

# StarWind Virtual Backup Appliance: Configuration Guide for Microsoft Windows Server [Hyper-V], Virtual Backup Appliance Deployed as a Controller VM using Web UI

2026

TECHNICAL PAPERS



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## About StarWind

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 Virtual Backup Appliance (VBA), StarWind Virtual Backup Appliance Free (VBA Free)

Purpose

StarWind Virtual Backup Appliance (VBA) is a software solution that runs as a Virtual Machine on top of the Hyper-V host and turns it into a modern and robust backup repository.

This document outlines how to configure the StarWind Virtual Backup Appliance (VBA) on Hyper-V host. It covers the steps on how to create a Hardened Repository in StarWind VBA and connect it to Veeam Backup & Replication for achieving backups immutability. It also describes how to configure an iSCSI backup repository as well as NFS and SMB repositories for use with Veeam Backup & Replication or other backup software.

Audience

This technical guide is intended for storage and virtualization architects, system and backup administrators, and partners designing virtualized environments StarWind Virtual Backup Appliance (VBA).

Expected result

The end result of following this guide will be a fully configured StarWind Virtual Backup Appliance (VBA) on a Hyper-V host with different backup repository types created.

## Prerequisites

StarWind VBA system requirements

Prior to installing StarWind VBA, please make sure that the system meets the requirements, which are available via the following link:

<https://www.starwindsoftware.com/system-requirements#vba>

StarWind Software System Requirements

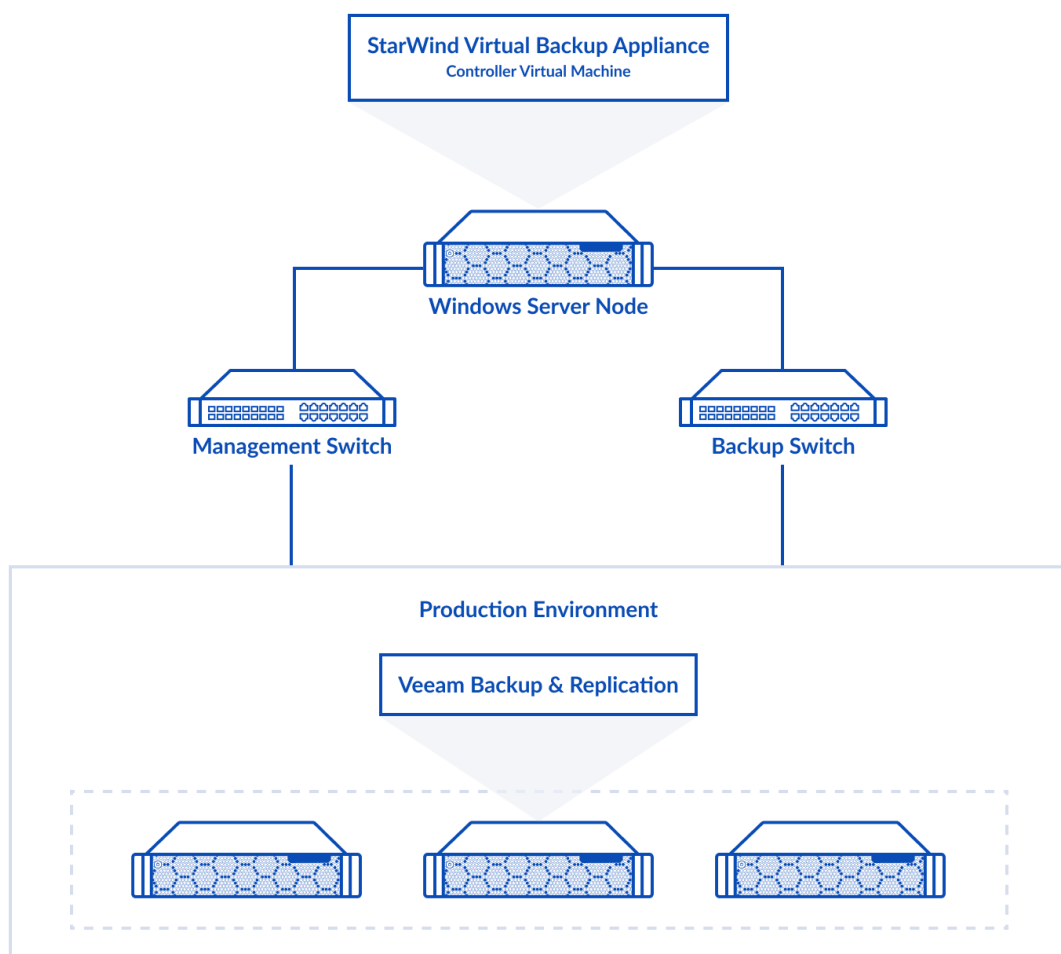
Check out the system requirements for StarWind solutions to ensure the promised performance and stability

Recommended RAID settings for HDD and SSD disks:

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

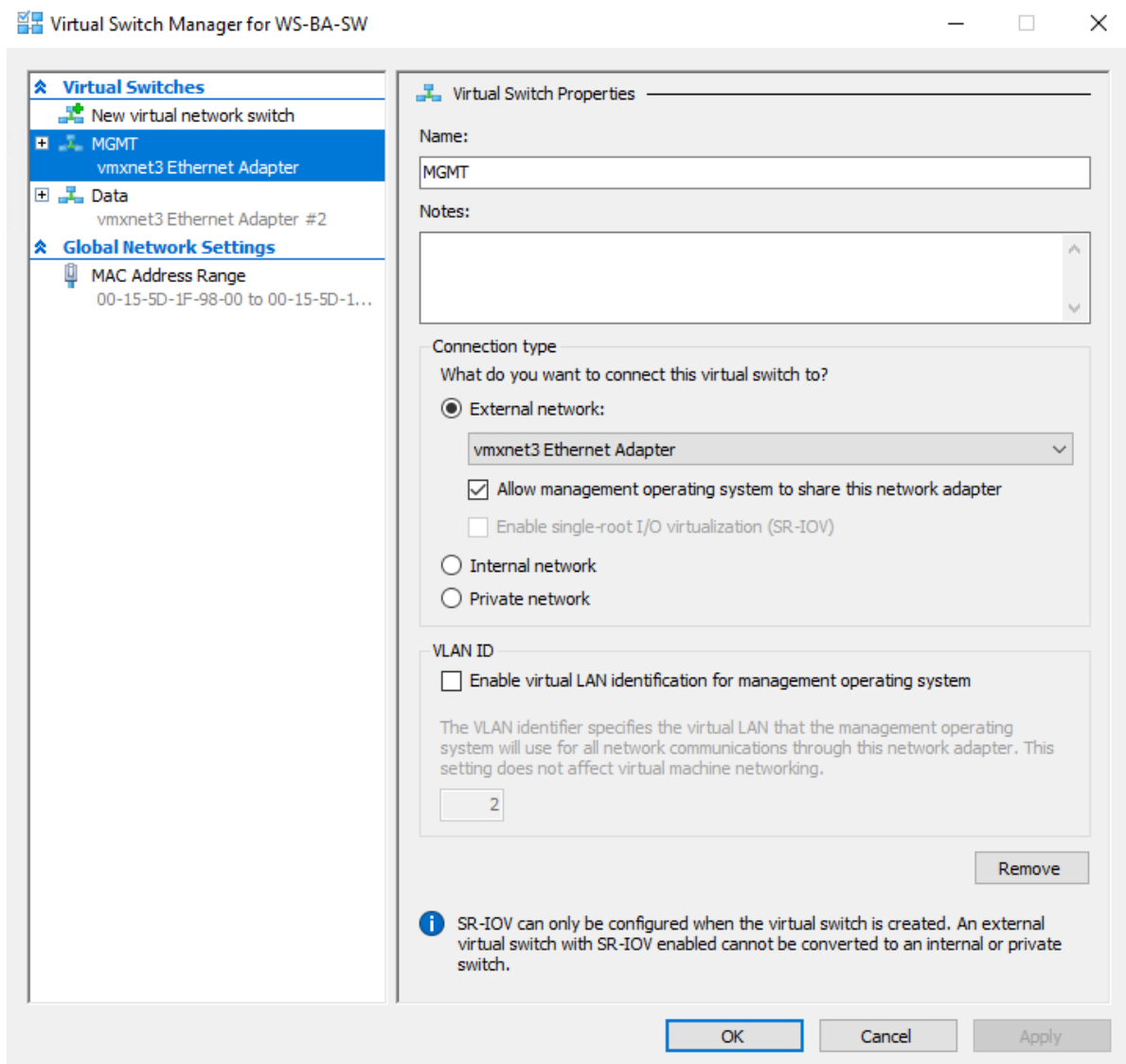
Solution diagram

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



## Preconfiguring Microsoft Hyper-V Host

1. Deploy Windows Server on the host and install the Hyper-V role. This can be done through Server Manager (Add Roles and Features menu item).
2. Define at least 1x network interface that will be used for the Data (backup) traffic.
3. Separate external Virtual Switches should be created for the management and Data (backup) traffic. Using Hyper-V Manager open Virtual Switch Manager and create an external Virtual Switch.



4. Configure and set the IP address on each virtual switch interface. In this document,

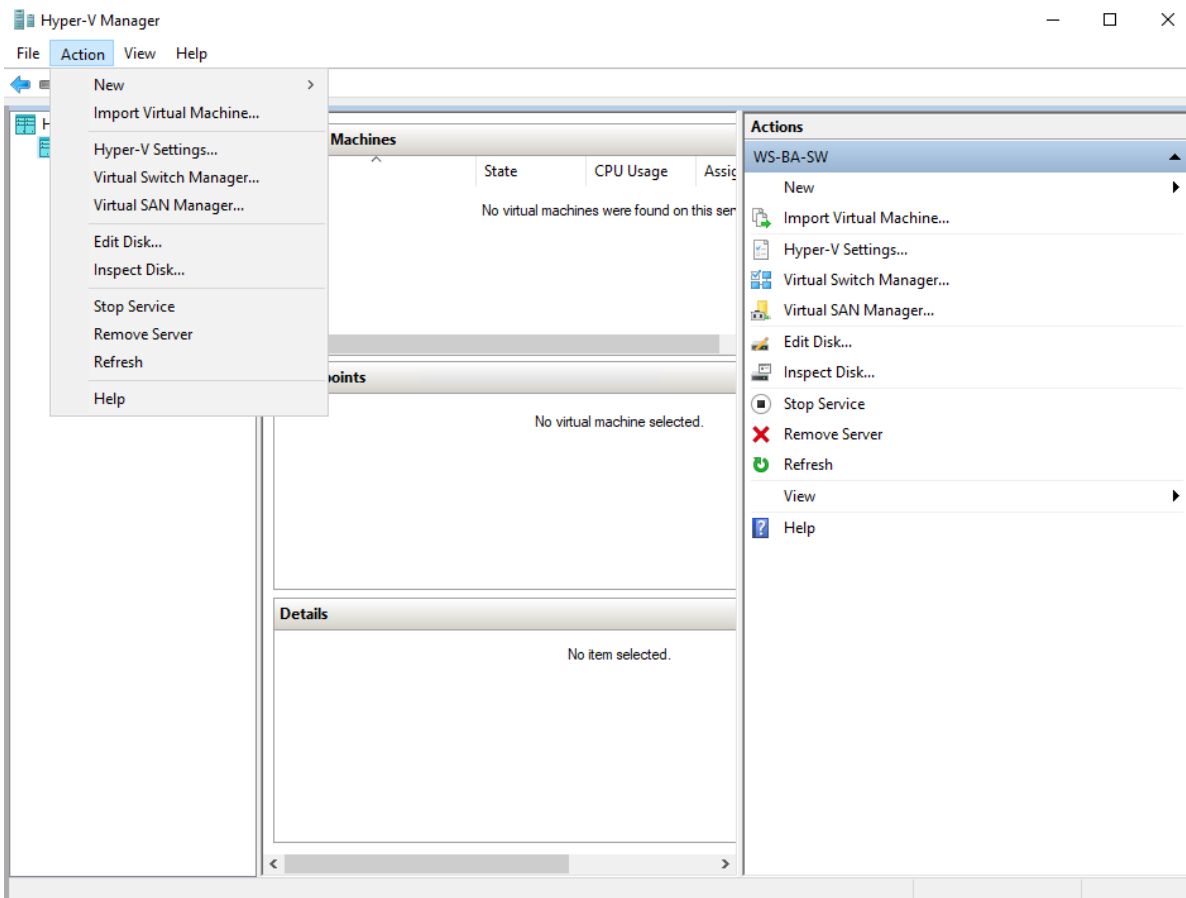
172.16.30.x subnet is used for Data (backup) traffic.

NOTE: In case NIC supports SR-IOV, enable it for the best performance. An additional internal switch is required for iSCSI Connection. Contact support for additional details.

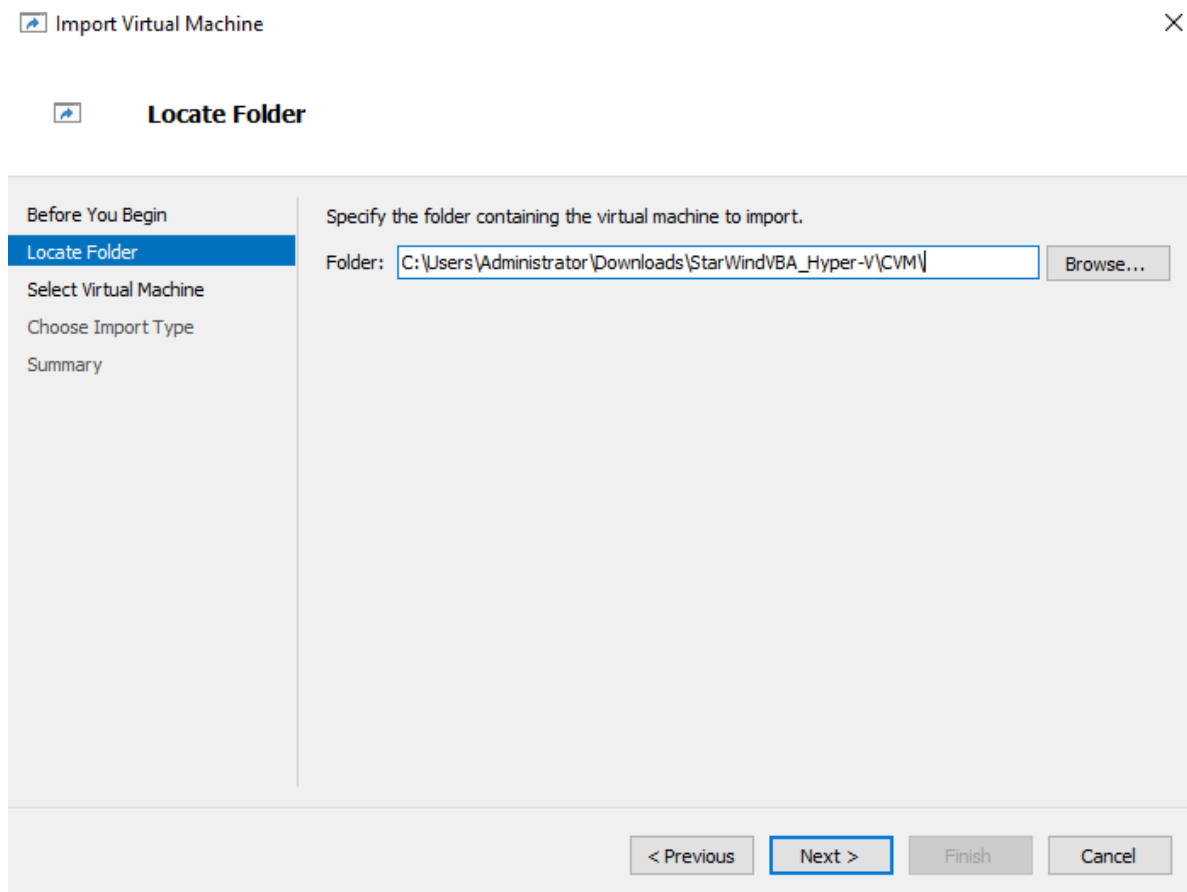
Set MTU size to 9014 on Data interface.

## Deploying Starwind Virtual Backup Appliance

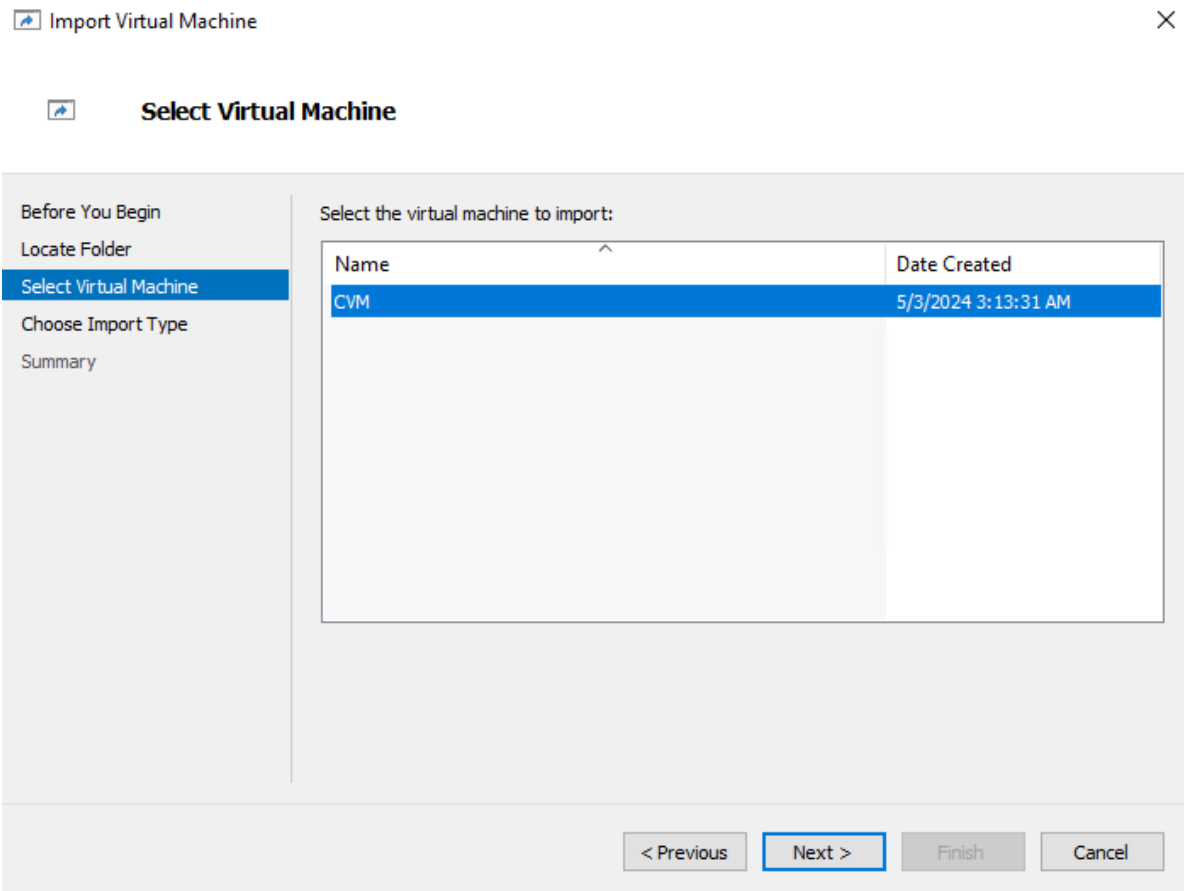
1. Download StarWind Virtual Backup Appliance zip archive: <https://www.starwindsoftware.com/backup-appliance#download>
2. Extract the virtual machine files.
3. Deploy the control virtual machine to the Microsoft Hyper-V Server using the “Import Virtual Machine” wizard in Hyper-V Manager.



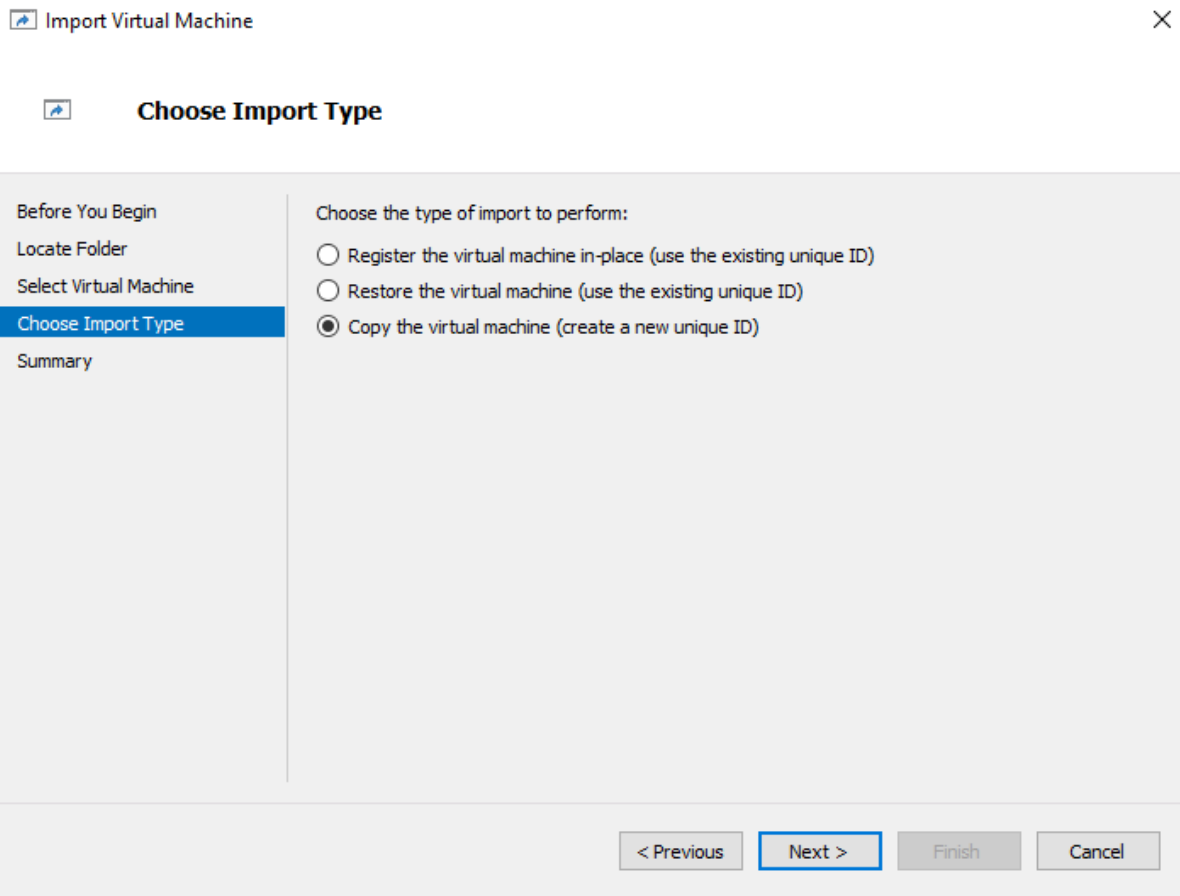
4. On the second page of the wizard, point to the location of the VM template. Select the VM folder and click Next.



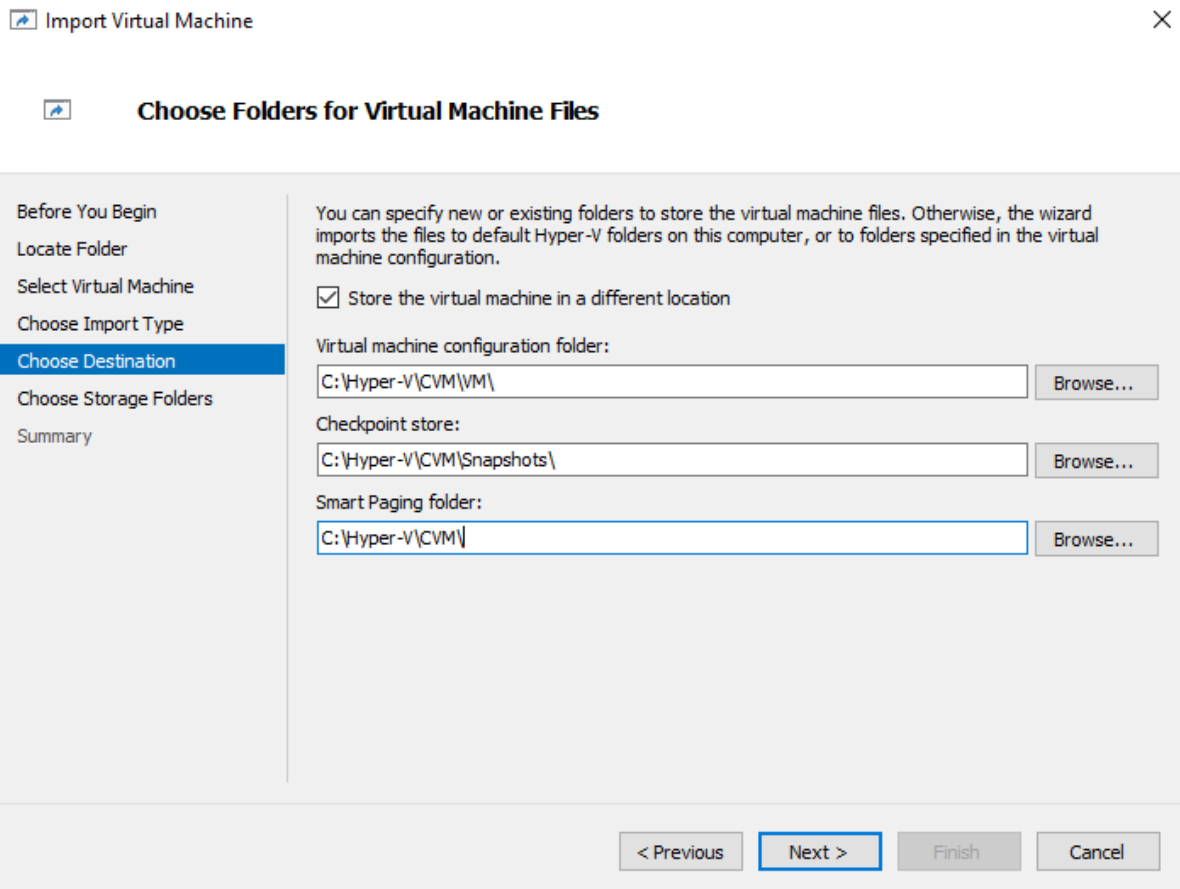
5. Click Next on the "Select Virtual Machine" step.



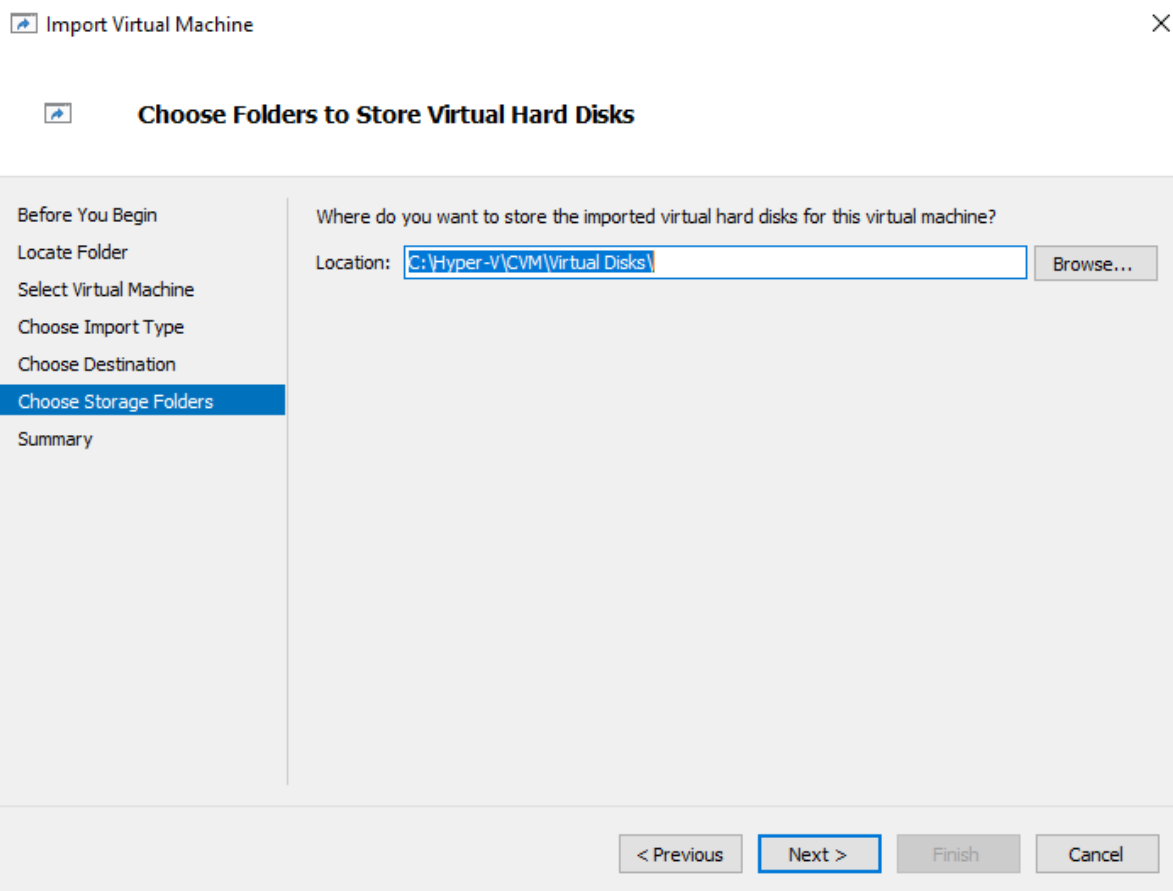
6. Select the “Copy the virtual machine” import type and click Next.



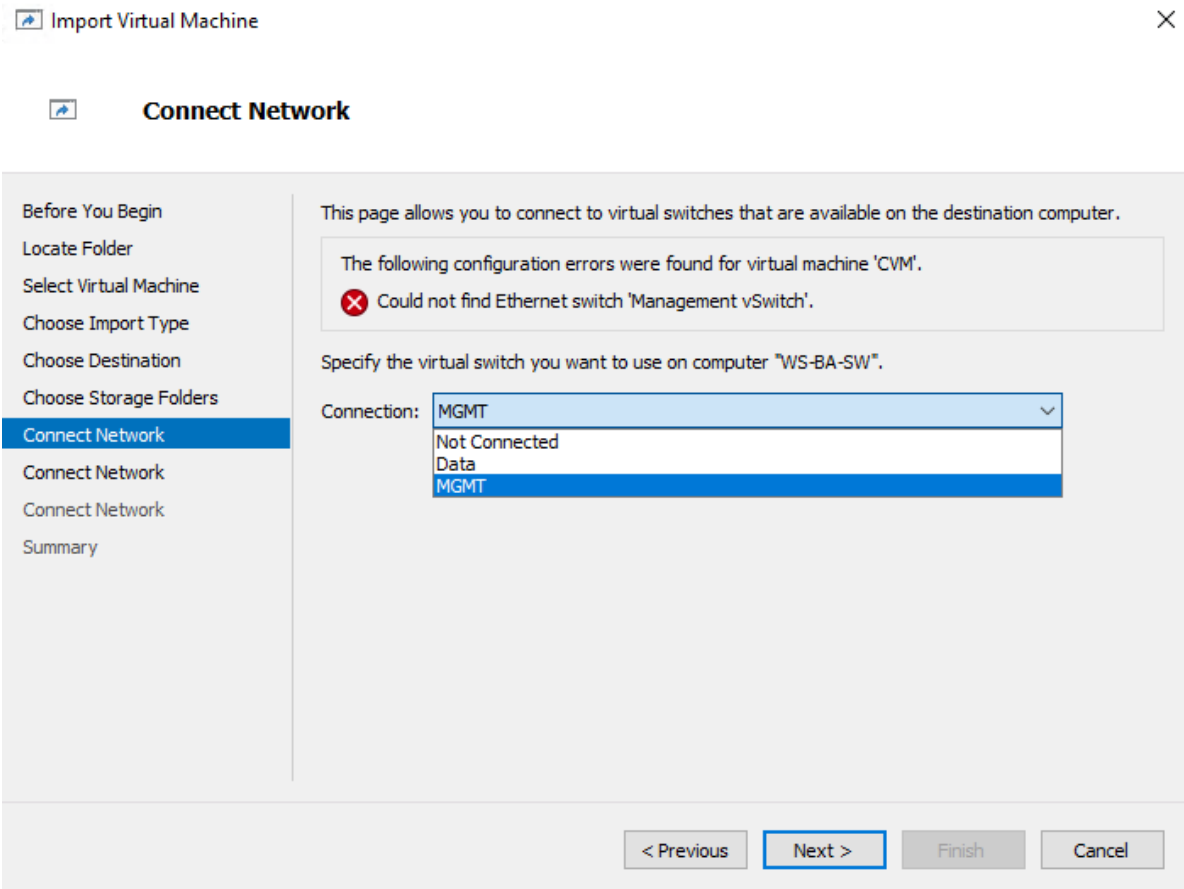
7. Specify new or existing folders to store virtual machine files, such as configuration, snapshots and smart paging. Click Next.



