

StarWind Virtual Backup Appliance: Configuration Guide for VMware vSphere [ESXi], 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 ESXi host and turns it into a modern and robust backup repository.

This document outlines how to configure the StarWind Virtual Backup Appliance (VBA) on VMware vSphere 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 VMware vSphere 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

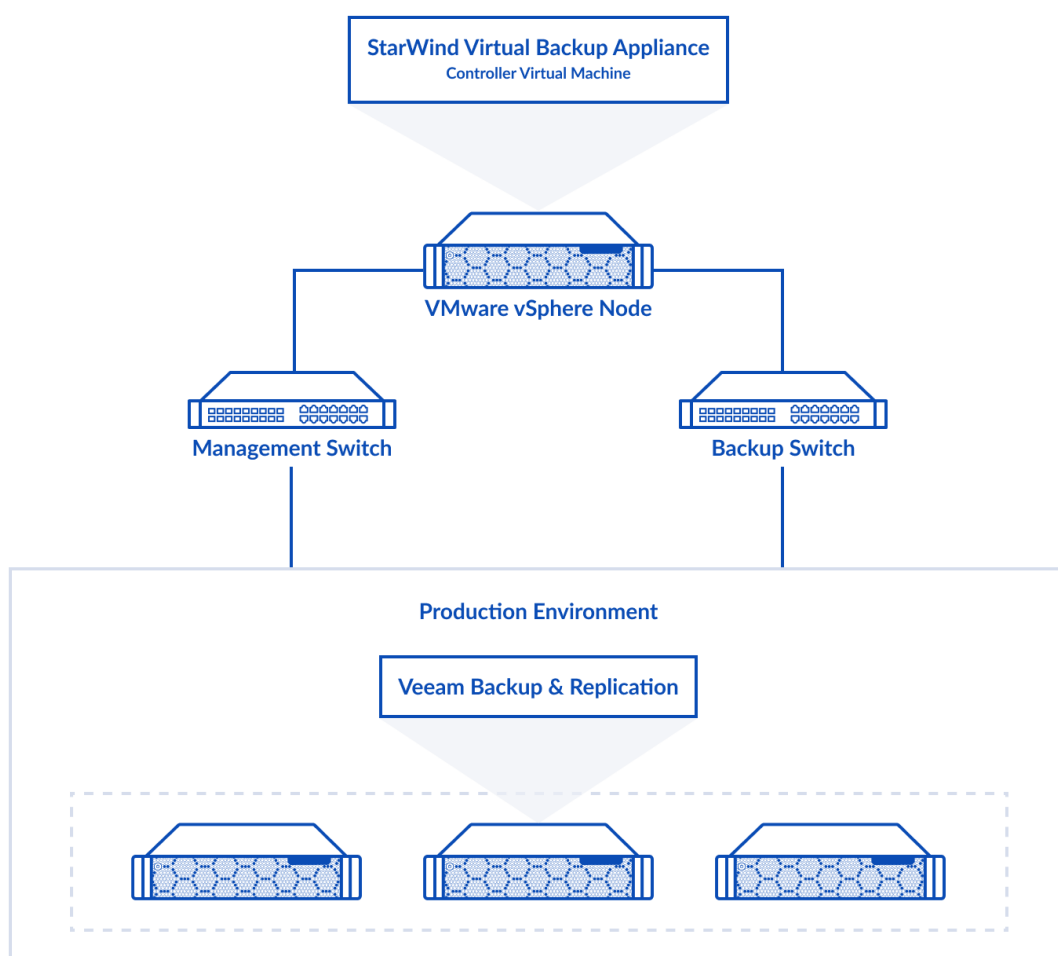
Check out the system requirements for StarWind solutions to ensure the promised performance and stability

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 VMware Vsphere Host

1. Using the VMware ESXi web console, create a standard vSwitch for Data (backup) traffic.

The screenshot shows the 'Add standard virtual switch - vSwitch-Data' configuration window. It includes the following fields and options:

- vSwitch Name:** vSwitch-Data
- MTU:** 9000
- Uplink 1:** vmnic2 - Up, 100000 Mbps
- Link discovery:** Click to expand
- Security:** Click to expand

Buttons for 'CANCEL' and 'ADD' are located at the bottom right.

2. Add a Virtual Machine Port Group on the vSwitch for Data (backup) traffic.

The screenshot shows the 'Add port group - Data' configuration window. It includes the following fields and options:

- Name:** Data
- VLAN ID:** 0
- Virtual switch:** vSwitch-Data
- Security:** Click to expand

Buttons for 'CANCEL' and 'ADD' are located at the bottom right.

