

StarWind x Veeam Hardened Backup Repository: Configuration Guide for Bare-metal Installation, StarWind x Veeam Hardened Backup Repository Deployed as a Linux ISO using GUI

2026

TECHNICAL PAPERS



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StarWind is a pioneer in virtualization and a company that participated in the development of this technology from its earliest days. Now the company is among the leading vendors of software and hardware hyper-converged solutions. The company’s core product is the years-proven StarWind Virtual SAN, which allows SMB and ROBO to benefit from cost-efficient hyperconverged IT infrastructure. Having earned a reputation of reliability, StarWind created a hardware product line and is actively tapping into hyperconverged and storage appliances market. In 2016, Gartner named StarWind “Cool Vendor for Compute Platforms” following the success and popularity of StarWind HyperConverged Appliance. StarWind partners with world-known companies: Microsoft, VMware, Veeam, Intel, Dell, Mellanox, Citrix, Western Digital, etc.

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Annotation

Relevant products

StarWind x Veeam Hardened Backup Repository (StarWind x VHBR)

Purpose

StarWind x Veeam Hardened Backup Repository (StarWind x VHBR) is a free software that allows to enhance your backups protection against ransomware by easily turning your existing physical server into a Linux Hardened Repository for use with Veeam Backup & Replication.

This document outlines how to configure StarWind x Veeam Hardened Backup Repository on a physical bare-metal server using the StarWind Appliance ISO and includes steps on how to configure it with Veeam Backup & Replication.

Audience

This technical guide is intended for storage and virtualization architects, system and backup administrators designing backup solutions using Veeam Hardened Linux Repository.

Expected result

The end result of following this guide will be a fully configured StarWind x Veeam Hardened Backup Repository (StarWind x VHBR) on a bare-metal server and added to Veeam Backup & Replication.

Prerequisites

StarWind x Veeam Hardened Backup Repository (StarWind x VHBR) system requirements

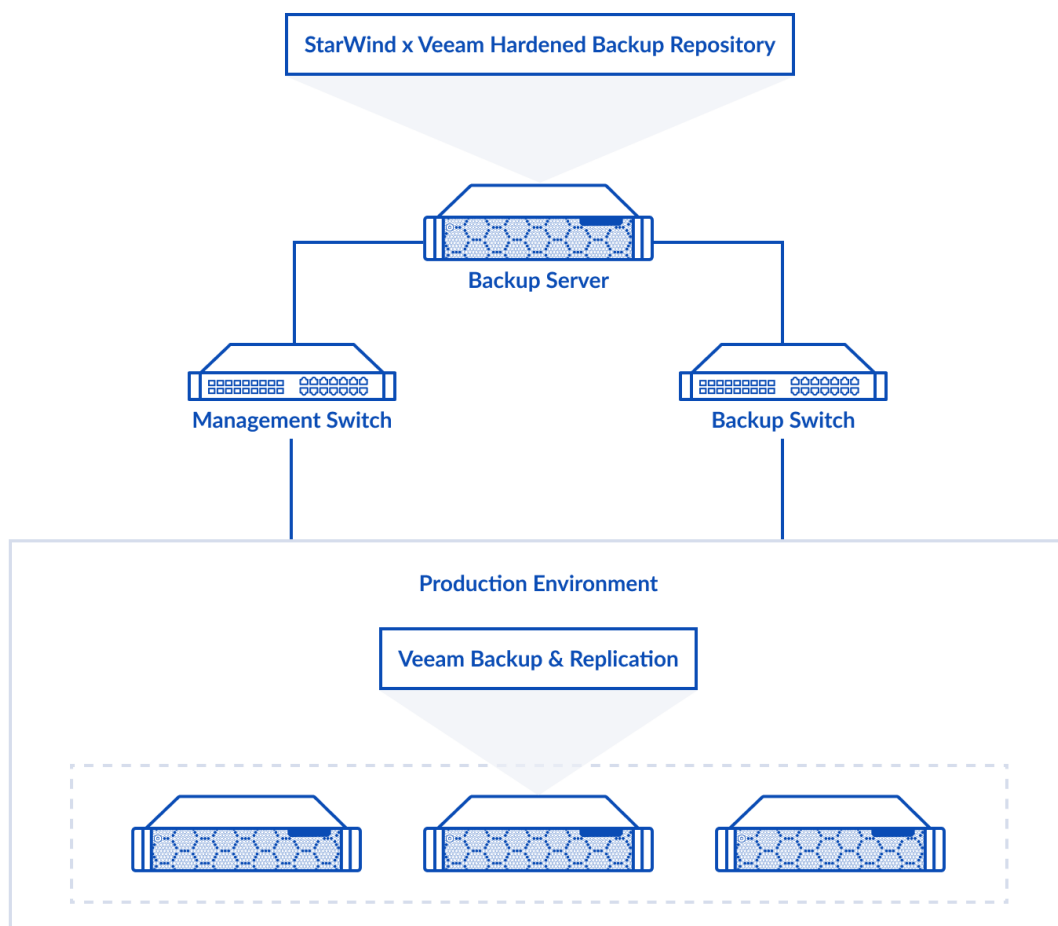
Prior to installing StarWind x Veeam Hardened Backup Repository (StarWind x VHBR), please make sure that the system meets the requirements, which are available via the following link: <https://www.starwindsoftware.com/system-requirements#svhbr>

Recommended RAID settings for HDD and SSD disks:

<https://knowledgebase.starwindsoftware.com/guidance/recommended-raid-settings-for-hdd-and-ssd-disks/>

Solution diagram

The diagrams below illustrate the network and storage configuration of the solution:



Deploying Starwind X Veeam Hardened Backup Repository (Starwind X Vhbr)

1. Download the StarWind x Veeam Hardened Backup Repository archive at the following link and extract the ISO file: <https://www.starwindsoftware.com/resource-library/veeam-hardened-backup-repository/#download>
2. Prepare installation media using Etcher, Rufus on Windows workstation, or dd

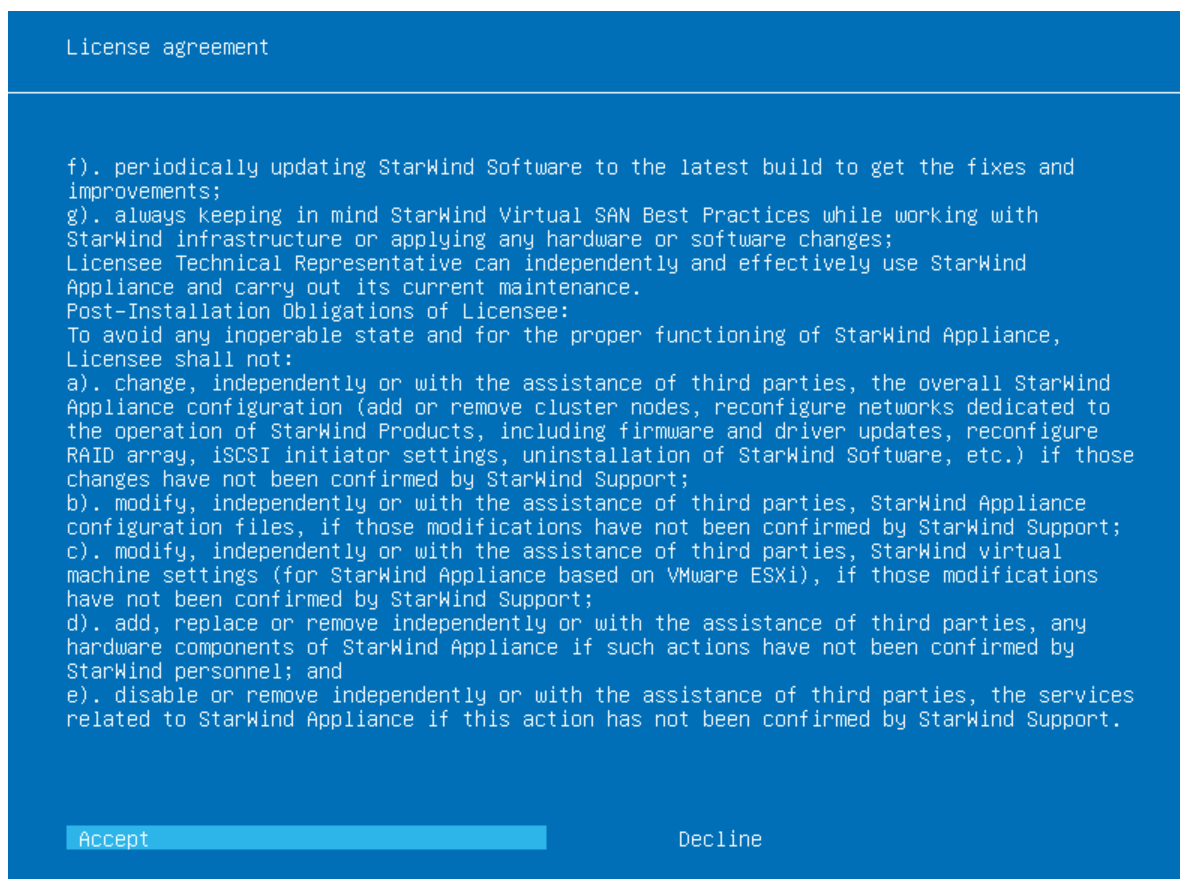
command-line tool on Linux and macOS. For Network boot, mount the ISO to your server using iDRAC, iLo, or IPMI user interfaces.

3. Connect the installation media to your server and start the host.
4. Boot into BIOS and enable the Legacy boot mode. Save changes and reboot the host.
5. On server boot, press F12 or F2 to start the one-time boot menu. Select CD\DVD-ROM as a boot device.

NOTE: Refer to the server documentation to find the boot menu key.

6. The server should start booting from StarWind Appliance ISO. Once the system boots, the StarWind Appliance Installer launches.

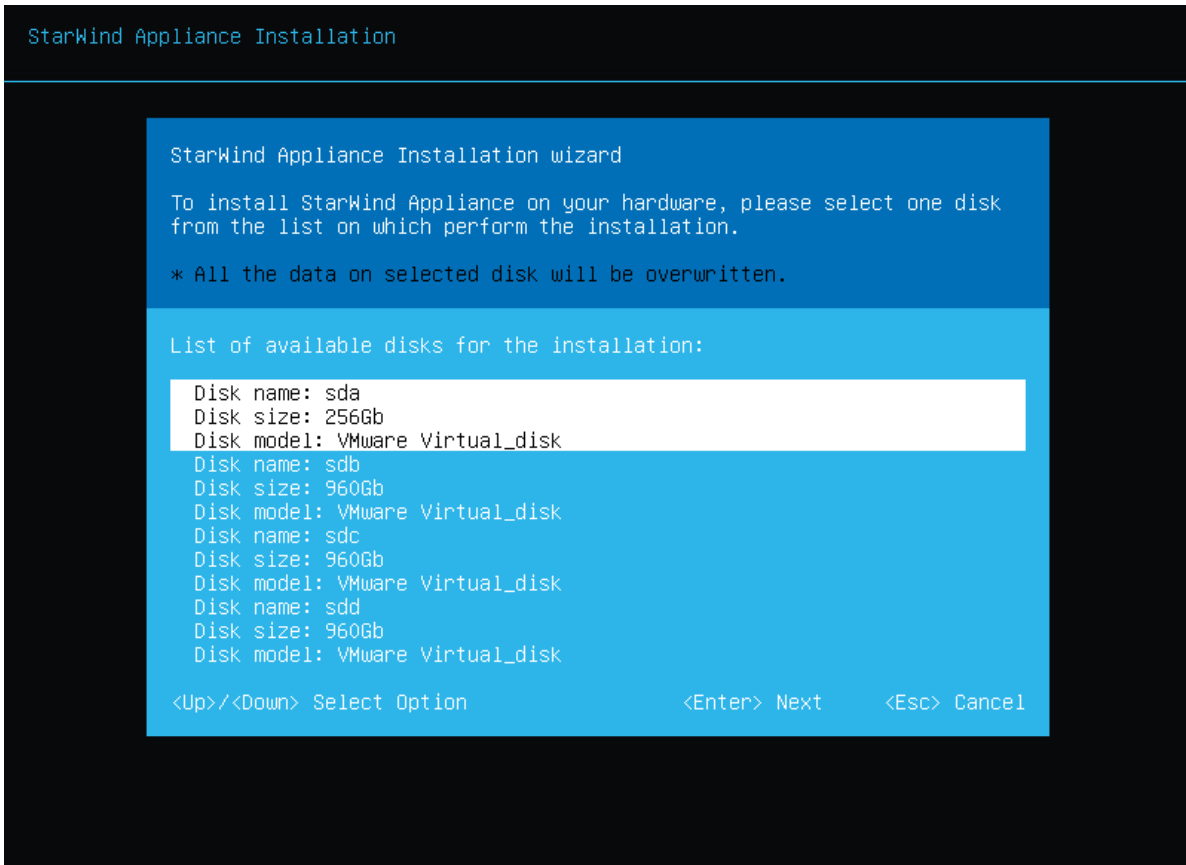
7. Read the End-user License Agreement. Use the Tab button and arrow keys to select the Accept option by pressing Enter.