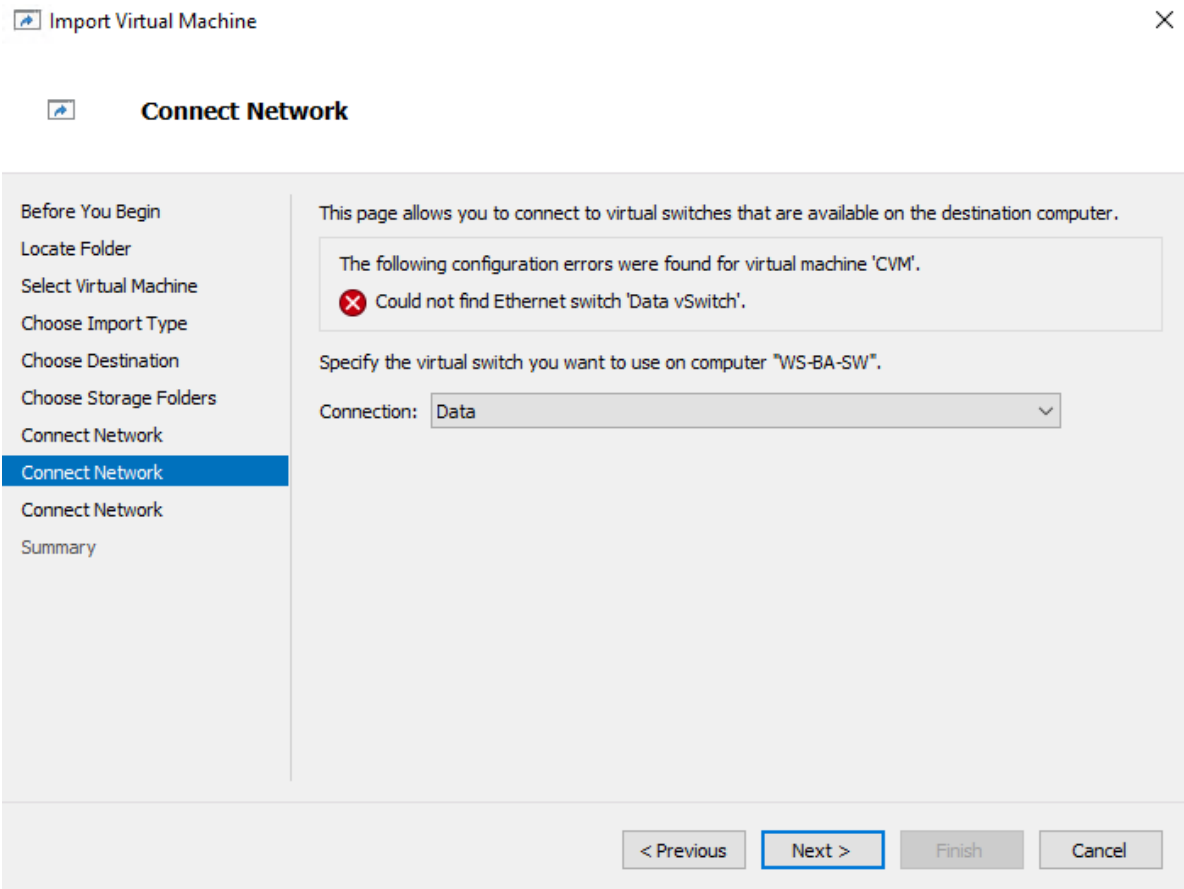
8. Specify new or existing folder to store virtual machine virtual disk files. Click Next.



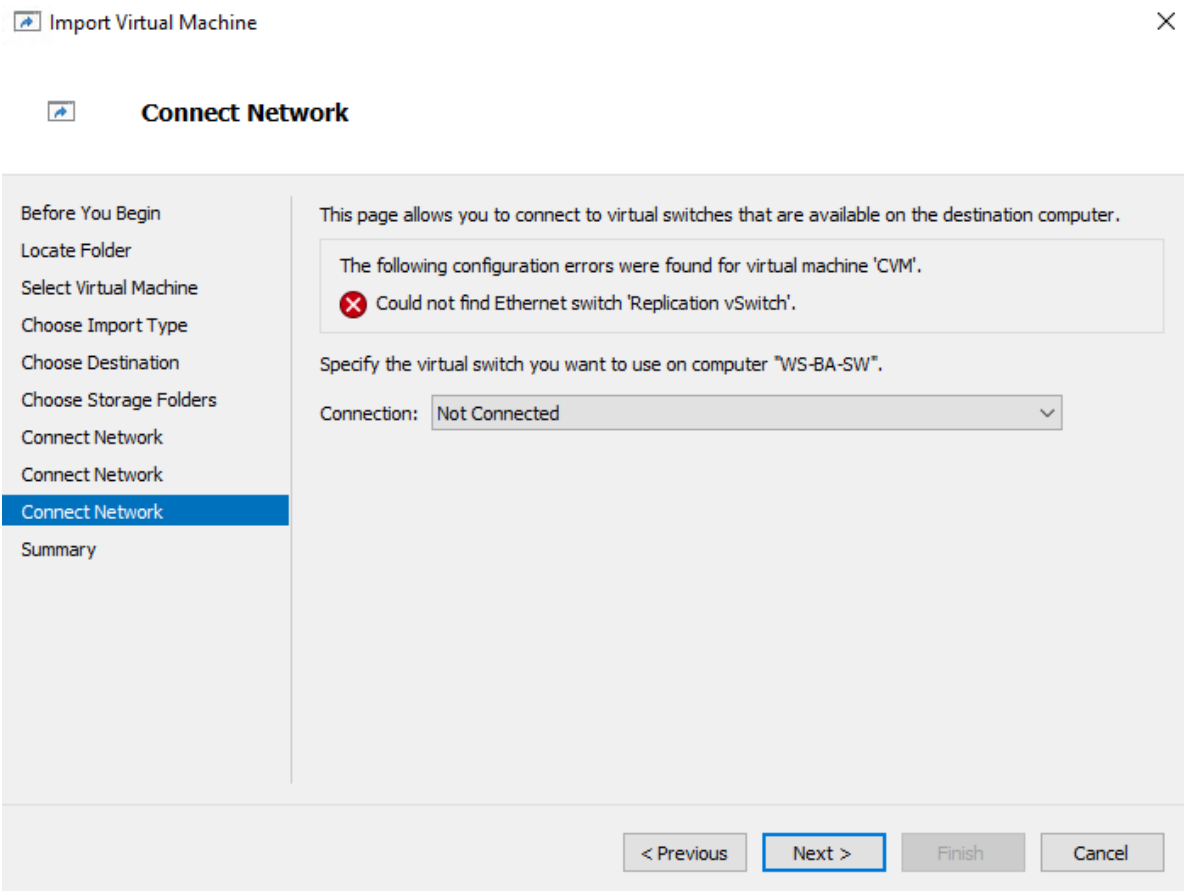
9. After this, the “VM import” wizard will validate the network. The default naming for management virtual switch is “Management vSwitch”. If existing virtual switch has a different name, specify corresponding network connections. Click Next.



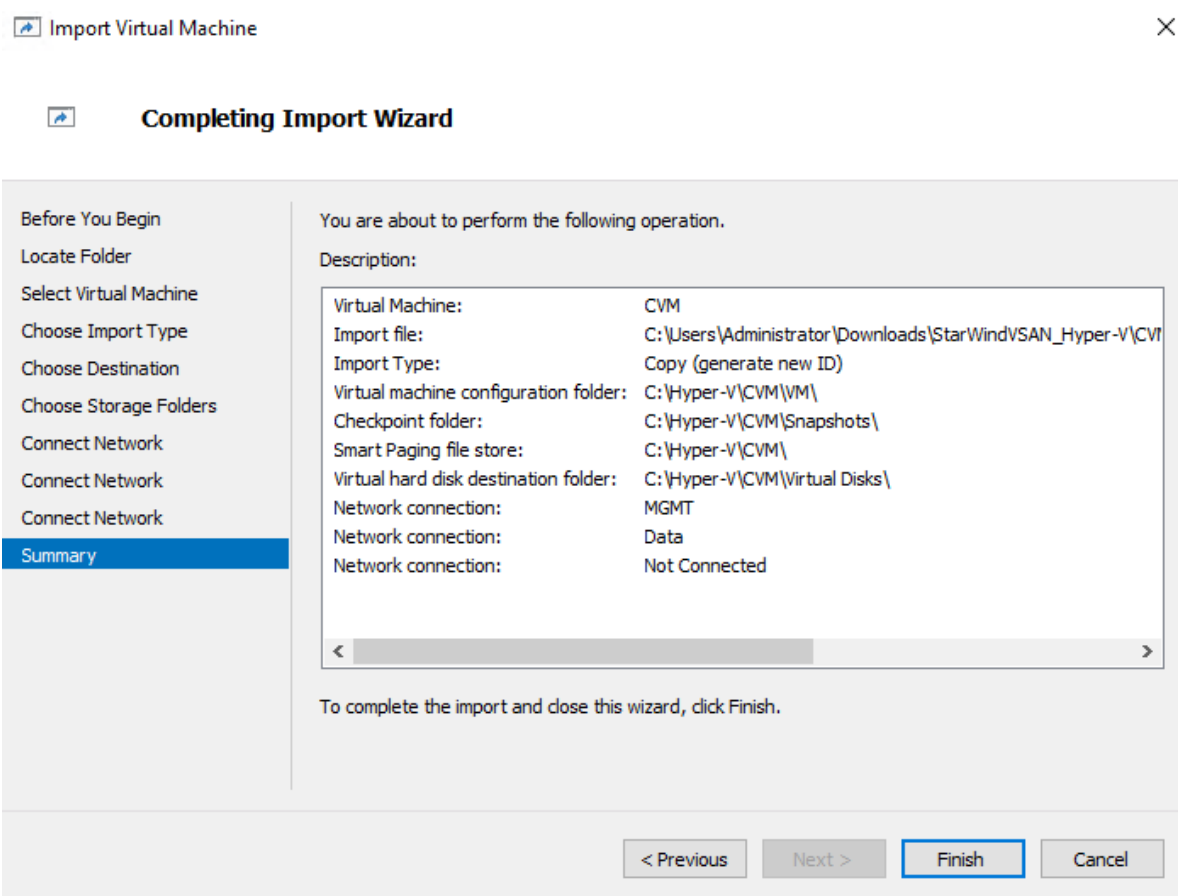
10. Perform the same for the Data (backup) traffic network. The default naming for Data virtual switch is "Data vSwitch". If existing virtual switch has a different name, specify corresponding network connections. Click Next.



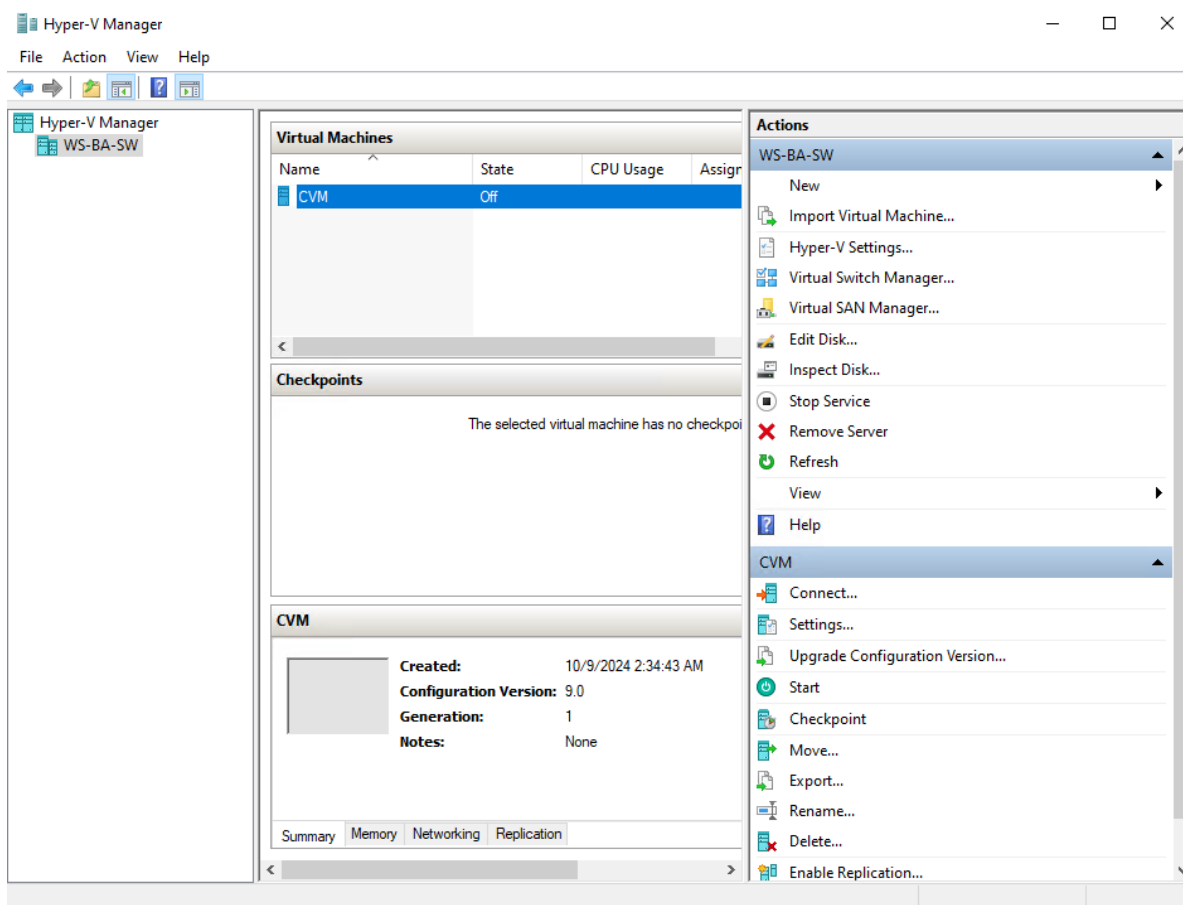
11. The replication network is not required for Virtual Backup Appliance. Leave the Connection as "Not Connected". Click Next.



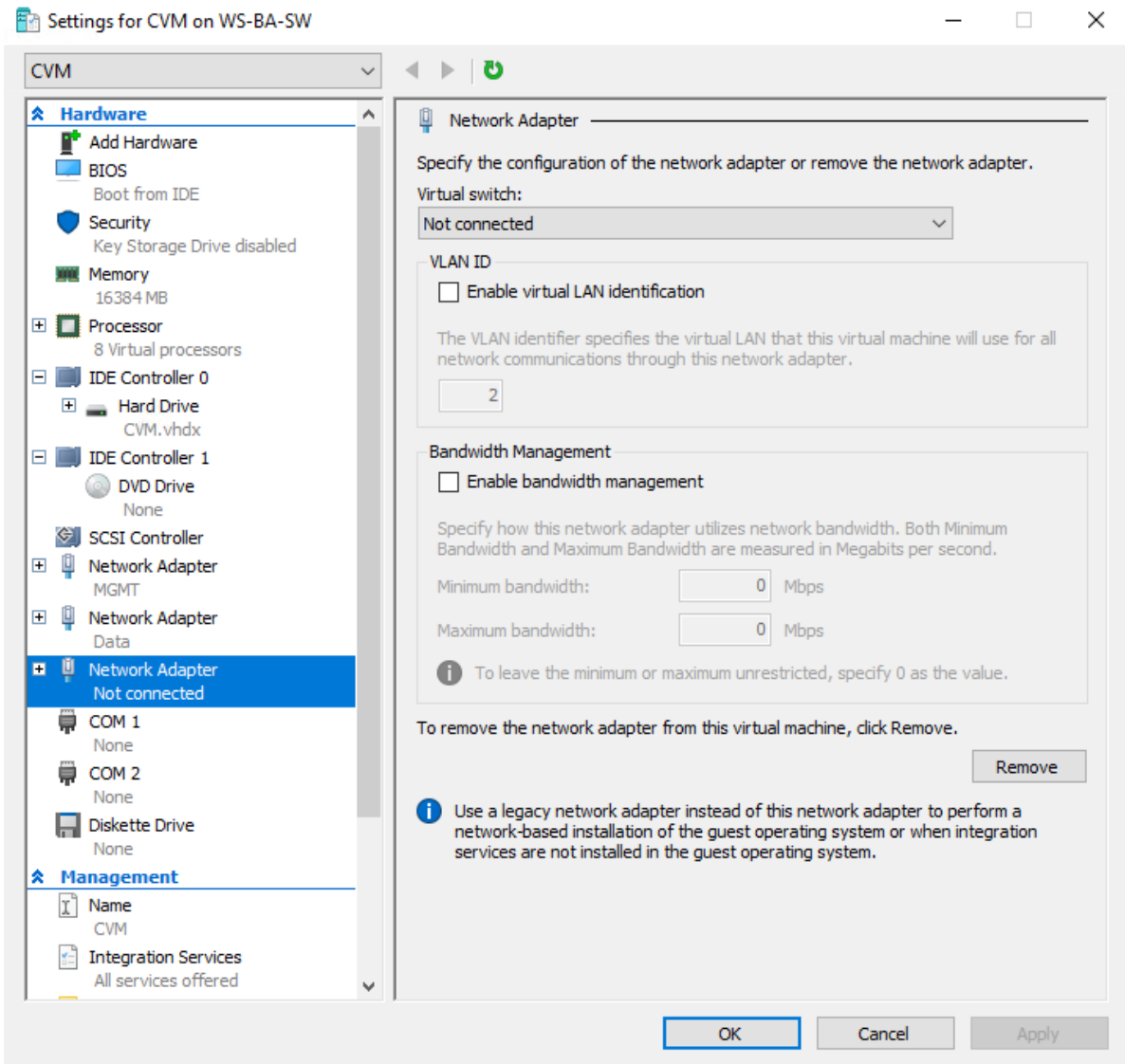
12. Review the import configuration summary and click Finish to complete the import.



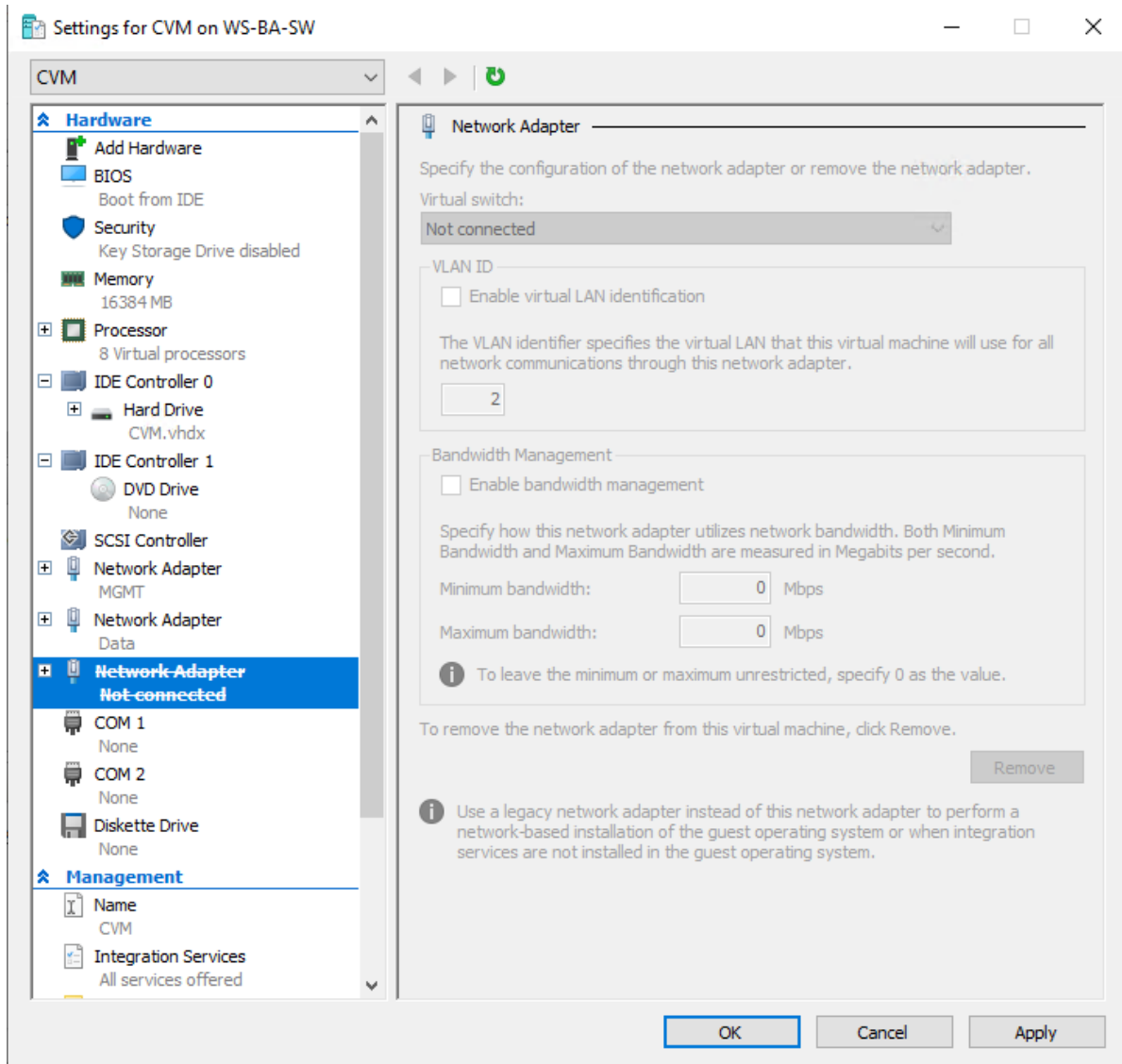
13. Once the import is complete, navigate to Hyper-V Manager, select the recently imported StarWind VBA CVM and click “Settings...”.



14. Select the Network adapter (Replication) that is in the “Not connected” state and click Remove.



15. After this, Click Apply. Then click OK.



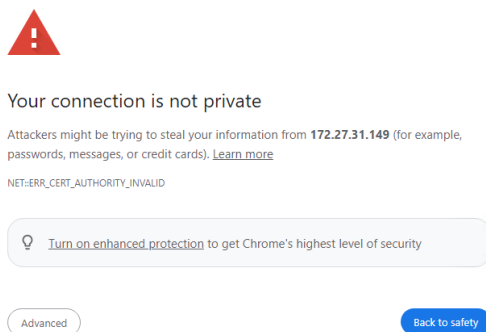
## Initial Configuration Wizard

1. Start StarWind Virtual Backup Appliance CVM.
2. Launch VM console to see the VM boot process and get the IPv4 address of the Management network interface.

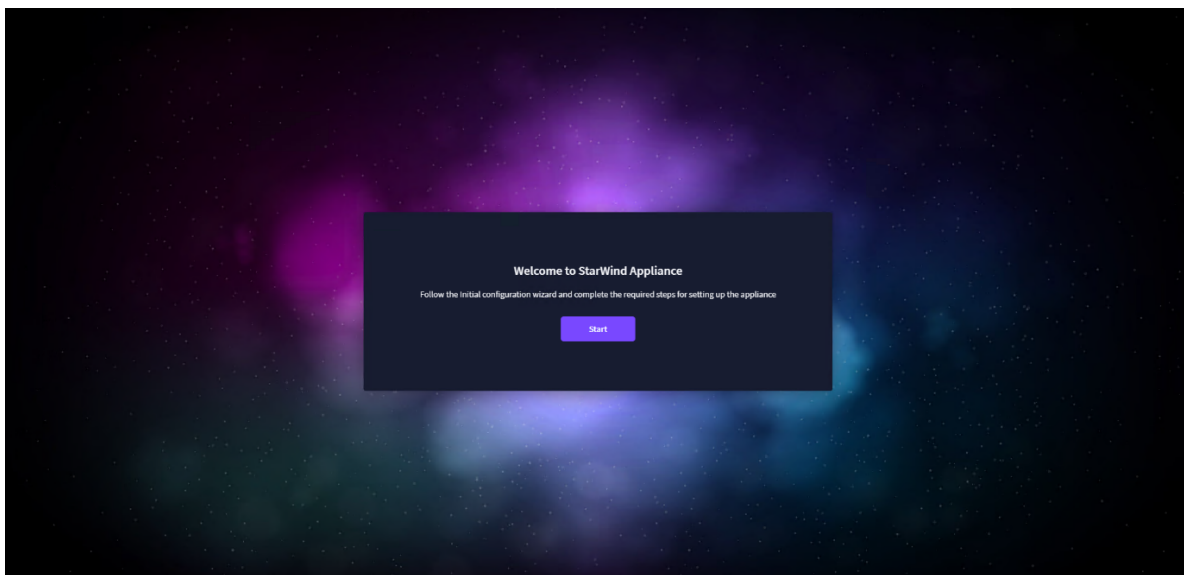
NOTE: in case VM has no IPv4 address obtained from a DHCP server, use the Text-based User Interface (TUI) to set up a Management network.

Default credentials for TUI: user/rds123RDS

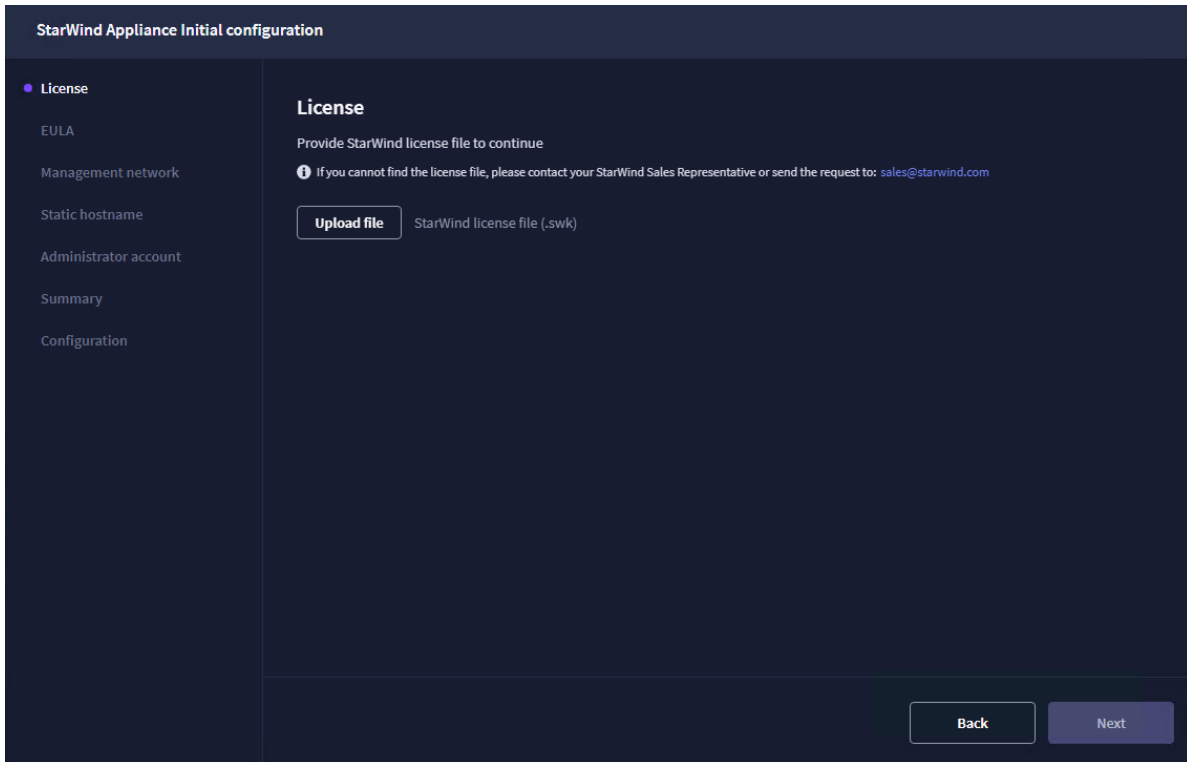
3. Using the web browser, open a new tab and enter the VM IPv4 address to open StarWind VBA Web Interface. Click “Advanced” and then “Continue to...”



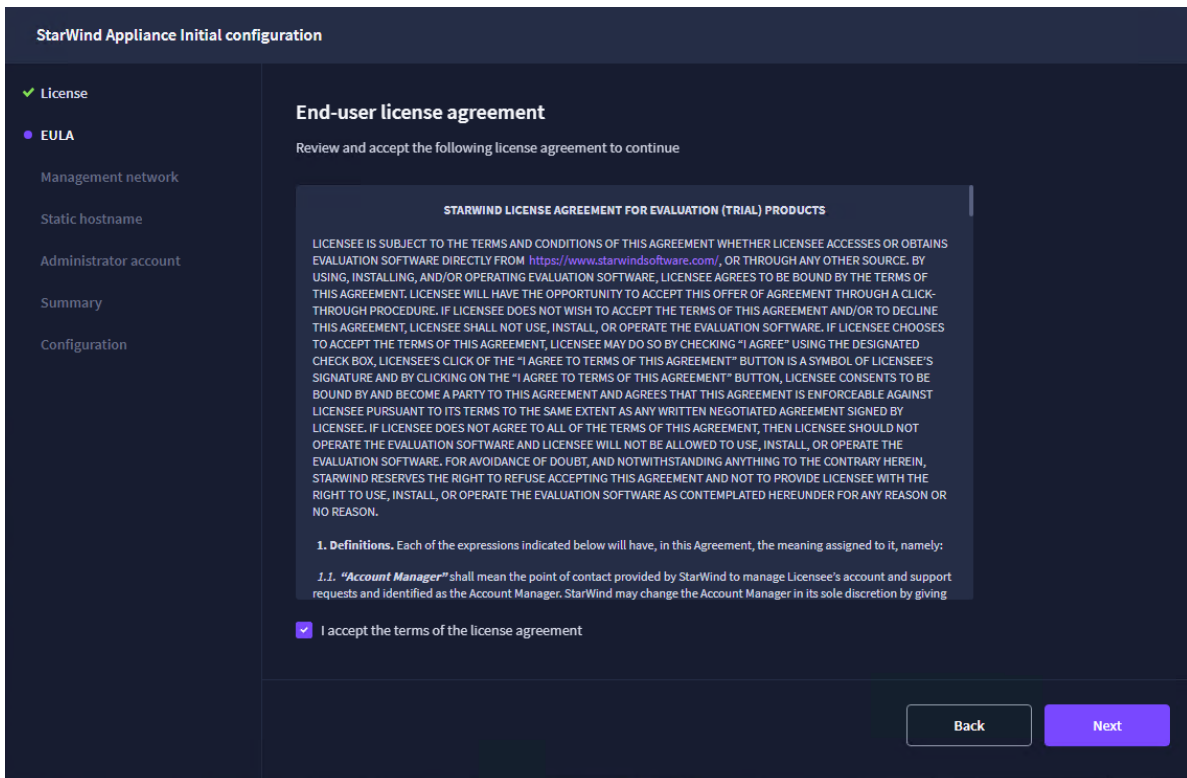
4. StarWind VBA web UI welcomes you, and the “Initial Configuration” wizard will guide you through the deployment process.



5. In the following step, upload the license file.



6. Read and accept the End User License Agreement to proceed.



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

NOTE: Static network settings are recommended for the configuration.

The screenshot shows the 'StarWind Appliance Initial configuration' interface. On the left is a navigation menu with options: License (checked), EULA (checked), Management network (selected), Static hostname, Administrator account, Summary, and Configuration. The main area is titled 'Management network' and includes instructions to specify a unique IP address. A table lists network details for the 'enp7s18' NIC. Below the table are optional settings for name servers and time settings.

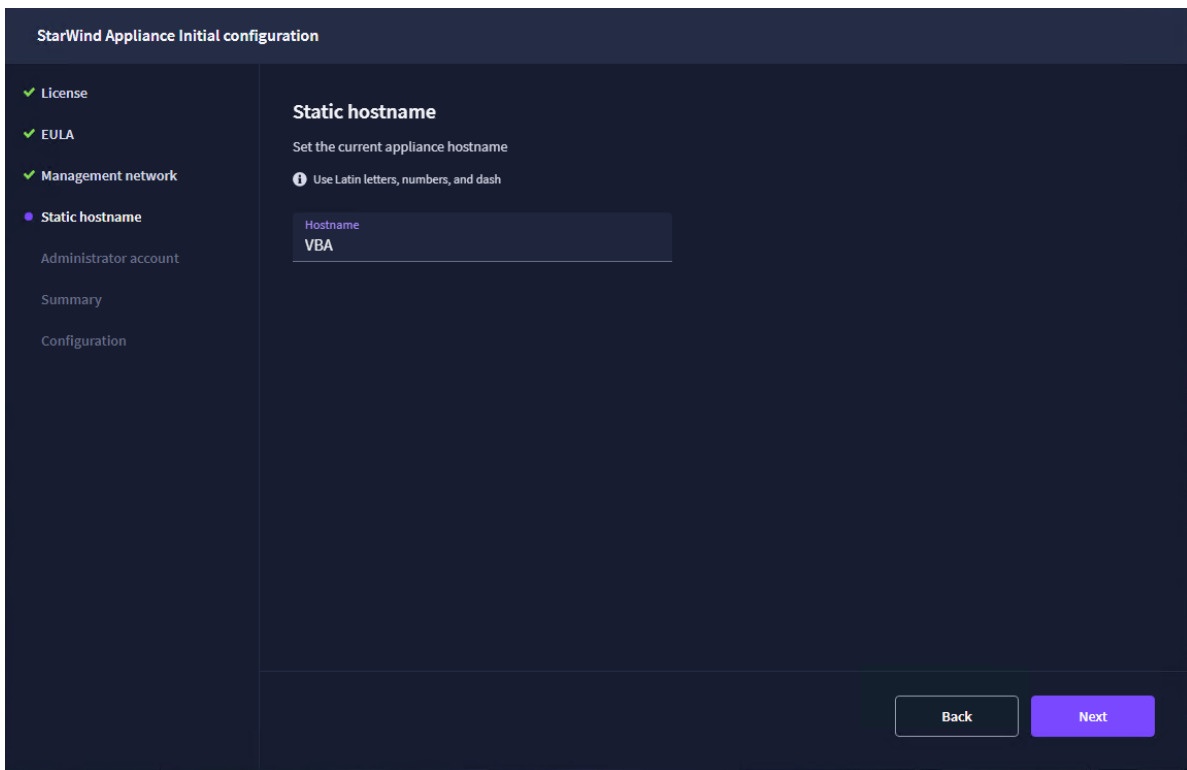
NIC	Adapter model	Bandwidth	MAC address	IP address	Netmask	Gateway
enp7s18	VirtIO Ethernet Co...	10 Gbit	BC:24:11:69:9...	172.27.31.64	255.255.255.0	172.27.31.10

**Name servers (optional):**  
 DNS 1: 172.27.31.1  
 DNS 2: 8.8.8.8

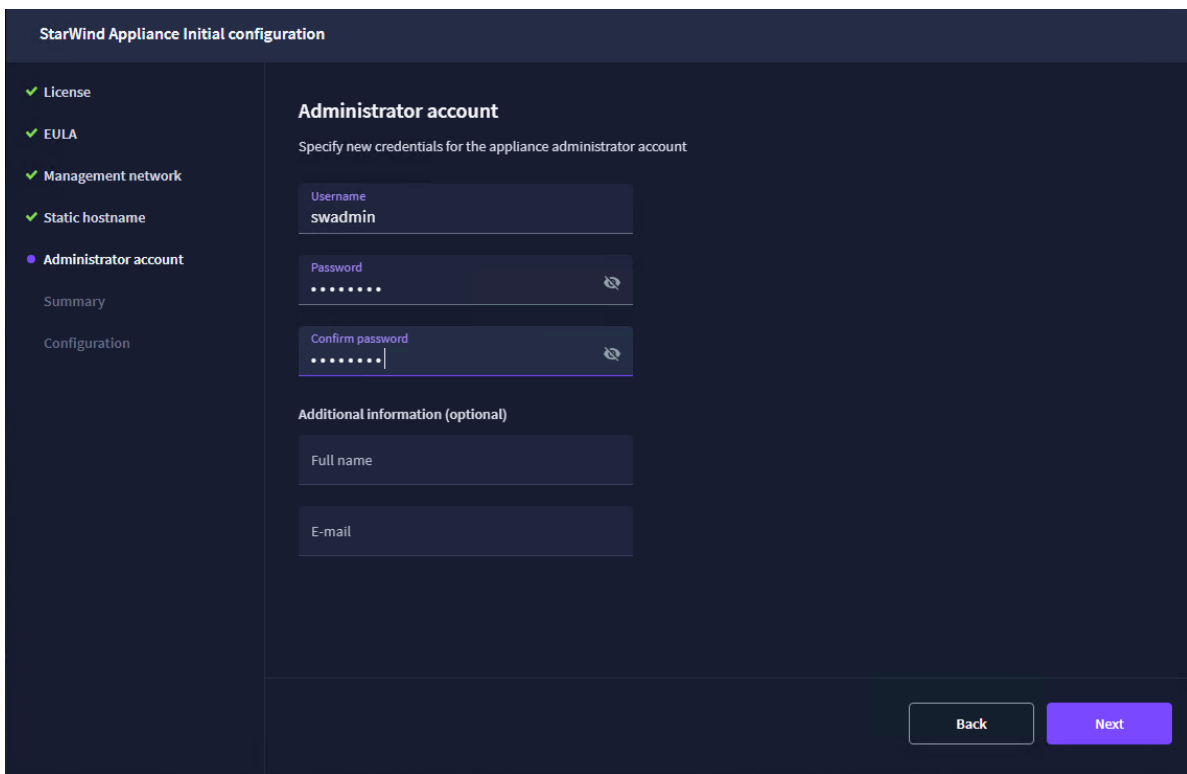
**Time settings (optional):**  
 NTP server: [empty]  
 Time zone: UTC

Buttons: Back, Next

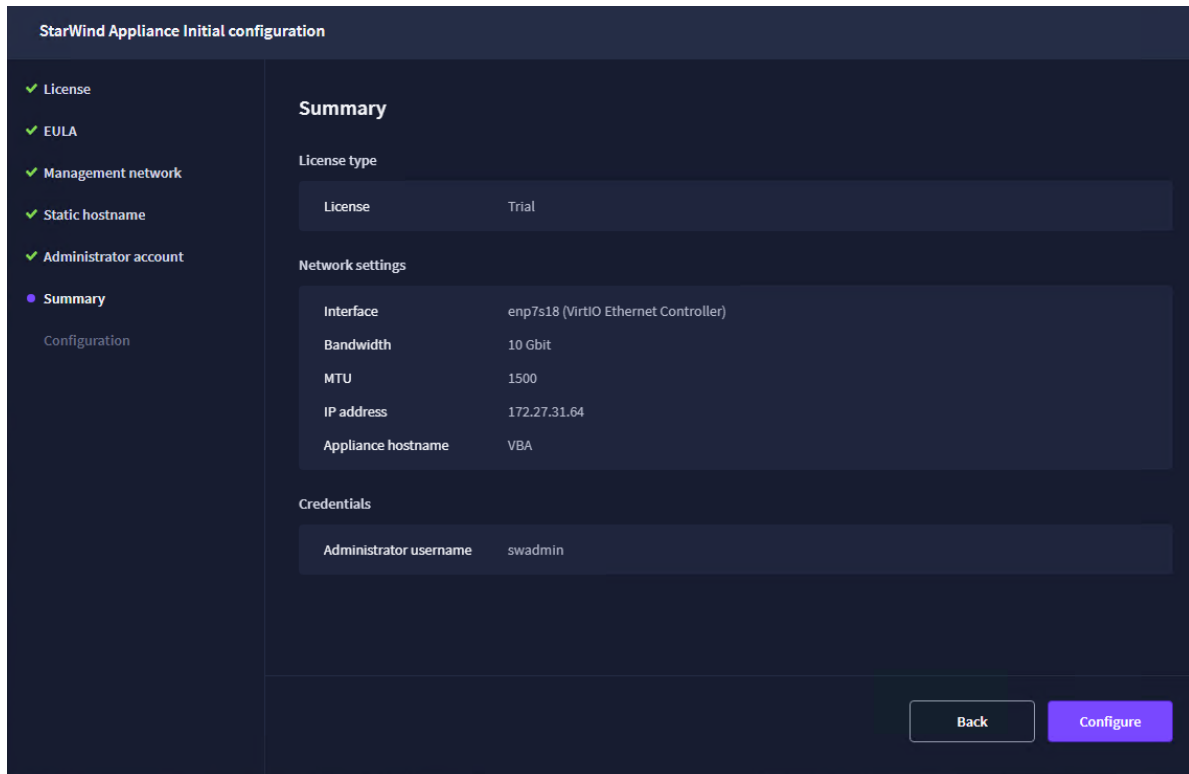
8. Specify the hostname for the virtual machine and click Next.



