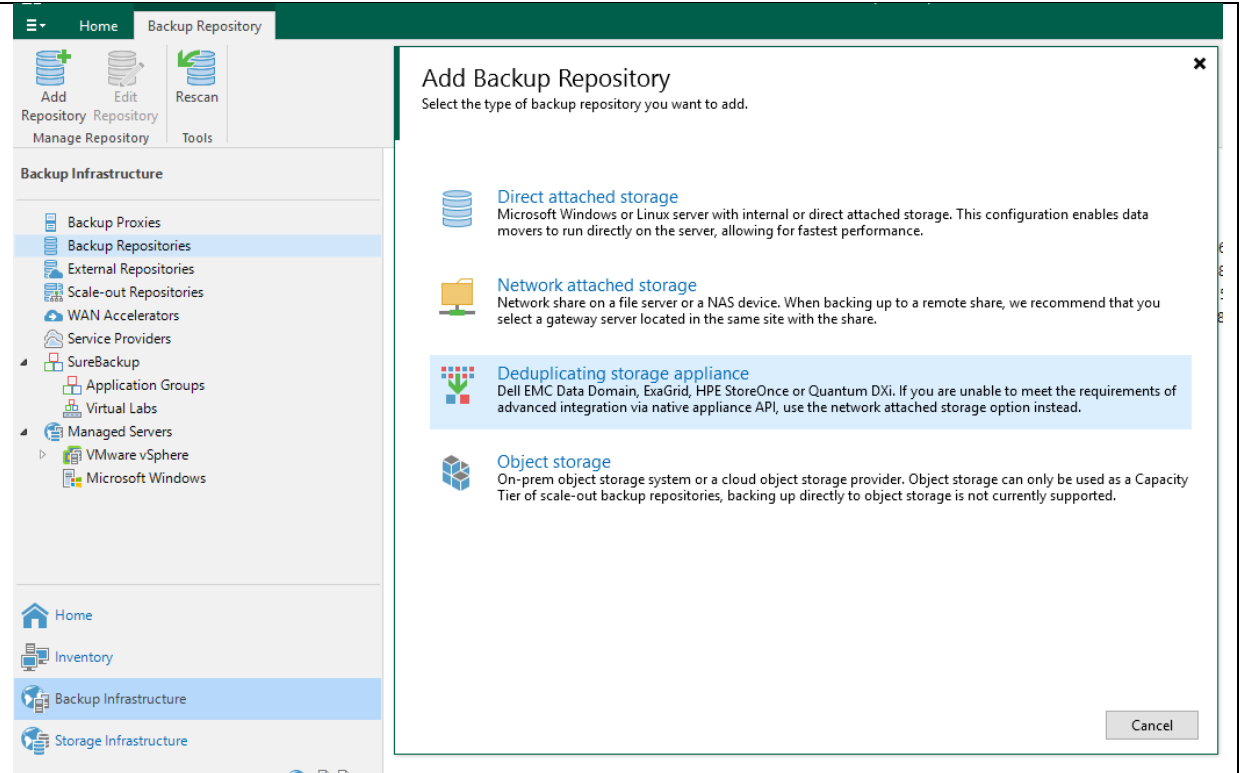
Device Name	Status	FC Address	World Wide Node Name	Number of Devices per Login
Target Port 5	Online	B10150	50-01:43:80:34:3ff1:54	20
Target Port 6	Online	2900CF	50-01:43:80:34:3ff1:5a	20

Device Name	Status	FC Address	World Wide Node Name	World Wide Port Name
Initiator Port 5	Online	B1014F	50-01:43:80:34:3ff1:52	50-01:43:80:34:3ff1:53
Initiator Port 6	Online	2900CE	50-01:43:80:34:3ff1:58	50-01:43:80:34:3ff1:59

11. Creating an immutable HPE StoreOnce Catalyst-based Veeam backup repository

A Veeam backup repository is simply defined as storage for Veeam backup files created by Veeam Backup & Replication. In the case of an HPE StoreOnce Catalyst Store, the Veeam backup proxy reads backup data from the source infrastructure and moves it to the Catalyst Store via a Veeam gateway server

Click Backup Infrastructure in Veeam Backup & Replication. Right-click Backup Repositories and select Add backup repository. Select Deduplicating storage appliance