8. In the menu, select the “Install StarWind Appliance” option and press Enter.

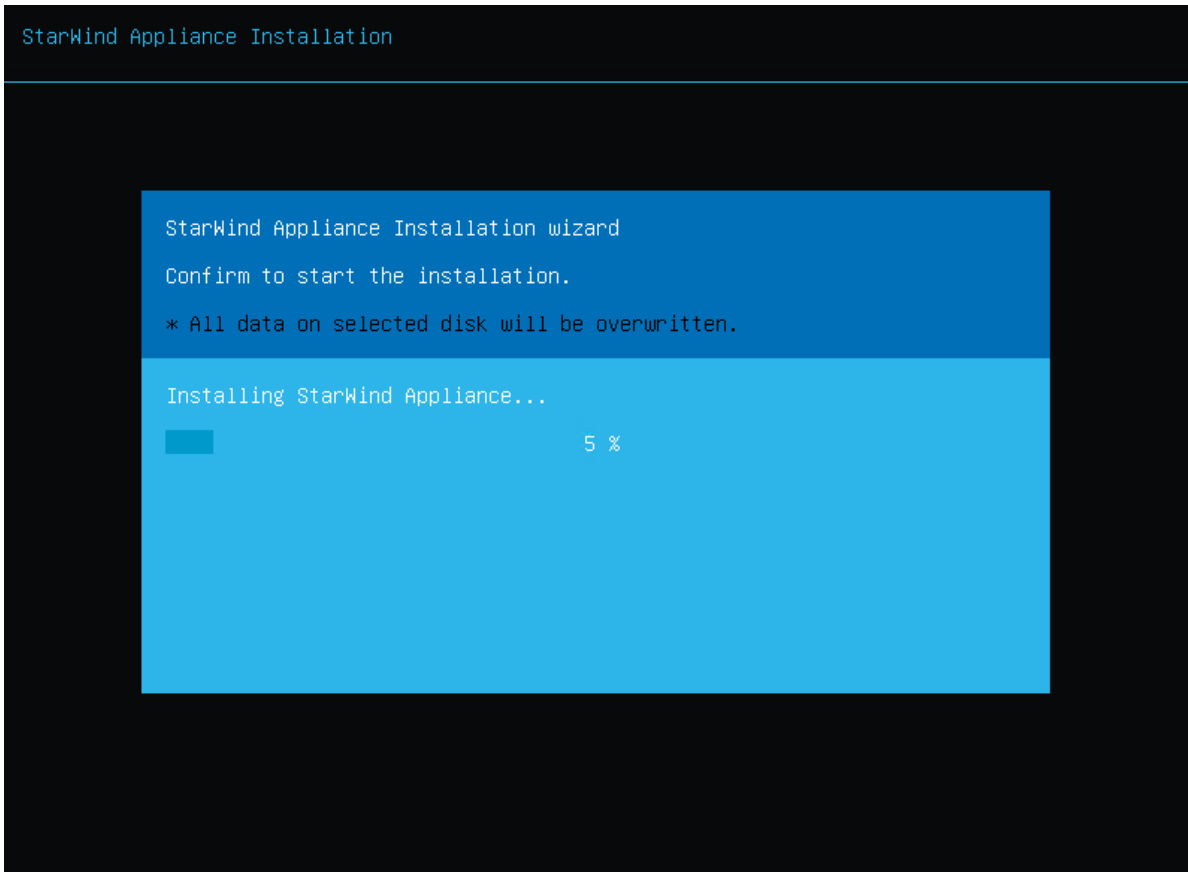


9. Select one of the available disks on which to install StarWind Appliance. Press Enter.

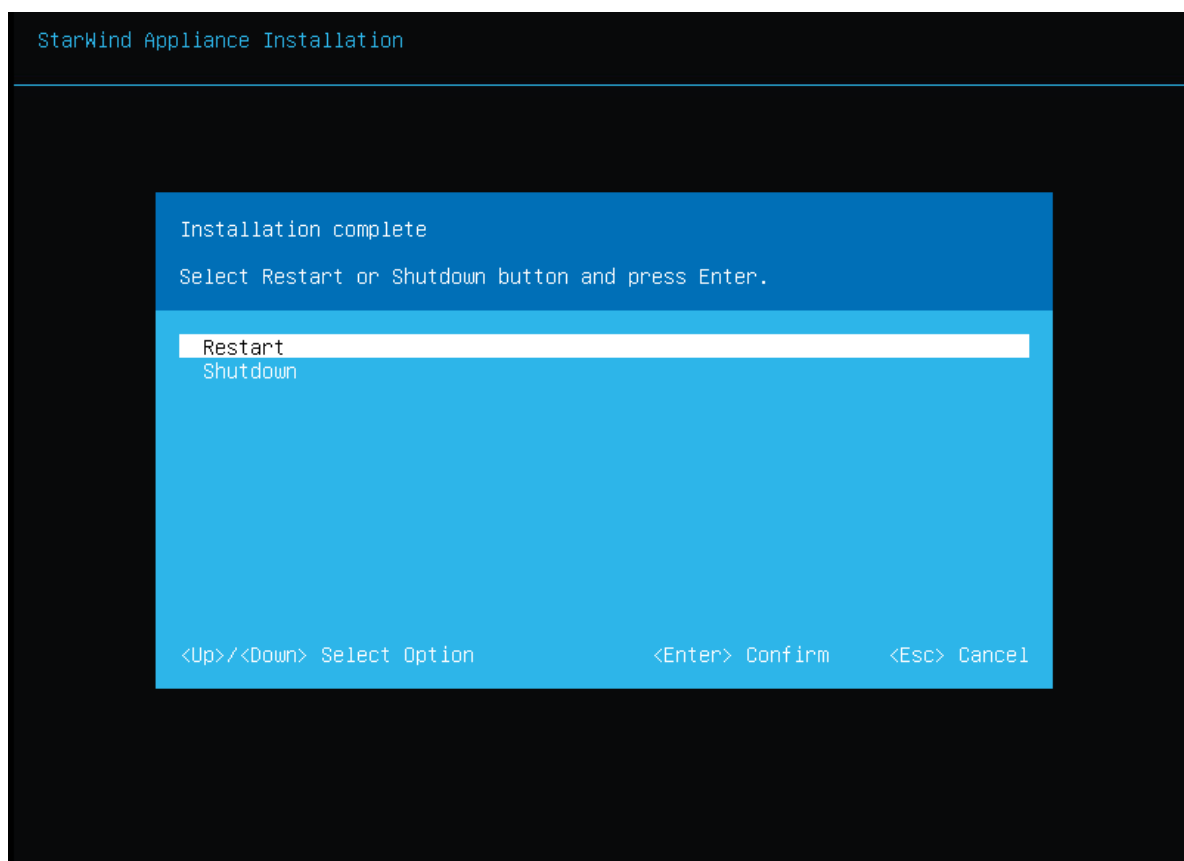


10. All the data on the selected disk will be overwritten. Confirm the installation by typing "yes" and pressing Enter.

11. Wait until the installation is complete.



12. The installation is finished. Select "Restart" to reboot the server.



13. Eject the installation media.

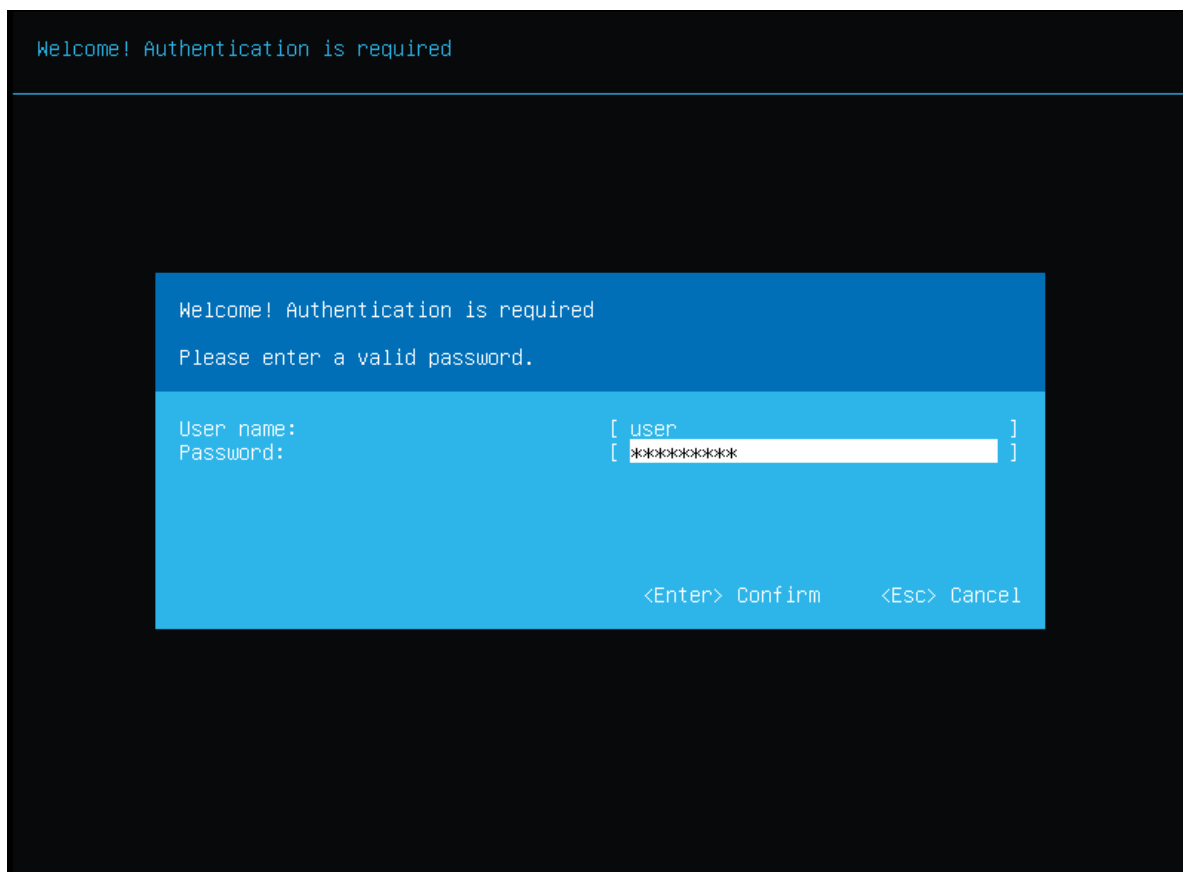
14. The server now boots StarWind Appliance.

15. Press Enter to open the console.

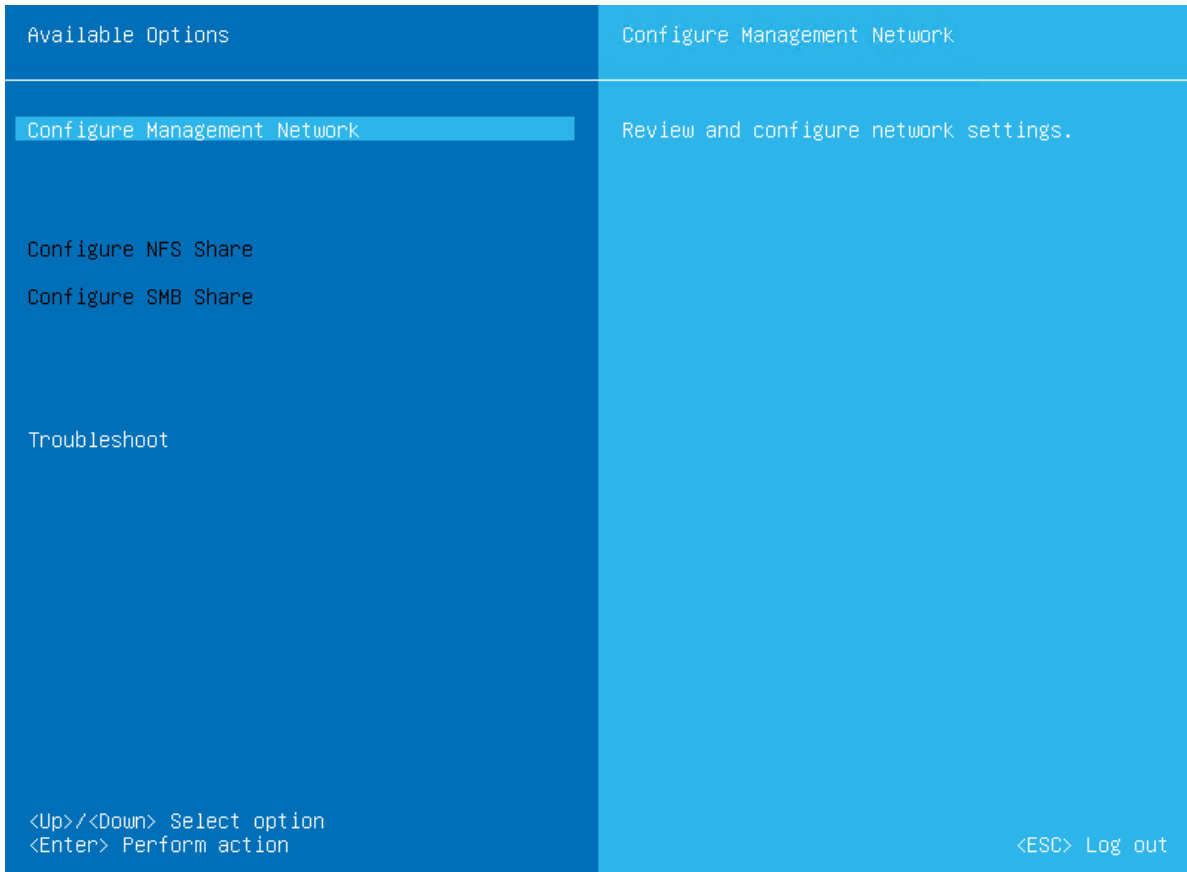


16. Specify the default user name and password.

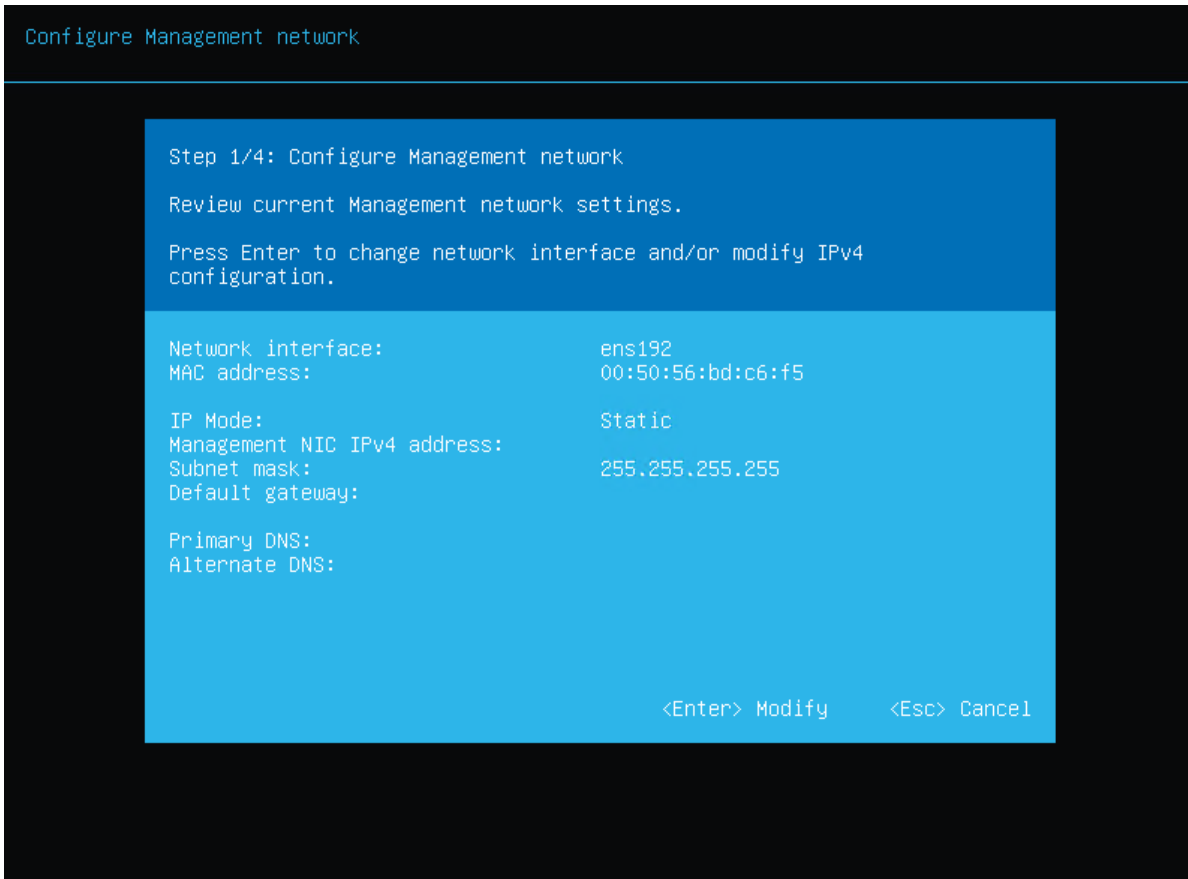
NOTE: The default account name is “user” and its password is “rds123RDS” without quotes. This account is removed from the appliance upon the completion of the Initial configuration wizard.



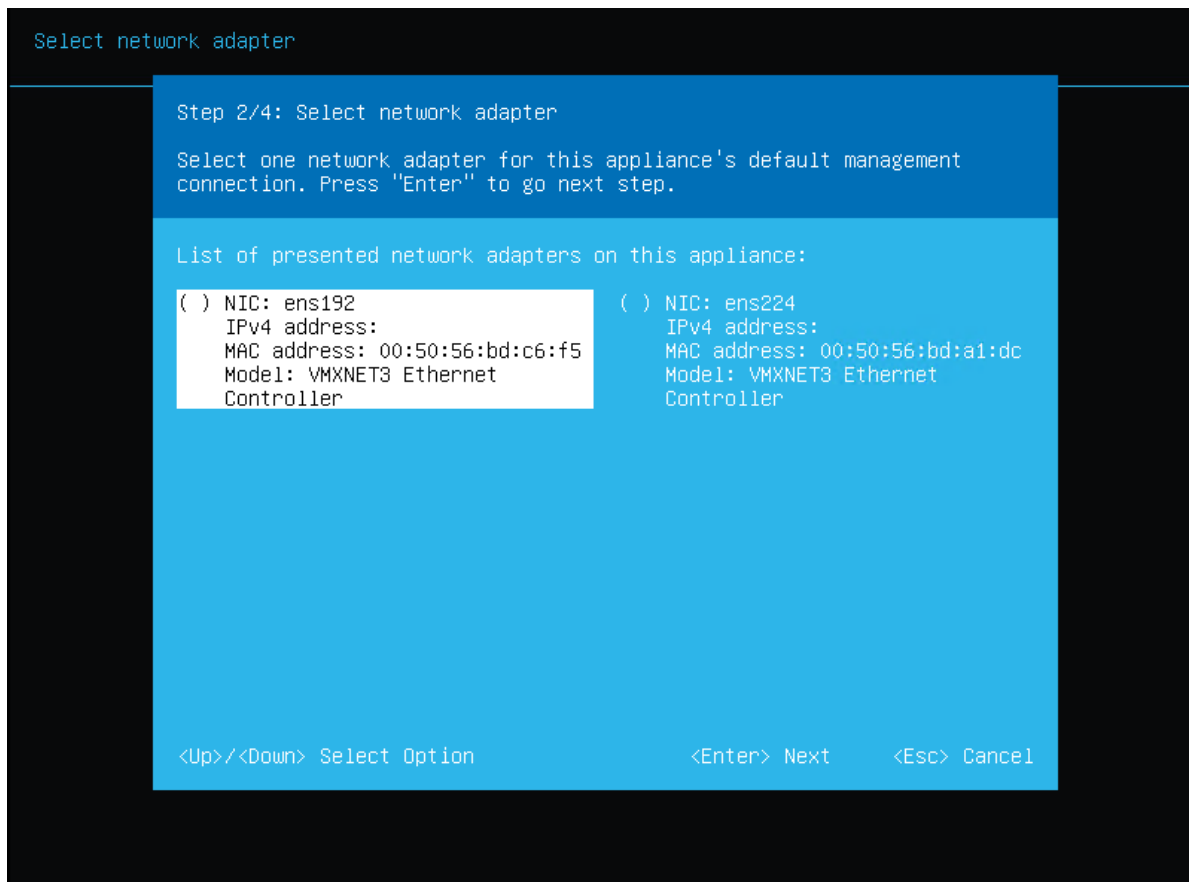
17. Select "Configure Management Network" and press Enter.



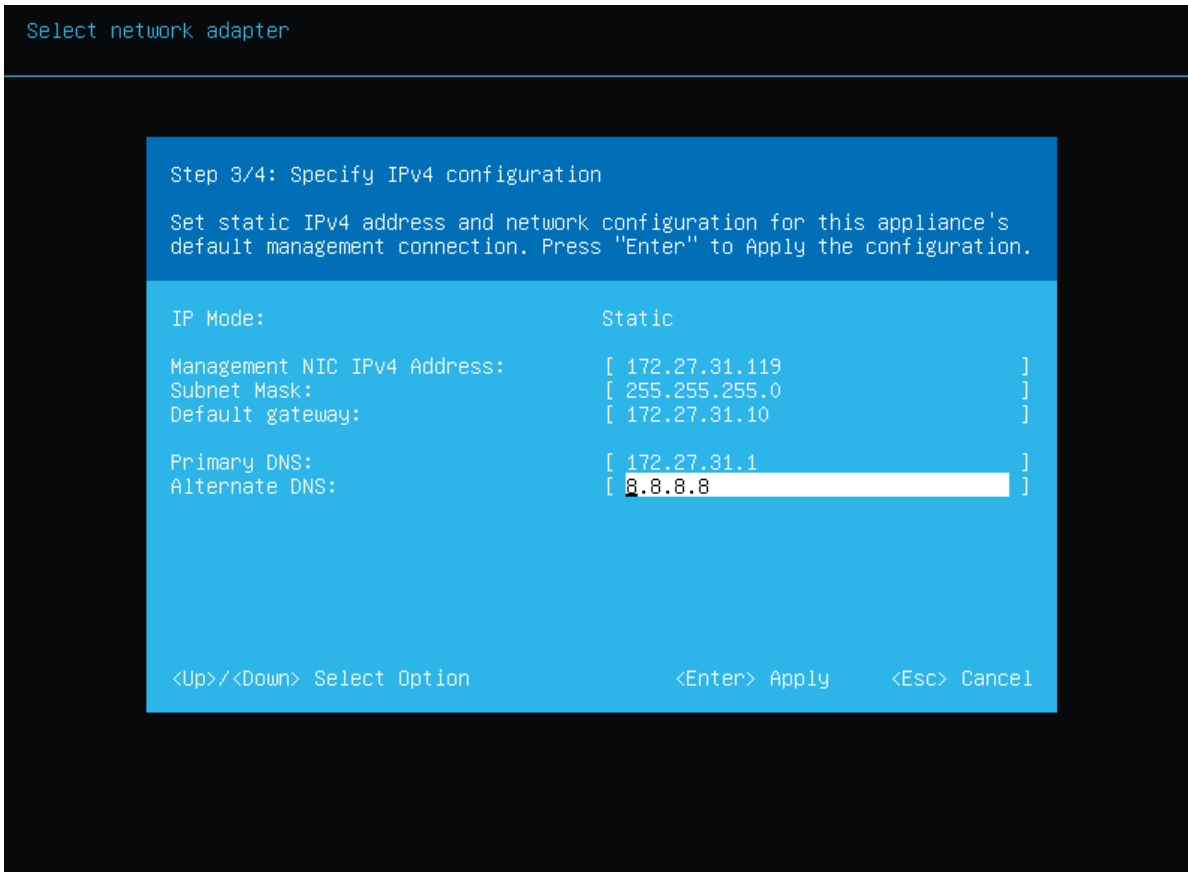
18. Press Enter once more to modify the settings.