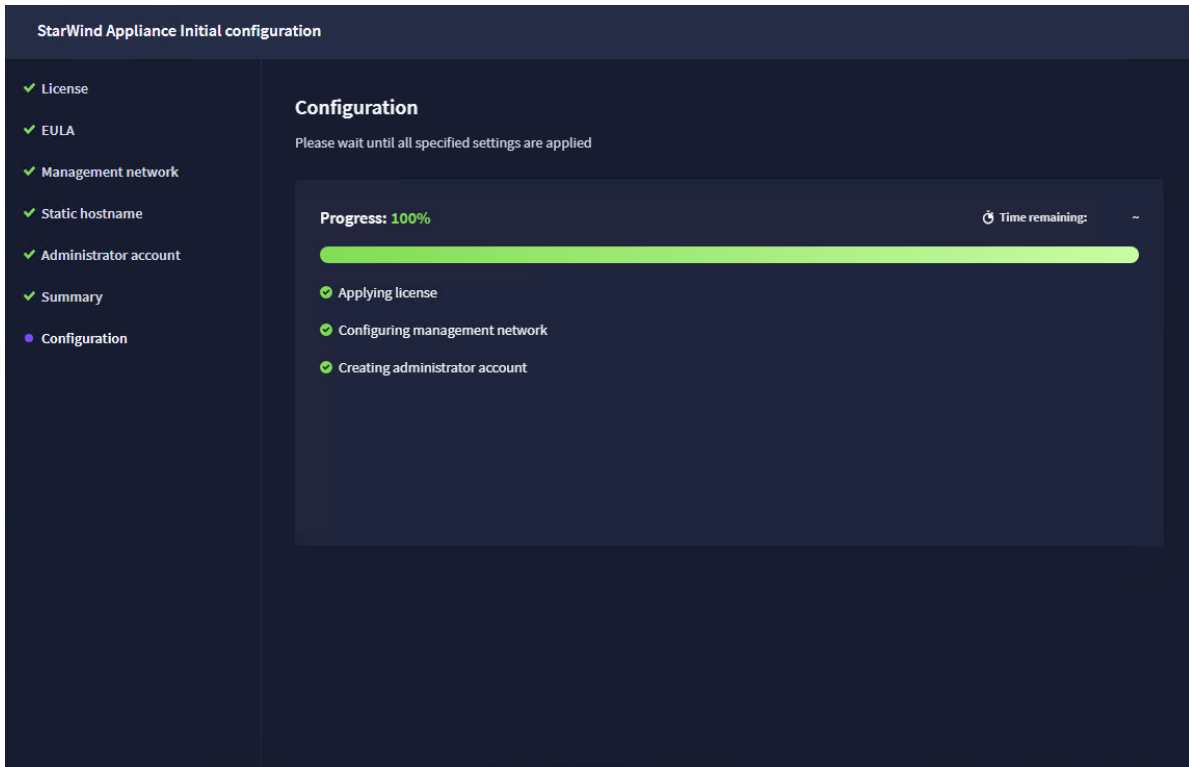
9. Create an administrator account. Click Next.



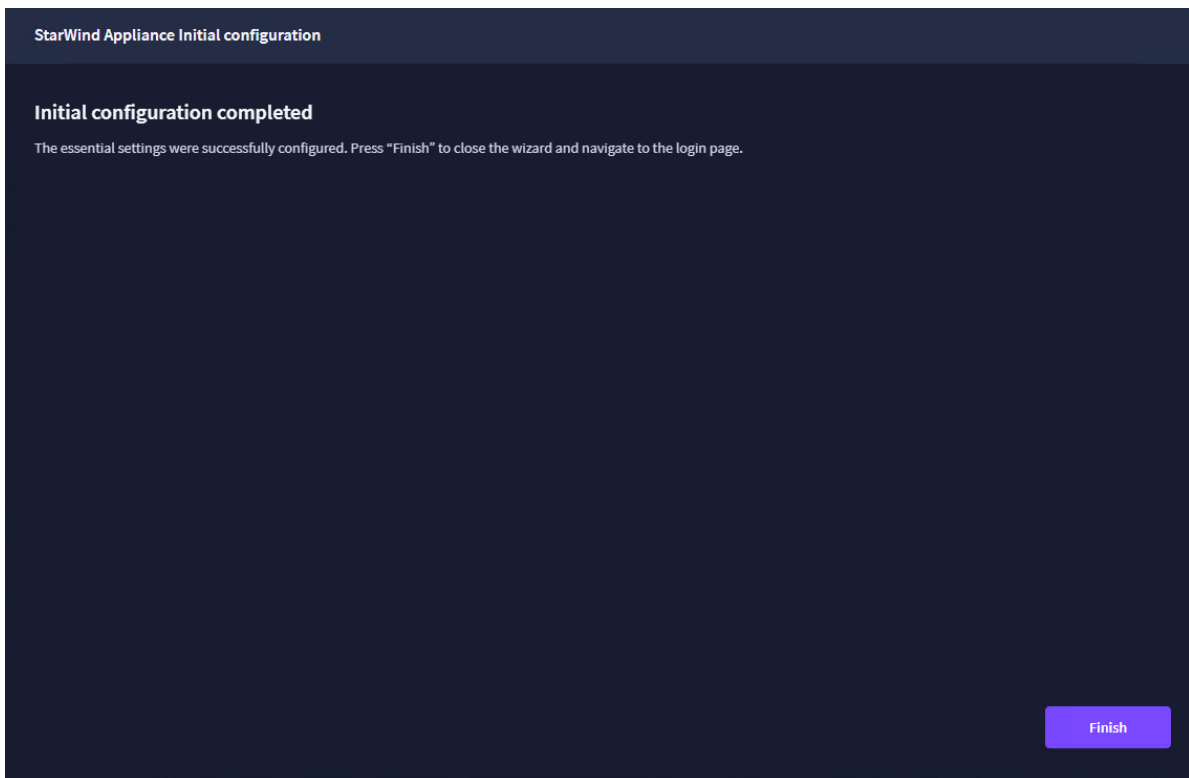
10. Review your settings selection before setting up StarWind VBA.



11. Please standby until the Initial Configuration Wizard configures StarWind VBA for you.

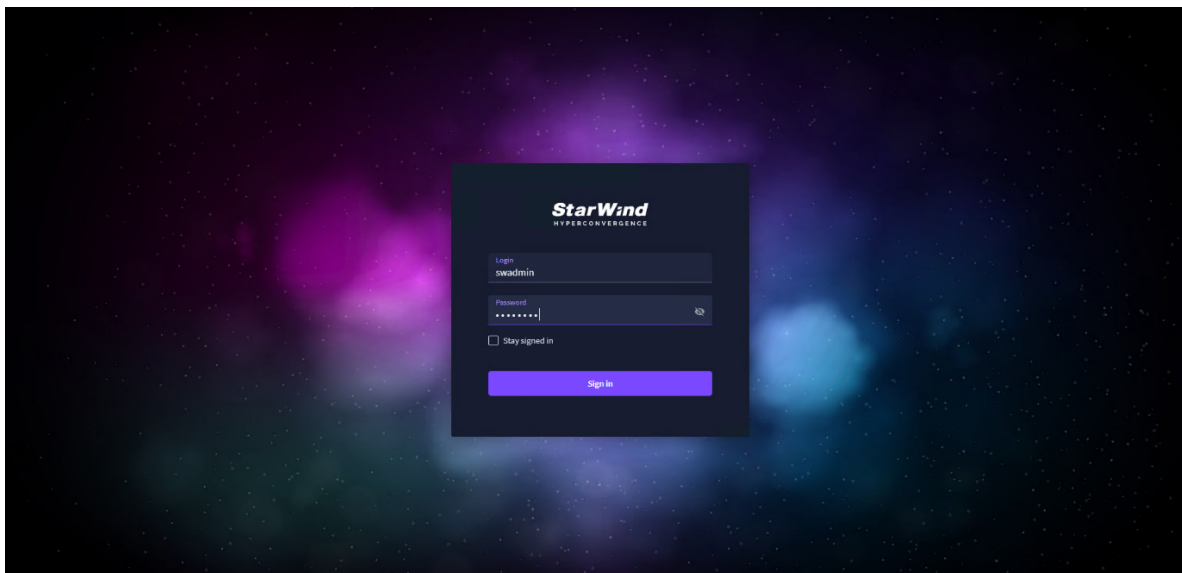


12. The appliance is set and ready. Click Finish to proceed to the Login page.

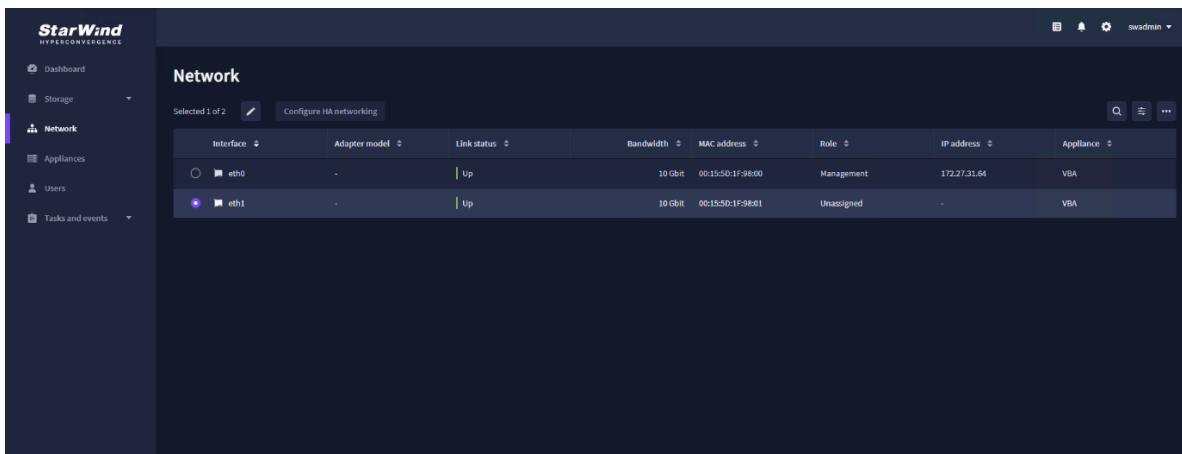


## Configure Networking

1. Log in to the CVM WEB UI 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 Data (Backup) traffic, and click the Edit icon.



3. If the network adapter status is “Down”, uncheck the “Disable network adapter” checkbox. Make sure that the “Connect automatically on boot” checkbox is enabled and MTU is set 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: eth1      Adapter model: [empty]

Role: **Data**      IP mode: **Static**

IPv4 address: **172.16.30.10**      Netmask: **255.255.255.0**  
e.g. 192.168.100.100      e.g. 255.255.255.0 or CIDR notation (e.g. 24)

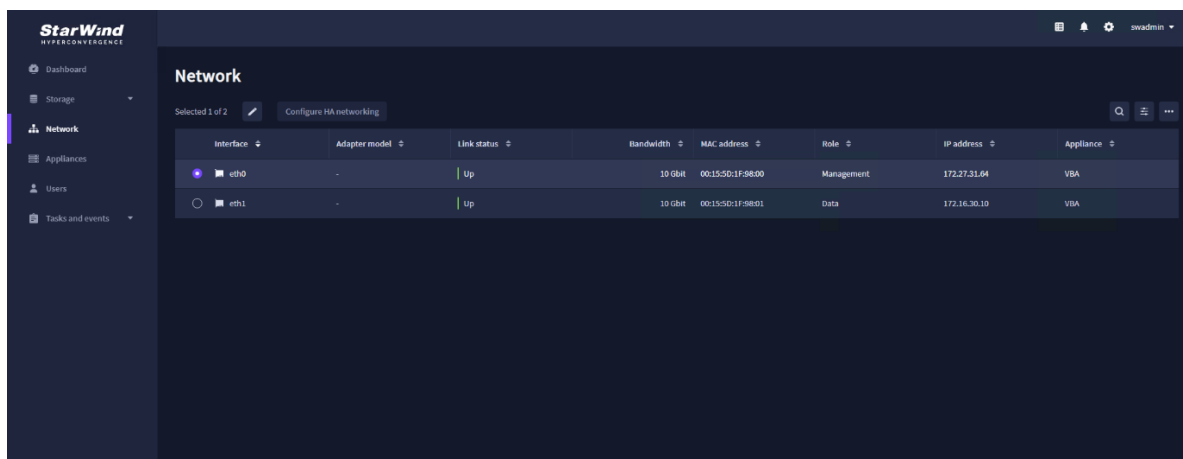
Gateway: [empty]      DNS: [empty]  
e.g. 192.168.100.1 or leave the settings empty      Separate IP addresses with commas (,) or leave the settings empty

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

Disable network adapter  
 Connect automatically on boot

[Cancel] [Save]

4. You should see the newly assigned “Data” role and IP address to the network adapter.



## Add Physical Disks

Attach physical storage to StarWind VBA Controller VM:

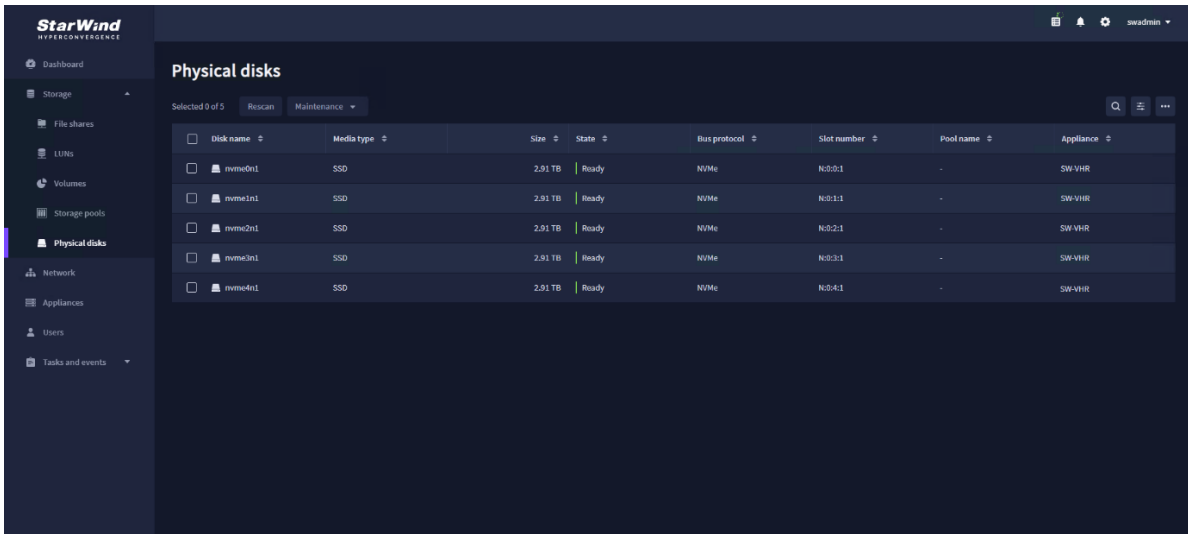
- Ensure that all physical drives are connected through an HBA or RAID controller.
- Add HBA, RAID controllers, or NVMe SSD drives to StarWind CVM via a passthrough device or add a virtual disk.

Learn more about storage provisioning guidelines in the [KB article](#).

NOTE. In this guide, NVMe drives are passed through to StarWind VBA CVM as an example.

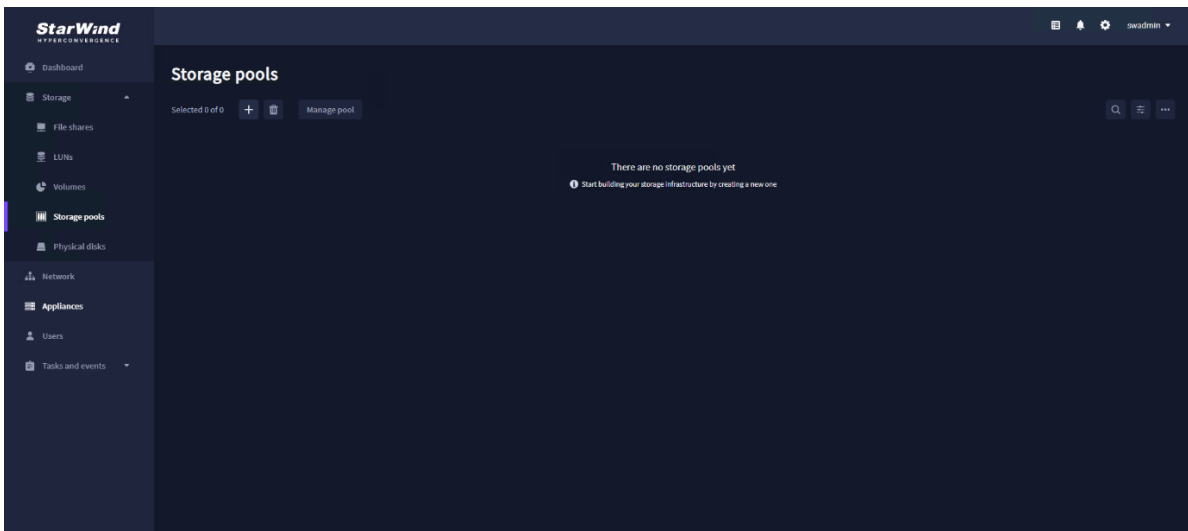
## Create Storage Pool

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

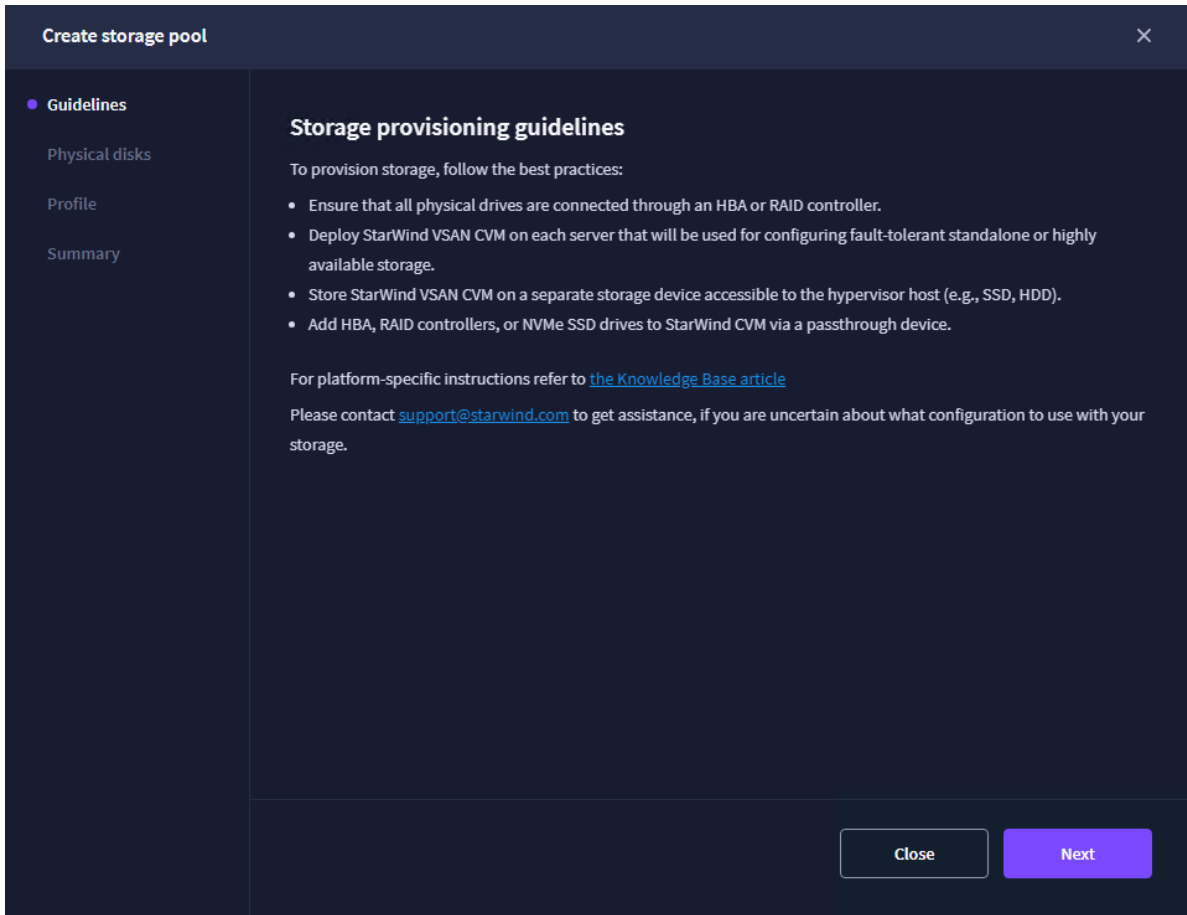


NOTE: StarWind x Veeam Hardened Backup Repository can use storage from a hardware RAID or create a Linux Software RAID or ZFS storage pools from the drives connected to an HBA controller. This guide uses Linux Software RAID as an example.

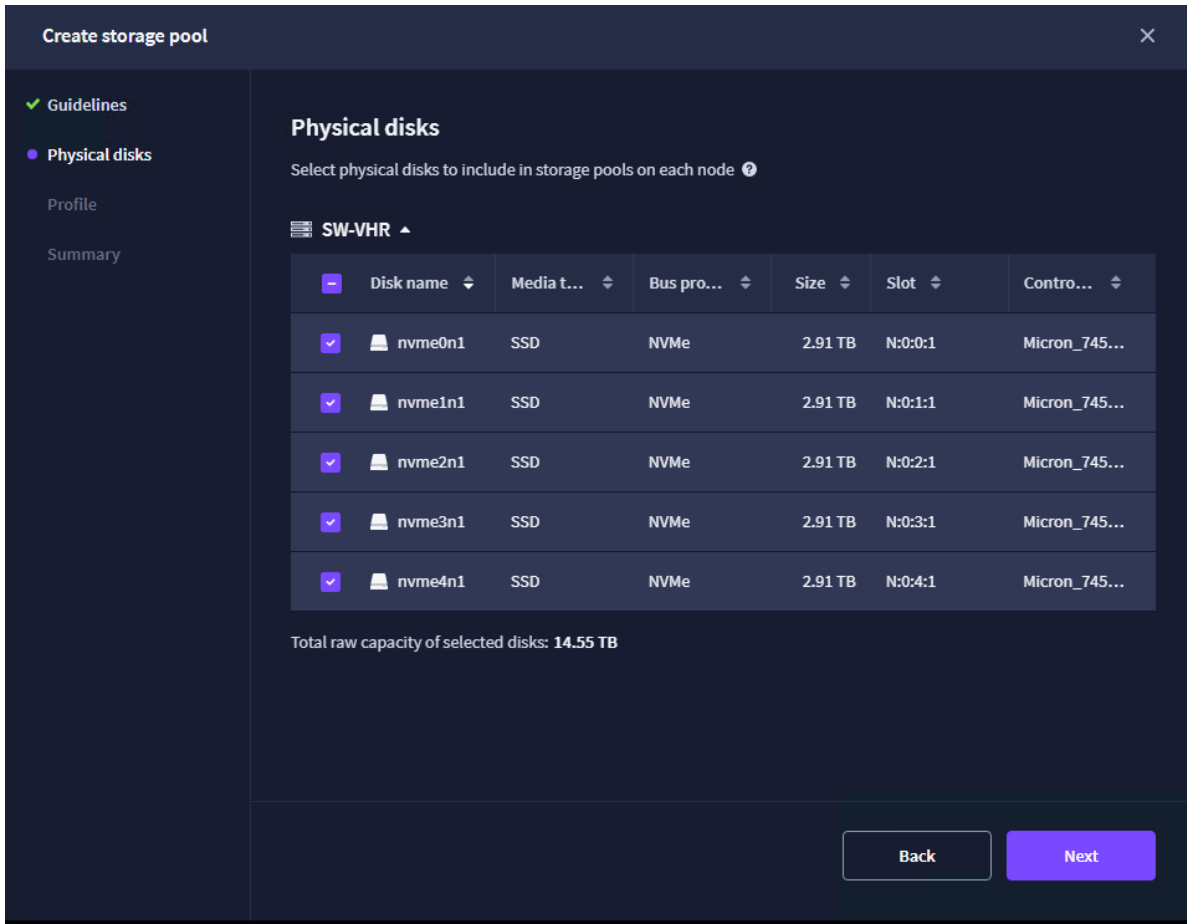
2. In the Storage tab, navigate to the Storage pools and click the “+” sign.



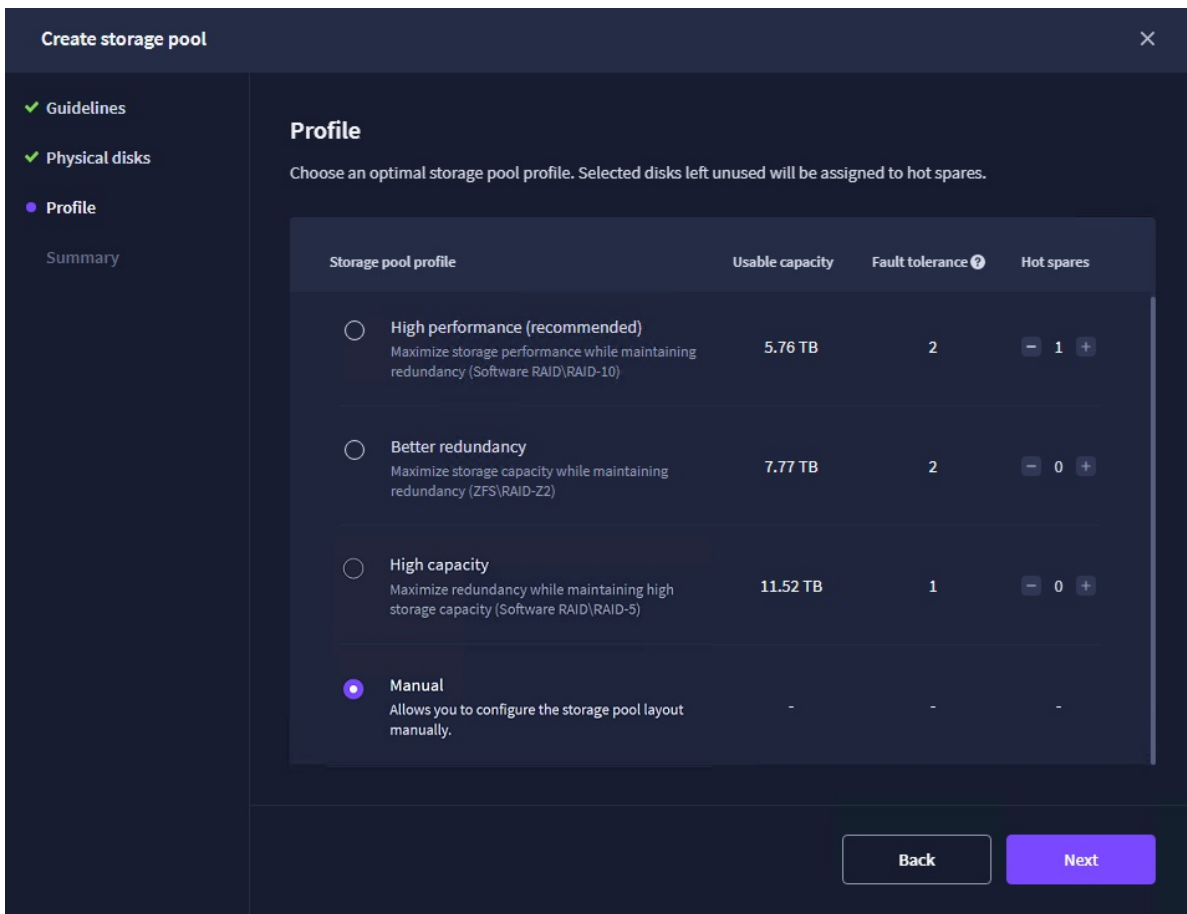
3. Verify the prerequisites and click Next.



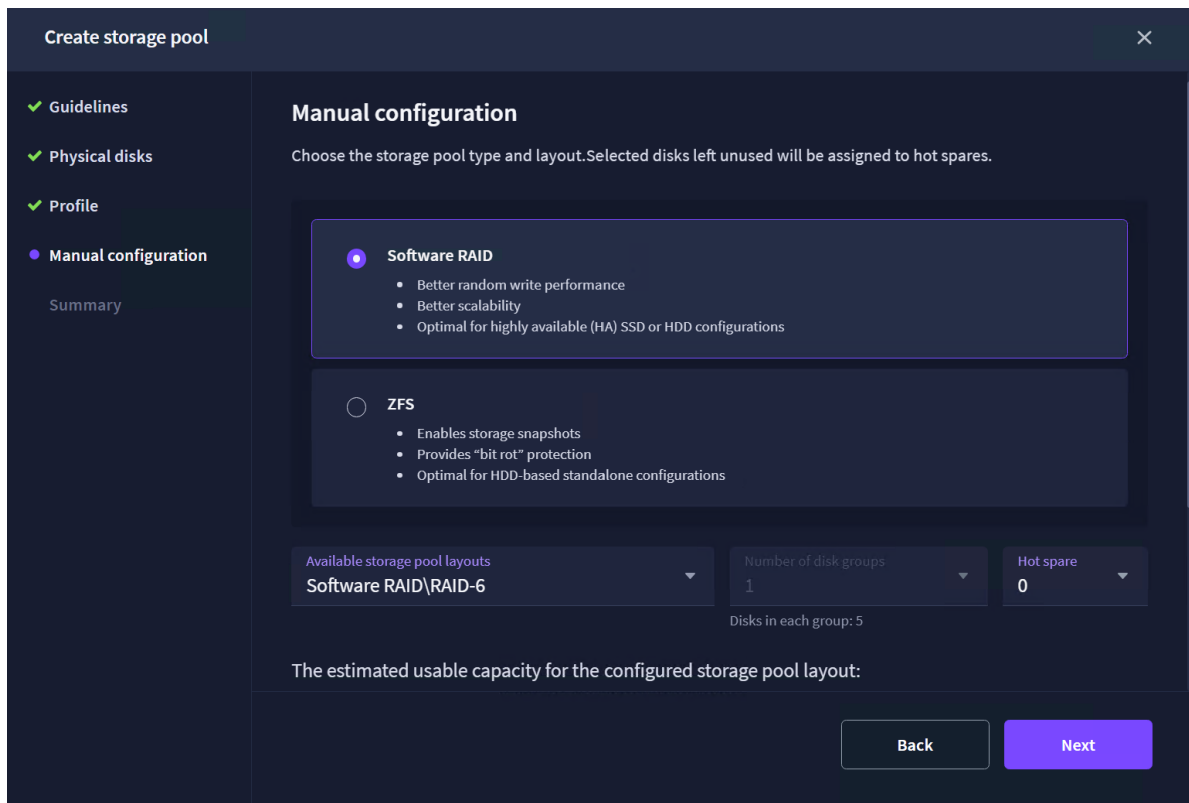
4. Select the drives to create a Linux Software RAID and click Next.