The screenshot shows the Veeam Backup & Replication console. The 'Backup Infrastructure' section is expanded, and 'Backup Repositories' is right-clicked. The 'Add Backup Repository' dialog is open, showing the following options:

- Direct attached storage**: Microsoft Windows or Linux server with internal or direct attached storage. This configuration enables data movers to run directly on the server, allowing for fastest performance.
- Network attached storage**: Network share on a file server or a NAS device. When backing up to a remote share, we recommend that you select a gateway server located in the same site with the share.
- Deduplicating storage appliance**: Dell EMC Data Domain, ExaGrid, HPE StoreOnce or Quantum DXi. If you are unable to meet the requirements of advanced integration via native appliance API, use the network attached storage option instead.
- Object storage**: On-prem object storage system or a cloud object storage provider. Object storage can only be used as a Capacity Tier of scale-out backup repositories, backing up directly to object storage is not currently supported.

Select HPE
StoreOnce as the
Deduplicating
Storage Appliance



Deduplicating Storage Appliances



Select the type of a deduplication storage appliance you want to use as a backup repository.



Dell EMC Data Domain

Adds Dell EMC Data Domain storage unit. DDBoost license, and DD OS 6.1 or later are required.



ExaGrid

Adds ExaGrid share. ExaGrid firmware version 4.7 or later is required.