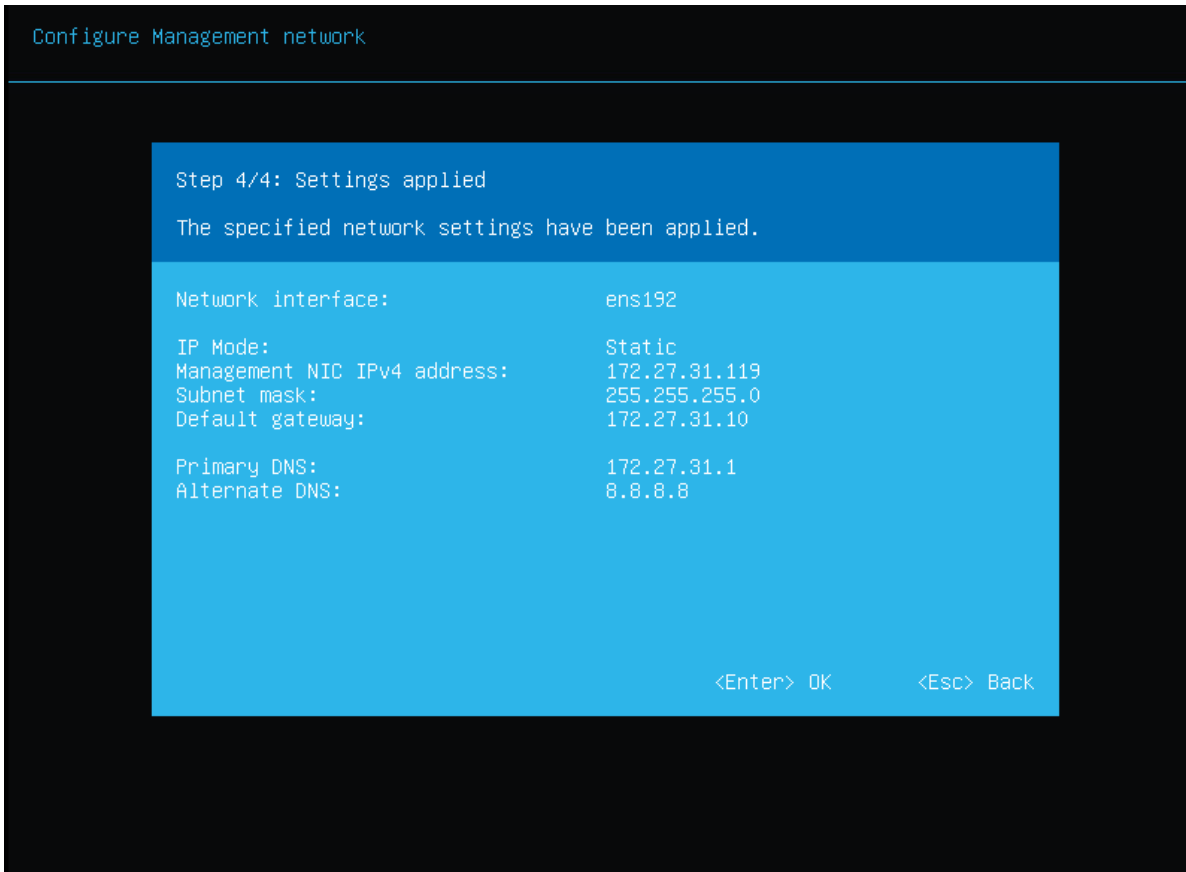
19. Select the network adapter that will be used for management connectivity and press Enter.



20. Specify the static IPv4 address, subnet mask, default gateway and DNS addresses. Press Enter.



21. The management network settings have been applied. Press Enter.



Initial Configuration Wizard

1. Using the web browser, open a new tab and enter the StarWind Appliance IPv4 address specified previously to open the Web Interface. Click "Advanced" and then "Continue to..."



Your connection is not private

Attackers might be trying to steal your information from **172.27.31.149** (for example, passwords, messages, or credit cards). [Learn more](#)

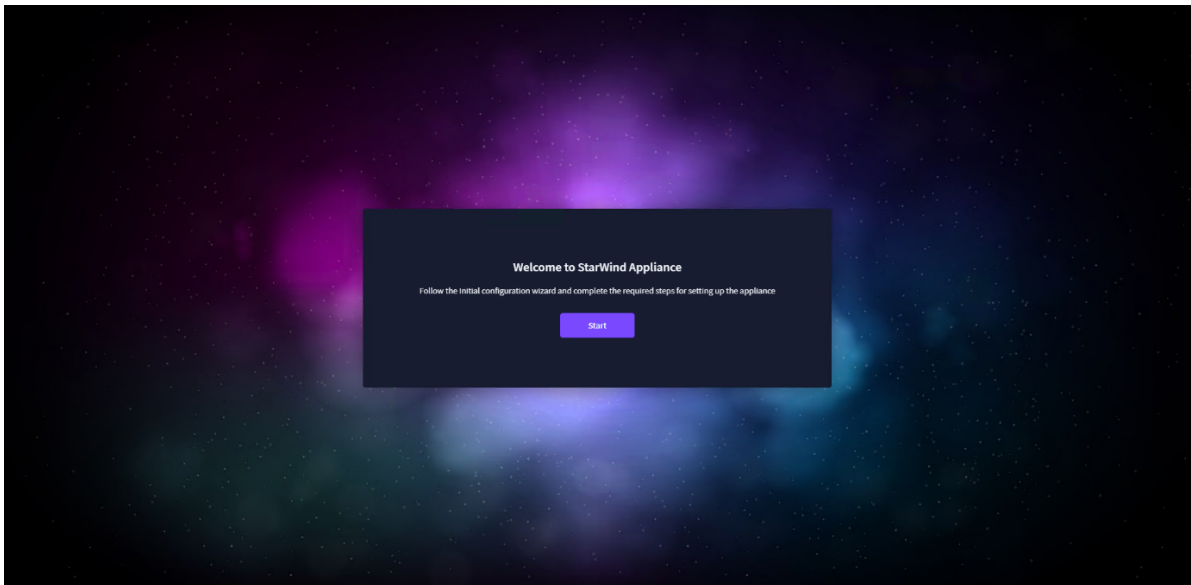
NET-ERR_CERT_AUTHORITY_INVALID

🔒 [Turn on enhanced protection](#) to get Chrome's highest level of security

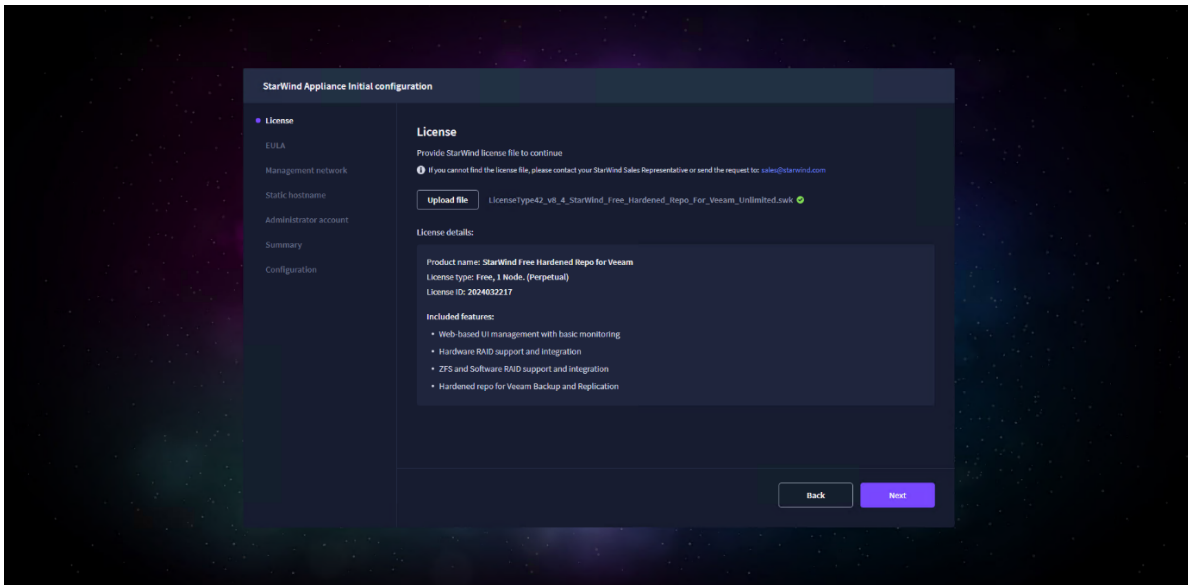
Advanced

Back to safety

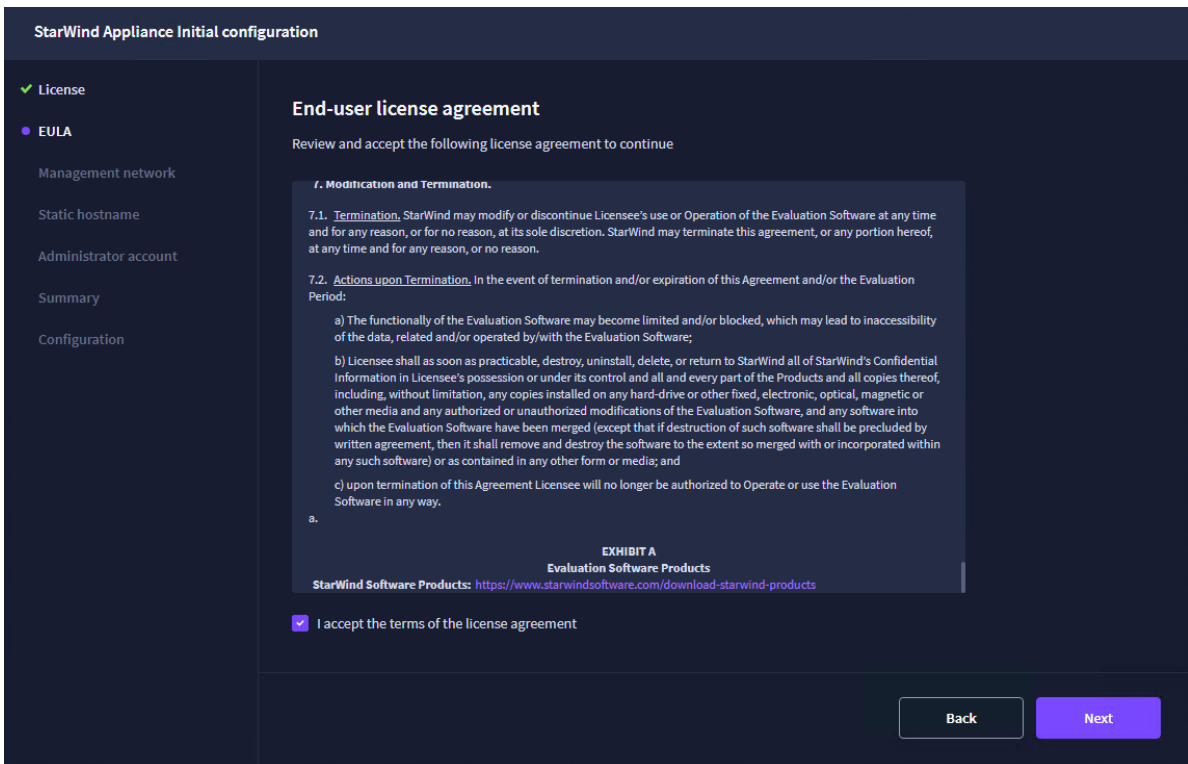
2. StarWind x Veeam Hardened Backup Repository welcomes you, and the “Initial configuration” wizard will guide you through the deployment process. Click Start.



3. Upload the license file and click Next.



4. Read and accept the End User License Agreement to proceed. Click Next.



5. Review or edit the Network settings and click Next.

NOTE: Static network settings are recommended for the configuration.

StarWind Appliance Initial configuration

- ✓ License
- ✓ EULA
- **Management network**
- Static hostname
- Administrator account
- Summary
- Configuration

Management network

Specify the unique IP address (static is recommended) and configure other network settings.

i The Management network is used to communicate with services such as DNS and NTP and to access the appliance web UI from external clients.

IP mode
Static

NIC	Adapter model	Bandwidth	MAC address	IP address	Netmask i	Gateway
ens192	VMXNET3 Ethere...	10 Gbit	00:50:56:BD:C...	172.27.31.119	255.255.255.0	172.27.31.10

Name servers (optional):

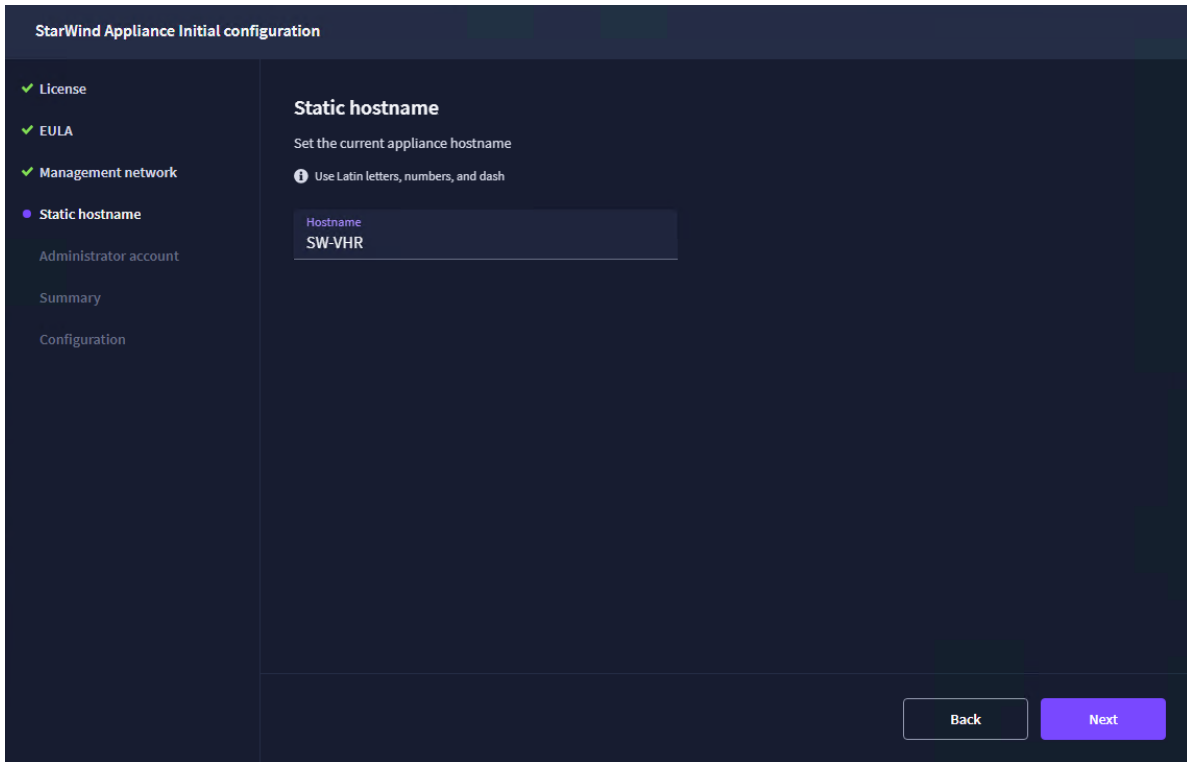
DNS 1: 172.27.31.1 DNS 2: 8.8.8.8

Time settings (optional):

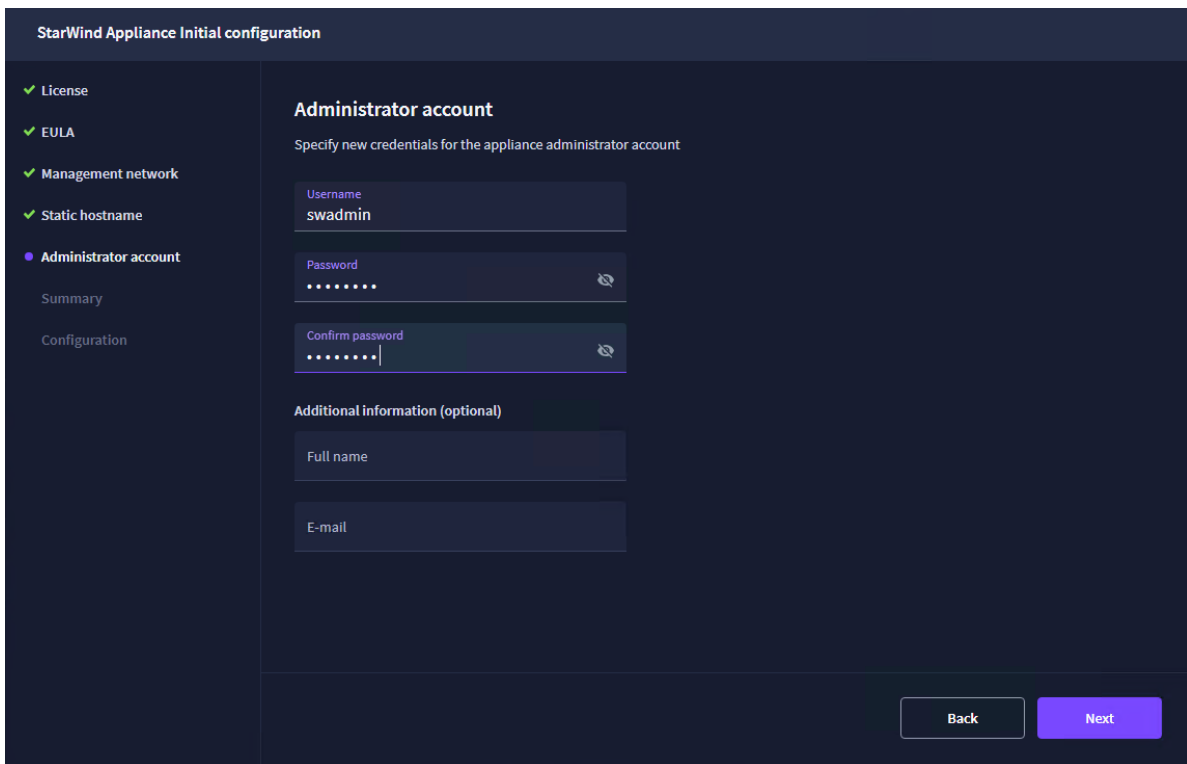
NTP server: Time zone: UTC

Separate servers with commas, a maximum of 3 servers

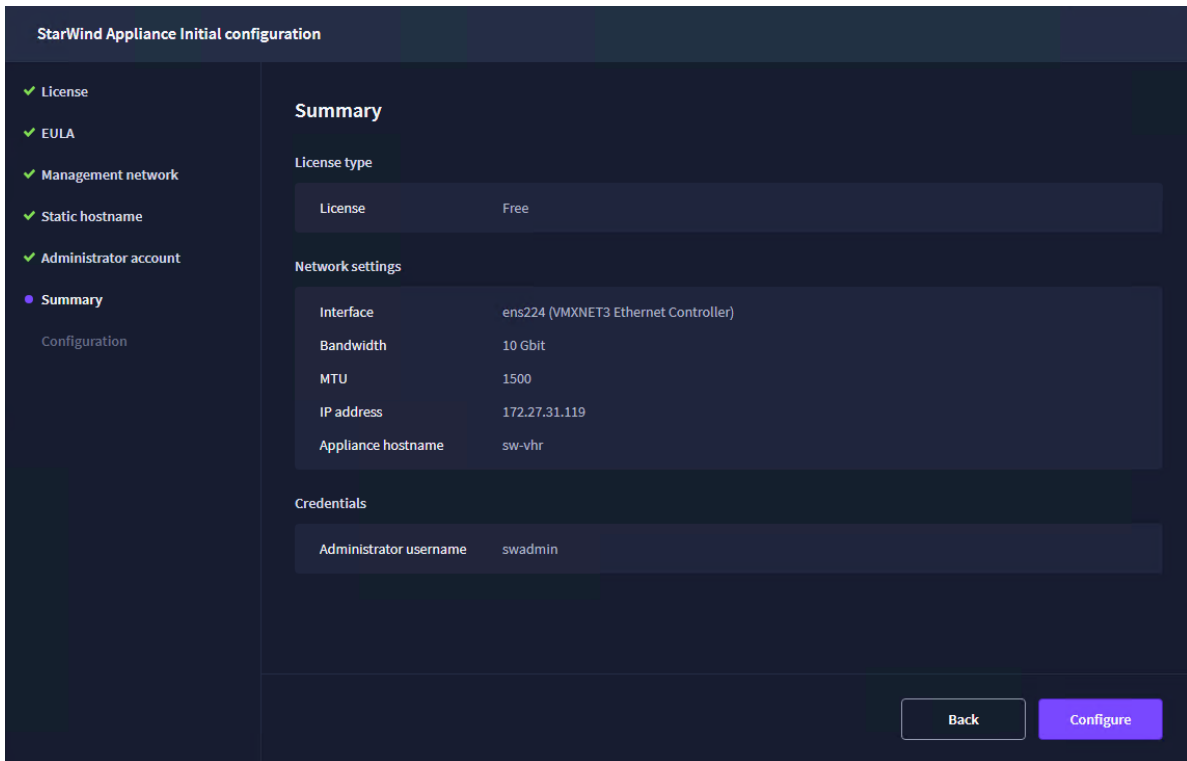
6. Specify the hostname for the StarWind x Veeam Hardened Backup Repository and click Next.