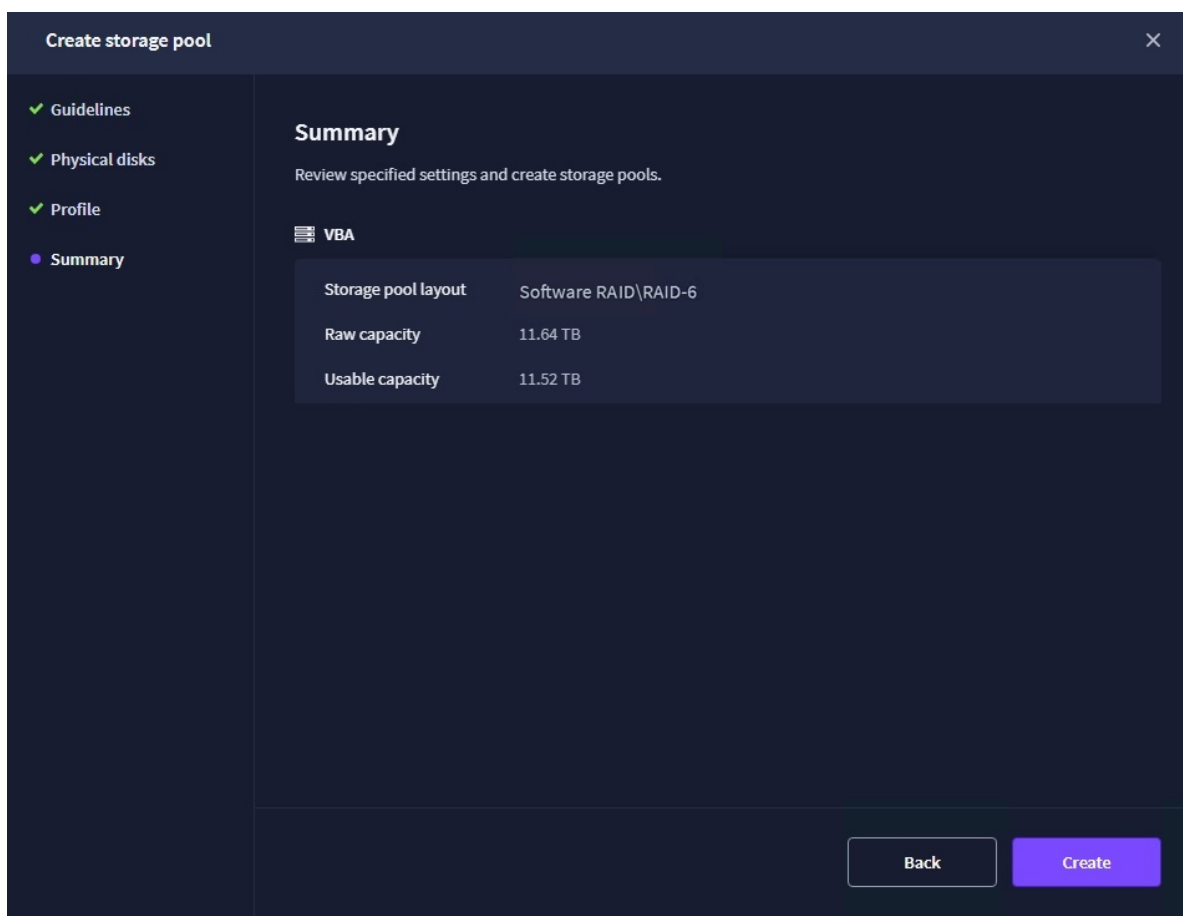
5. Select one of the preconfigured storage profiles or create a redundancy layout for the new storage pool manually according to your redundancy, capacity, and performance requirements. Software RAID-6 is highly recommended. To configure it, select Manual and click Next.



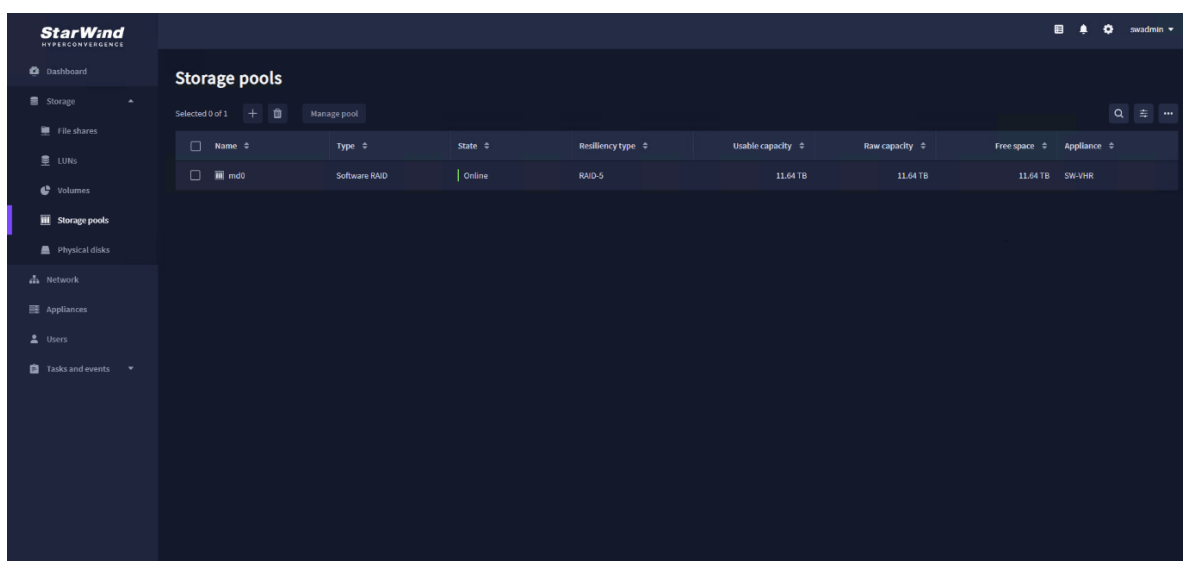
6. Select Software RAID and then select Software RAID\RAID-6 from the Available storage pool layouts. Click Next.



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.



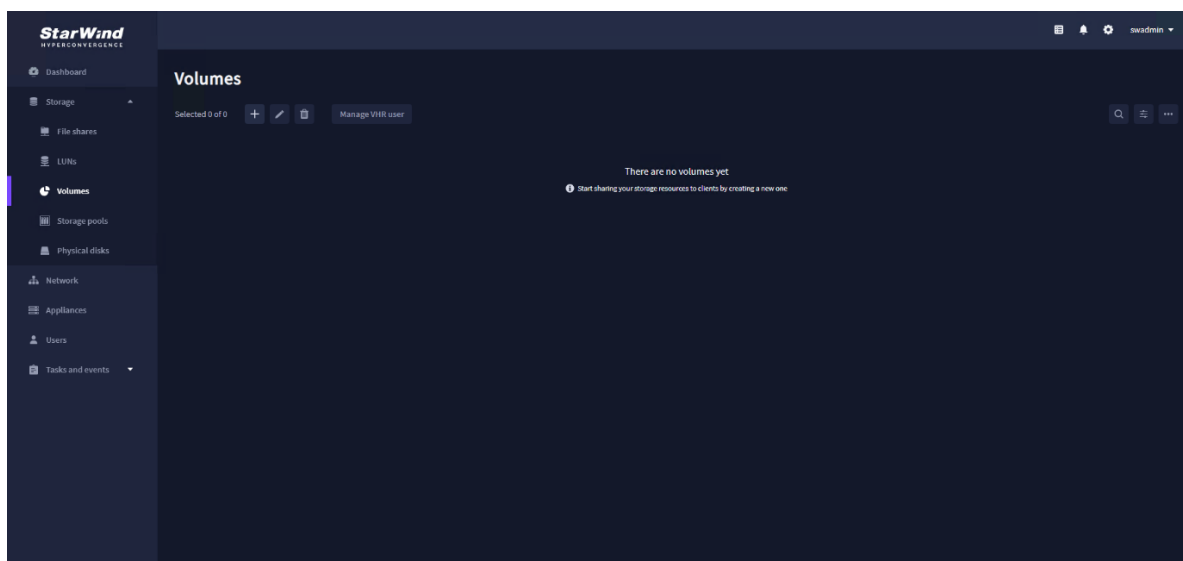
## Create Backup Repository

There are multiple options to present storage from StarWind VBA to backup software for use as backup repository. Hardened Repository is recommended for use with Veeam Backup & Replication to ensure immutability for backup files. Otherwise, StarWind VBA can present backup repository as an iSCSI target, NFS or SMB file share.

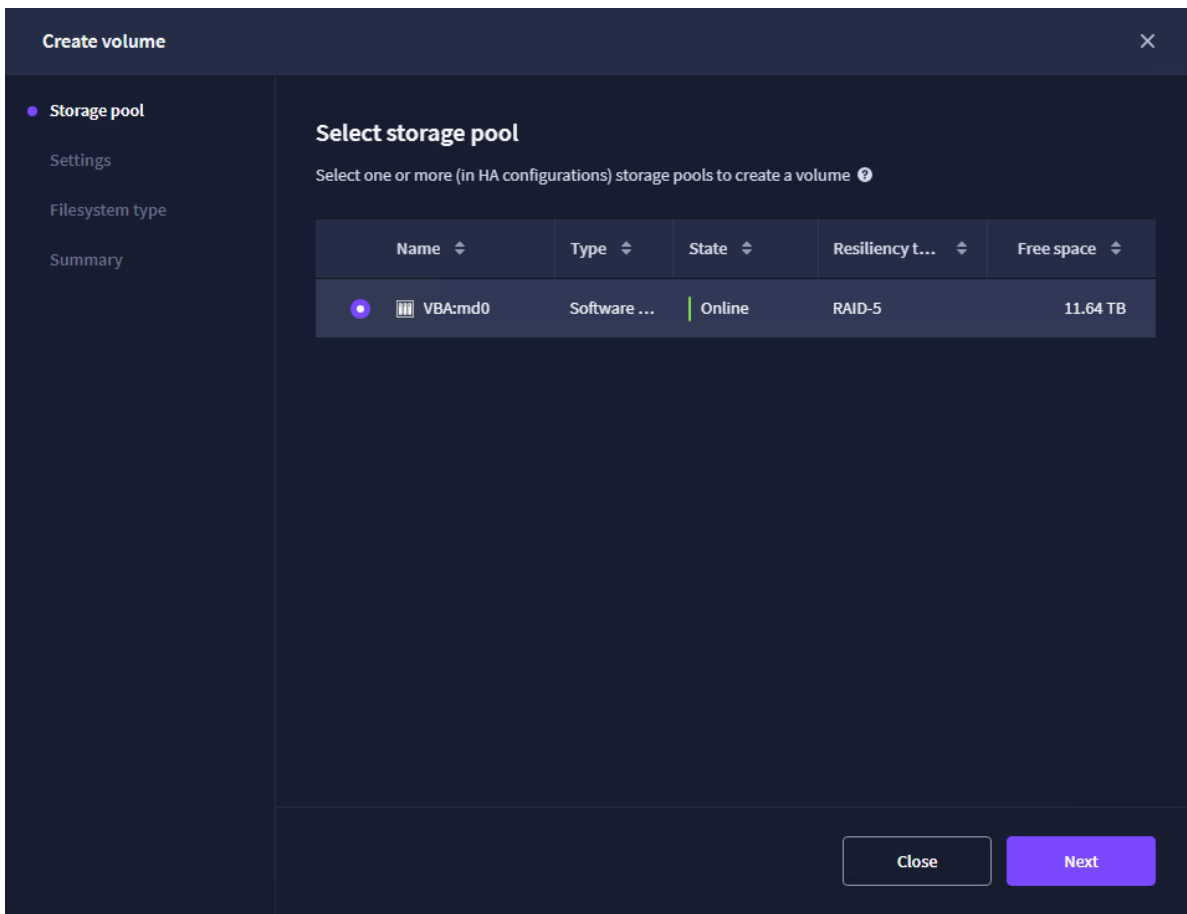
NOTE. Hardened Repository ensures immutability only when used with Veeam Backup & Replication.

## Hardened Repository For Veeam Backup & Replication

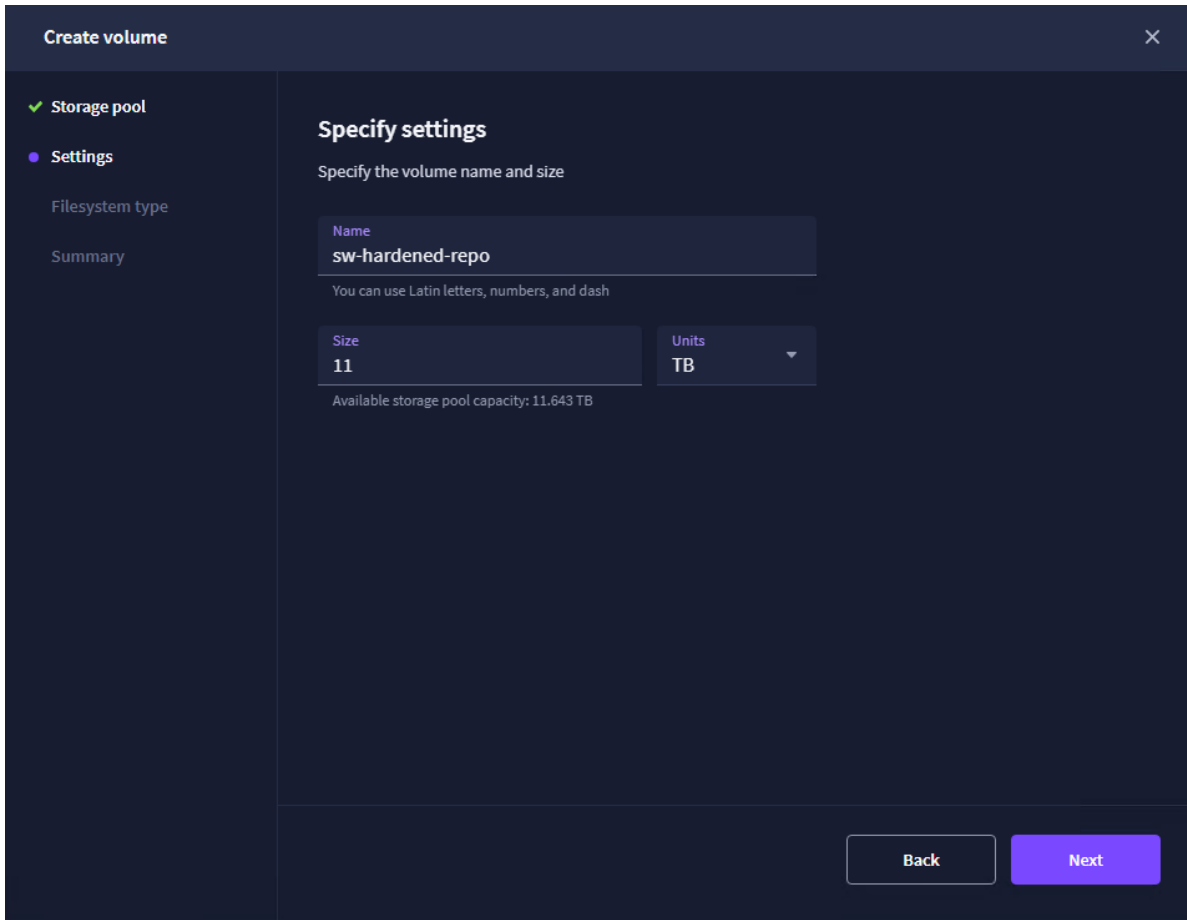
1. Navigate to the “Volumes” tab and click the “+” button to open the “Create volume” wizard.



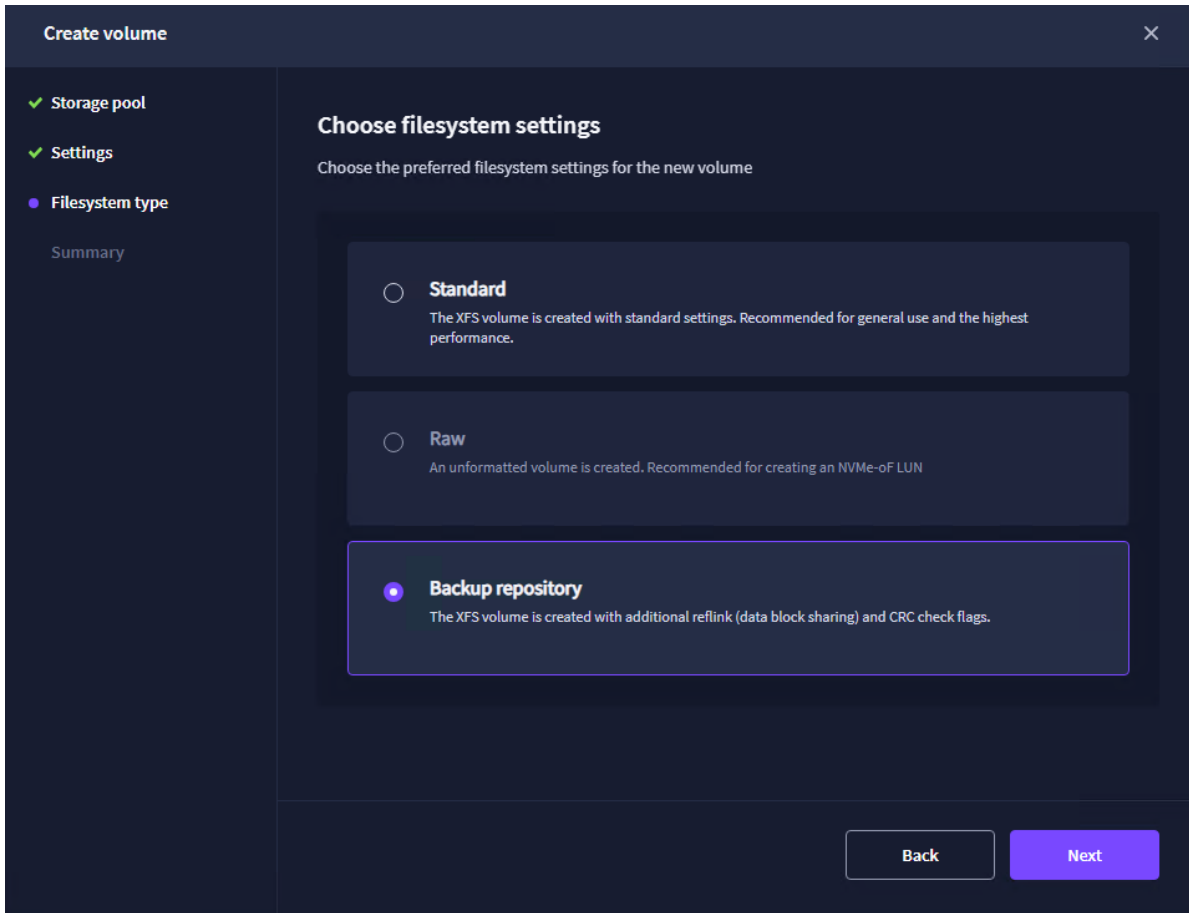
2. Select the storage pool that will be used for a new volume and click Next.



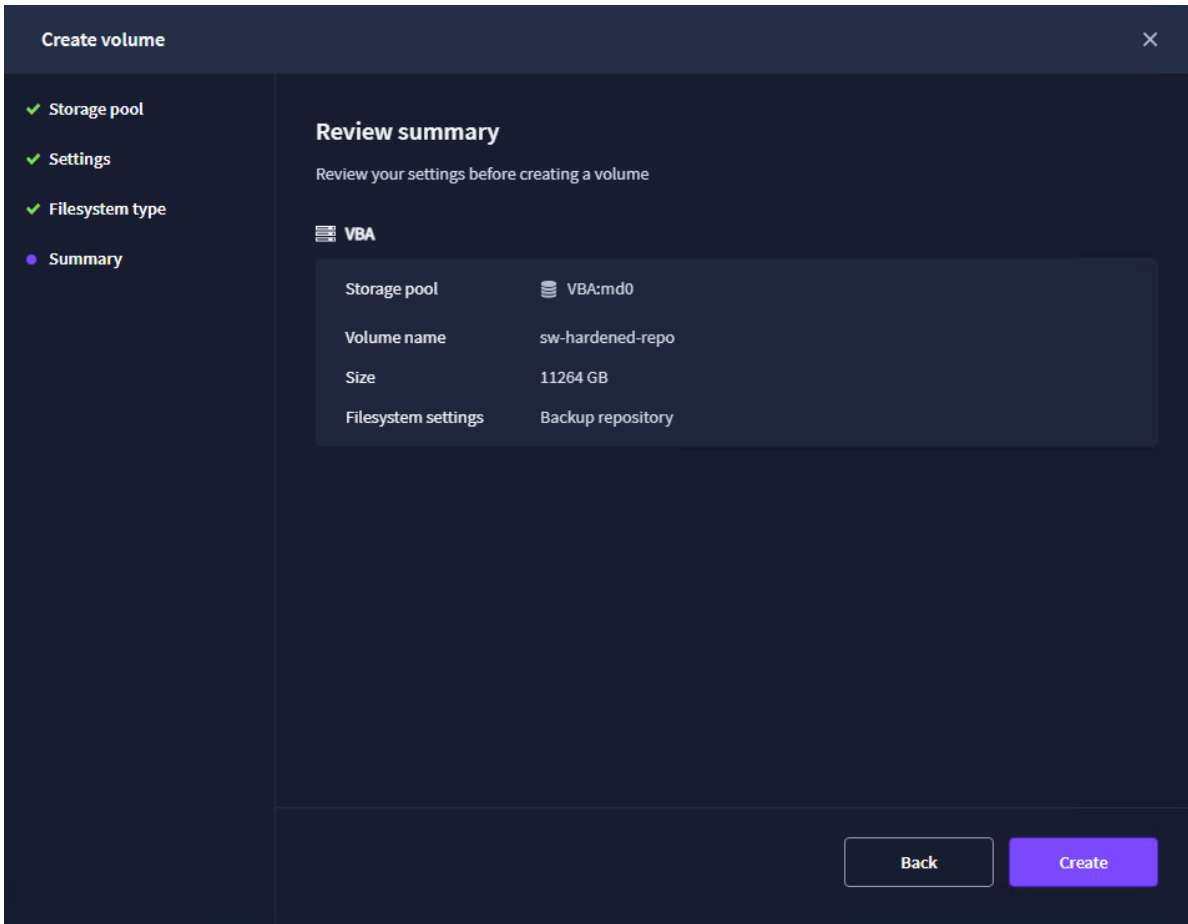
3. Specify the volume name and capacity. Click Next.



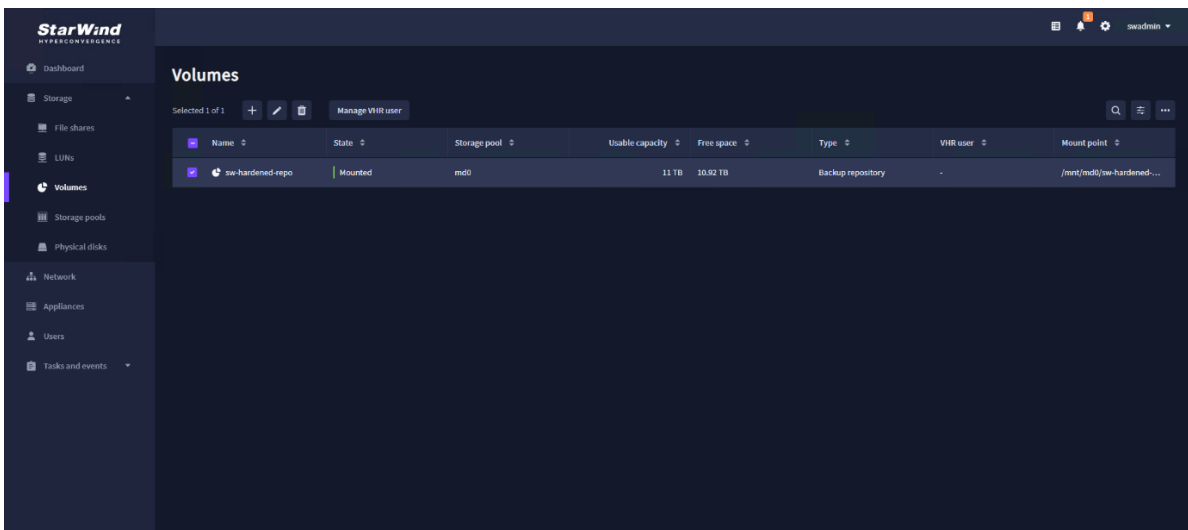
4. Select the “Backup repository” volume type and click Next. Backup repository volume type has been specifically designed for use with Veeam Backup & Replication.



5. Review Summary and click Create.

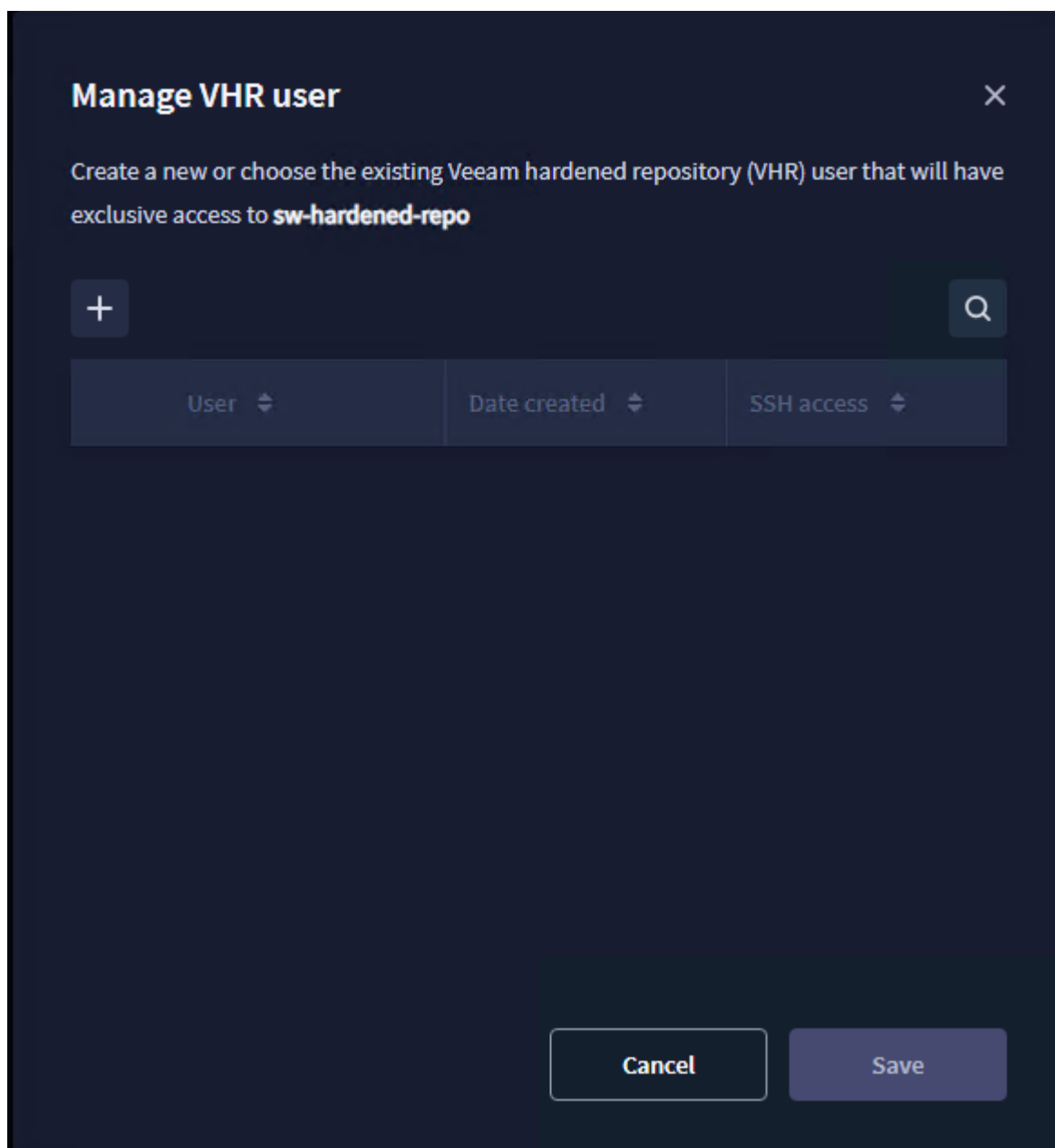


6. Select the recently created Volume and click “Manage VHR user”. This will create a dedicated Veeam Hardened Repository user with limited permissions for the selected volume.



NOTE. If Hardened Repository is not required, you can skip the further steps of creating a VHR user. The backup repository can be then added to Veeam Backup & Replication as a Direct Attached Linux storage to benefit from faster Veeam transport Service.

7. Click the “+” sign to create a new VHR user.



8. Specify the user name and password. 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

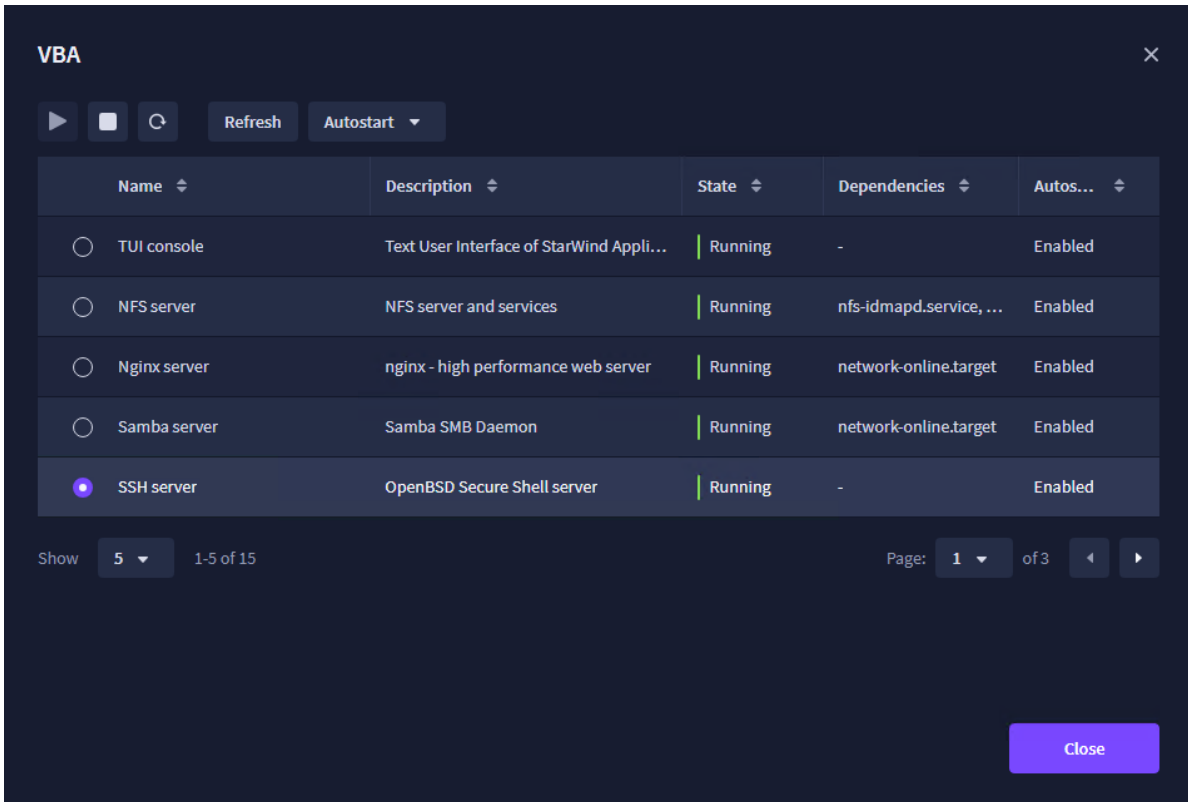
**Password**  
•••••••• ⓘ  
Must contain 8-64 characters, including numbers, symbols and capital letter

**Enable SSH for this user**

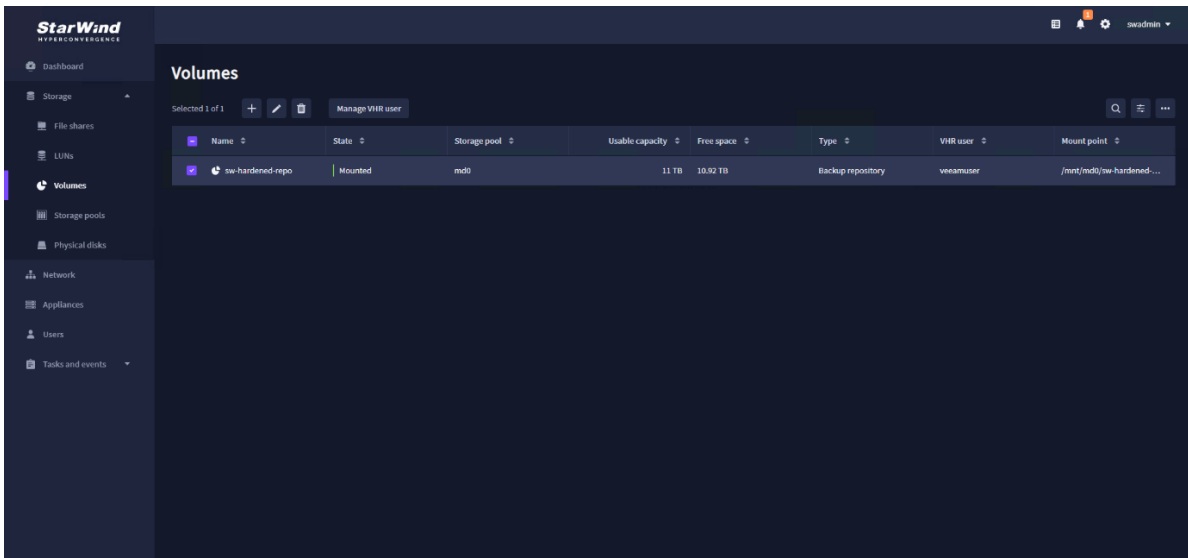
**i** Disable SSH after adding the host and creating the hardened repository in the Veeam Backup & Replication console.