HPE StoreOnce

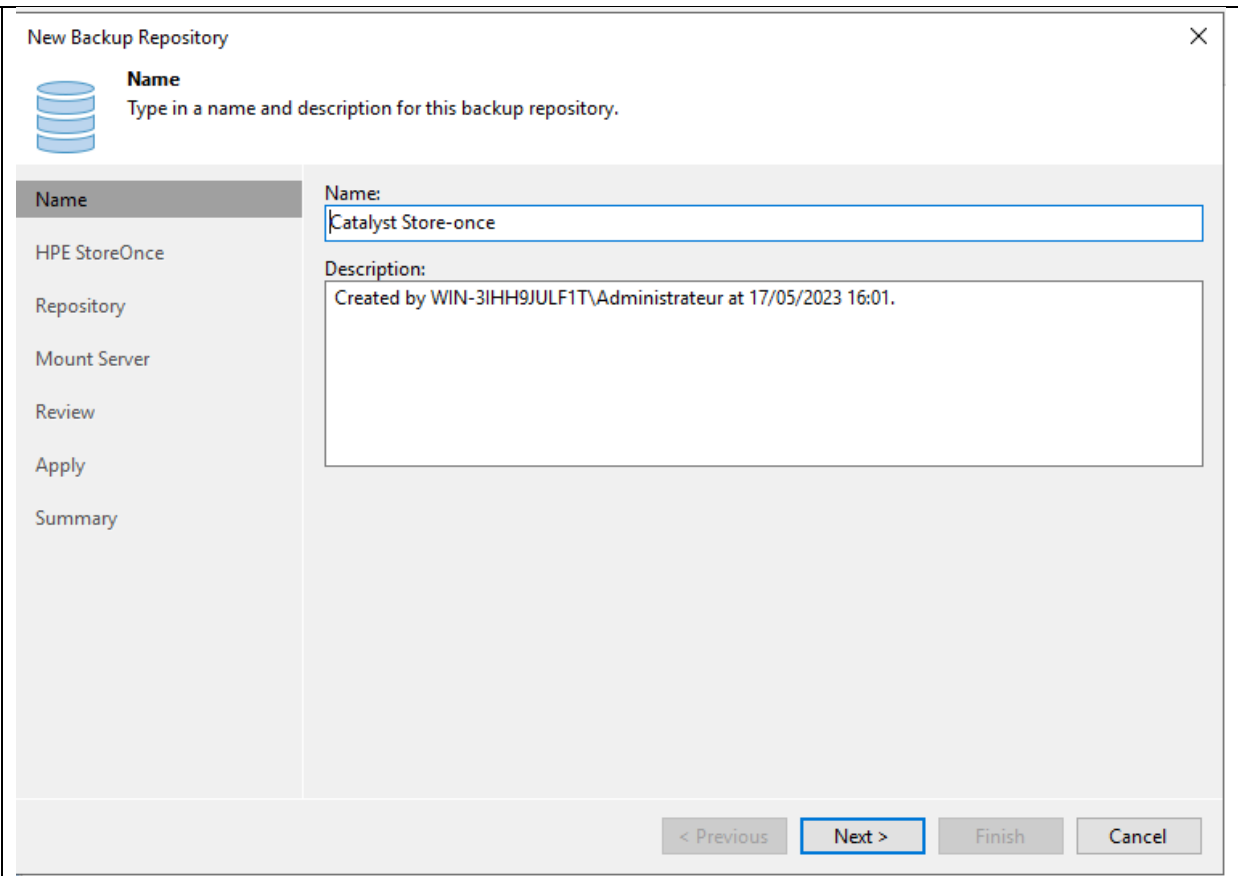
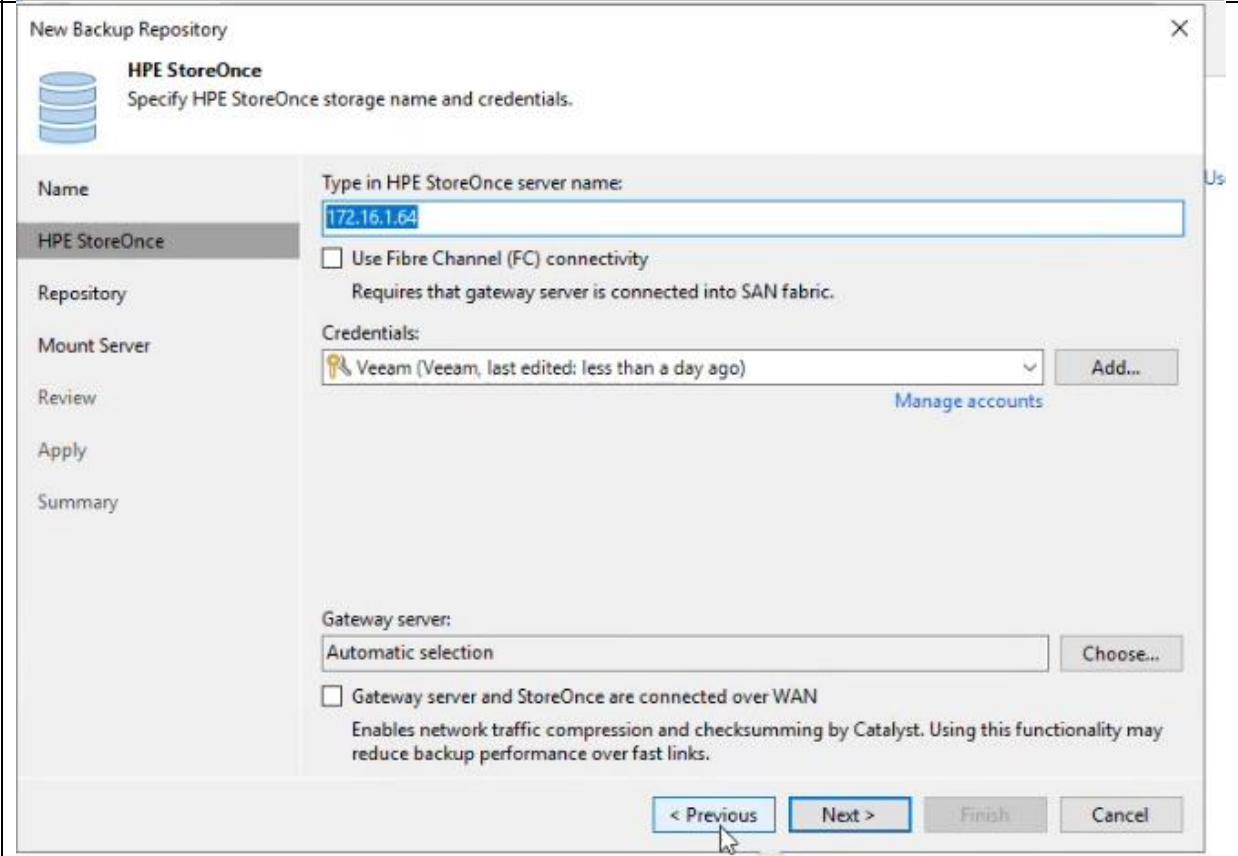
Adds HPE StoreOnce Catalyst store. Catalyst license, and StoreOnce firmware version 3.15.1 or later is required.