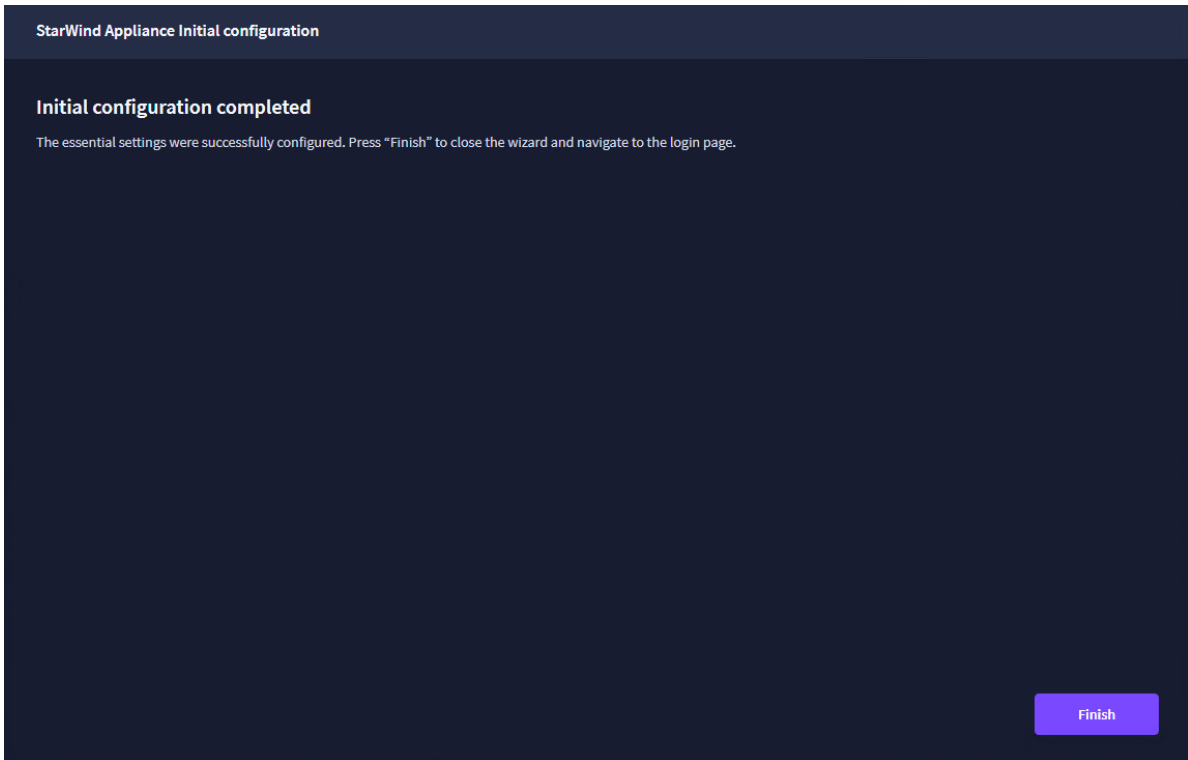
7. Create an administrator account. Click Next.



8. Review the settings and click Configure.

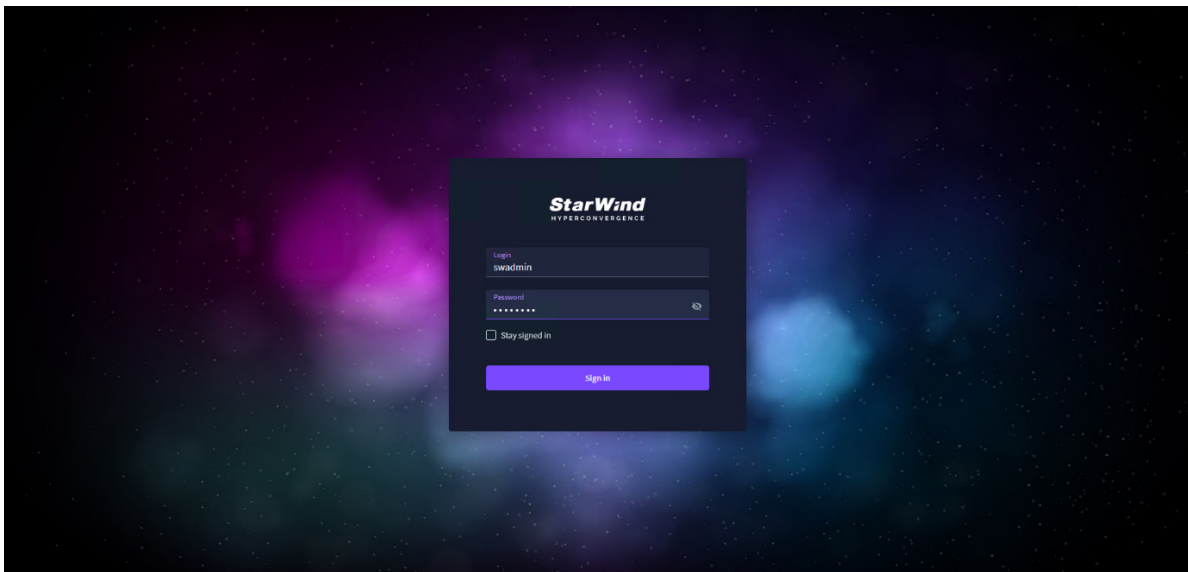


9. The initial StarWind x Veeam Hardened Backup Repository configuration is now complete. Click Finish.

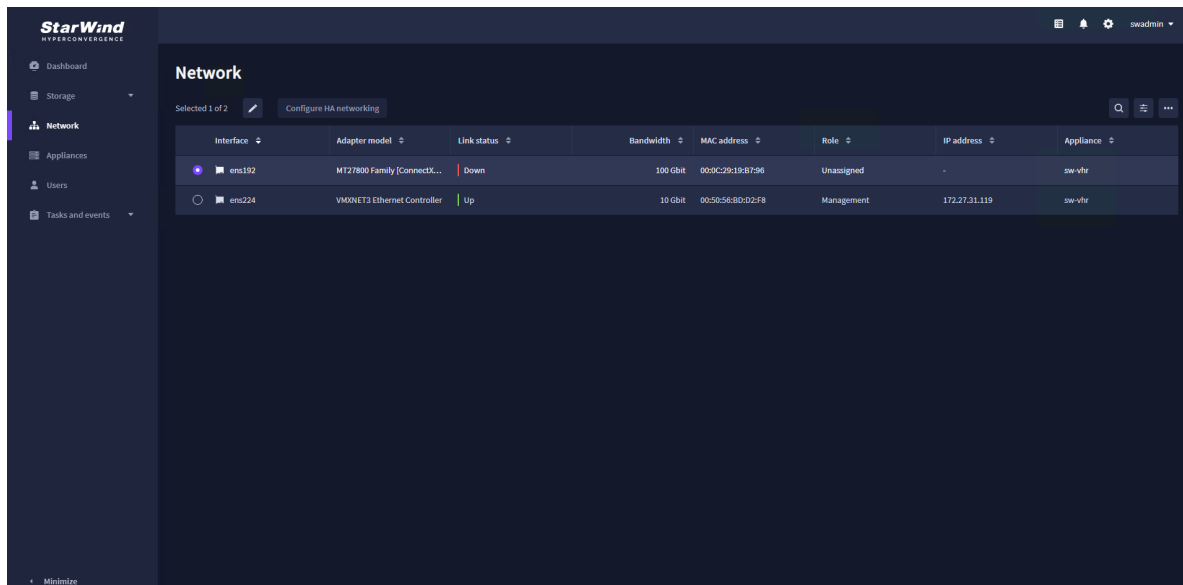


Configure Networking

1. Log in to the StarWind x Veeam Hardened Backup Repository using the username and password specified during the initial configuration.



2. Navigate to the Network tab, select the network adapter that will be used for backup (Data) traffic in case a separate dedicated backup network is present and click the Edit icon.



3. Uncheck the “Disable network adapter” checkbox, check the “Connect automatically on boot” checkbox set MTU to 9000, assign the Data role to the network adapter and specify the IPv4 address and network mask. Click Save.

Edit network adapter settings [X]

Name: ens192 Adapter model: MT27800 Family [ConnectX-5 Virtua

Role: Data IP mode: Static

IPv4 address: 176.16.30.10 Netmask: 255.255.255.0
e.g. 192.168.100.100 e.g. 255.255.255.0 or CIDR notation (e.g. 24)

Gateway: DNS: Separate IP addresses with commas (,) or leave the settings empty

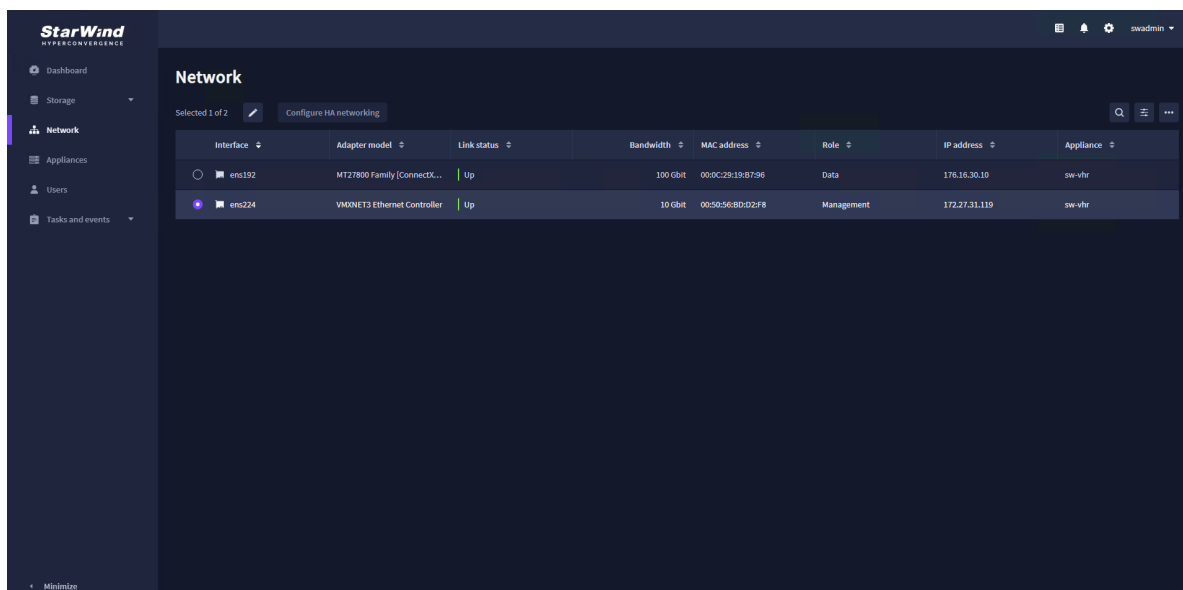
e.g. 192.168.100.1 or leave the settings empty

MTU: 9000
The valid value in the range of 1500-9000

Disable network adapter
 Connect automatically on boot

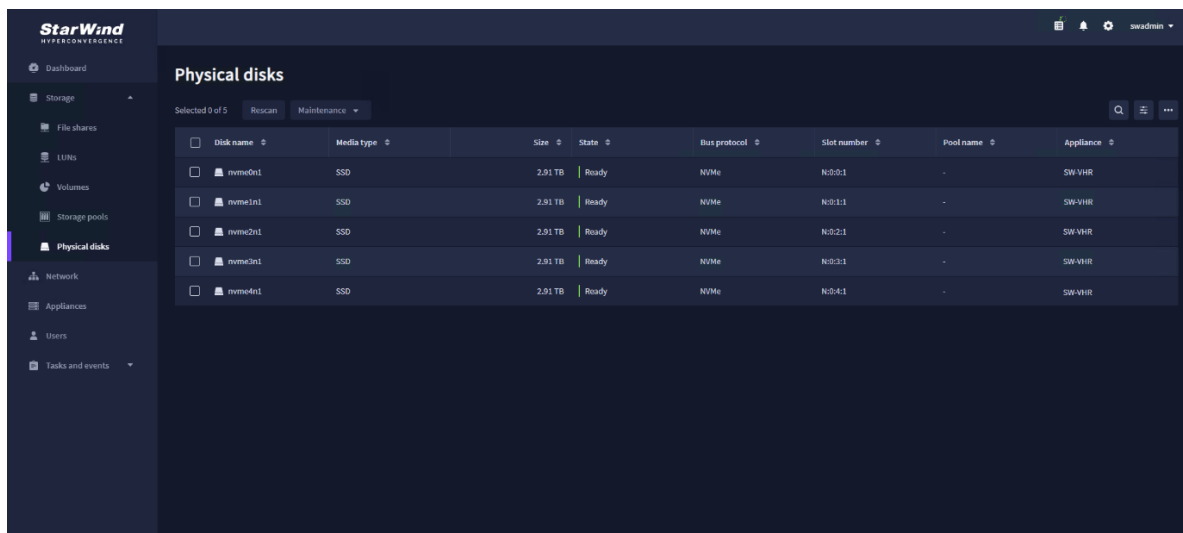
Cancel Save

4. The network adapter changes the Link Status to Up.



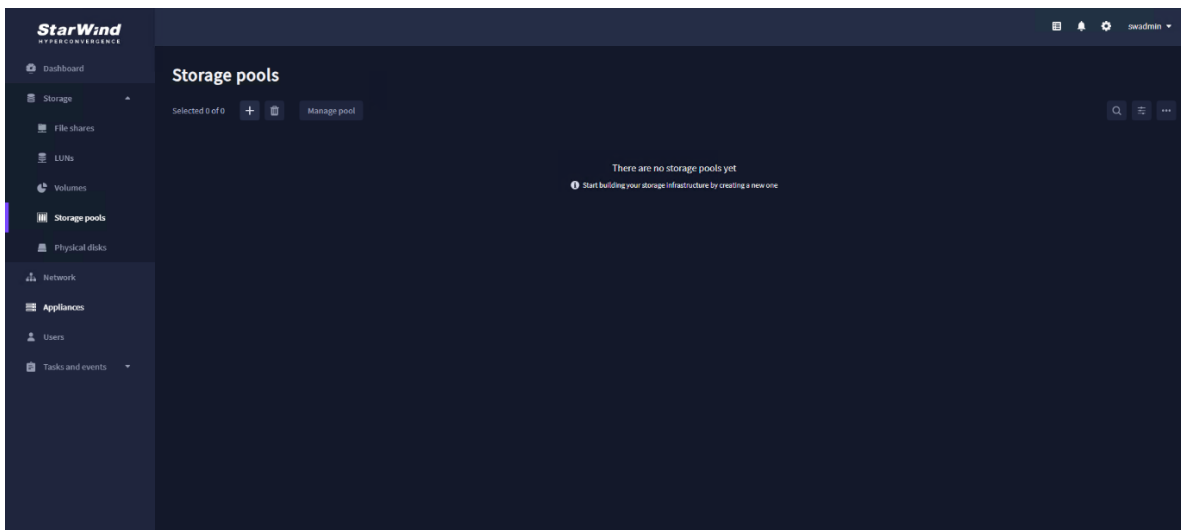
Create Storage Pool

1. Navigate to the Storage tab, select Physical disks and click Rescan.

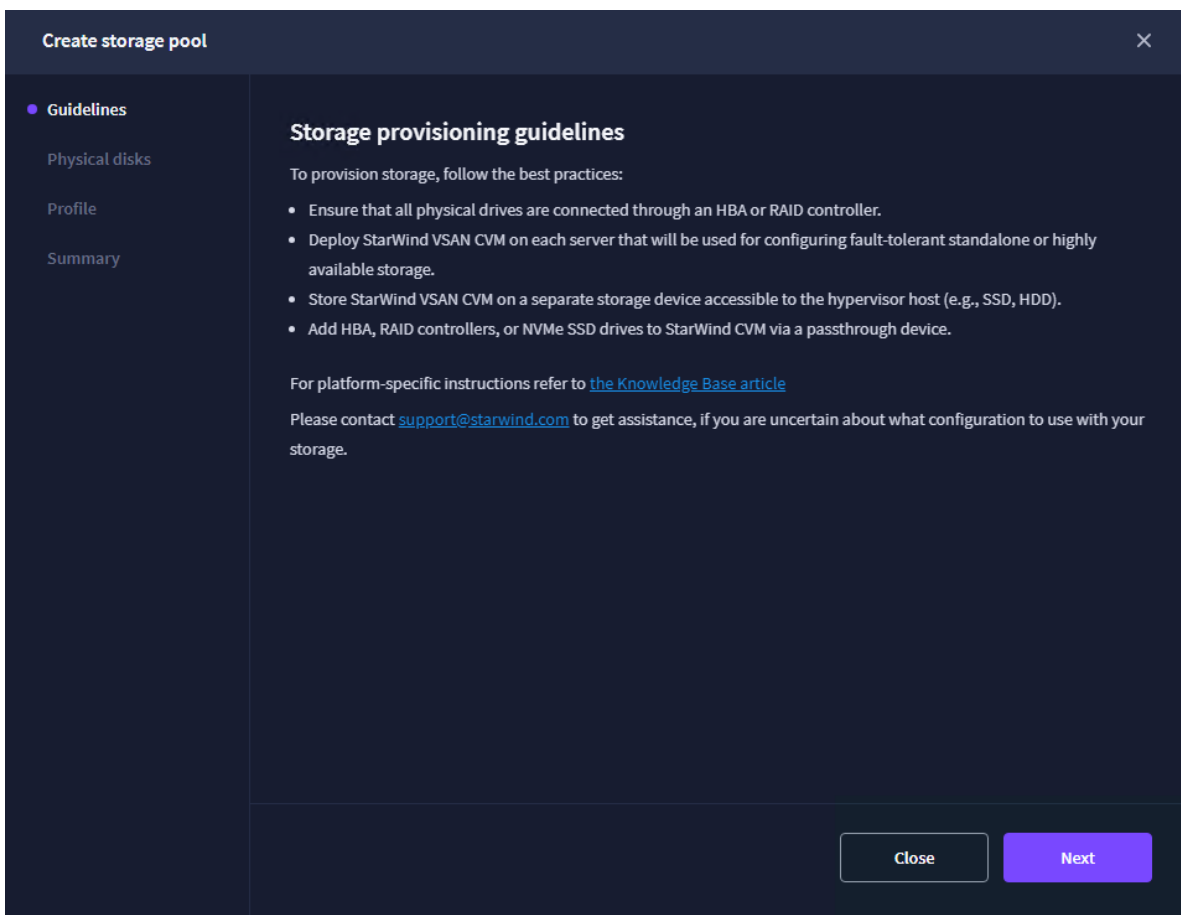


NOTE: StarWind x Veeam Hardened Backup Repository can use storage from a hardware RAID or create a Linux Software RAID or ZFS storage pools from the drives connected to an HBA controller. This guide uses Linux Software RAID as an example.