**Cancel** **Save**

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

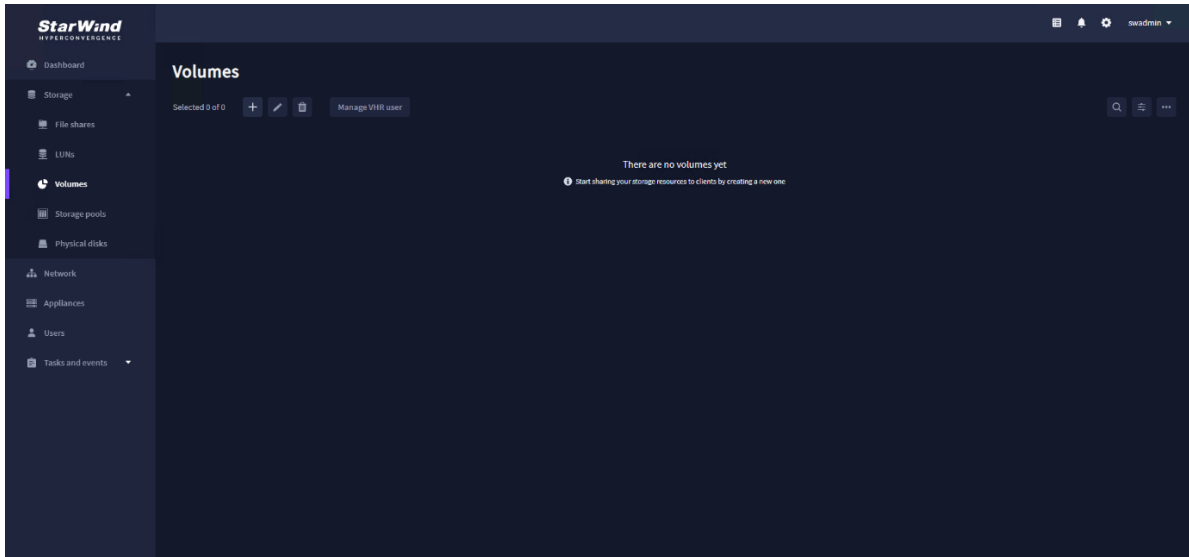


10. The recently created VHR user has been assigned to the volume.

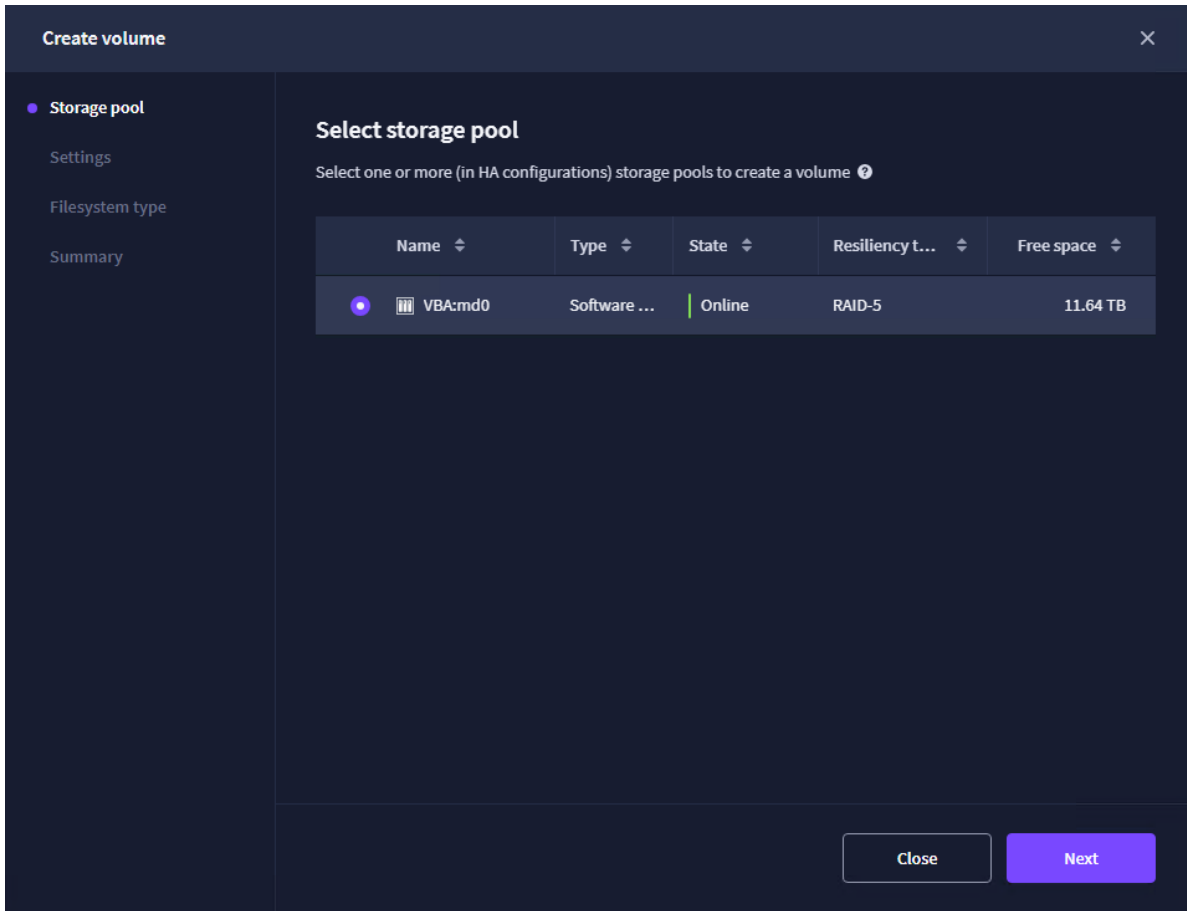


## Creating Iscsi Backup Repository

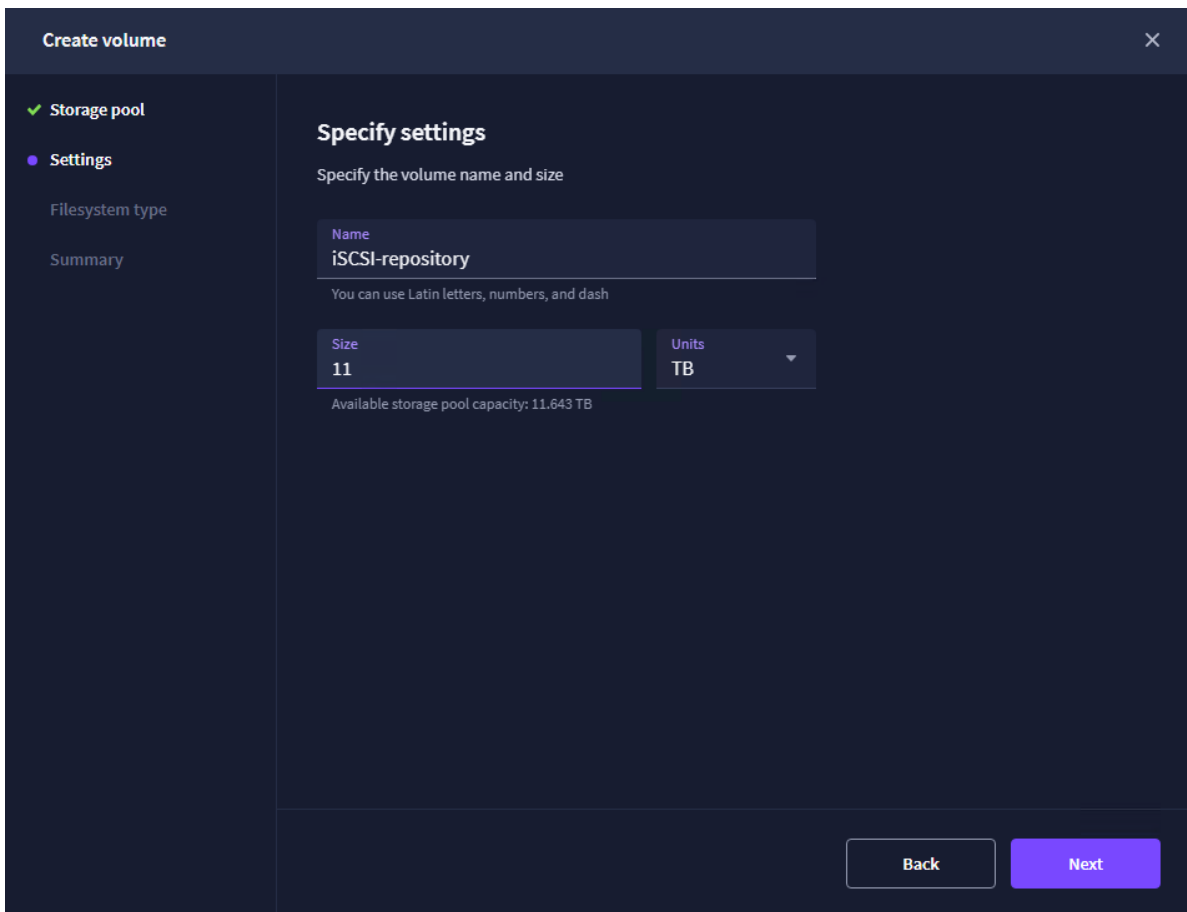
1. Navigate to the “Volumes” tab and click the “+” button to open the “Create volume” wizard.



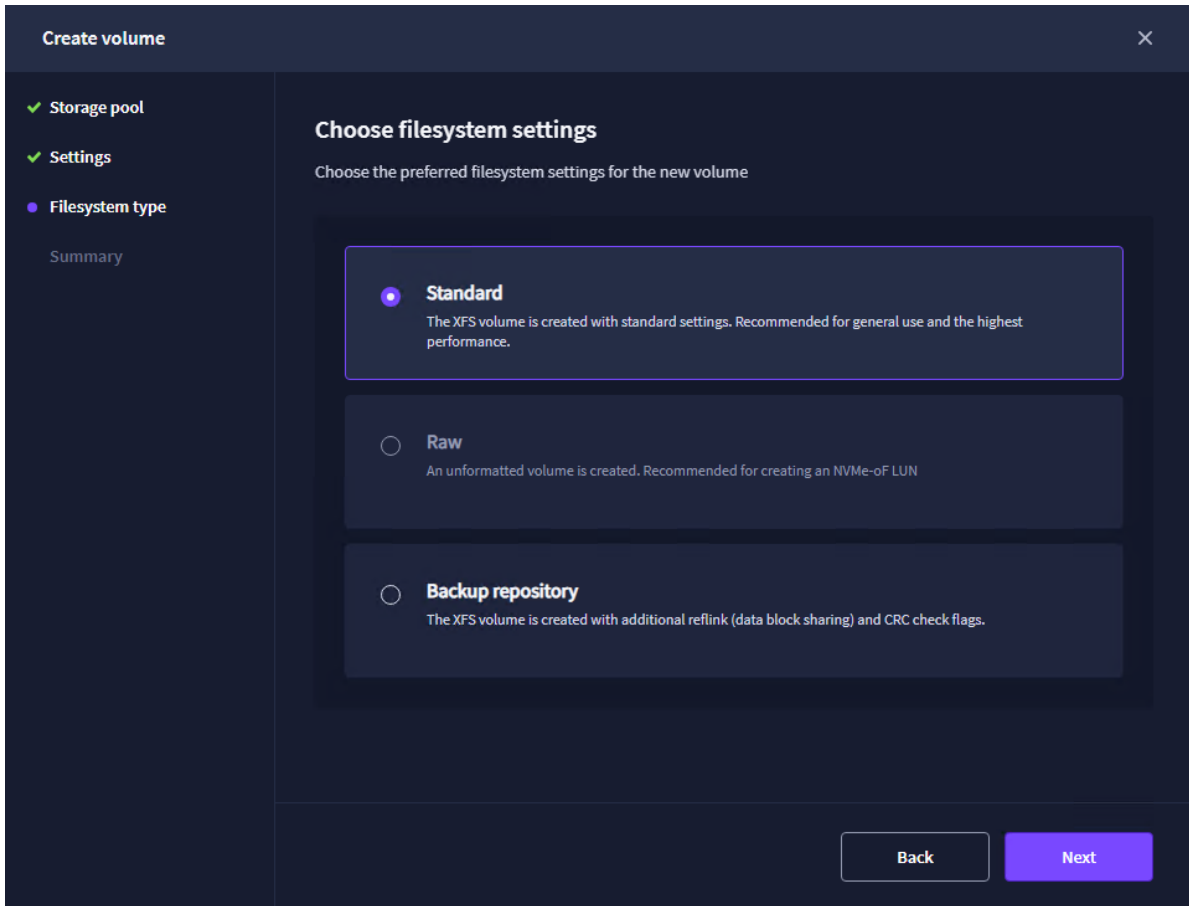
2. Select the storage pool that will be used for a new volume and click Next.



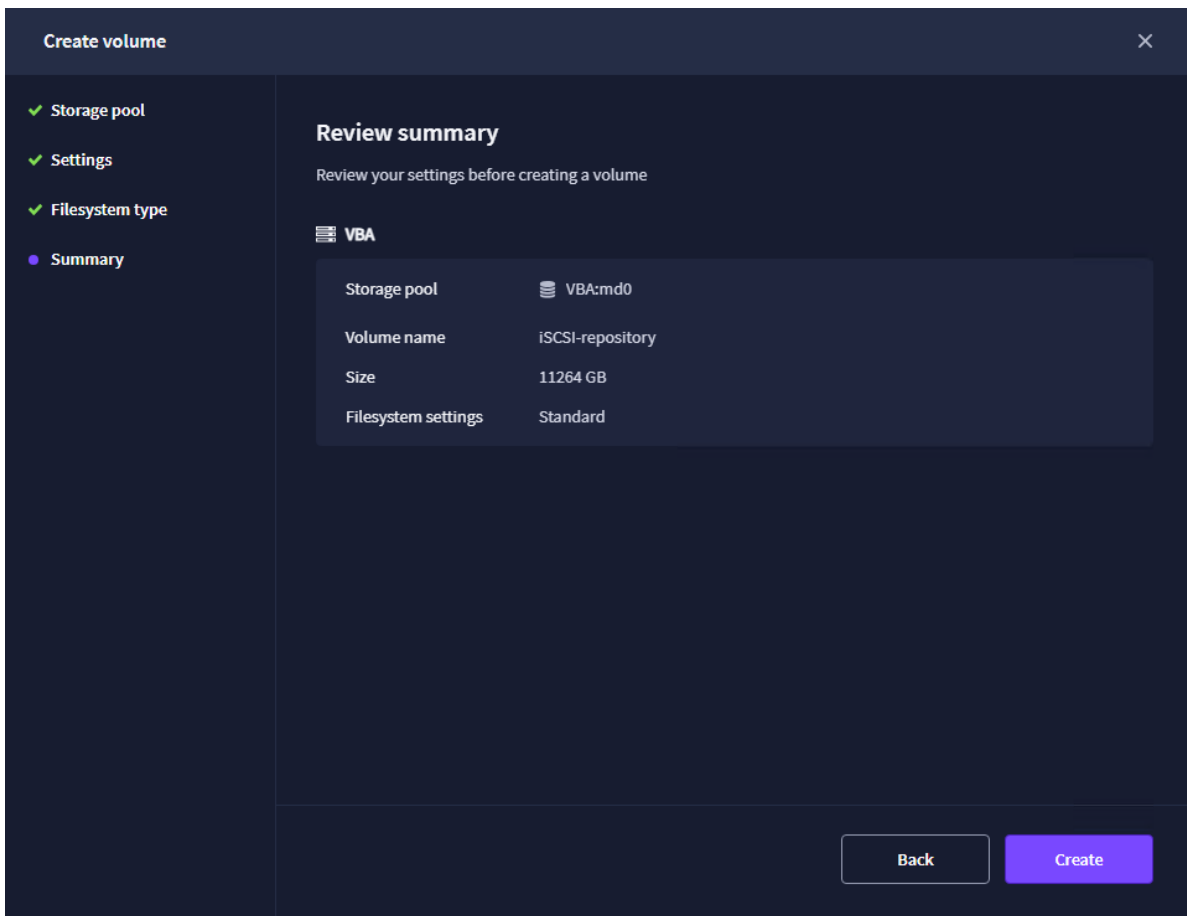
3. Specify the volume name and capacity. Click Next.



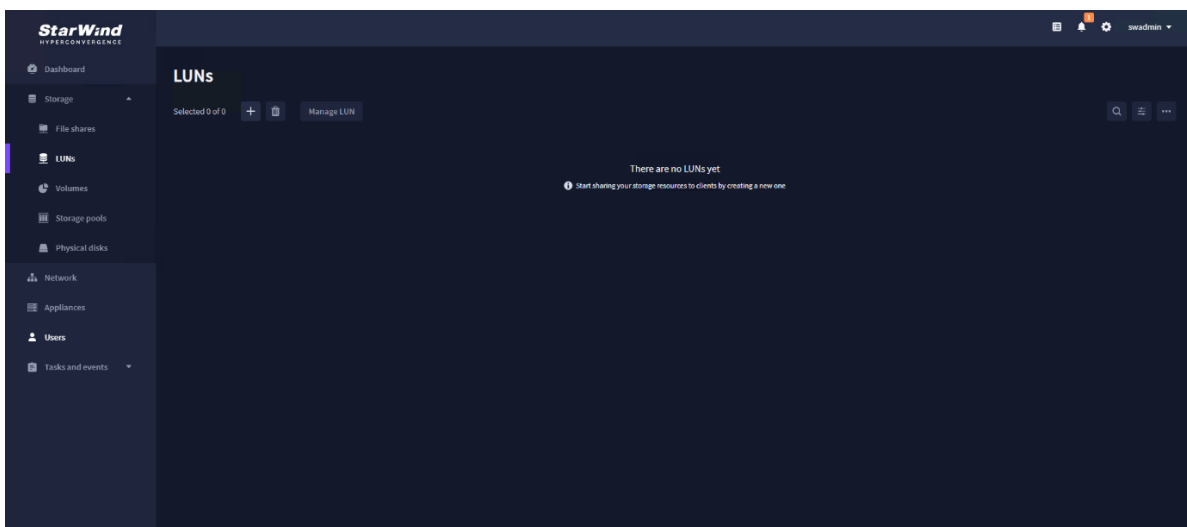
4. Select the “Standard” volume type and click Next.



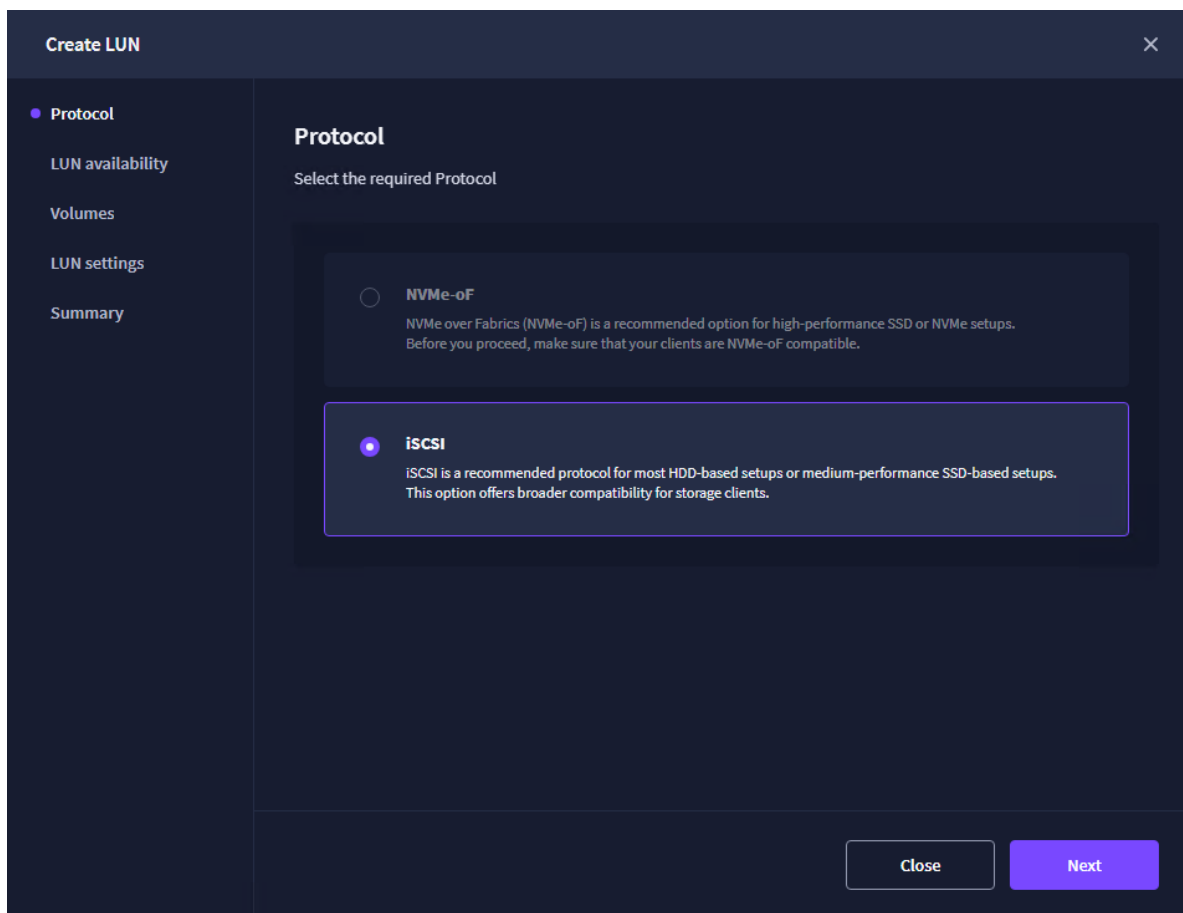
5. Review the Summary and click Create.



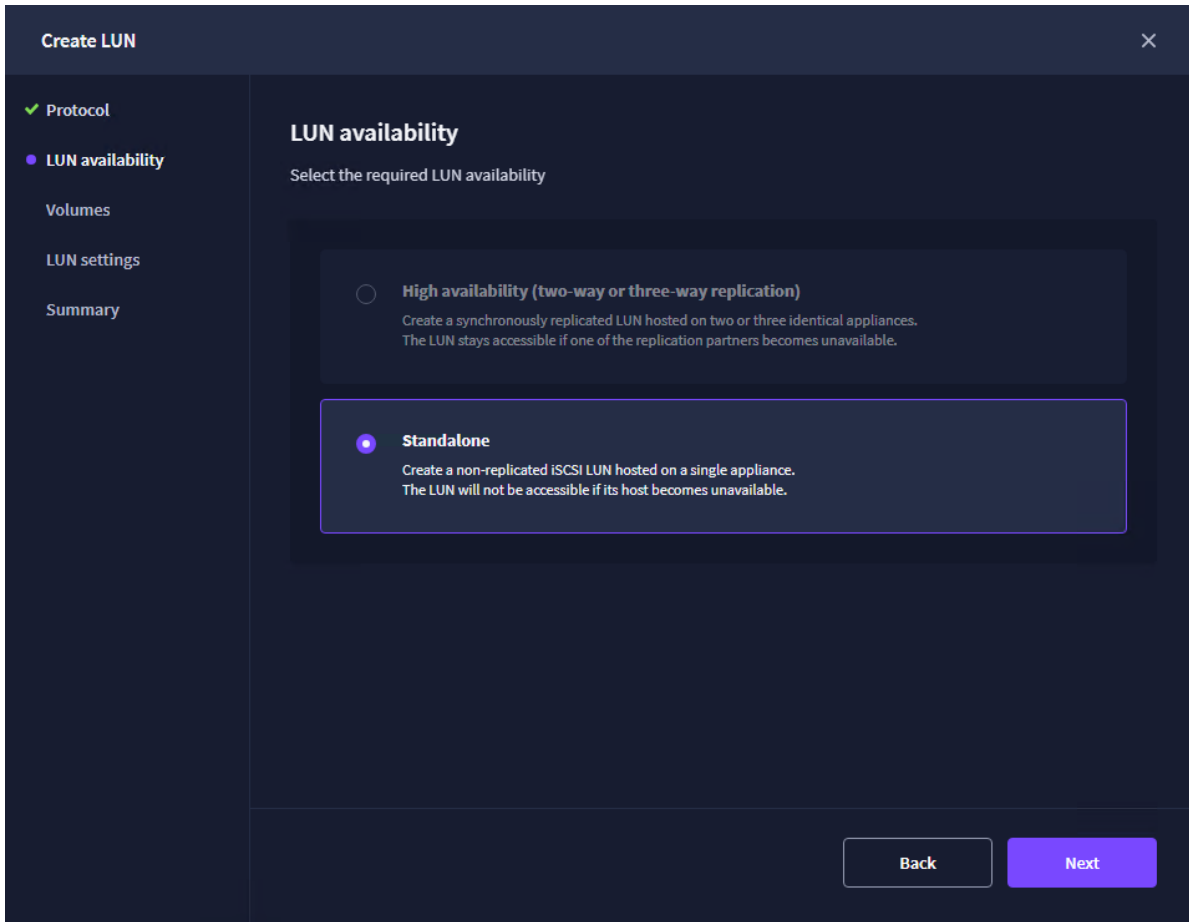
6. Navigate to the LUNs tab and click the “+” sign to create an iSCSI target.



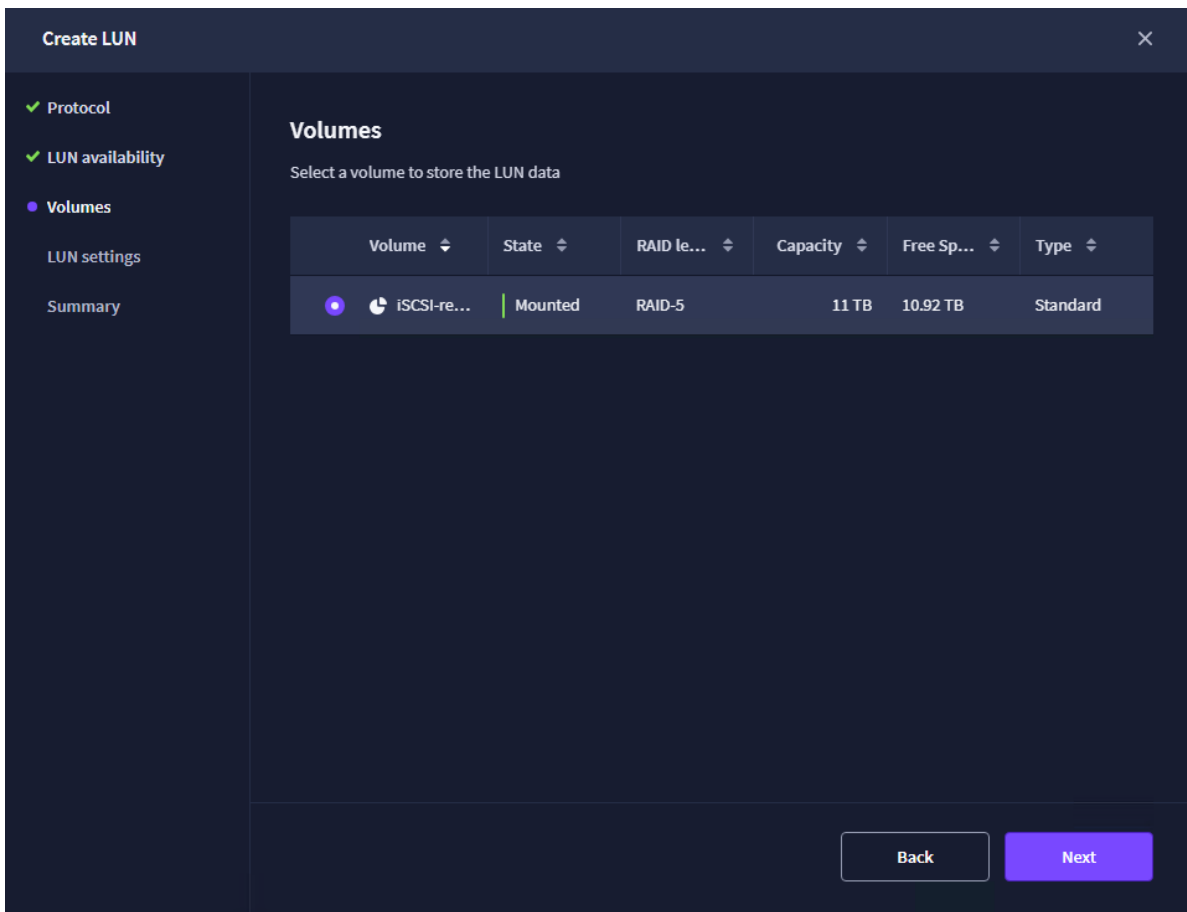
7. Click Next.



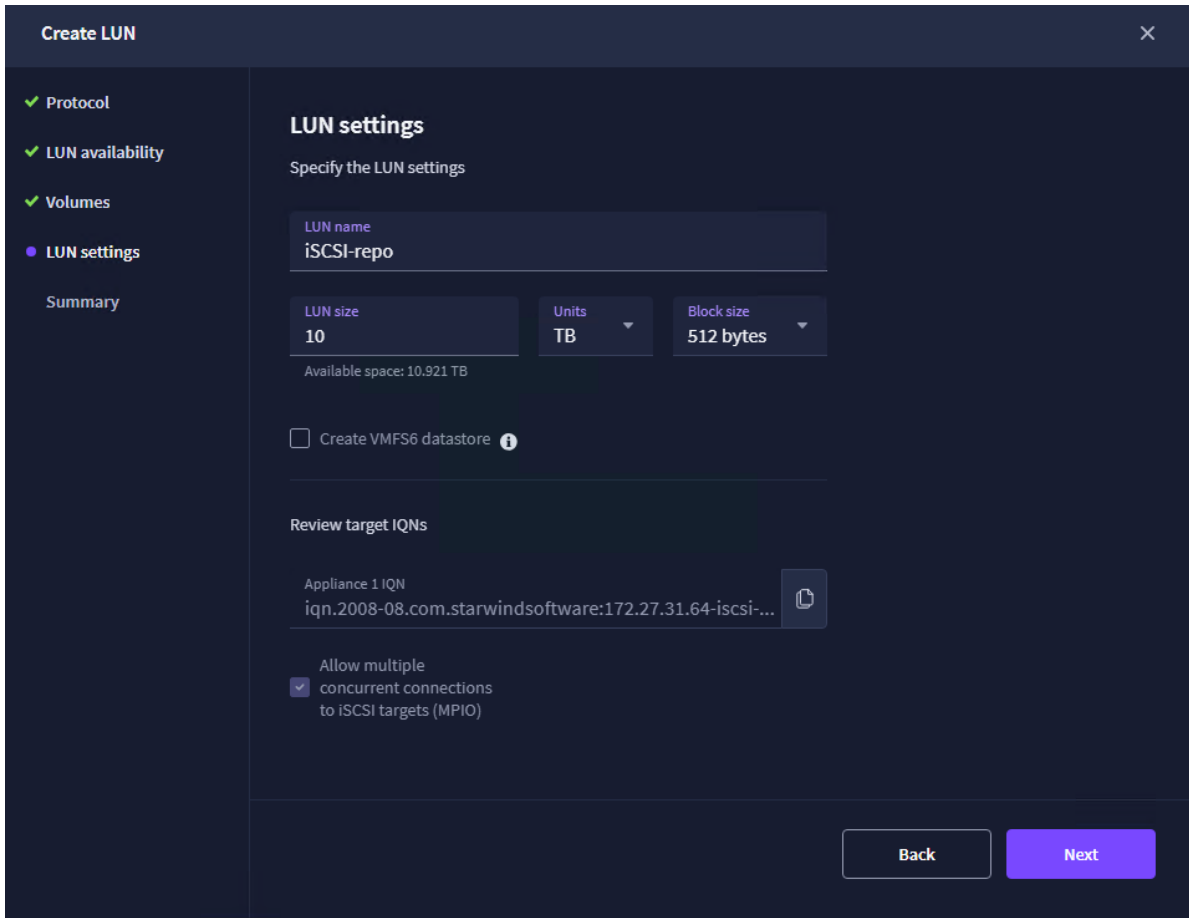
8. Standalone LUN availability is the only option for iSCSI backup repository. Click Next.



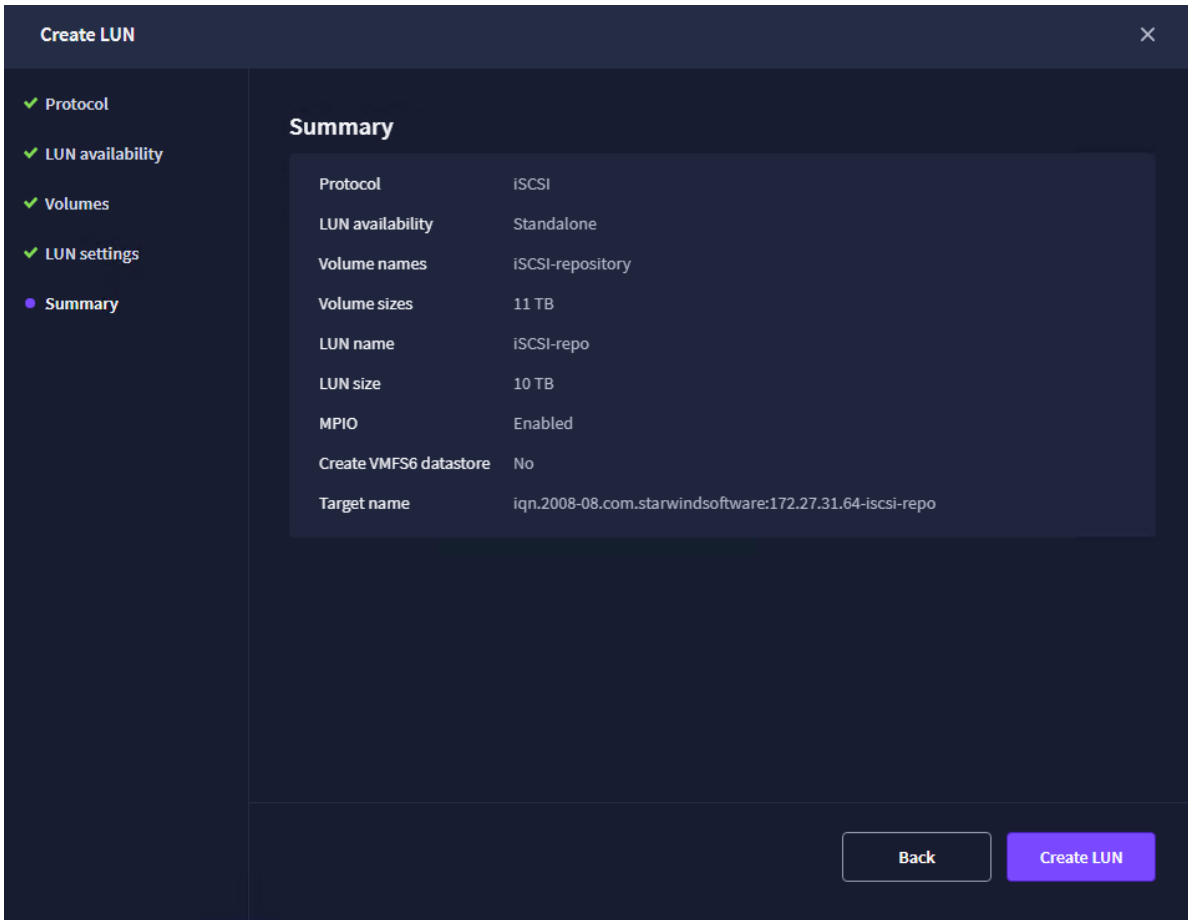
9. Select the volume on which the iSCSI LUN will be stored.