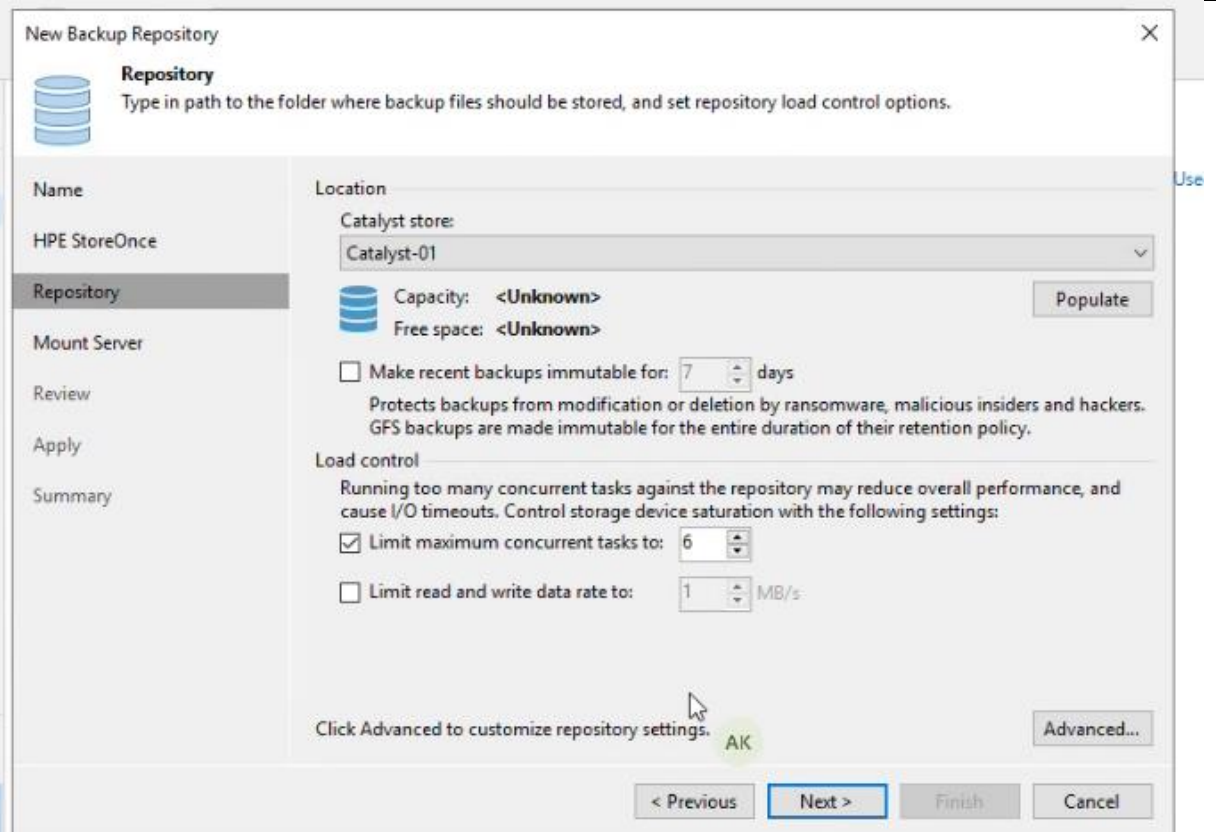
Quantum DXi

Adds Quantum DXi share. DXi software version 3.4.0 or later is required.