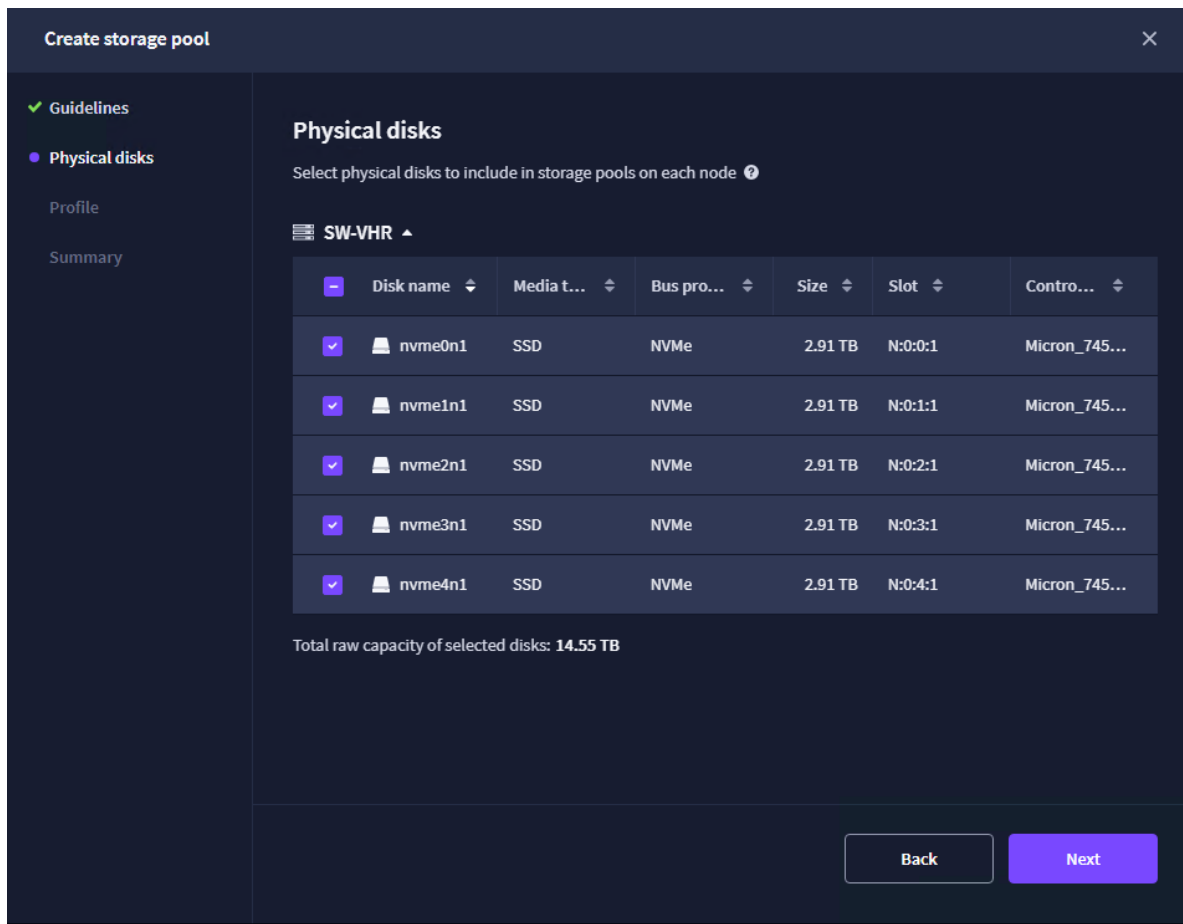
2. In the Storage tab, navigate to the Storage pools and click the “+” sign.



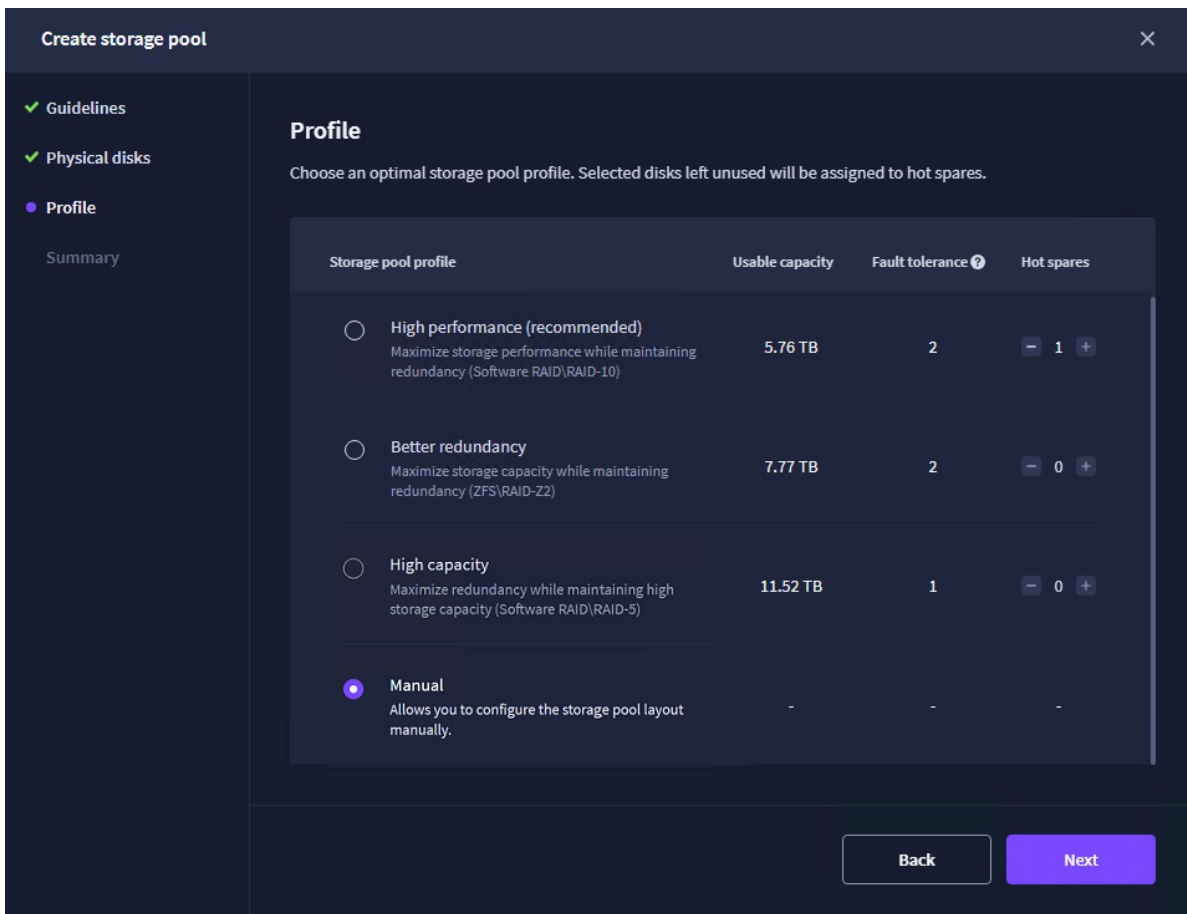
3. Verify the prerequisites and click Next.



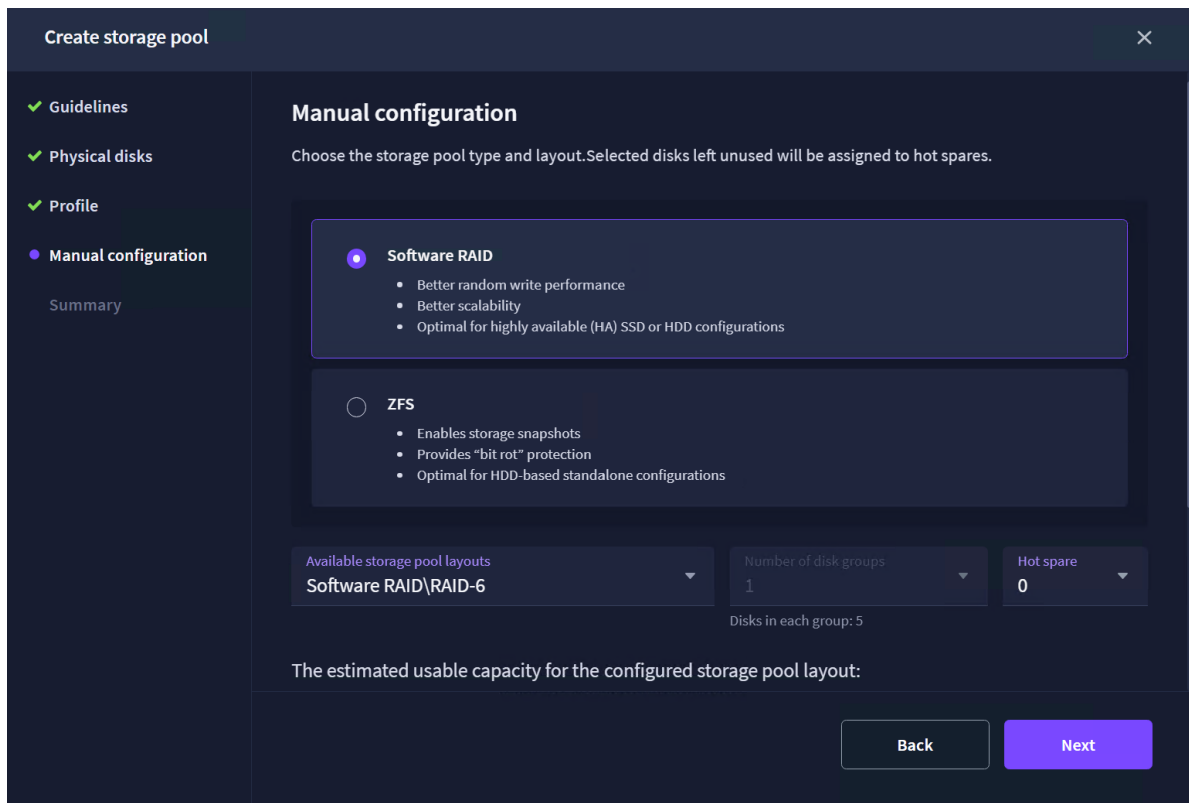
4. Select the drives to create a Linux Software RAID and click Next.



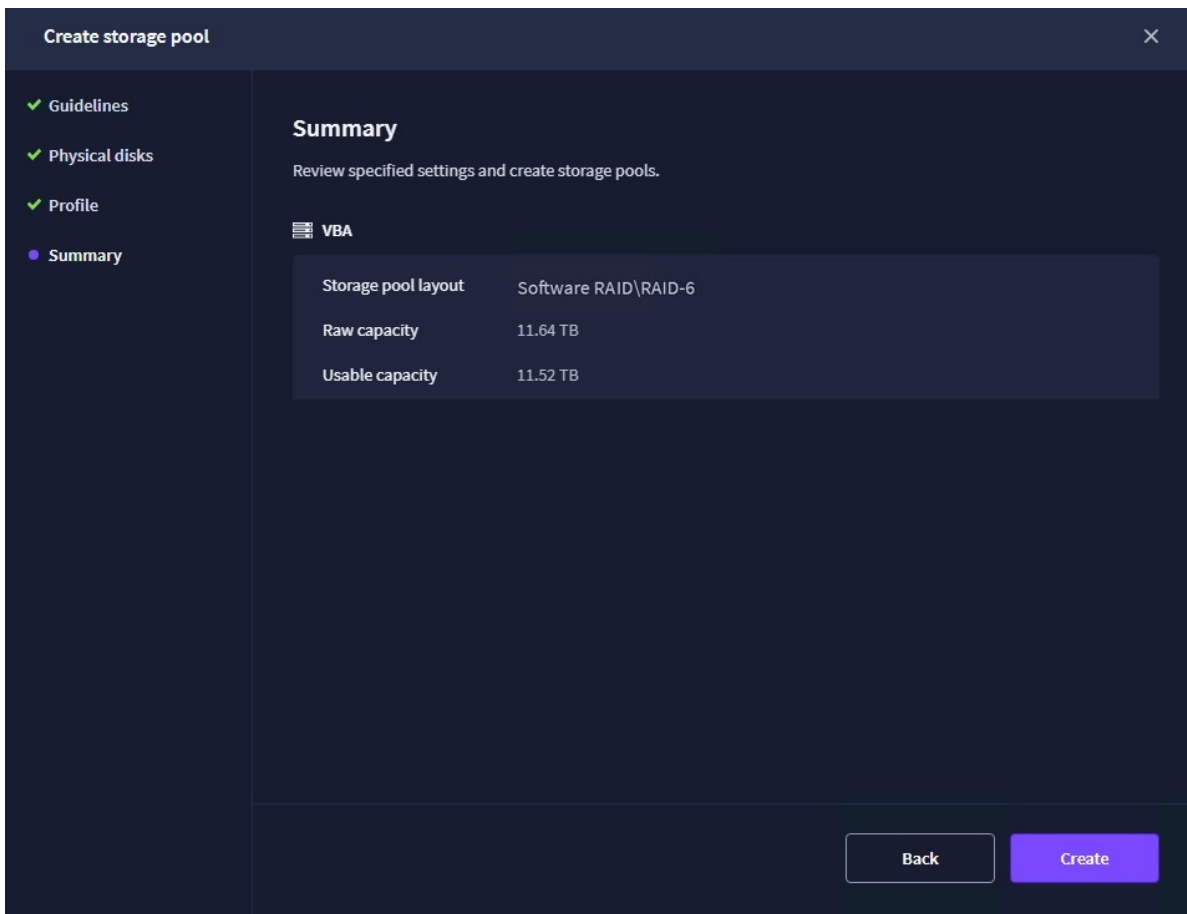
5. Select one of the preconfigured storage profiles or create a redundancy layout for the new storage pool manually according to your redundancy, capacity, and performance requirements. Software RAID-6 is highly recommended. To configure it, select Manual and click Next.



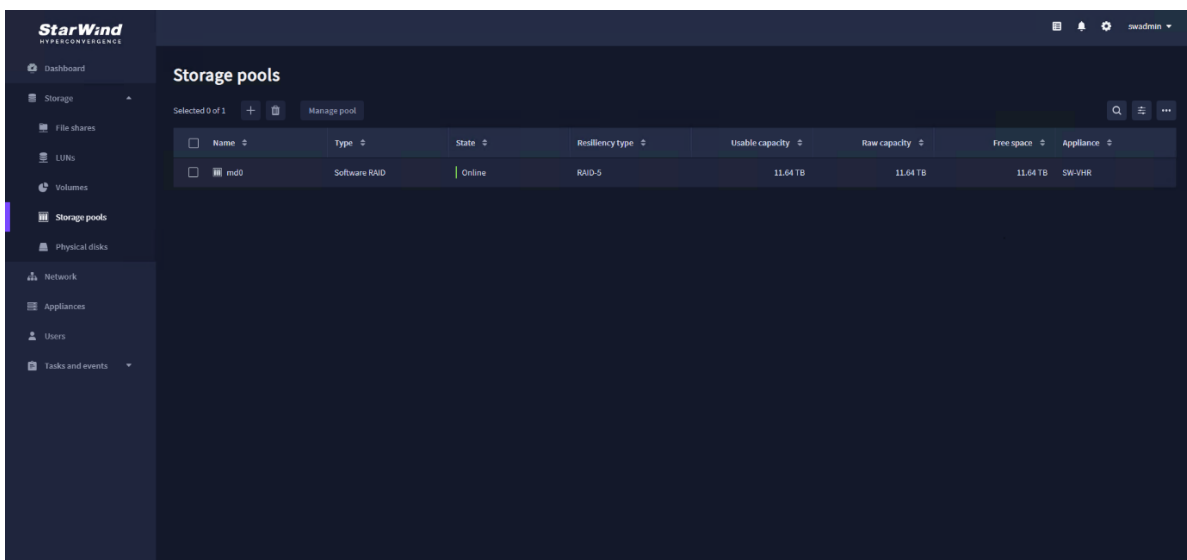
6. Select Software RAID and then select Software RAID\RAID-6 from the Available storage pool layouts. Click Next.



7. Review “Summary” and click the “Create” button to create the storage pool.



8. Wait until the Linux Software RAID synchronization process is fully complete and its state changes to Online.



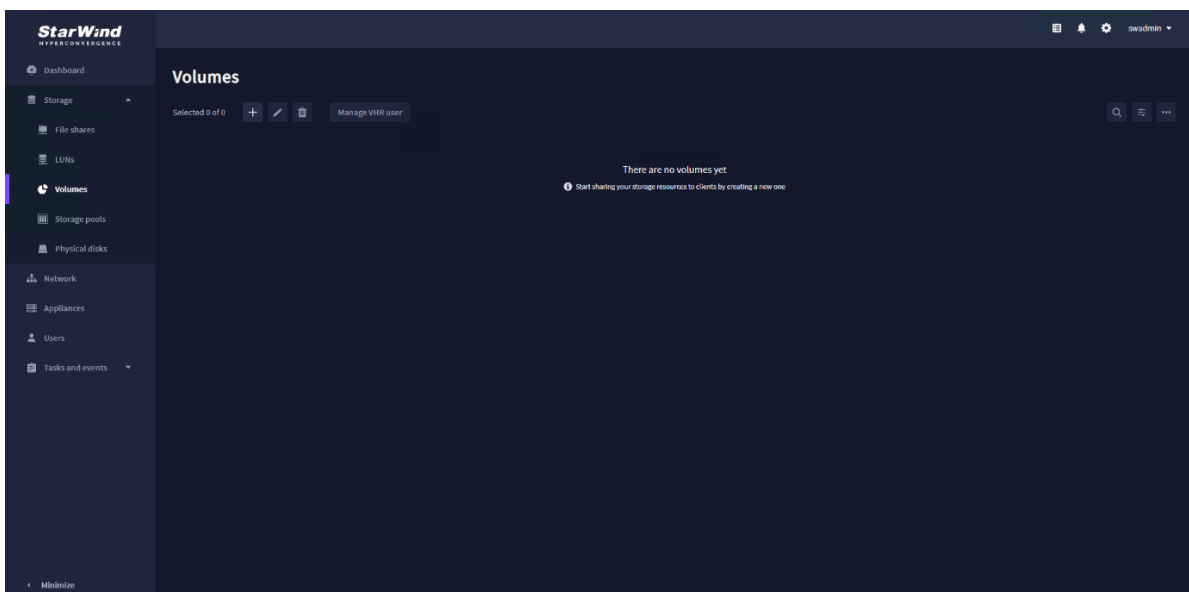
Create Backup Repository

StarWind x Veeam Hardened Backup Repository supports the creation of only hardened backup repository and non-hardened backup repository (direct attach Linux repository) for use with Veeam Backup & Replication.