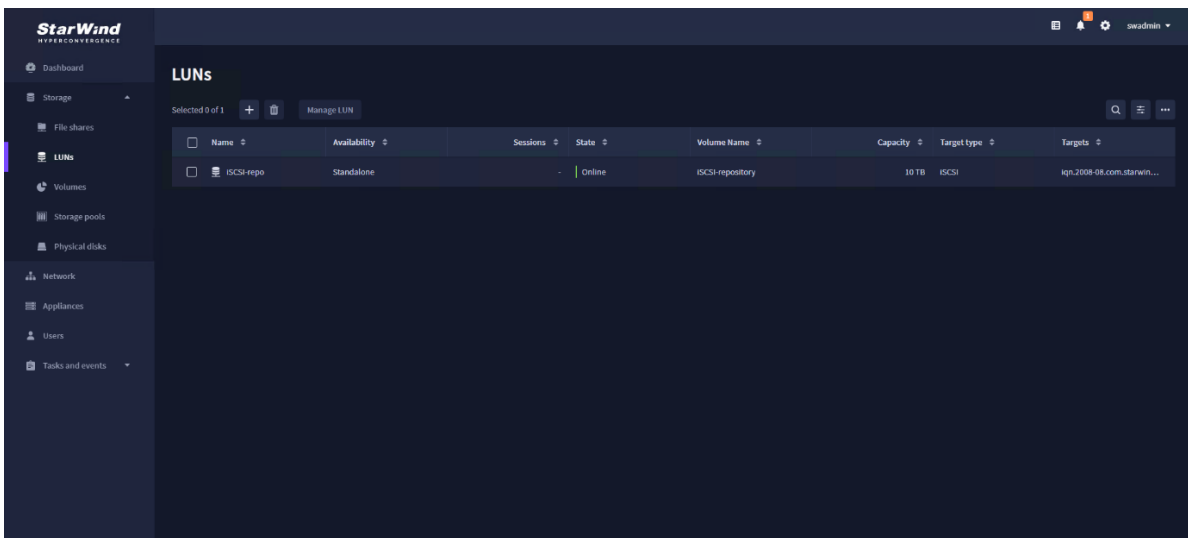
10. Specify the iSCSI LUN name and size. Click Next.



11. Review the Summary and click Create LUN.

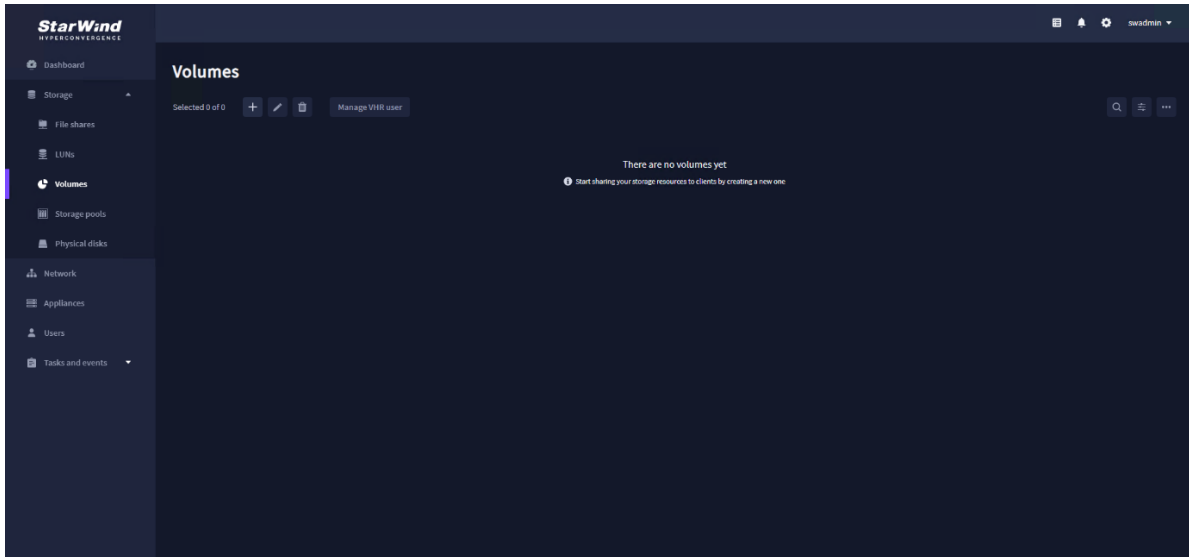


12. The iSCSI target has been created and is ready to be connected to the backup software.

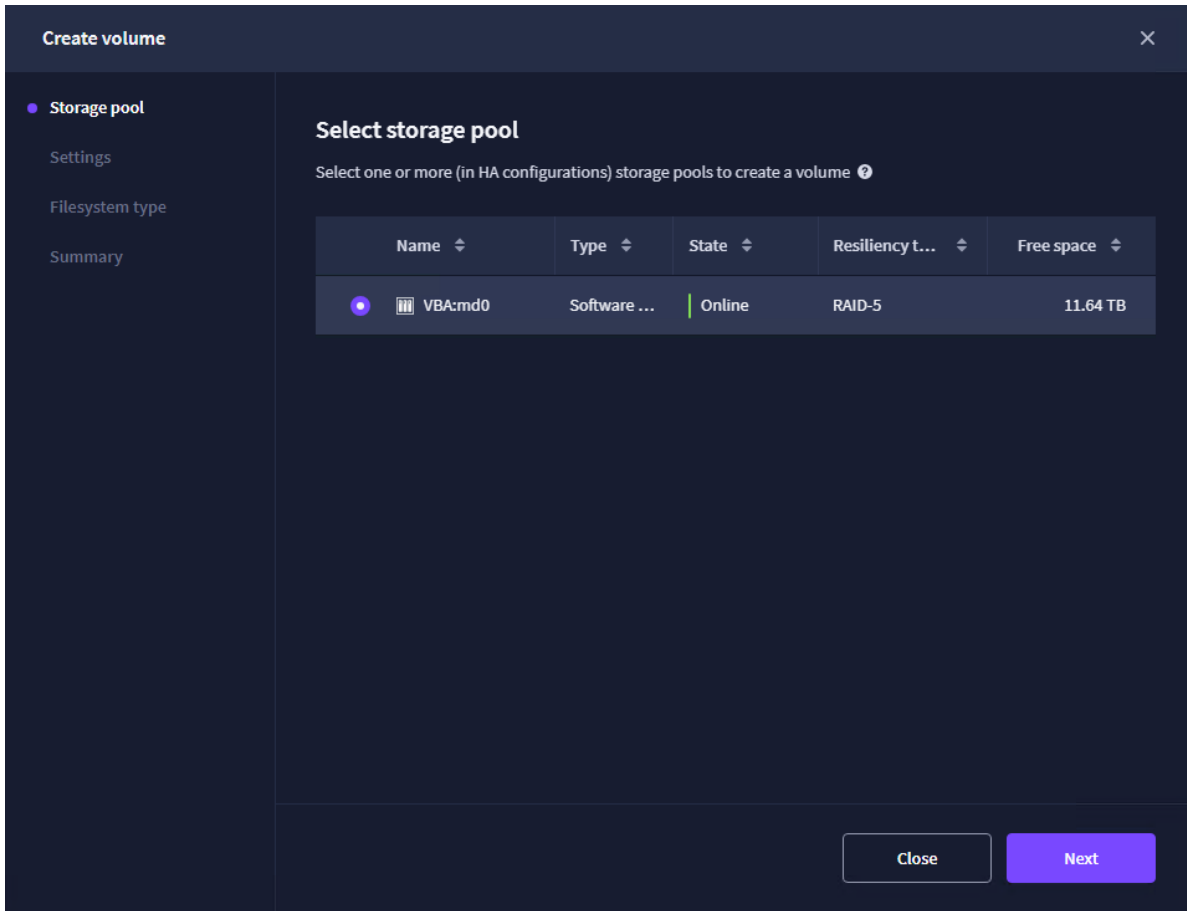


## Creating Nfs Backup Repository

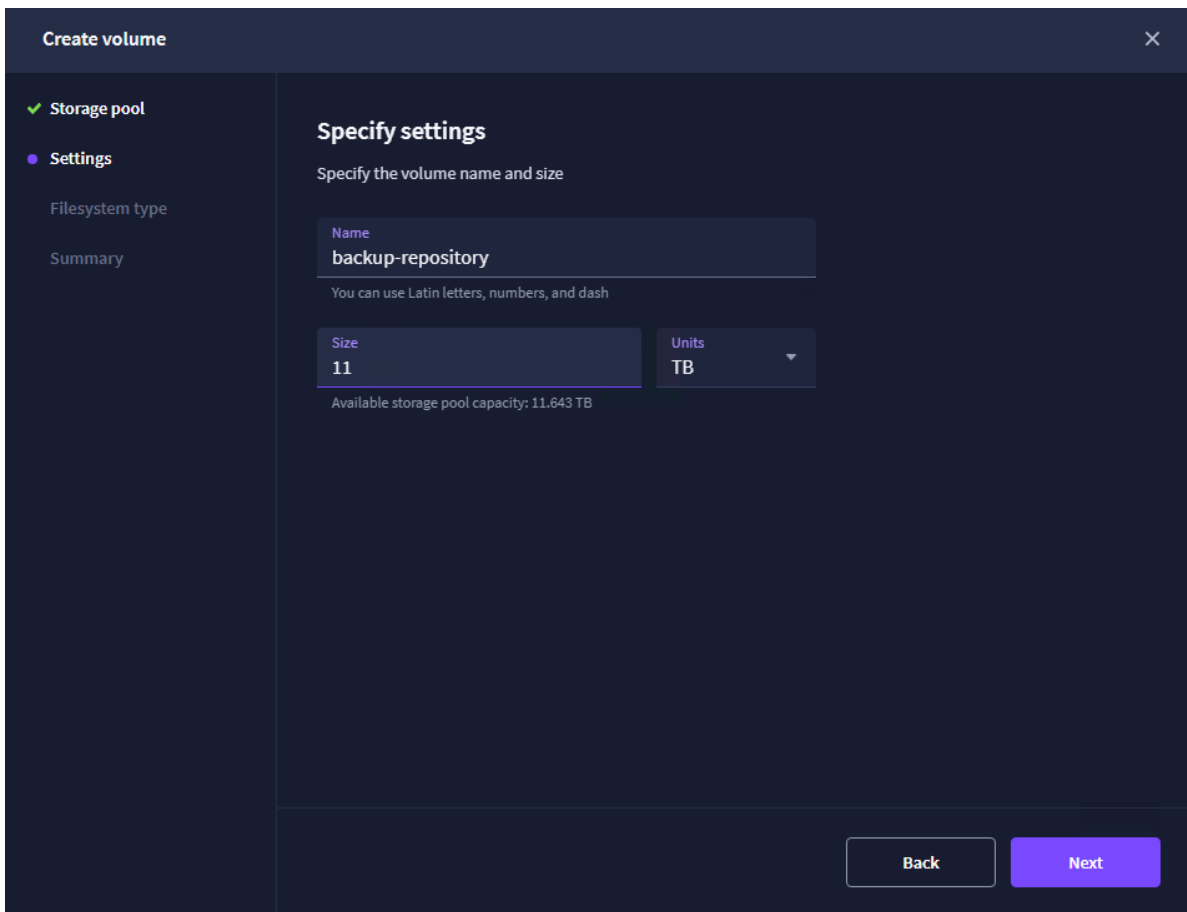
1. Navigate to the “Volumes” tab and click the “+” button to open the “Create volume” wizard.



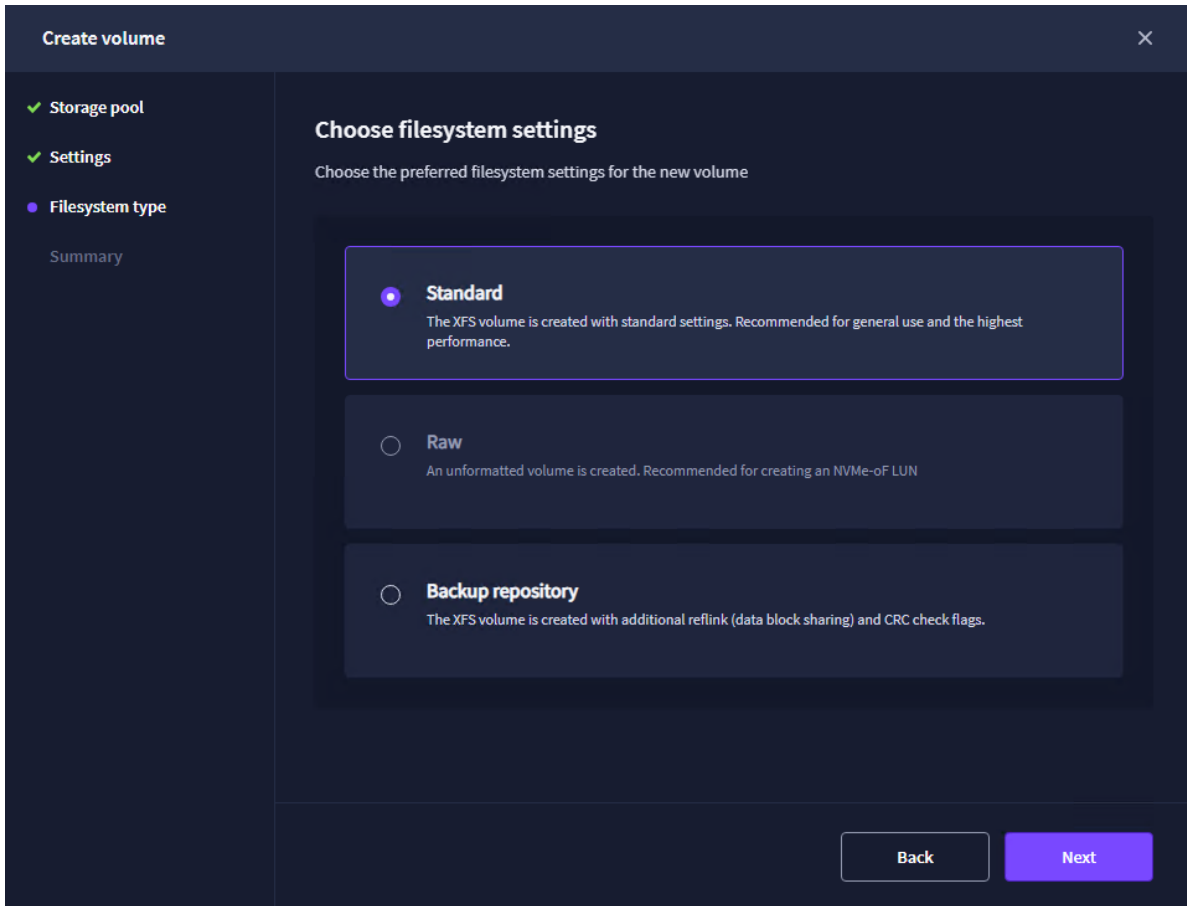
2. Select the storage pool that will be used for a new volume and click Next.



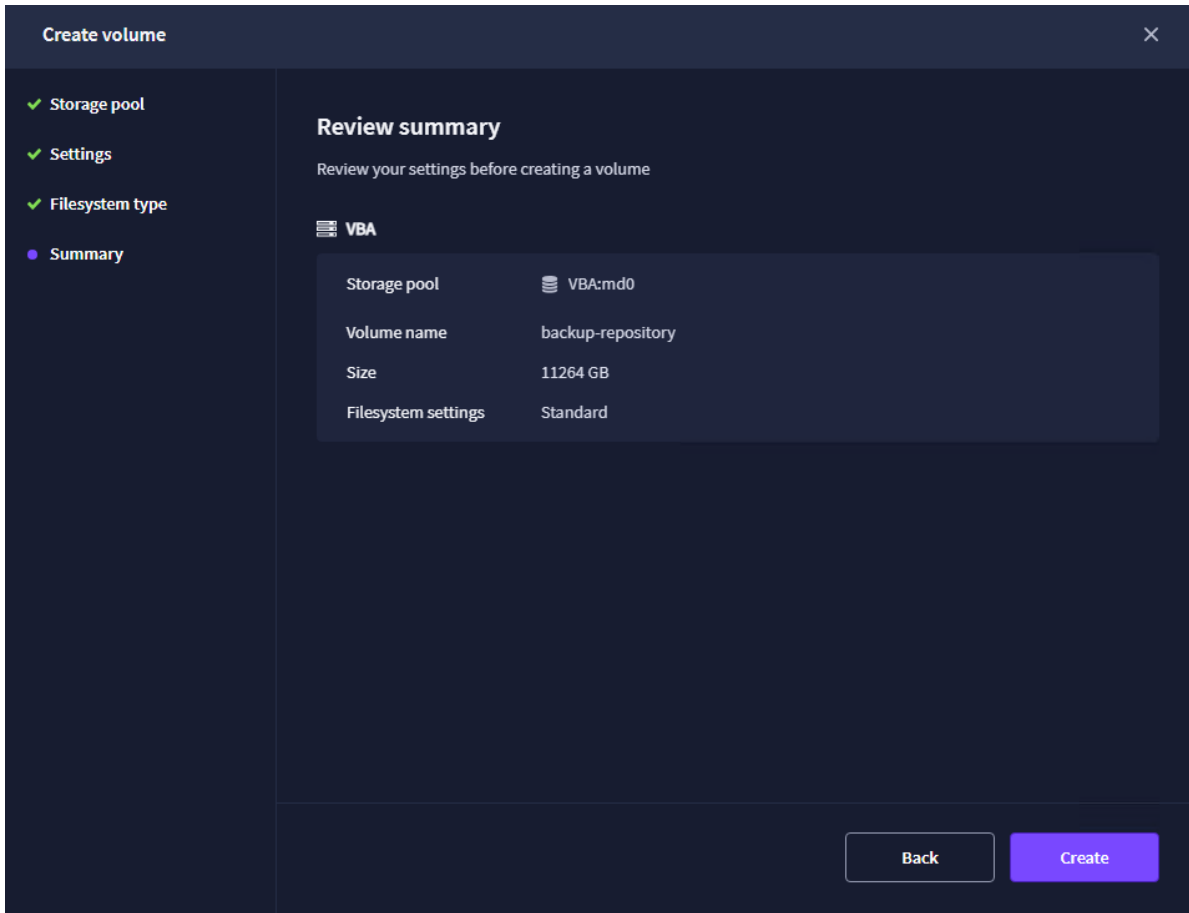
3. Specify the volume name and capacity. Click Next.



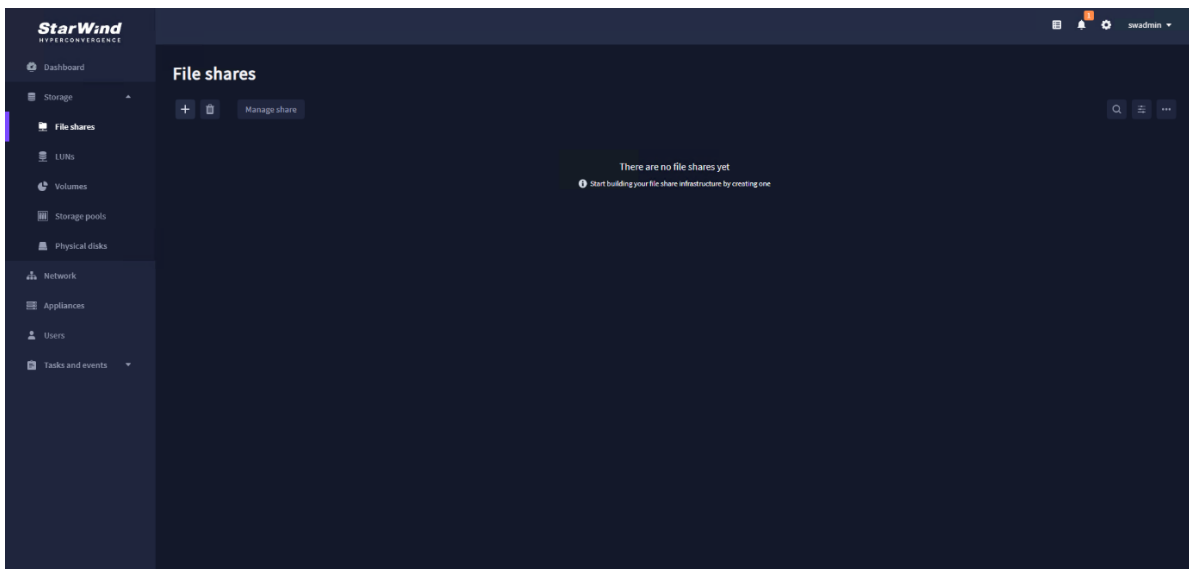
4. Select the “Standard” volume type and click Next.



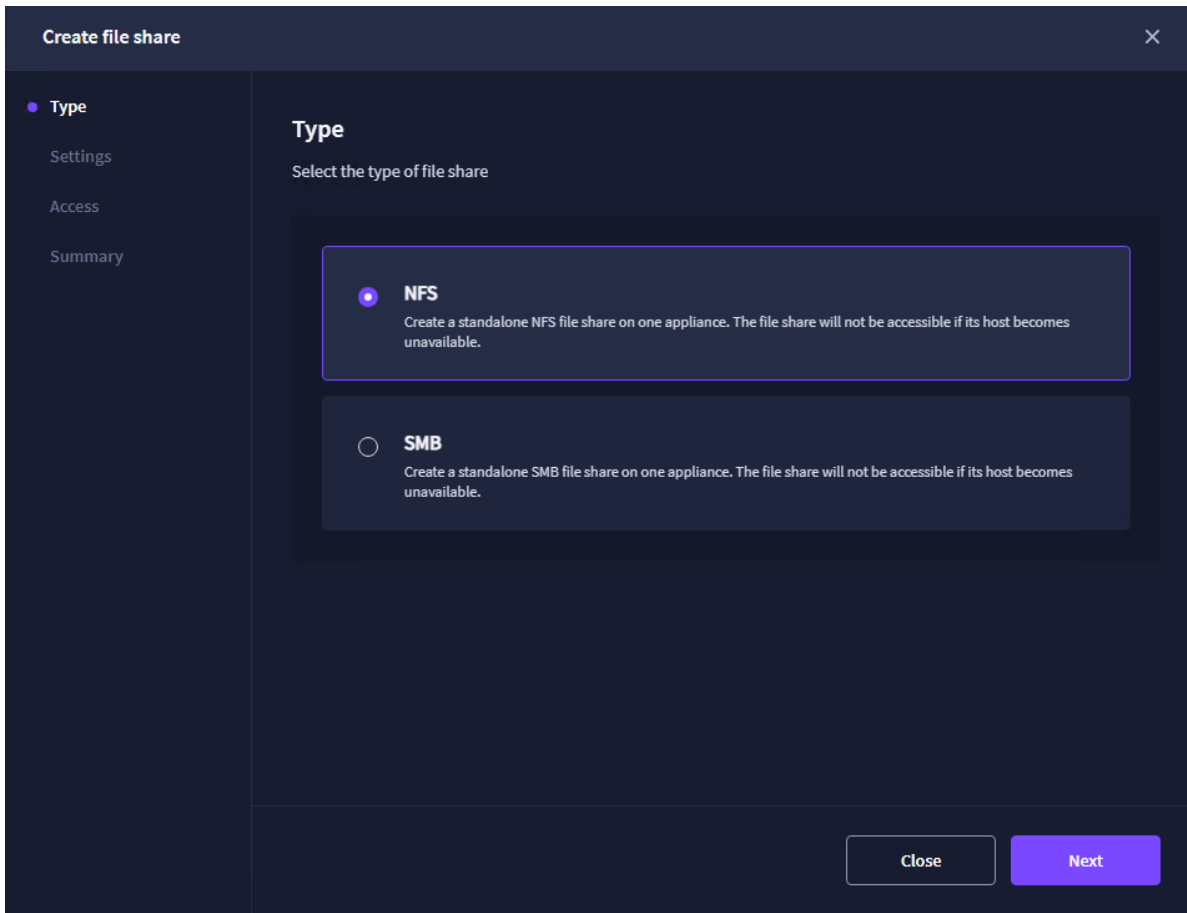
5. Review the Summary and click Create.



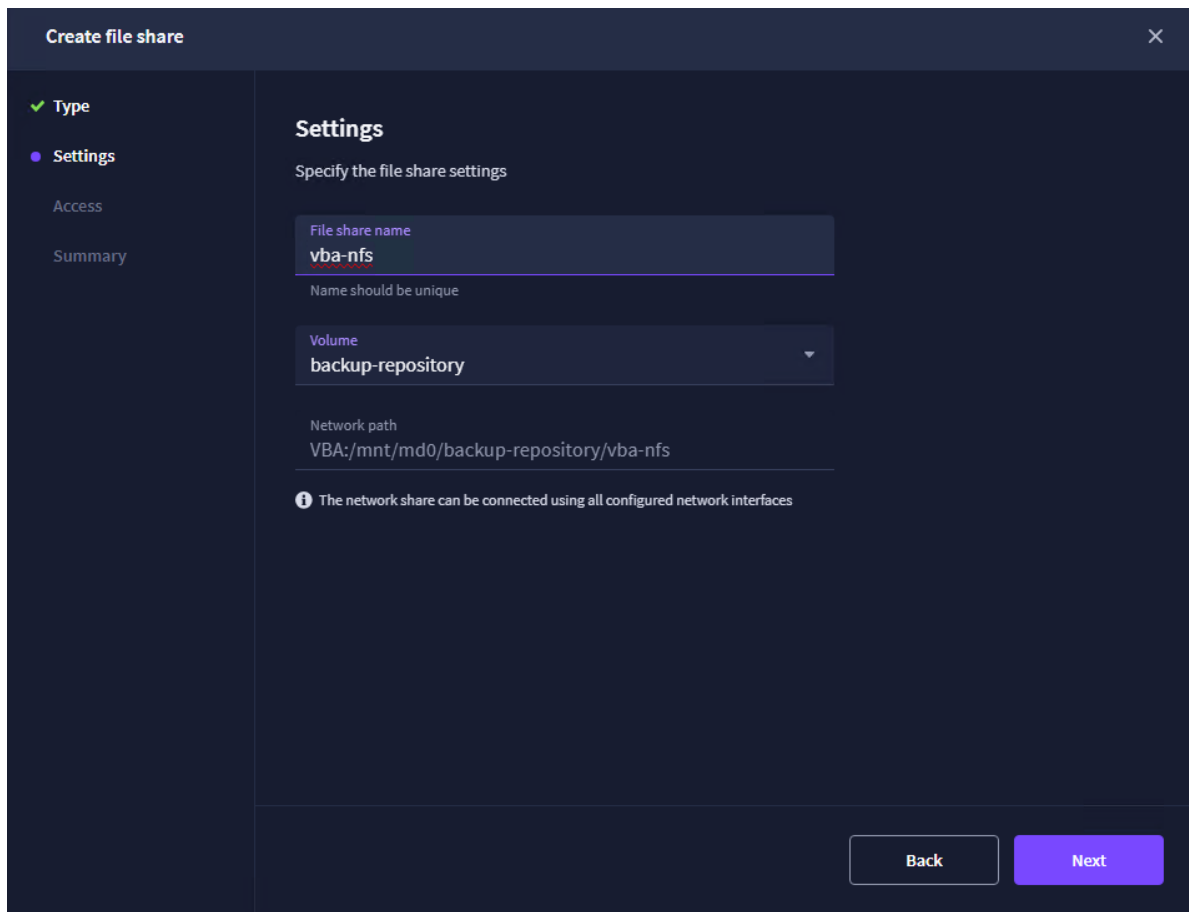
6. Navigate to the File shares tab and click the “+” sign.



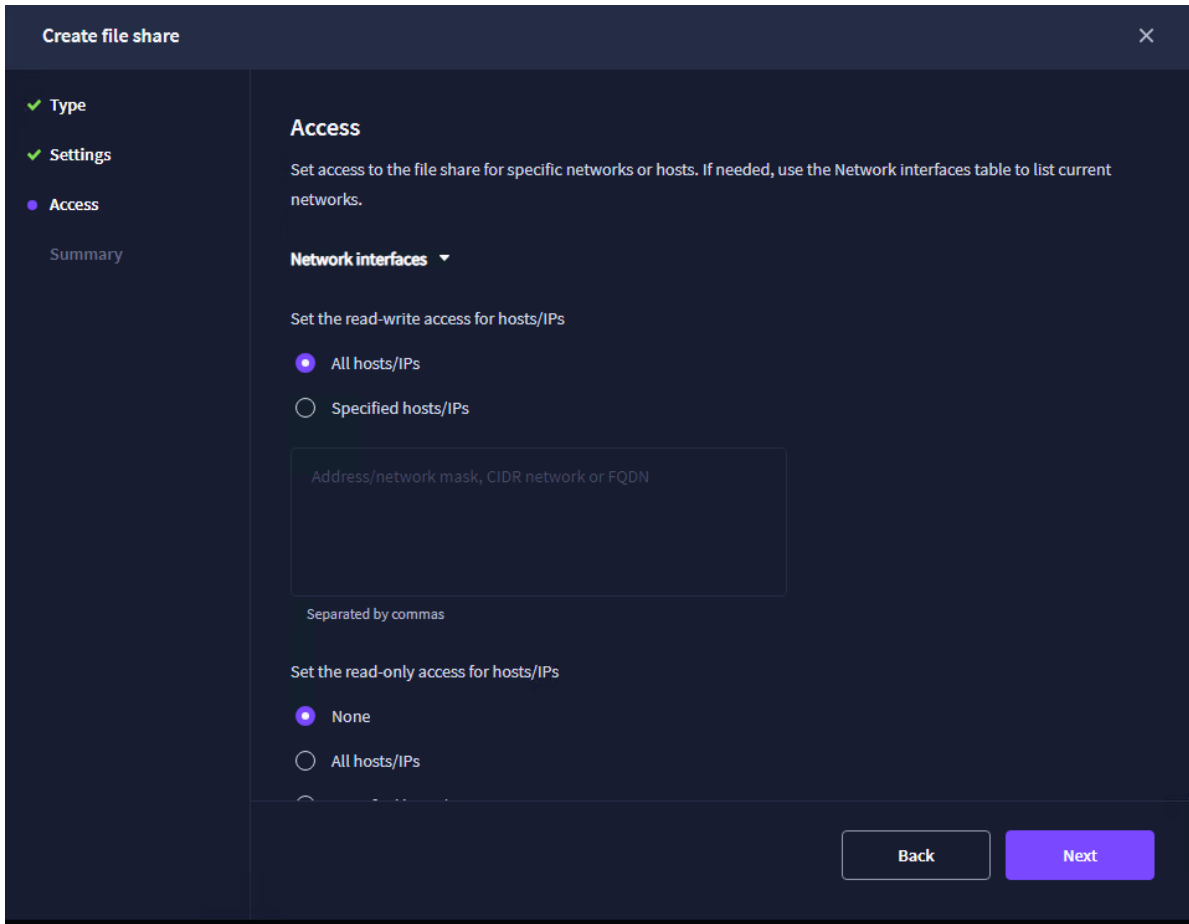
7. Select the NFS file share type and click Next.



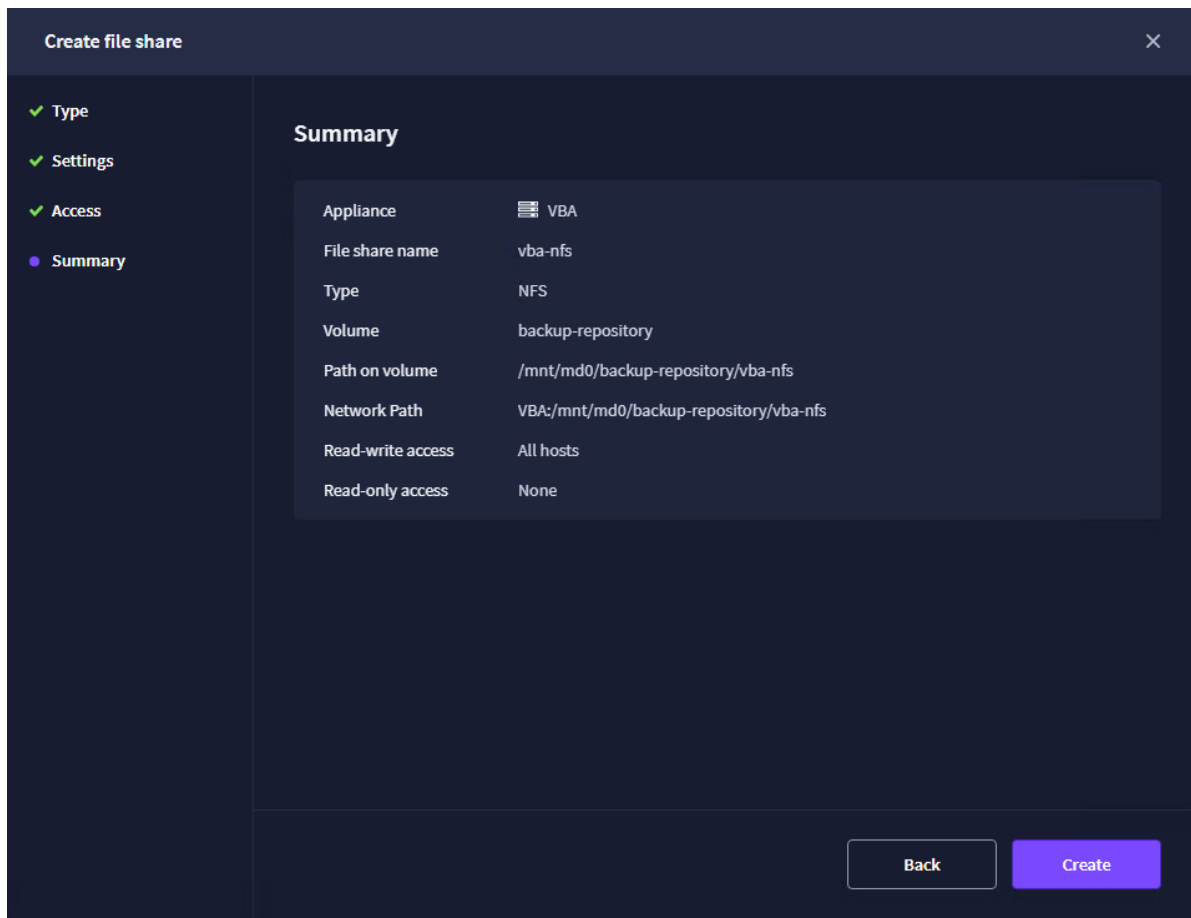
8. Specify the file share name and volume on which it will be located.