Cancel

<p>Set a the Backup Repository Name</p>	 <p>New Backup Repository</p> <p>Name Type in a name and description for this backup repository.</p> <p>Name: Catalyst Store-once</p> <p>Description: Created by WIN-3IHH9JULF1T\Administrateur at 17/05/2023 16:01.</p> <p>< Previous Next > Finish Cancel</p>
<p>HPE StoreOnce server name – The HPE StoreOnce server name can be specified in two forms for CoE and CoFC:</p> <ul style="list-style-type: none"> • For CoE, type IP or DNS name – For the DNS name, use a FQDN to avoid potential errors. • For CoFC, type the HPE StoreOnce FC identifier, which has the format "COFC-" 	 <p>New Backup Repository</p> <p>HPE StoreOnce Specify HPE StoreOnce storage name and credentials.</p> <p>Name: Type in HPE StoreOnce server name: 172.16.1.64</p> <p><input type="checkbox"/> Use Fibre Channel (FC) connectivity Requires that gateway server is connected into SAN fabric.</p> <p>Credentials: Veeam (Veeam, last edited: less than a day ago) Add... Manage accounts</p> <p>Gateway server: Automatic selection Choose...</p> <p><input type="checkbox"/> Gateway server and StoreOnce are connected over WAN Enables network traffic compression and checksumming by Catalyst. Using this functionality may reduce backup performance over fast links.</p> <p>< Previous Next > Finish Cancel</p>

Select the Catalyst Store created in the Creating an Immutable Catalyst store for Veeam backups section to associate with this Veeam repository



New Backup Repository

Repository
Type in path to the folder where backup files should be stored, and set repository load control options.

Name
HPE StoreOnce

Location
Catalyst store:
Catalyst-01

Capacity: <Unknown> Populate
Free space: <Unknown>

☐ Make recent backups immutable for: 7 days
Protects backups from modification or deletion by ransomware, malicious insiders and hackers. GFS backups are made immutable for the entire duration of their retention policy.

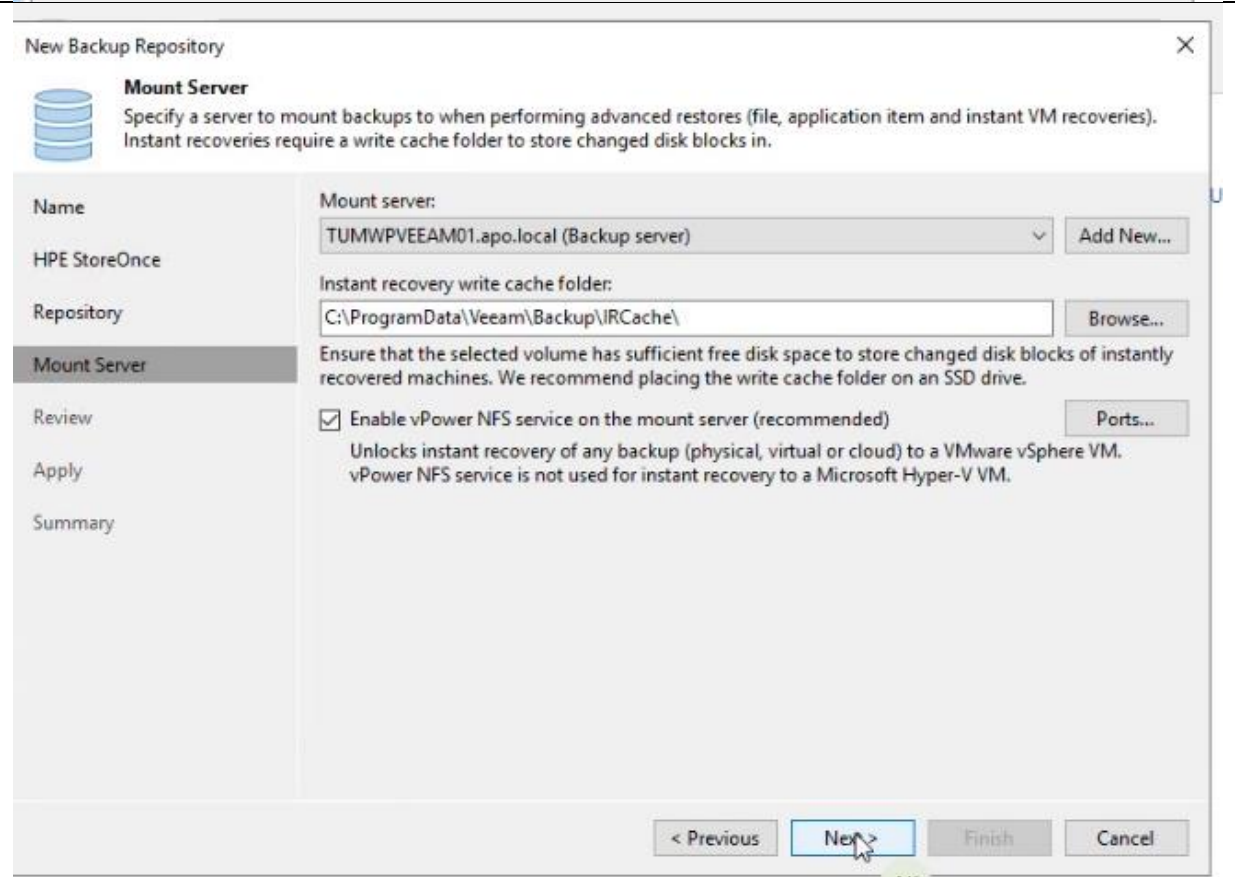
Load control
Running too many concurrent tasks against the repository may reduce overall performance, and cause I/O timeouts. Control storage device saturation with the following settings:

☒ Limit maximum concurrent tasks to: 6
☐ Limit read and write data rate to: 1 MB/s

Click Advanced to customize repository settings. Advanced...

< Previous Next > Finish Cancel

Sélectionner le serveur Mount server



New Backup Repository

Mount Server
Specify a server to mount backups to when performing advanced restores (file, application item and instant VM recoveries). Instant recoveries require a write cache folder to store changed disk blocks in.

Name
HPE StoreOnce

Mount server:
TUMWPVEEAM01.apo.local (Backup server) Add New...


Instant recovery write cache folder:
C:\ProgramData\Veeam\Backup\IRCache\ Browse...

Ensure that the selected volume has sufficient free disk space to store changed disk blocks of instantly recovered machines. We recommend placing the write cache folder on an SSD drive.

☒ Enable vPower NFS service on the mount server (recommended) Ports...
Unlocks instant recovery of any backup (physical, virtual or cloud) to a VMware vSphere VM. vPower NFS service is not used for instant recovery to a Microsoft Hyper-V VM.

< Previous Next > Finish Cancel

Click next



Apply

Please wait while backup repository is created and saved in configuration, this may take a few minutes.

Name

HPE StoreOnce

Repository

Mount Server

Review

Apply

Summary

Message	Duration
✓ Starting infrastructure item update process	0:00:02
✓ Verifying repository type...	
✓ [TUMWPVEEAM01] Discovering installed packages	
✓ [TUMWPVEEAM01] Registering client TUMWPVEEAM01 for package T...	
✓ [TUMWPVEEAM01] Registering client TUMWPVEEAM01 for package v...	
✓ [TUMWPVEEAM01] Registering client TUMWPVEEAM01 for package ...	
✓ [TUMWPVEEAM01] Discovering installed packages	
✓ All required packages have been successfully installed	
✓ Detecting server configuration	
✓ Reconfiguring vPower NFS service	
✓ Creating configuration database records for installed packages	
✓ Collecting backup repository info	
✓ Creating database records for repository	0:00:01
✓ Backup repository has been saved successfully	

AK


< Previous

Next >

Finish

Cancel

Review all settings and then click Finish



Summary

You can copy the configuration information below for future reference.

Name

HPE StoreOnce

Repository

Mount Server

Review

Apply

Summary

Summary:

HPE StoreOnce backup repository 'Backup Repository StoreOnce-01' was successfully saved.

Mount host: TUMWPVEEAM01.apo.local

Account: Veeam

Backup folder: storeonce://172.16.1.64:Catalyst-01@/

Write throughput: unlimited

Max parallel tasks: 6

Days of immutability: disabled

AK

< Previous

Next >

Finish

Cancel

12. Conclusion

Veeam Backup & Replication provides a solid software package for backup, replication, and recovery; however, without effective storage infrastructure, meeting the demands of the business can be difficult. The HPE StoreOnce purpose-built backup appliance is a powerful storage solution with a carefully designed end-to-end functional integration with Veeam Backup & Replication to provide a wealth of benefits to an organization of any size or complexity. HPE StoreOnce is a mature solution that offers unbeatable reliability, huge consolidation, and highly simplified management. The integration process with HPE StoreOnce and Veeam Backup & Replication is based on co-developed code and APIs.