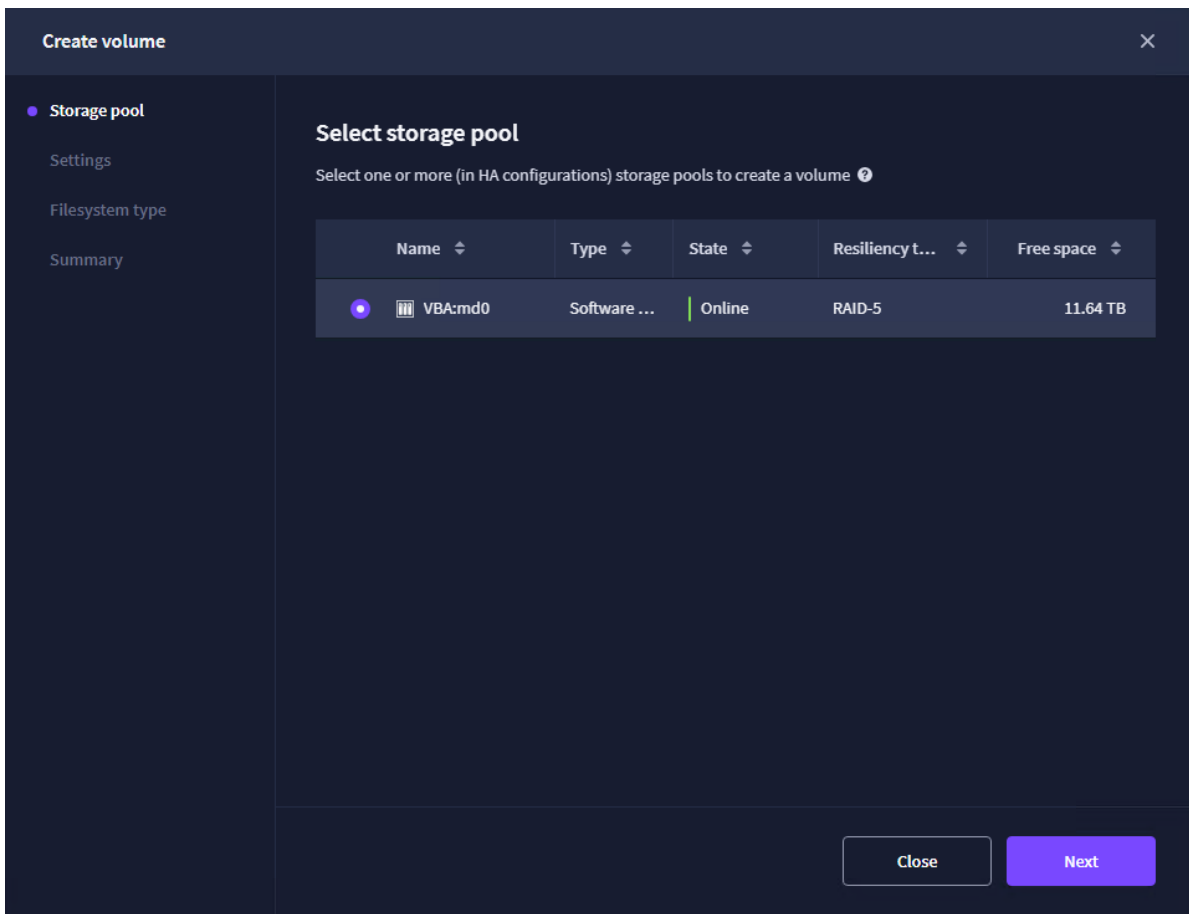
NOTE. Hardened Repository ensures immutability only when used with Veeam Backup & Replication.

Hardened Repository For Veeam Backup & Replication

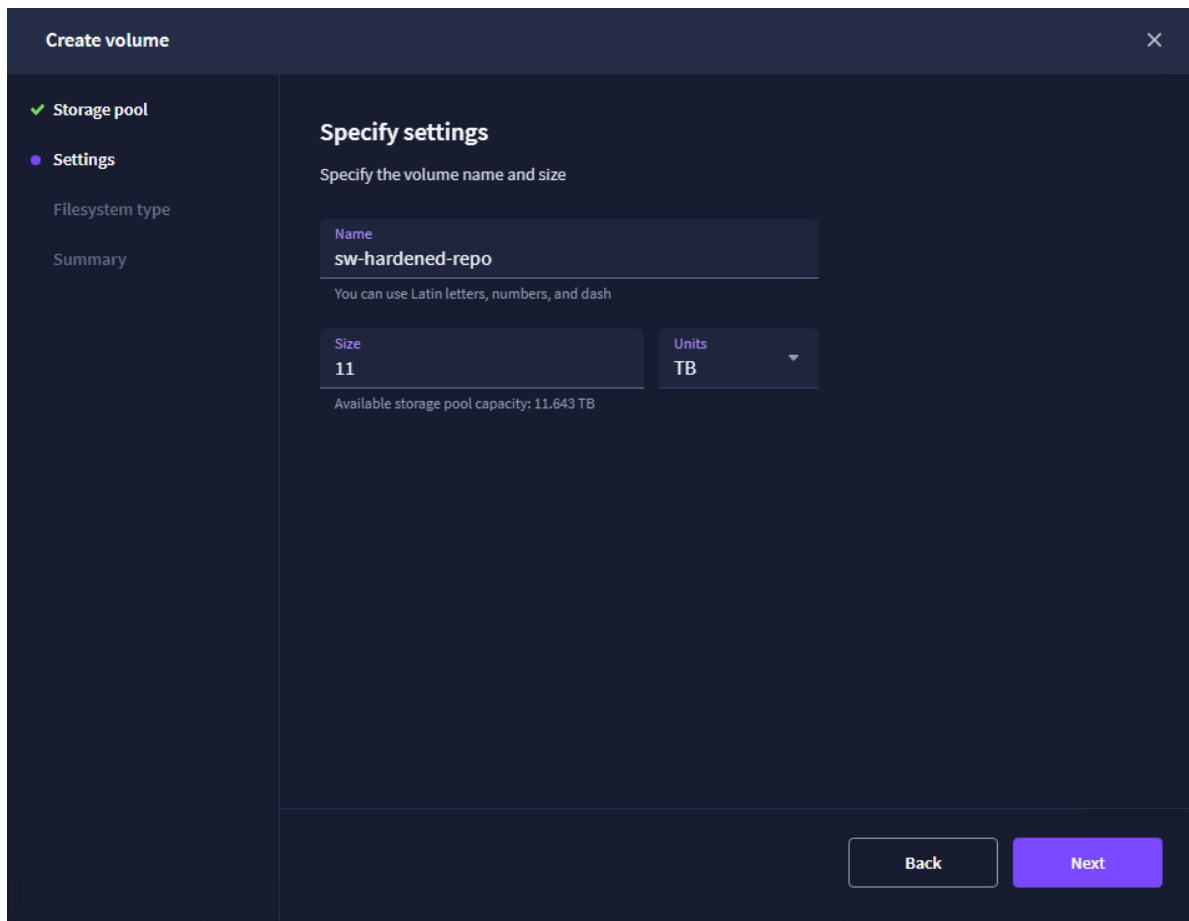
1. Navigate to the “Volumes” tab and click the “+” button to open the “Create volume” wizard.



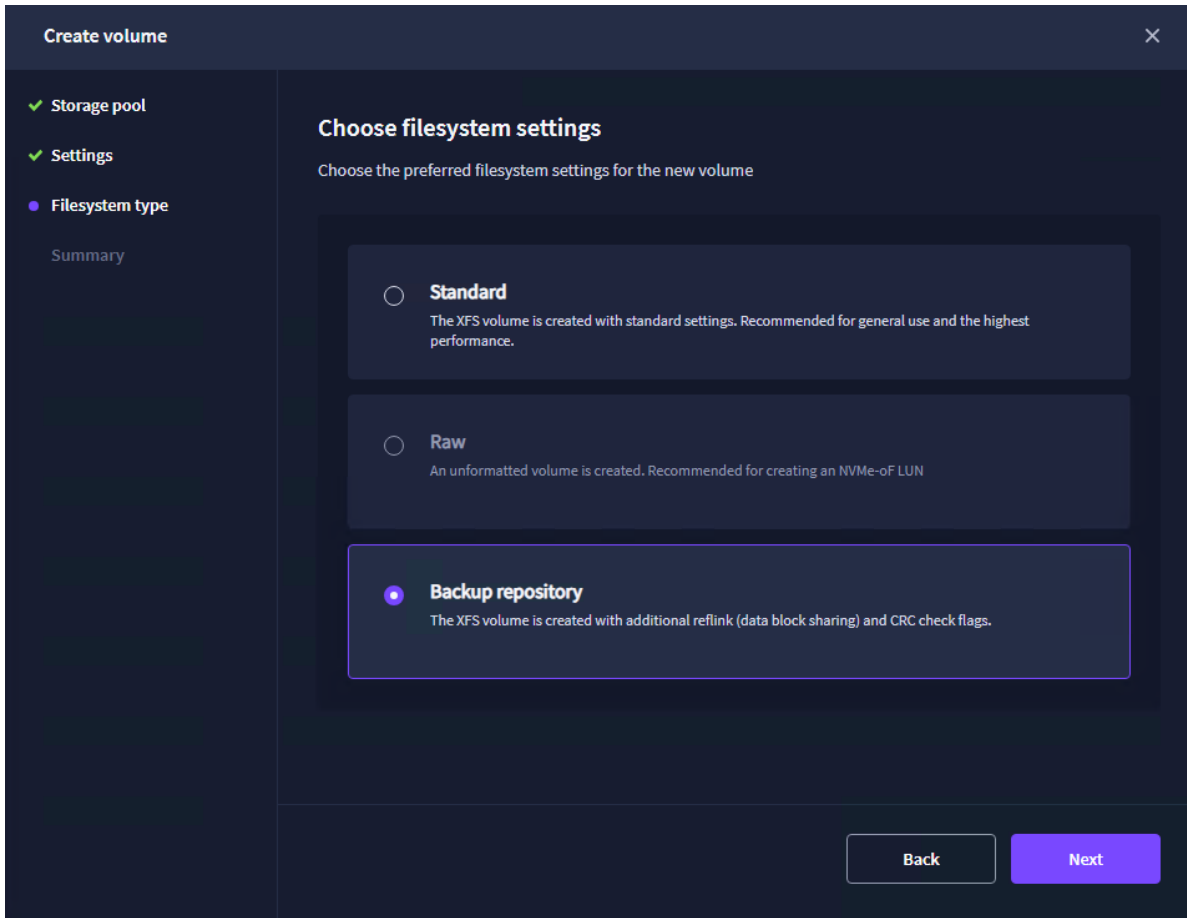
2. Select the storage pool that will be used for a new volume and click Next.



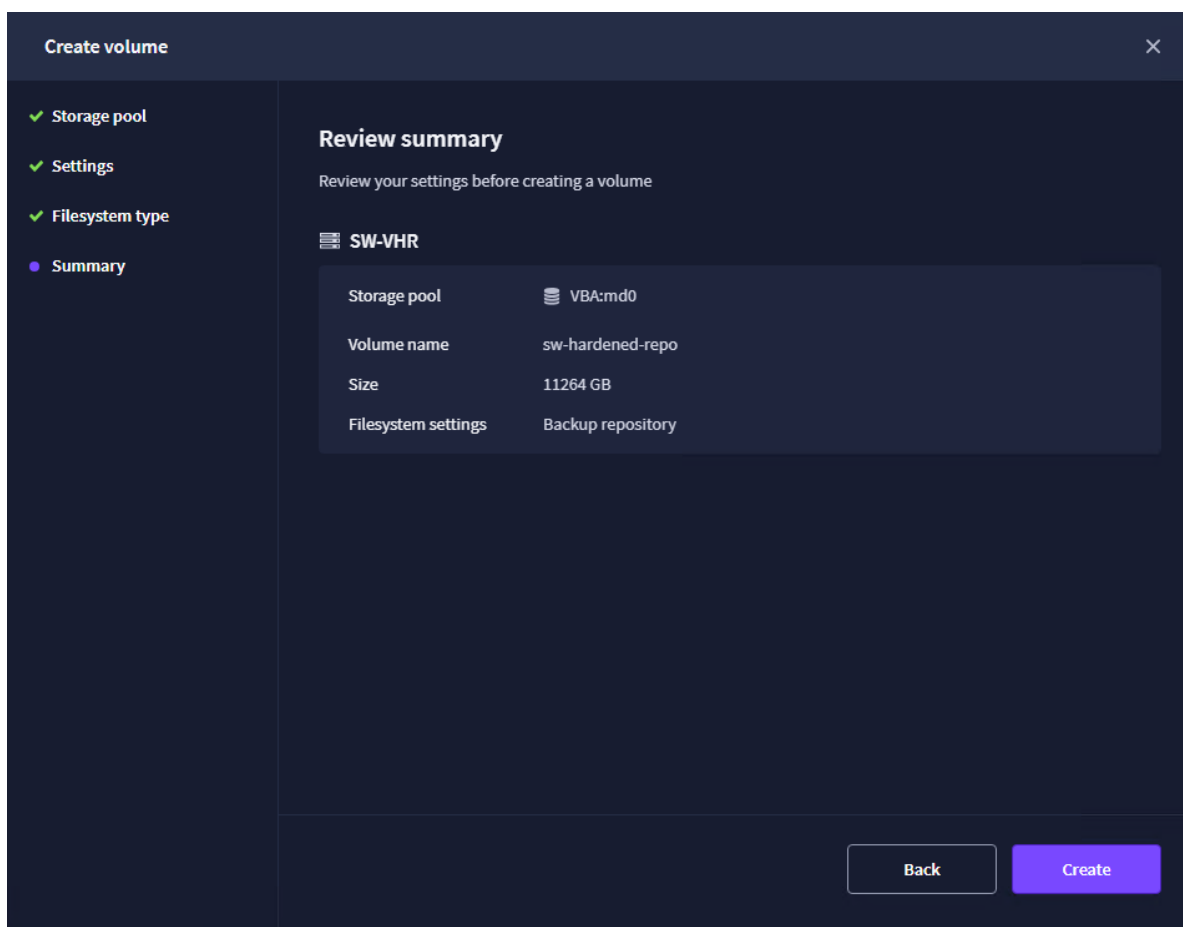
3. Specify the volume name and capacity. Click Next.



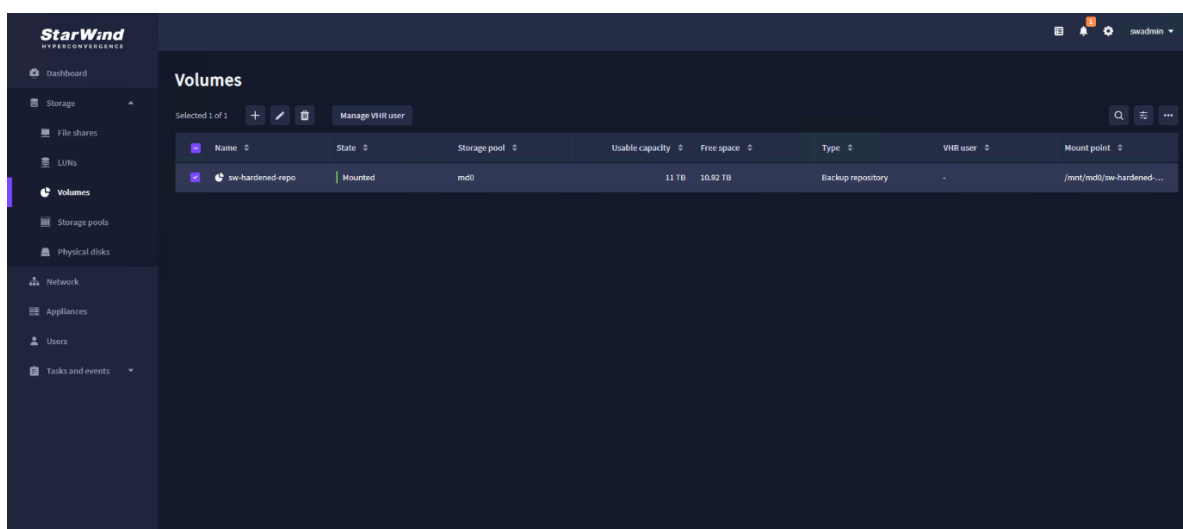
4. Select the “Backup repository” for the volume filesystem settings and click Next. The “Backup repository” settings option will configure the volume with additional reflink and CRC check flags.



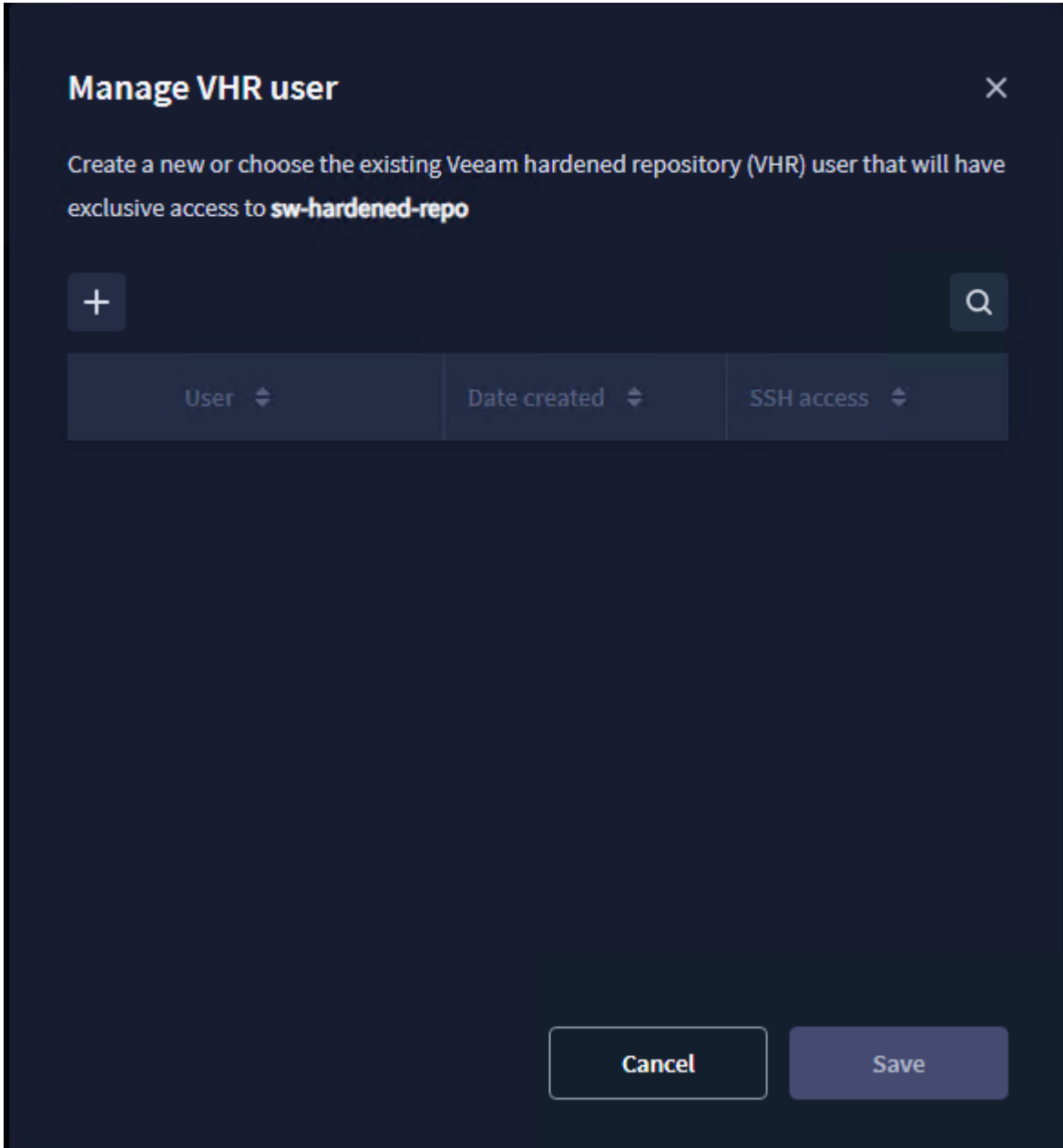
5. Review the summary information and click “Create”.