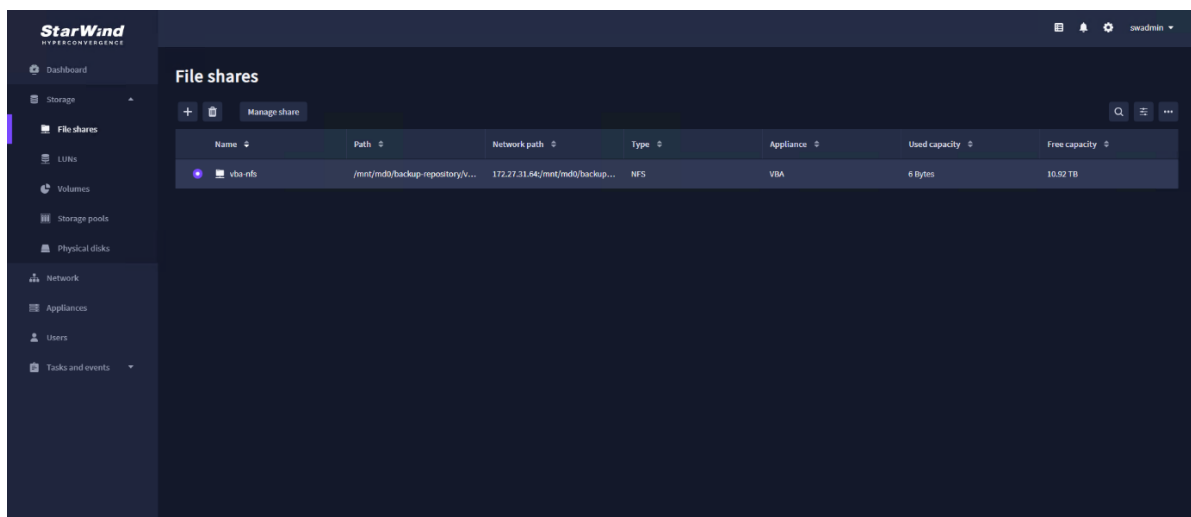
9. Specify the required access settings to the NFS share. Click Next.



10. Review Summary and click Create.

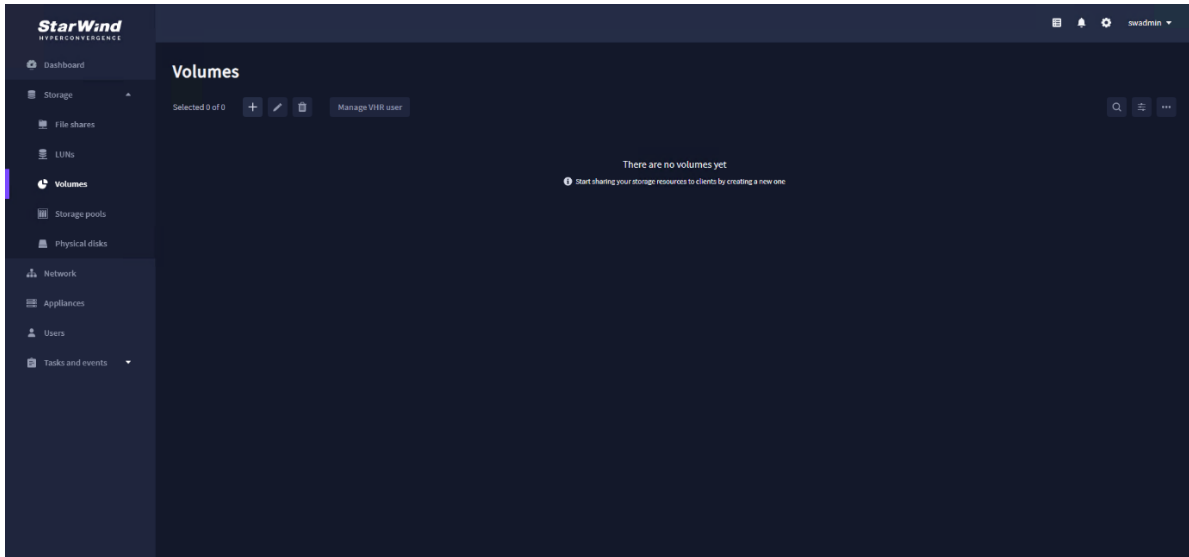


11. The NFS share repository is ready to be connected to the backup software.

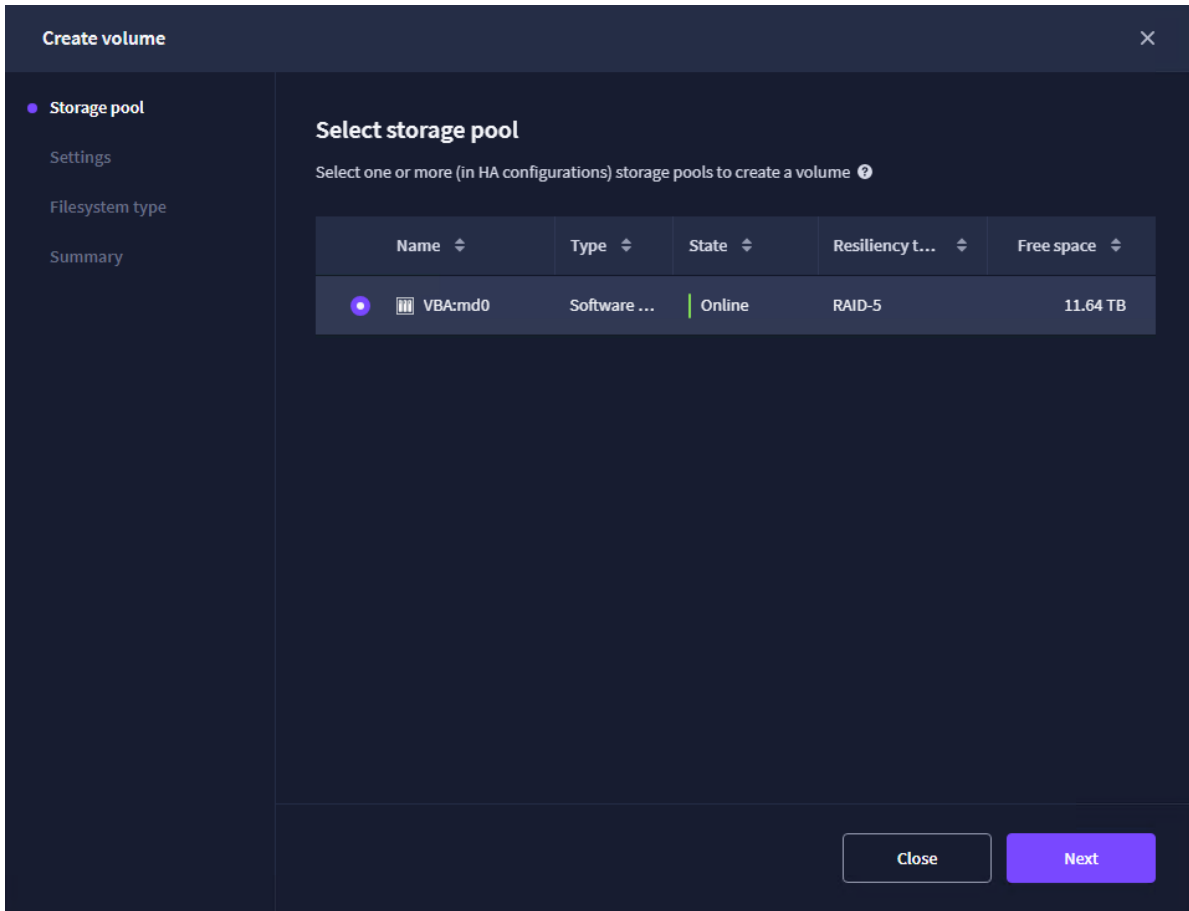


## Creating Smb Backup Repository

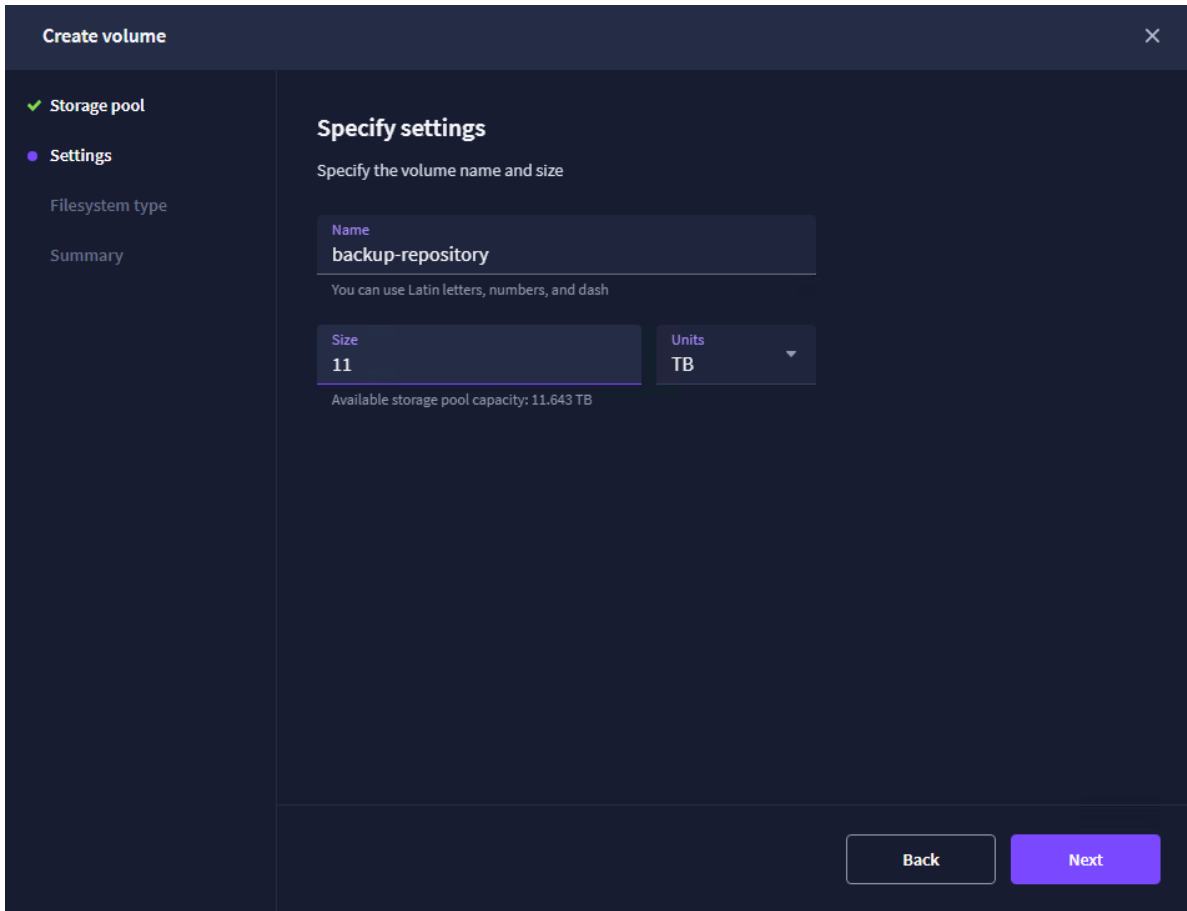
1. Navigate to the “Volumes” tab and click the “+” button to open the “Create volume” wizard.



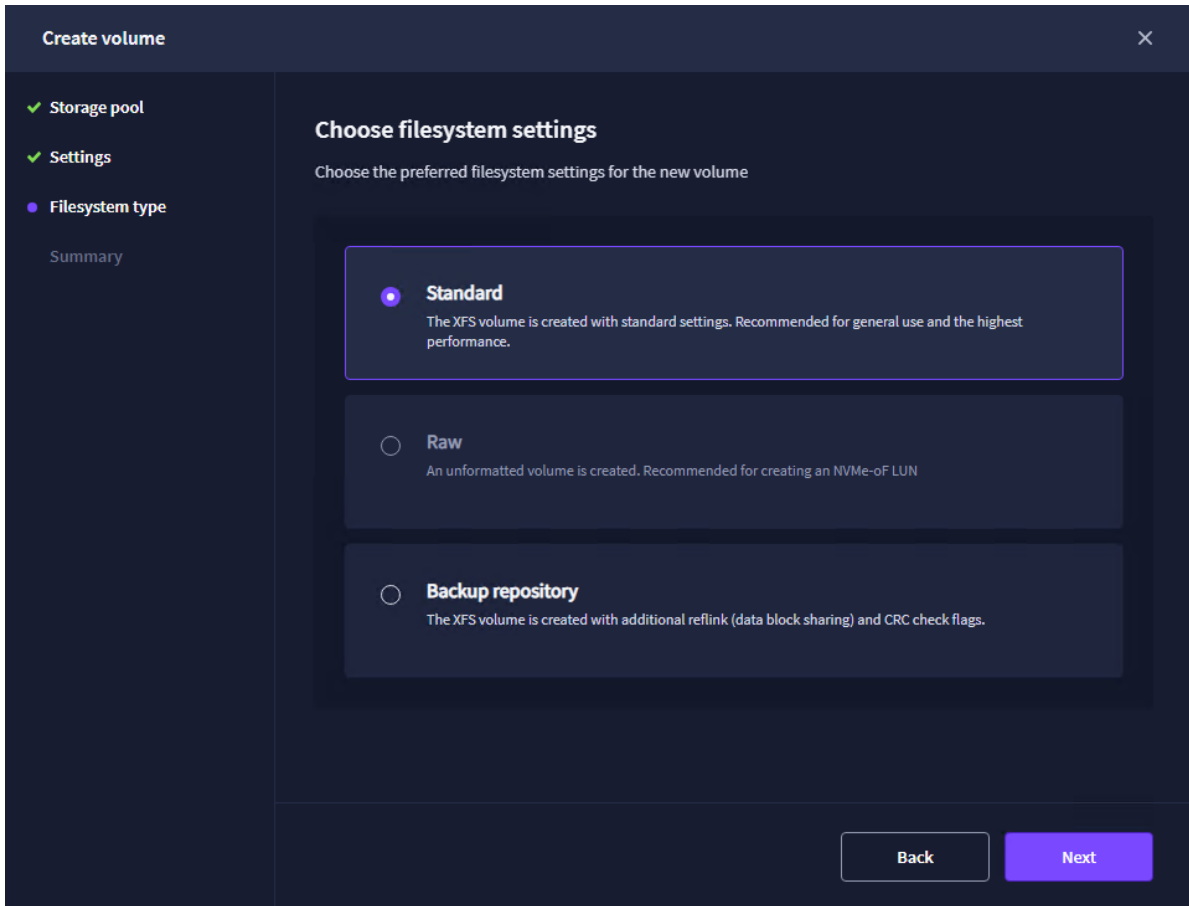
2. Select the storage pool that will be used for a new volume and click Next.



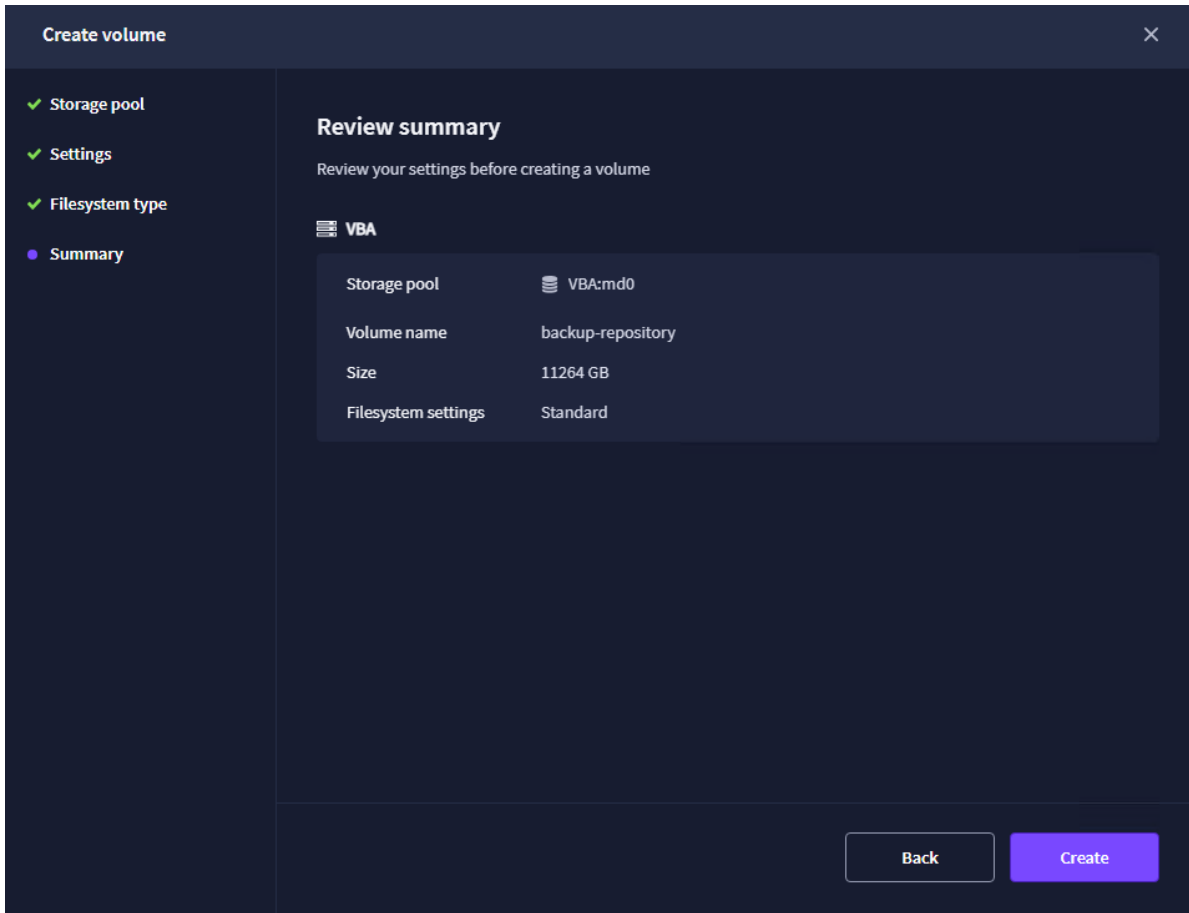
3. Specify the volume name and capacity. Click Next.



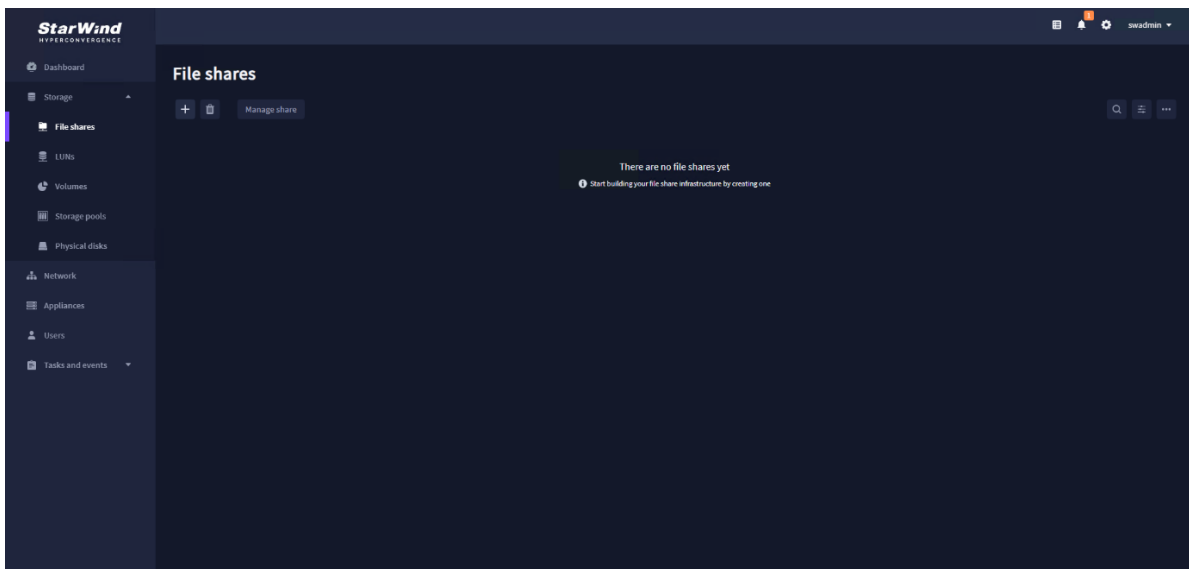
4. Select the “Standard” volume type and click Next.



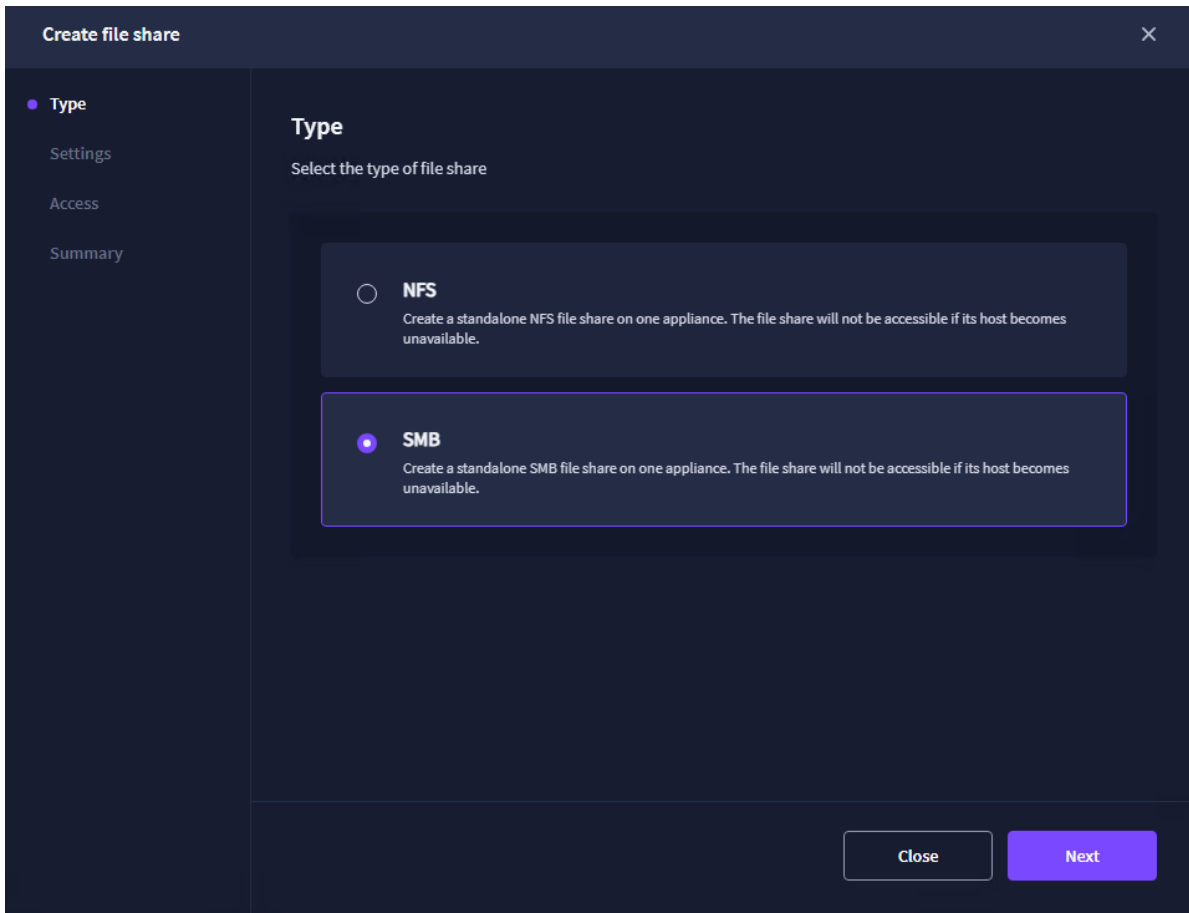
5. Review the Summary and click Create.



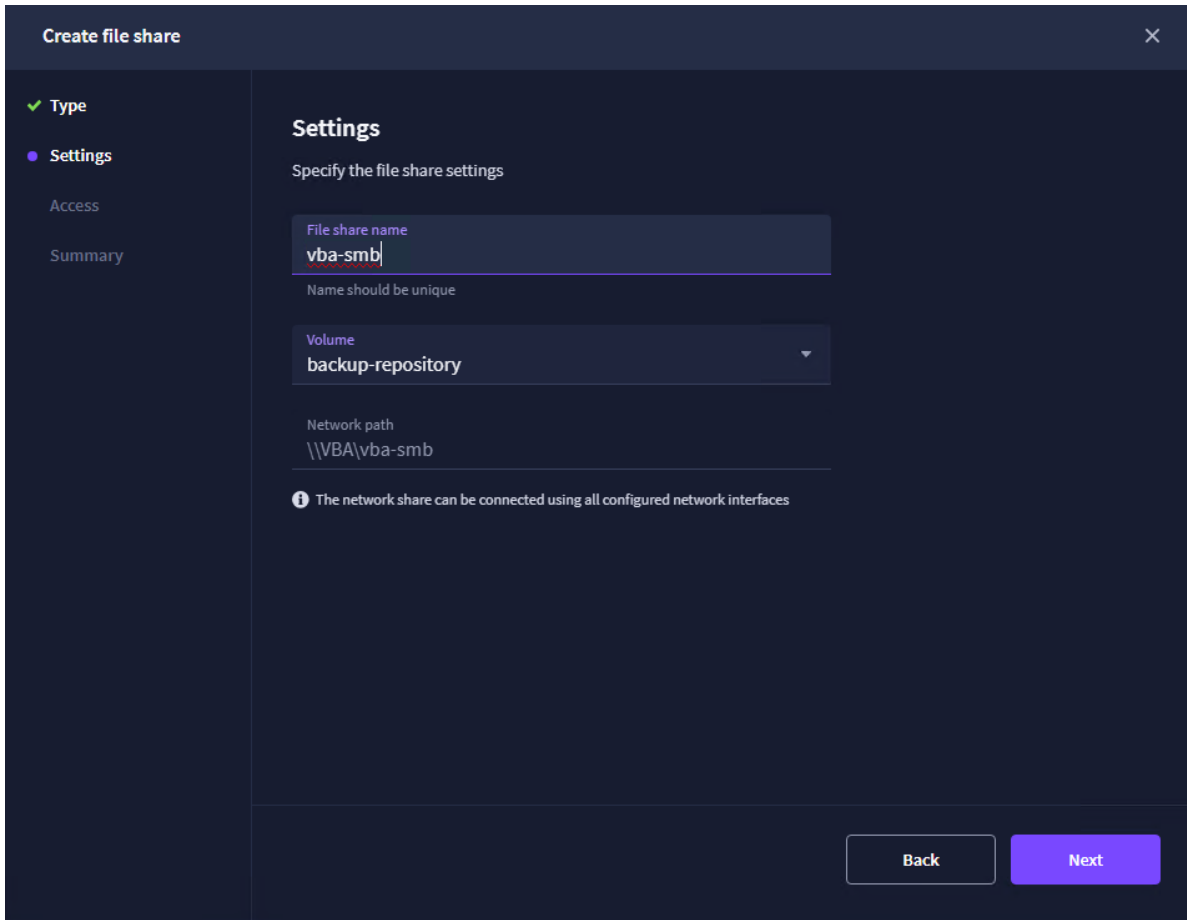
6. Navigate to the File shares tab and click the “+” sign.



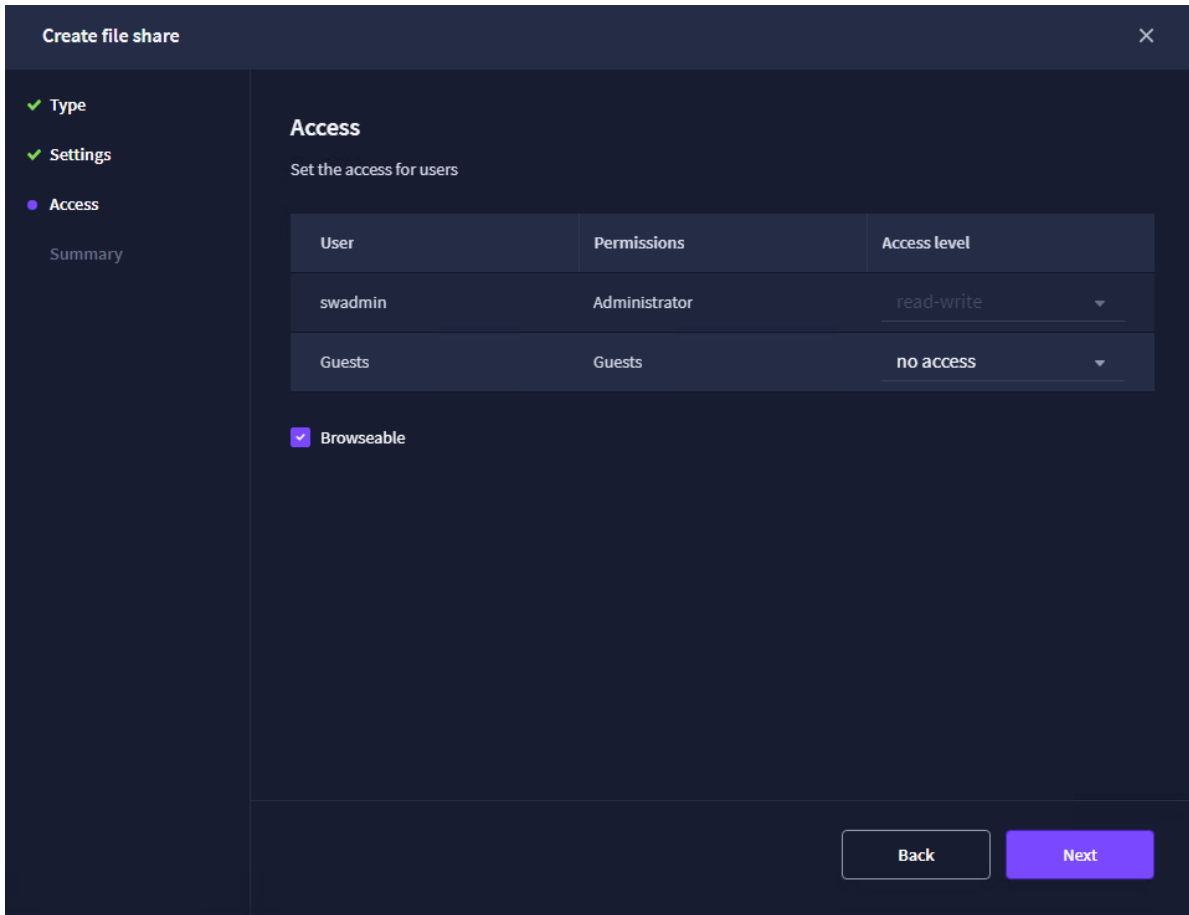
7. Select the SMB file share type and click Next.



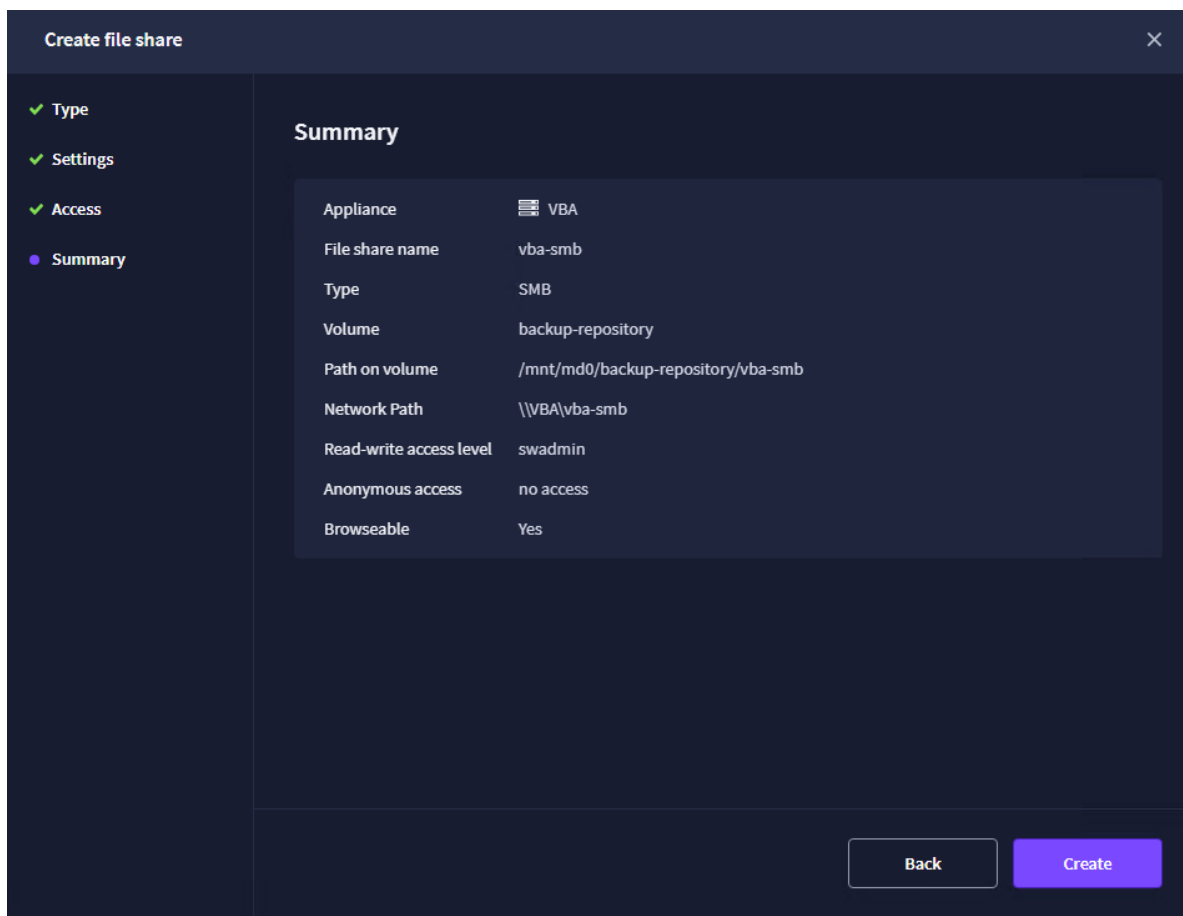
8. Specify the file share name and volume on which it will be located.