6. In the “Volumes” tab, select the newly created Backup repository volume and click “Manage VHR user”.



7. In the “Manage VHR user” pop-up window, click the “+” button.



8. Specify the credentials for the new user and make sure to enable SSH access for VHR user. Click Save.

Create Veeam user ✕

The new user will be assigned to the **Veeam service** group. ?

Veeam user name
veeamuser
Can contain lowercase Latin letters, digits, underscores, periods and dashes

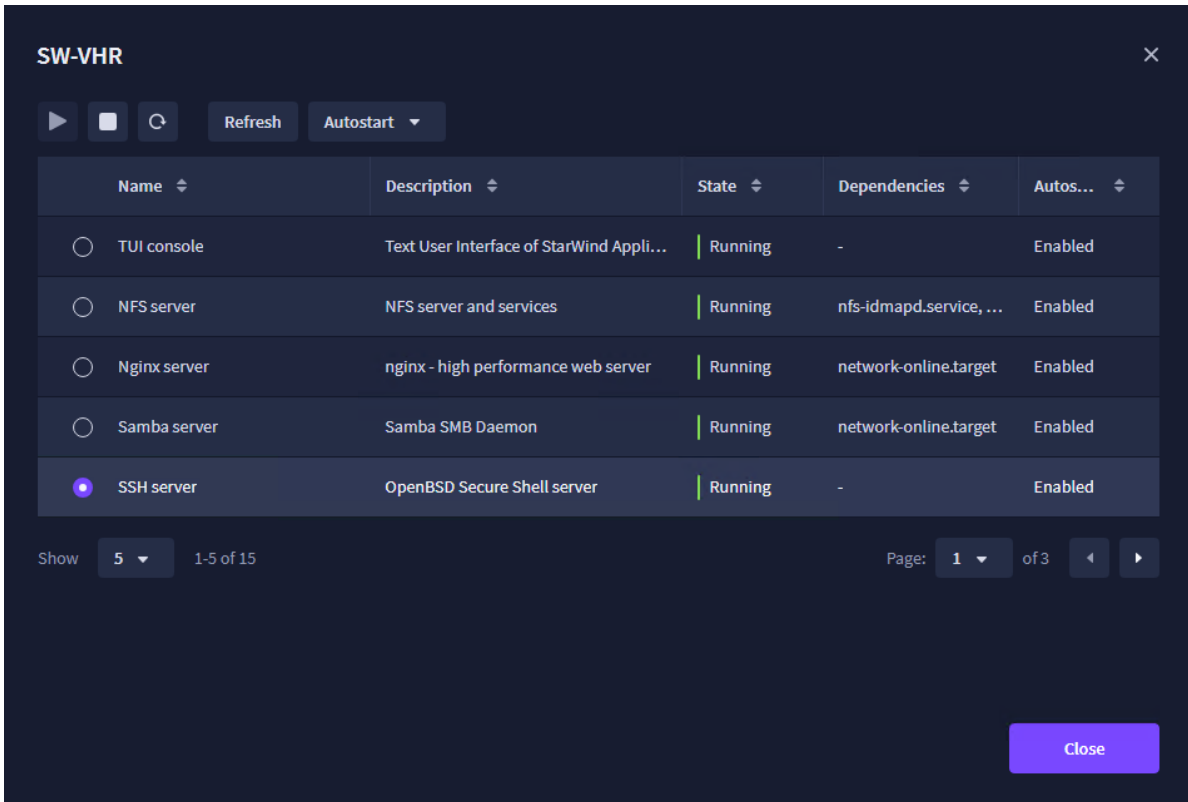
Password
.....
Must contain 8-64 characters, including numbers, symbols and capital letter

Enable SSH for this user

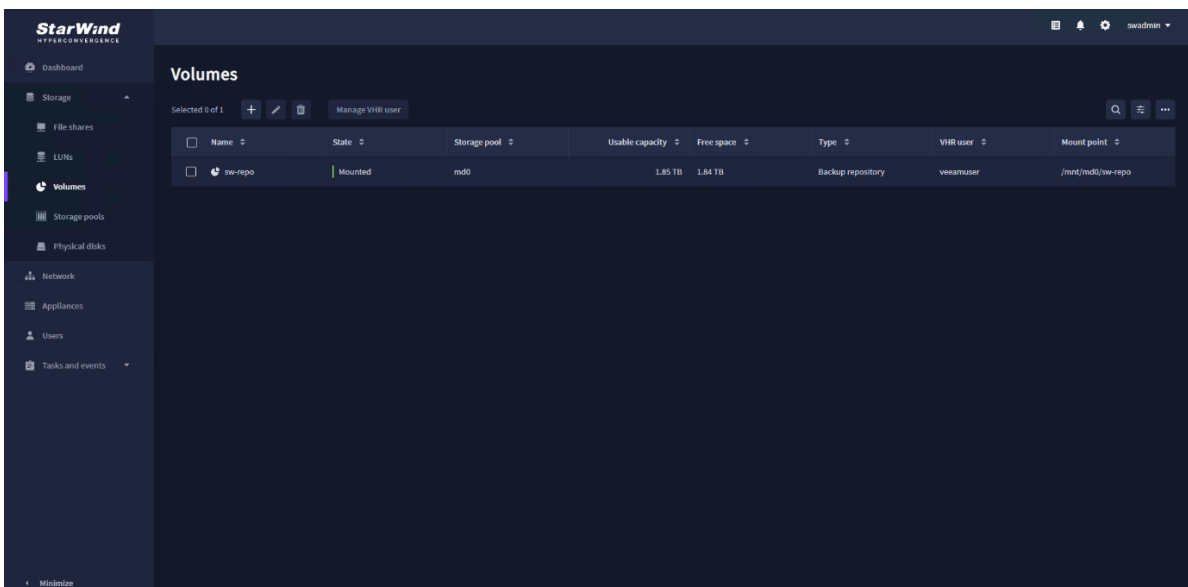
i Disable SSH after adding the host and creating the hardened repository in the Veeam Backup & Replication console.

Cancel Save

9. Make sure that SSH service is started and running in StarWind x Veeam Hardened Backup Repository CVM, For this, click the “settings icon”, navigate to “Services” and start SSH server.

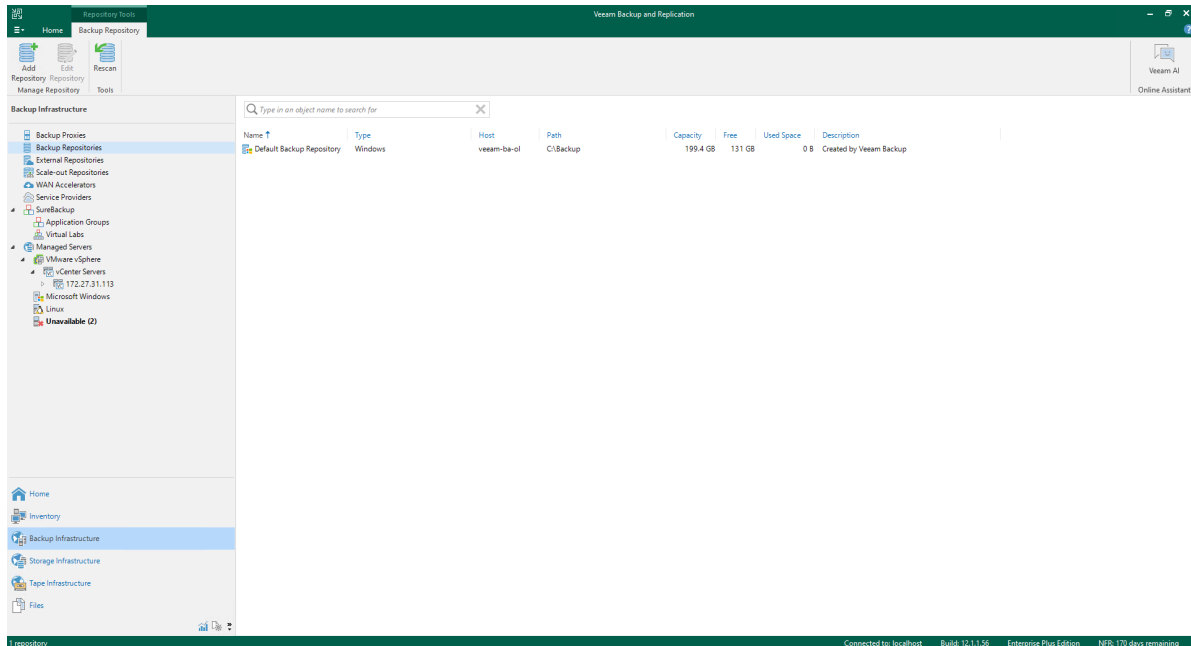


10. The new user has been assigned to the volume that will be used as Veeam Hardened Repository.



Adding Hardened Repository To Veeam Backup & Replication

1. Open the Veeam Backup and Replication console, navigate to “Backup Infrastructure”, and select “Backup Repositories”.



2. Click “Add Repository” and select “Direct attached storage”.

Add Backup Repository ✕

Select the type of backup repository you want to add.



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 Data Domain, ExaGrid, Fujitsu ETERNUS CS800, HPE StoreOnce, Infinidat InfiniGuard 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.


Cancel

3. Select "Linux (Hardened Repository)".




Direct Attached Storage ✕


Select the operating system type of a server you want to use as a backup repository.

- 

Microsoft Windows

Adds local storage presented as a regular volume or Storage Spaces. For better performance and storage efficiency, we recommend using ReFS.
- 

Linux


Adds local storage or locally mounted NFS share. For better performance and storage efficiency, we recommend using XFS. The Linux server must use bash shell, and have SSH and Perl installed.
- 

Linux (Hardened Repository)

Requires a Linux server with internal or direct attached storage. This configuration enables protection against cybersecurity threats with immutable backups. The Linux server must use bash shell and have SSH installed. For reduced attack surface, minimal Linux installation is highly recommended.

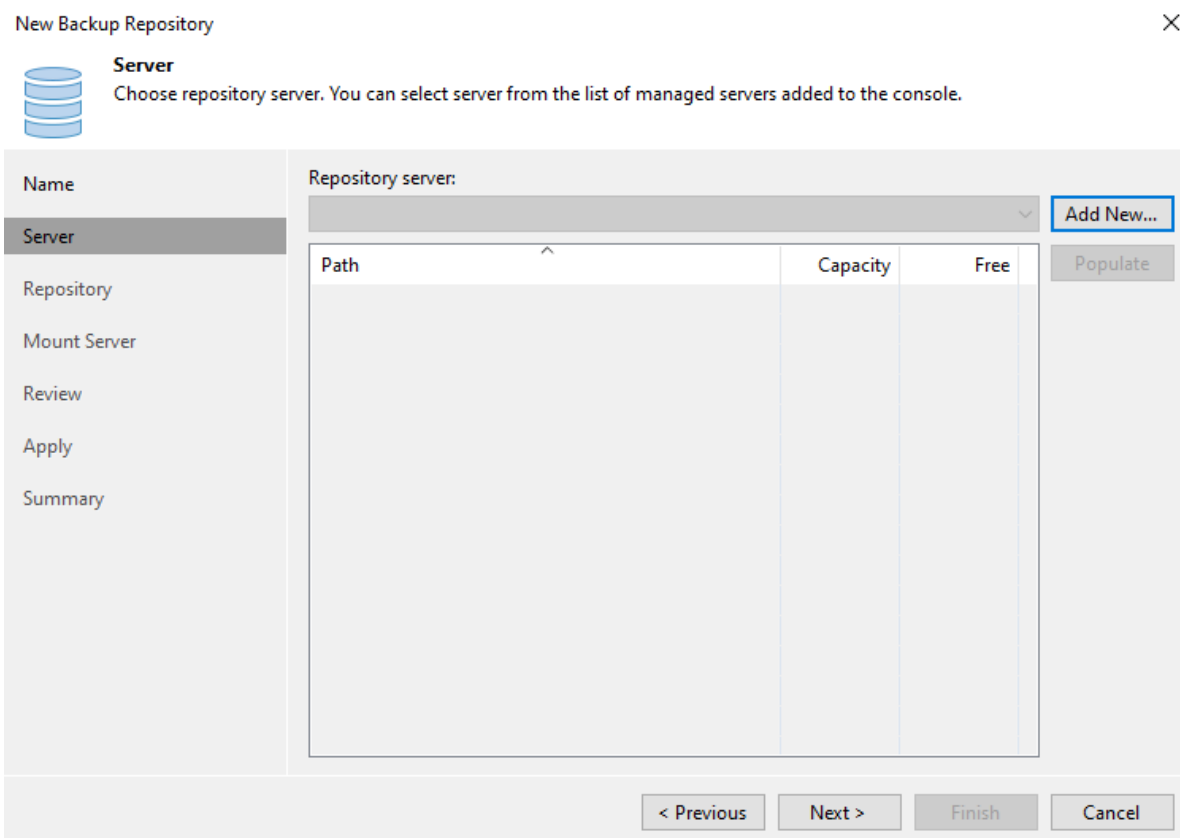
4. In the “New Backup Repository” wizard, specify the name and description for the new repository and click Next.

New Backup Repository ×

 **Name**
Type in a name and description for this backup repository.

Name	Name: <input type="text" value="sw-vhr"/>
Server	Description: <input type="text" value="Created by SW-VEEAMBR-OL\Administrator at 10/16/2024 9:16 AM."/>
Repository	
Mount Server	
Review	
Apply	
Summary	

5. Click “Add New...”.




6. In the “New Linux Server” wizard, specify the IP address of the backup traffic network interface (Data) on StarWind x Veeam Hardened Backup Repository CVM and click Next.

NOTE: You can add a backup repository using the management IP address of StarWind x Veeam Hardened Backup Repository CVM or DNS name. It is recommended to add the backup traffic network (Data) to Veeam preferred Networks after the addition of backup repository in case a separate dedicated backup (Data) network is present:

https://helpcenter.veeam.com/docs/backup/vsphere/select_backup_network.html?ver=120

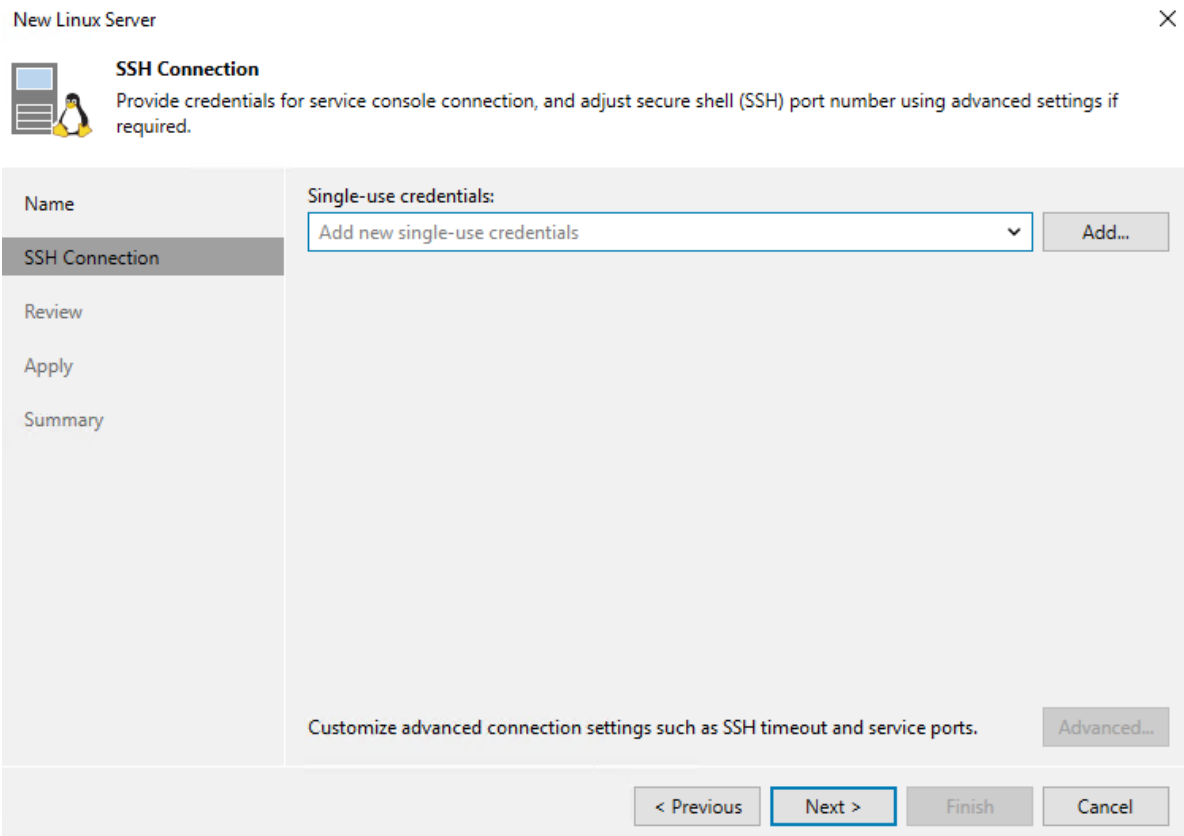
New Linux Server ×

 **Name**
Specify DNS name or IP address of Linux server. The server must have SSH and Perl installed.

Name	DNS name or IP address: <input type="text" value="172.16.30.10"/>
SSH Connection	Description: <input type="text" value="Created by SW-VEEAMBR-OL\Administrator at 10/4/2024 8:09 AM."/>
Review	
Apply	
Summary	

< Previous Next > Finish Cancel

7. Click “Add...” to add the VHR user account created previously that will be used for single-use credentials.



8. Specify the VHR user account credentials and click OK. Specify Advanced settings if required and then click Next.

Credentials

Username: veeamuser

Password: [masked]

SSH port: 22

Non-root account

- Elevate account privileges automatically
- Add account to the sudoers file
- Use "su" if "sudo" fails


Root password: [empty]

Description: veeamuser

OK Cancel

9. Review the components that will be installed and click Apply.

New Linux Server ×

 **Review**
Please review your settings and click Apply to continue.


Name	Due to these modifications the following components will be installed or removed on the target host:						
SSH Connection							
Review	<table border="1"><thead><tr><th>Component name</th><th>Status</th></tr></thead><tbody><tr><td>Installer</td><td>will be installed</td></tr><tr><td>Transport</td><td>will be installed</td></tr></tbody></table>	Component name	Status	Installer	will be installed	Transport	will be installed
Component name	Status						
Installer	will be installed						
Transport	will be installed						
Apply							
Summary							

After you click Apply missing components will be installed on the target host.

< Previous Apply Finish Cancel

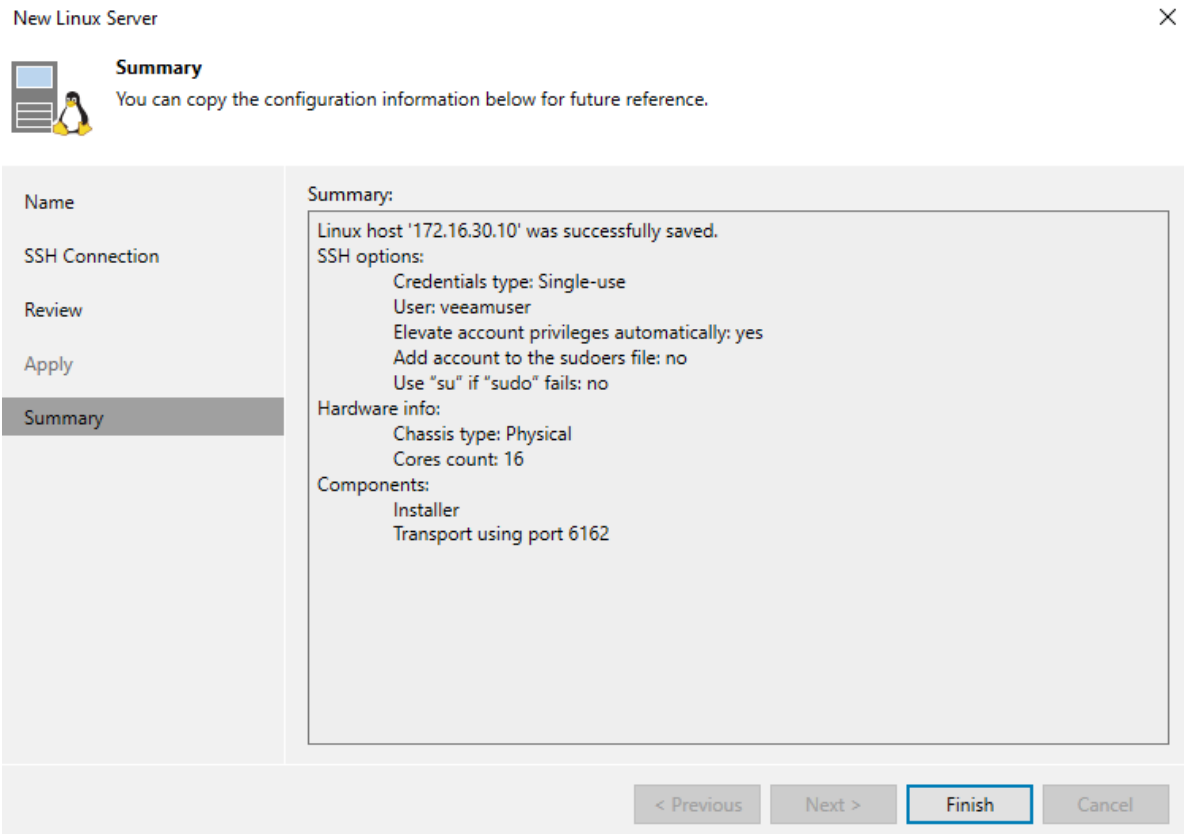
10. Wait until the installation is complete and click Next.

New Linux Server ×

 **Apply**
Please wait while required operations are being performed. This may take a few minutes...

Name	Message	Duration
SSH Connection	✓ Discovering installed packages	
	✓ Installing Transport service	0:00:03
Review	✓ Setting backup server certificate	
	✓ Resolving backup server certificate's thumbprint	
Apply	✓ Setting backup client certificate	
	✓ Configuring Transport service	
	✓ Restarting Transport service	
	✓ Testing Veeam Transport service connection	0:00:03
	✓ Discovering installed packages	
	✓ Closing deployer service management port	
	✓ Collecting hardware info	0:00:03
	✓ Creating database records for server	0:00:09
	✓ Collecting disks and volumes info	0:00:07
Summary	✓ Linux server saved successfully	

11. Review the summary and click Finish.



12. In the “New Backup Repository” wizard, select the newly added StarWind x Veeam Hardened Backup Repository server and click “Populate”. Select the Backup repository volume created in StarWind x Veeam Hardened Backup Repository and click Next

New Backup Repository



Server

Choose repository server. You can select server from the list of managed servers added to the console.

<p>Name</p> <p>Server</p> <p>Repository</p> <p>Mount Server</p> <p>Review</p> <p>Apply</p> <p>Summary</p>	Repository server:	172.16.30.10 (Created by SW-VEEAMBR-OL\Administrator at 10/4/2024 8:09 AM.)		Add New...	
	^				Populate
	Path	Capacity	Free		
	/ (/dev/mapper/main-root)	28.7 GB	18.5 GB		
	/boot (/dev/sda3)	456 MB	240.6 MB		
	/boot/efi (/dev/sda2)	240.2 MB	240.2 MB		
	/dev (udev)	3.8 GB	3.8 GB		
	/dev/shm (tmpfs)	3.9 GB	3.9 GB		
	/mnt/md0/sw-hardened-repo (/dev/mapper/vg...)	11 TB	10.9 TB		
	/run (tmpfs)	793.4 MB	790.8 MB		
/run/lock (tmpfs)	5 MB	5 MB			
/run/user/1002 (tmpfs)	793.3 MB	793.3 MB			
/run/user/1003 (tmpfs)	793.3 MB	793.3 MB			
/sys/fs/cgroup (tmpfs)	3.9 GB	3.9 GB			
<input style="border: 1px solid #ccc;" type="button" value=" < Previous "/> <input style="border: 1px solid #ccc;" type="button" value=" Next > "/> <input style="border: 1px solid #ccc;" type="button" value=" Finish "/> <input style="border: 1px solid #ccc;" type="button" value=" Cancel "/>					

13. Make sure that the “Use fast cloning on XFS volumes” setting is enabled and specify the required retention period for immutability as well as other settings if required. Click Next.

New Backup Repository
✕


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

Name	Location
Server	Path to folder: <input type="text" value="/mnt/md0/sw-hardened-repo/backups"/> Browse...
Repository	<div style="display: flex; justify-content: space-between;"> Capacity: <Unknown> Populate </div> <div style="display: flex; justify-content: space-between;"> Free space: <Unknown> </div> <p><input checked="" type="checkbox"/> Use fast cloning on XFS volumes (recommended) Reduces storage consumption and improves synthetic backup performance.</p> <p>Make recent backups immutable for: <input type="text" value="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.</p>
Mount Server	<p>Load control</p> <p>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:</p> <p><input checked="" type="checkbox"/> Limit maximum concurrent tasks to: <input type="text" value="4"/></p> <p><input type="checkbox"/> Limit read and write data rate to: <input type="text" value="1"/> MB/s</p>
Review	
Apply	
Summary	<p>Click Advanced to customize repository settings. Advanced...</p>

< Previous Next > Finish Cancel

14. Select the Mount server and instant-recovery write cache folder. Specify additional Ports settings if required.

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	Mount server:
Server	<input type="text" value="sw-veeambr-01 (Backup server)"/> Add New...
Repository	Instant recovery write cache folder: <input type="text" value="C:\ProgramData\Veeam\Backup\IRCache\"/> Browse...
Mount Server	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.
Review	<input checked="" type="checkbox"/> Enable vPower NFS service on the mount server (recommended) Ports...
Apply	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.
Summary	

< Previous
Next >
Finish
Cancel

15. Review the settings and components that will be installed and click Apply.

New Backup Repository ×

 **Review**
Please review the settings, and click Apply to continue.

<p>Name</p> <p>Server</p> <p>Repository</p> <p>Mount Server</p> <p>Review</p> <p>Apply</p> <p>Summary</p>	<p>The following components will be processed on server sw-veeambr-01:</p> <table border="1"> <thead> <tr> <th>Component name</th> <th>Status</th> </tr> </thead> <tbody> <tr> <td>vPower NFS</td> <td>already exists</td> </tr> <tr> <td>Mount Server</td> <td>already exists</td> </tr> <tr> <td>VMware VDDK</td> <td>already exists</td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> </tbody> </table> <p><input type="checkbox"/> Search the repository for existing backups and import them automatically</p> <p><input type="checkbox"/> Import guest file system index data to the catalog</p> <p style="text-align: right;"> <input style="border: none;" type="button" value=" < Previous "/> <input style="border: 1px solid blue;" type="button" value=" Apply "/> <input style="border: none;" type="button" value=" Finish "/> <input style="border: none;" type="button" value=" Cancel "/> </p>	Component name	Status	vPower NFS	already exists	Mount Server	already exists	VMware VDDK	already exists				
Component name	Status												
vPower NFS	already exists												
Mount Server	already exists												
VMware VDDK	already exists												

16. Wait until the backup repository is created and click Next.

New Backup Repository

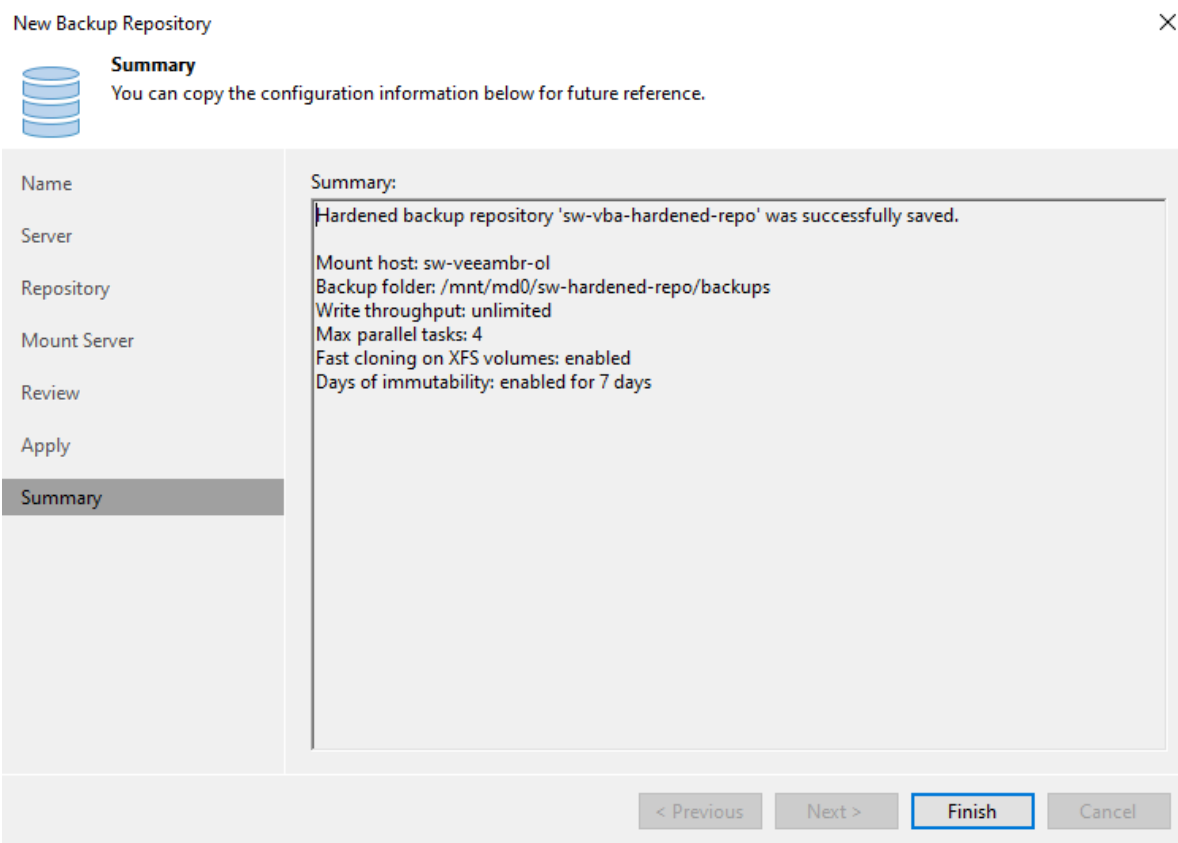


Apply

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

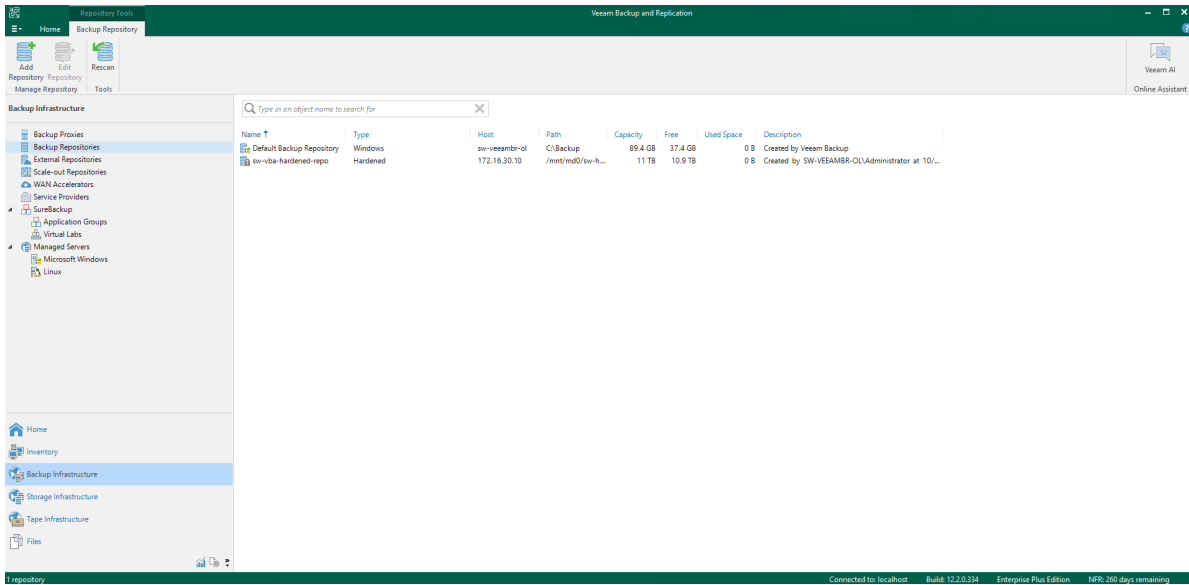
Name	Message	Duration
Server	Starting infrastructure item update process	0:00:02
Repository	Discovering installed packages	
Mount Server	Registering client sw-veeambr-ol for package vPower NFS	
Review	Registering client sw-veeambr-ol for package Mount Server	
Apply	Registering client sw-veeambr-ol for package VMware VDDK	
Summary	Discovering installed packages	
	All required packages have been successfully installed	
	Detecting server configuration	
	Reconfiguring vPower NFS service	0:00:07
	Creating configuration database records for installed packages	
	Collecting backup repository info	0:00:03
	Opening deployer service management port	
	Checking write permissions for the repository folder	
	Enabling restricted mode for Installer	
	Closing deployer service management port	
	Creating database records for repository	0:00:04
	Backup repository has been saved successfully	

17. Review the summary and click Finish.

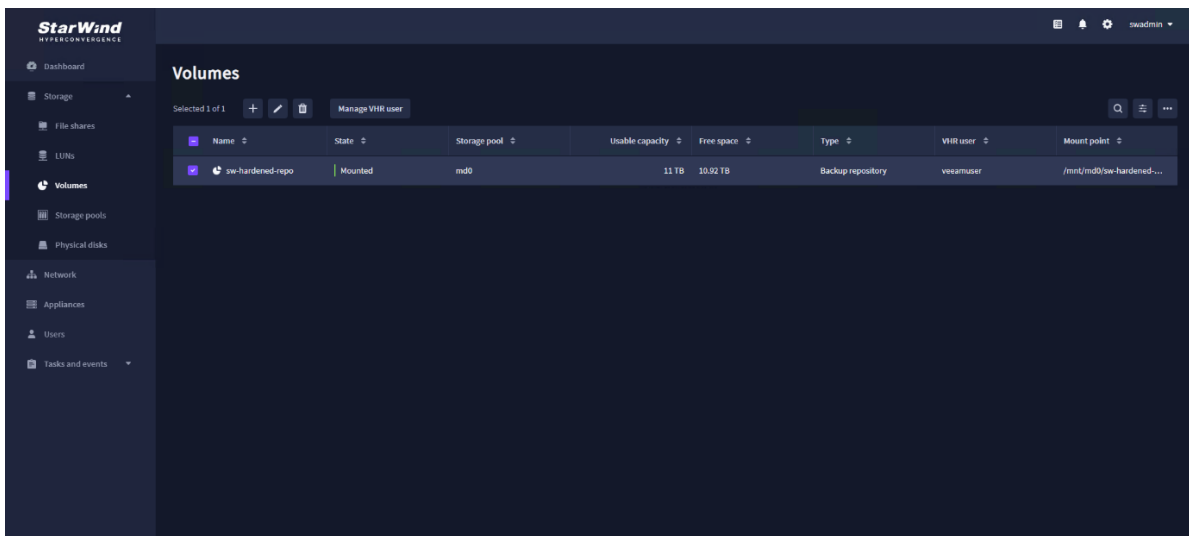


18. Veeam prompts whether you want to change the configuration backup location to the newly added repository. Select the preferred option according to your requirements.

19. Hardened Repository has been successfully added to Veeam Backup & Replication.



20. Navigate back to the “Volumes” tab in StarWind x Veeam Hardened Backup Repository CVM WEB UI, select the Backup repository volume and click “Manage VHR user”.










21. Change SSH access to “Disabled” to secure StarWind x Veeam Hardened Backup Repository from potential local threats such as credentials theft. Click “Save”.

Conclusion

Following this guide, StarWind x Veeam Hardened Backup Repository has been configured on a physical bare-metal server using the StarWind Appliance ISO and added to Veeam Backup & Replication.

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