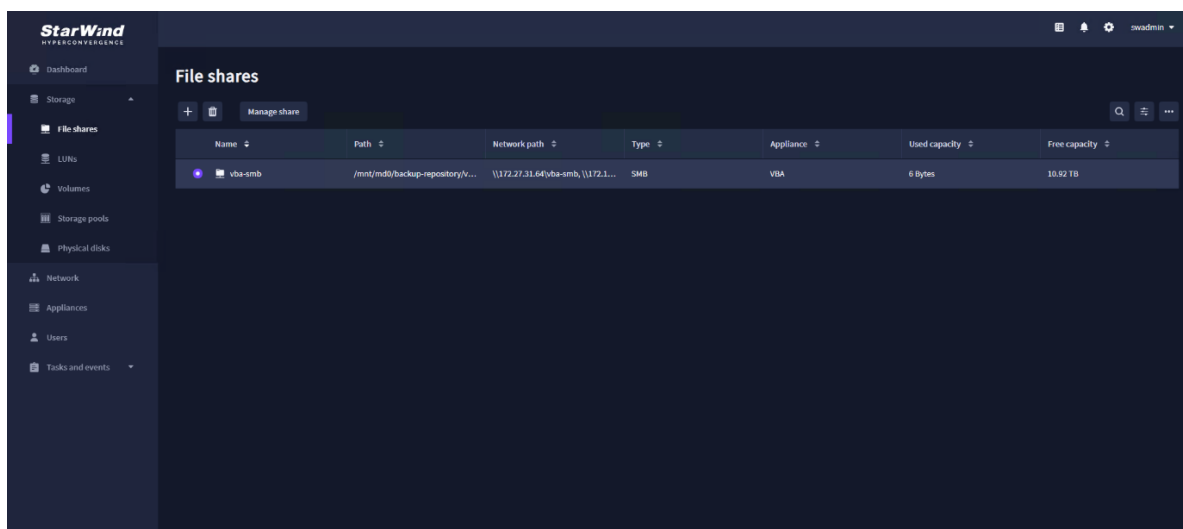
9. Specify the required access settings to the SMB share. Click Next.



10. Review Summary and click Create.

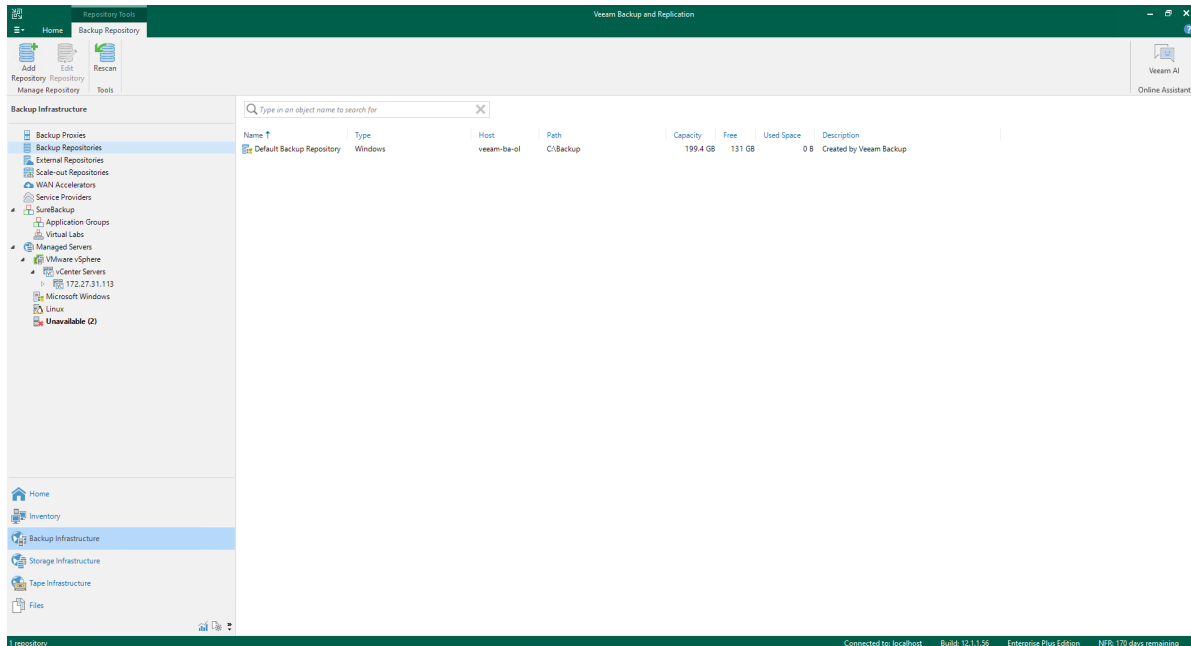


11. The SMB share repository is ready to be connected to the backup software.



# 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.

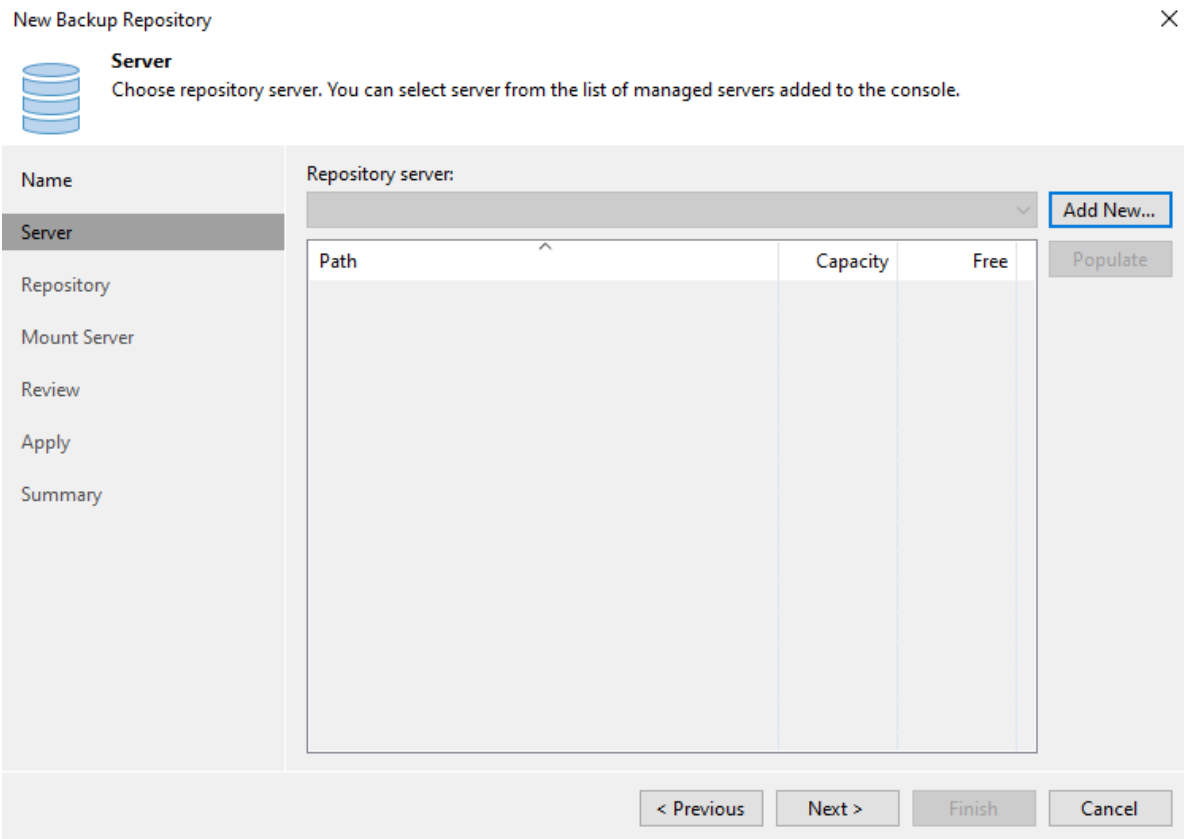
4. In the “New Backup Repository” wizard, specify the name and description for the new repository and click “Next”.

New Backup Repository ×

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

<b>Name</b>	Name: <input type="text" value="sw-vba-hardened-repo"/>
Server	Description: <input type="text" value="Created by SW-VEEAMBR-OL\Administrator at 10/4/2024 8:08 AM."/>
Repository	
Mount Server	
Review	
Apply	
Summary	

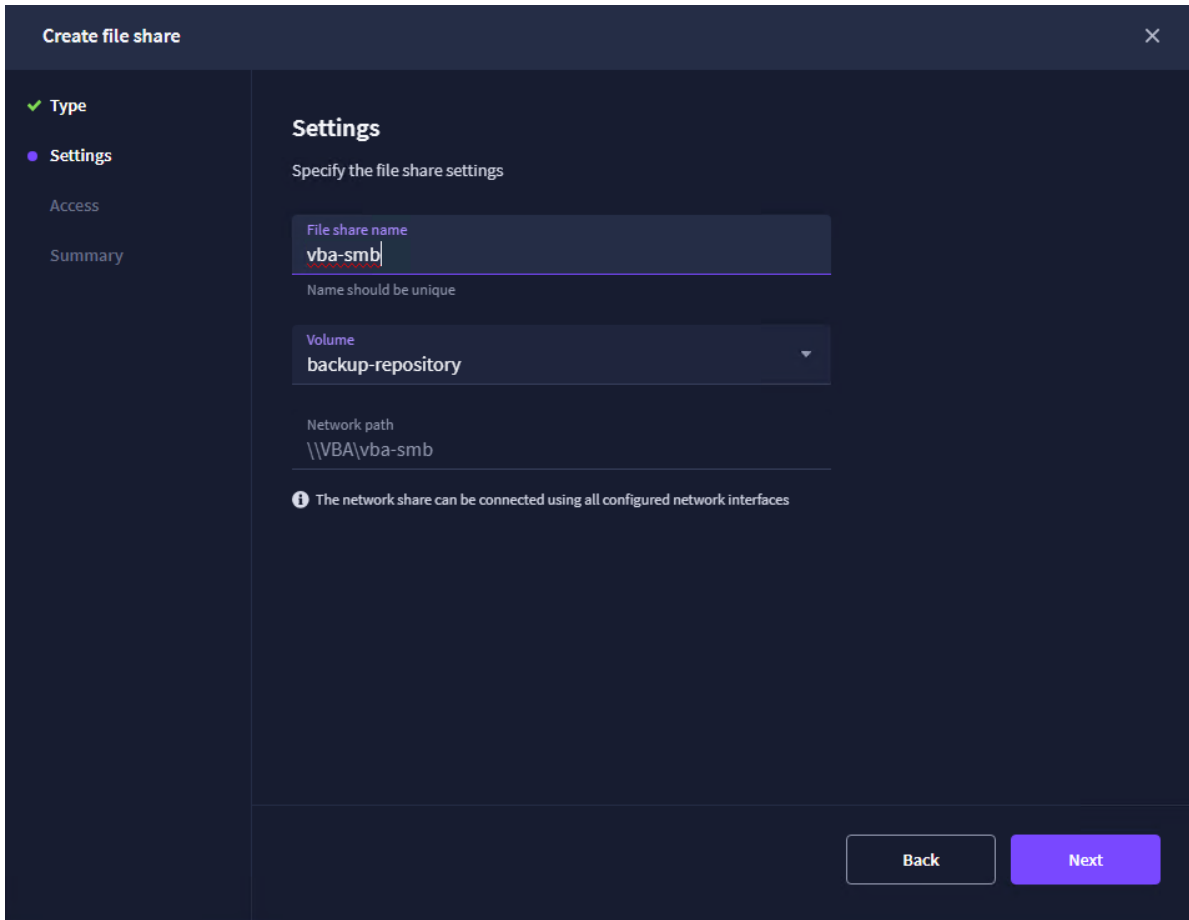
5. Click “Add New...”.



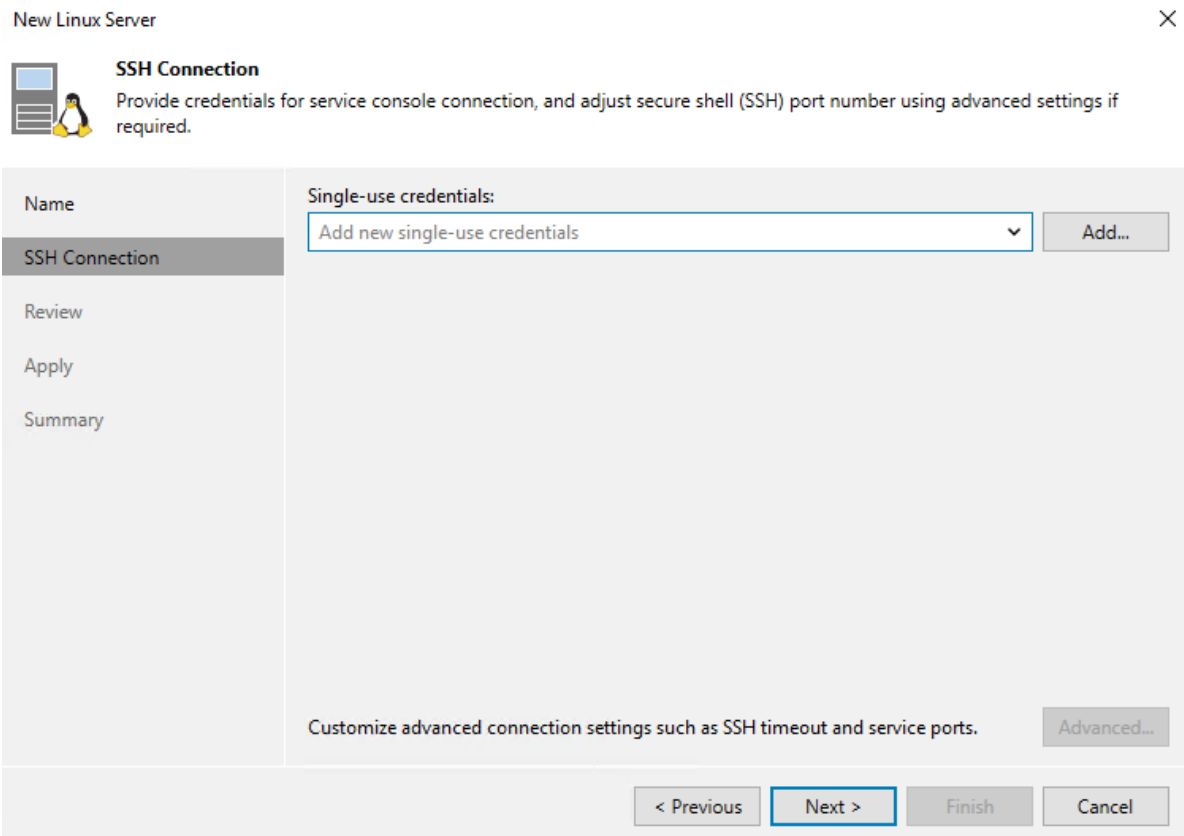
6. In the “New Linux Server” wizard, specify the IP address of the backup traffic network interface (Data) on StarWind VBA CVM and click “Next”.

NOTE: You can add a backup repository using the management IP address of StarWind VBA 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:

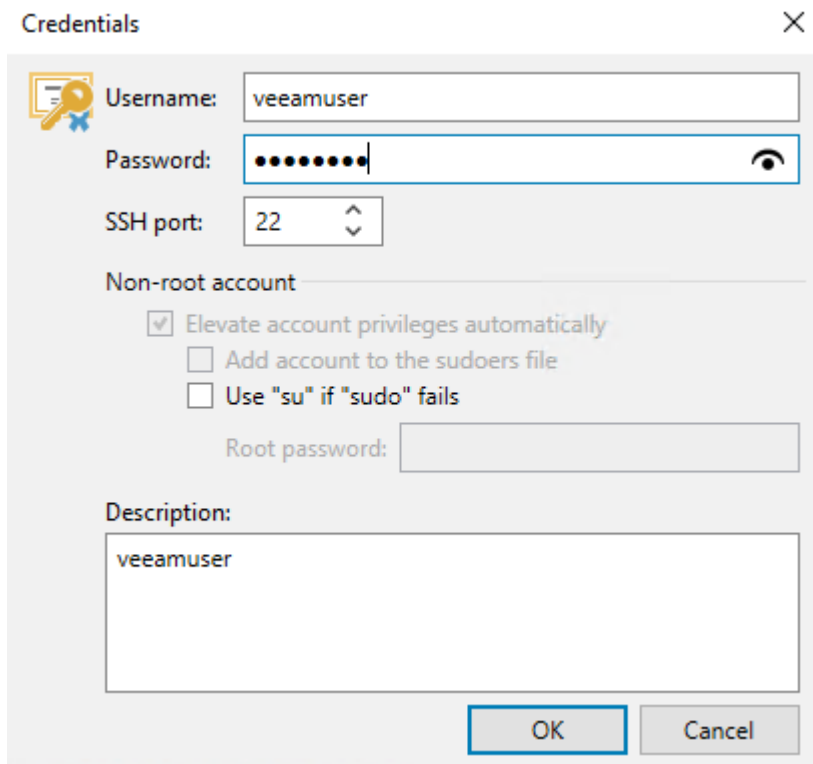
[https://helpcenter.veeam.com/docs/backup/vsphere/select\\_backup\\_network.html?ver=120](https://helpcenter.veeam.com/docs/backup/vsphere/select_backup_network.html?ver=120)



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”.



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							
<b>Review</b>	<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

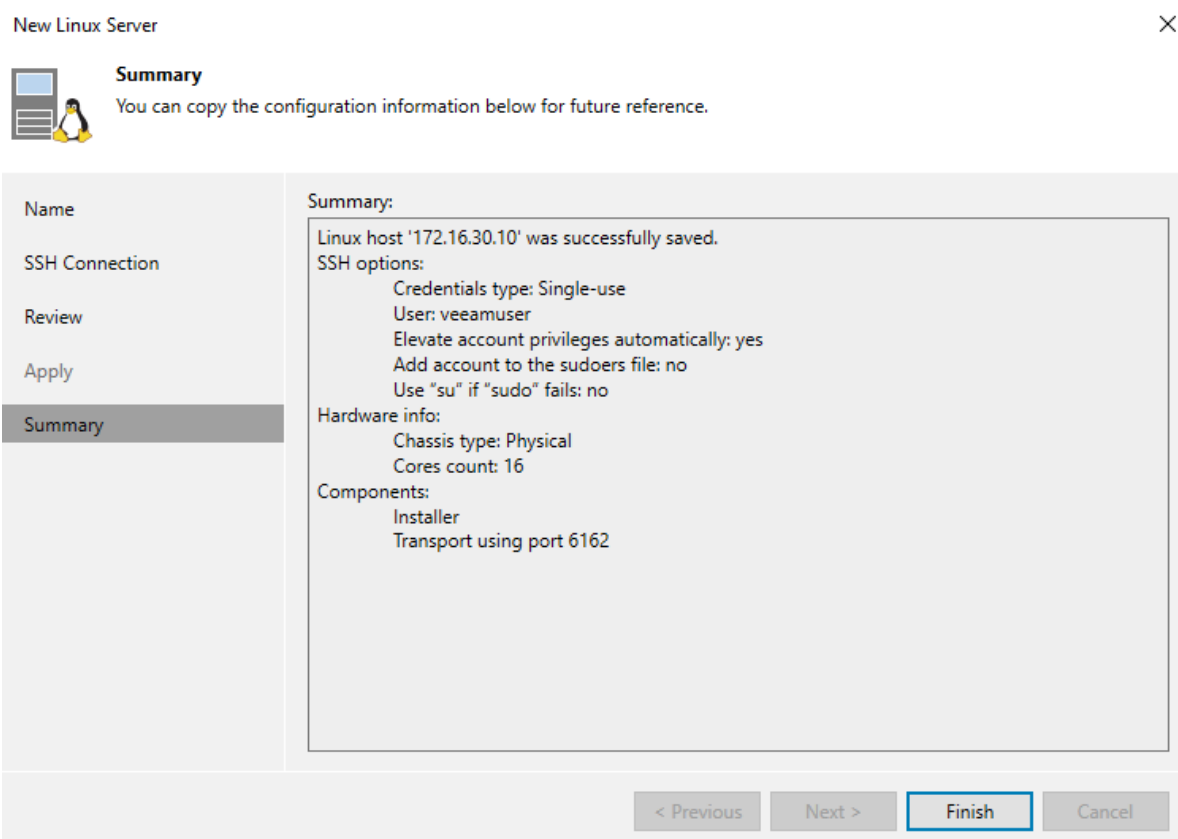
10. Wait until the installation is complete and click “Next”.

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	
<b>Apply</b>	✓ 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 VBA server and click “Populate”. Select the Backup repository volume created in StarWind VBA and 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"/> <span style="float: right;">Browse...</span>
Repository	<div style="display: flex; align-items: center;">  <div style="margin-left: 5px;">Capacity: &lt;Unknown&gt;</div> <span style="margin-left: 20px;">Populate</span> </div> <div style="display: flex; align-items: center;">  <div style="margin-left: 5px;">Free space: &lt;Unknown&gt;</div> </div> <div style="margin-top: 5px;"> <input checked="" type="checkbox"/> Use fast cloning on XFS volumes (recommended)  <small>Reduces storage consumption and improves synthetic backup performance.</small> </div> <div style="margin-top: 5px;">           Make recent backups immutable for: <input type="text" value="7"/> days  <small>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.</small> </div>
Mount Server	<b>Load control</b> <small>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:</small>
Review	<input checked="" type="checkbox"/> Limit maximum concurrent tasks to: <input type="text" value="4"/>
Apply	<input type="checkbox"/> Limit read and write data rate to: <input type="text" value="1"/> MB/s
Summary	Click Advanced to customize repository settings. <span style="float: right;">Advanced...</span>

< 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)"/> <span style="float: right; border: 1px solid #ccc; padding: 2px 5px;">Add New...</span>
Repository	Instant recovery write cache folder: <input type="text" value="C:\ProgramData\Veeam\Backup\IRCache\"/> <span style="float: right; border: 1px solid #ccc; padding: 2px 5px;">Browse...</span>
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) <span style="float: right; border: 1px solid #ccc; padding: 2px 5px;">Ports...</span>
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><b>Review</b></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 type="button" value=" &lt; Previous"/> <input type="button" value=" Apply"/> <input type="button" value=" Finish"/> <input 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

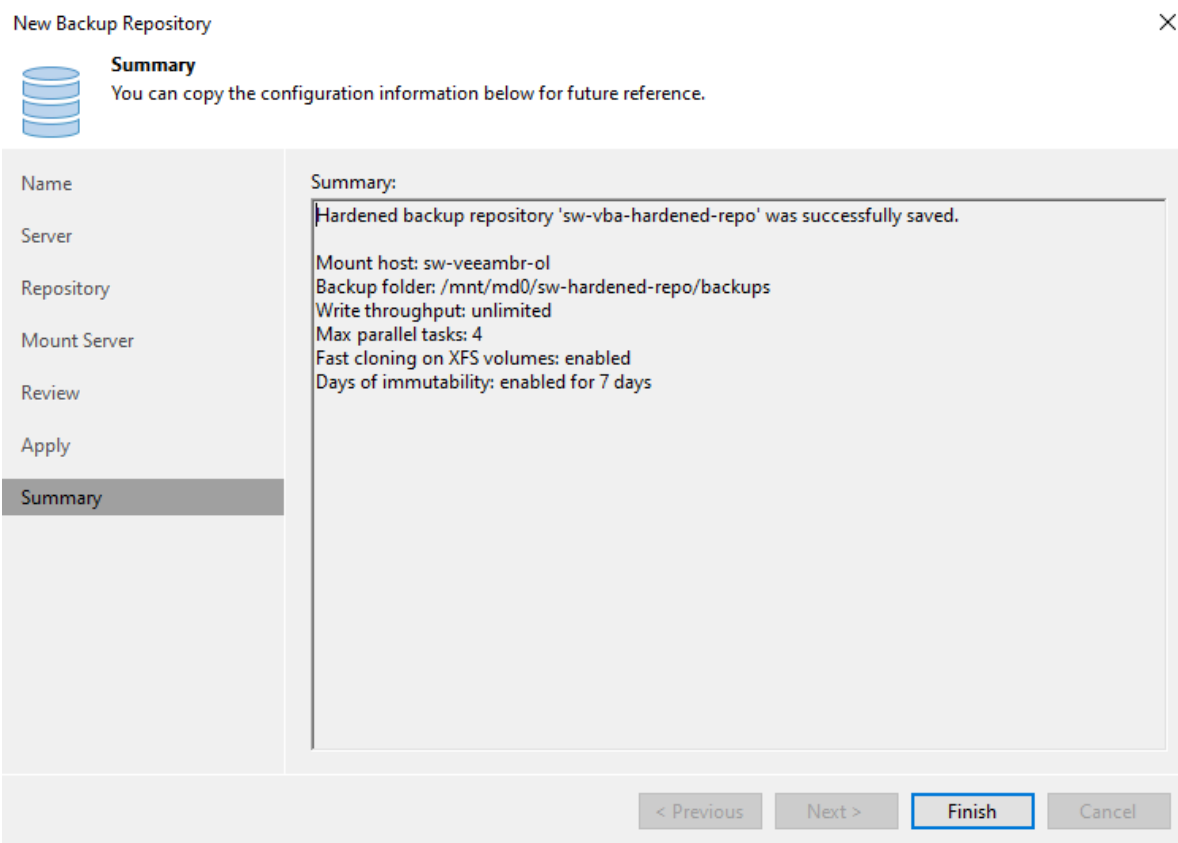


**Apply**

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

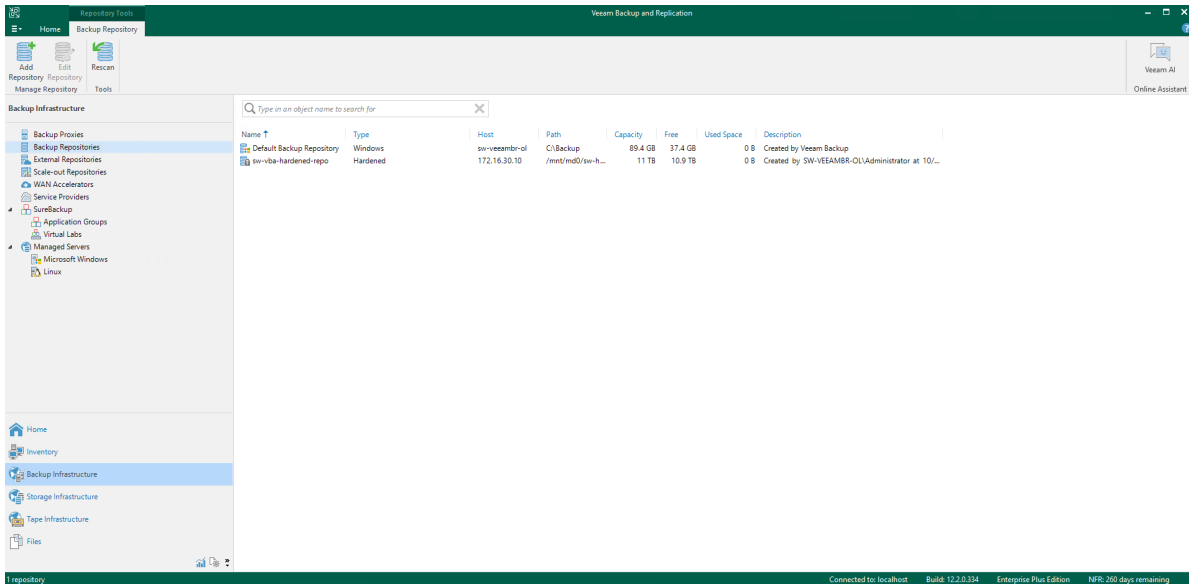
Name	Message	Duration
Server	Starting infrastructure item update process	0:00:02
Repository	Discovering installed packages	
Mount Server	Registering client sw-veeambr-ol for package vPower NFS	
Review	Registering client sw-veeambr-ol for package Mount Server	
<b>Apply</b>	Registering client sw-veeambr-ol 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”.

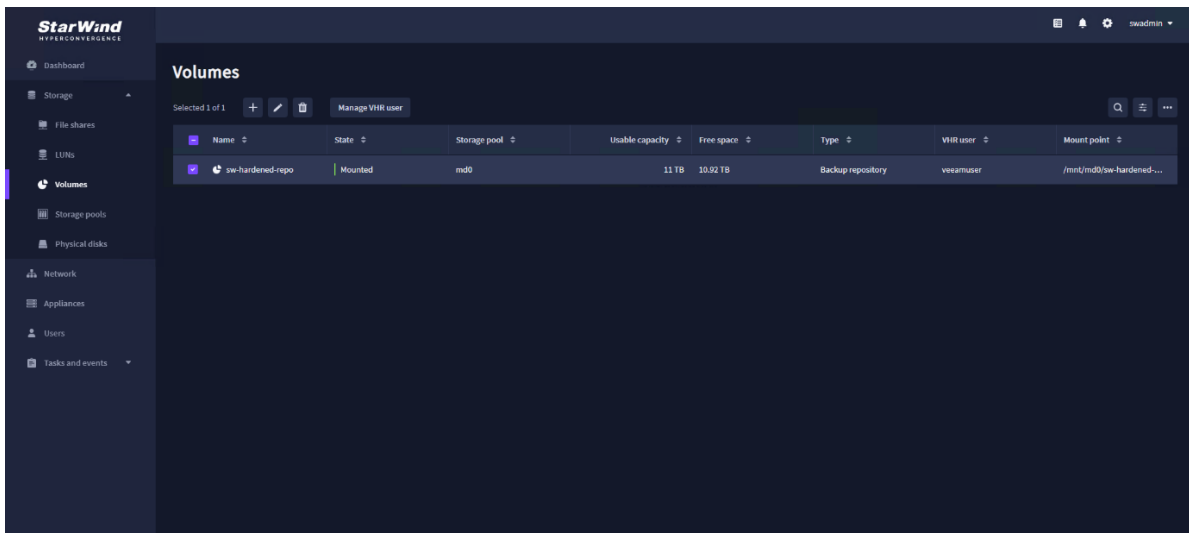


18. Veeam prompts whether you want to change the configuration backup location to the newly added repository. Select the preferred option according to your requirements.

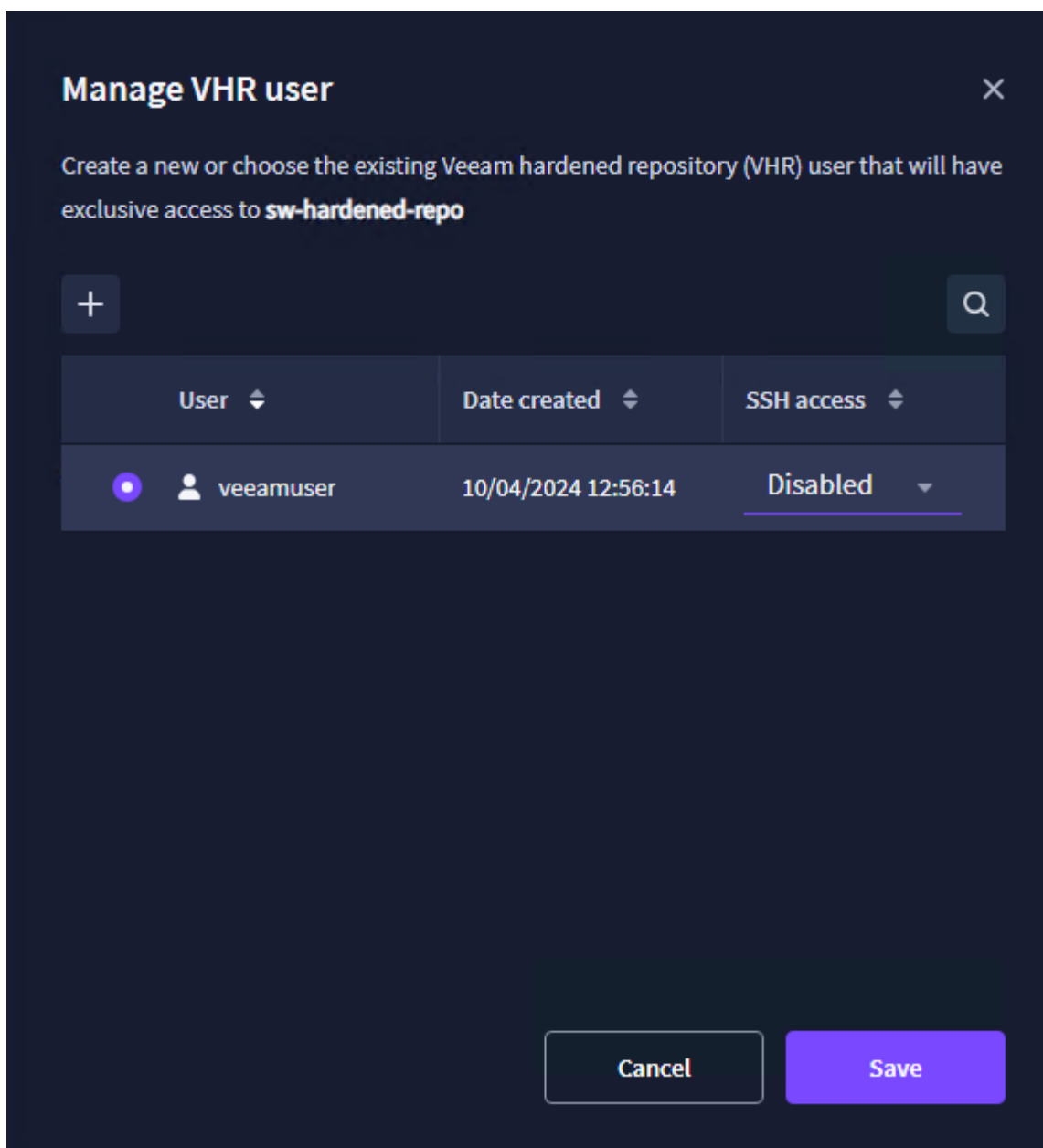
19. Hardened Repository has been successfully added to Veeam Backup & Replication.



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










21. Change SSH access to “Disabled” to secure the StarWind Appliance from potential local threats such as credentials theft. Click “Save”.



## Conclusion

Following this guide, Veeam Hardened Linux Repository has been configured in StarWind VBA installed on a Microsoft Hyper-V host and added to Veeam Backup & Replication. This guide also showed the steps on how to configure an iSCSI backup repository as well as NFS and SMB repositories for use with Veeam Backup & replication or other backup software.

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