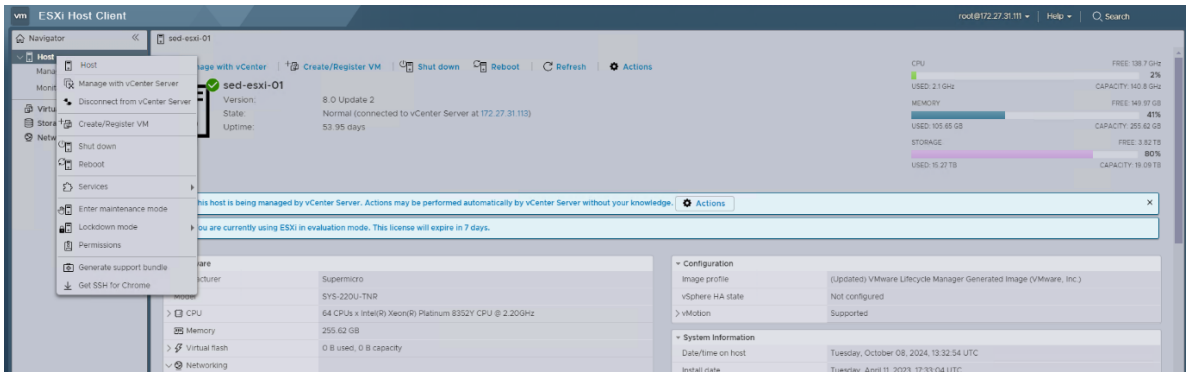
Deploying Starwind Virtual Backup Appliance

1. Download StarWind Virtual Backup Appliance zip

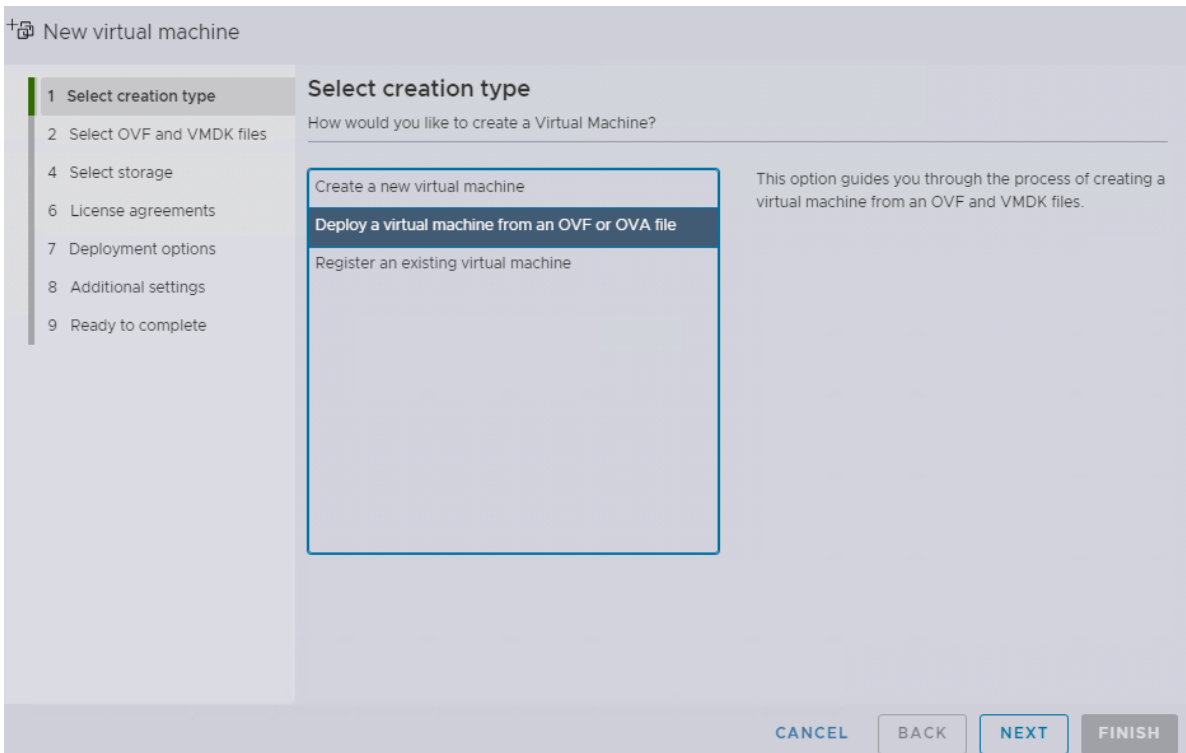
archive: <https://www.starwindsoftware.com/backup-appliance#download>

2. Extract the virtual machine files.

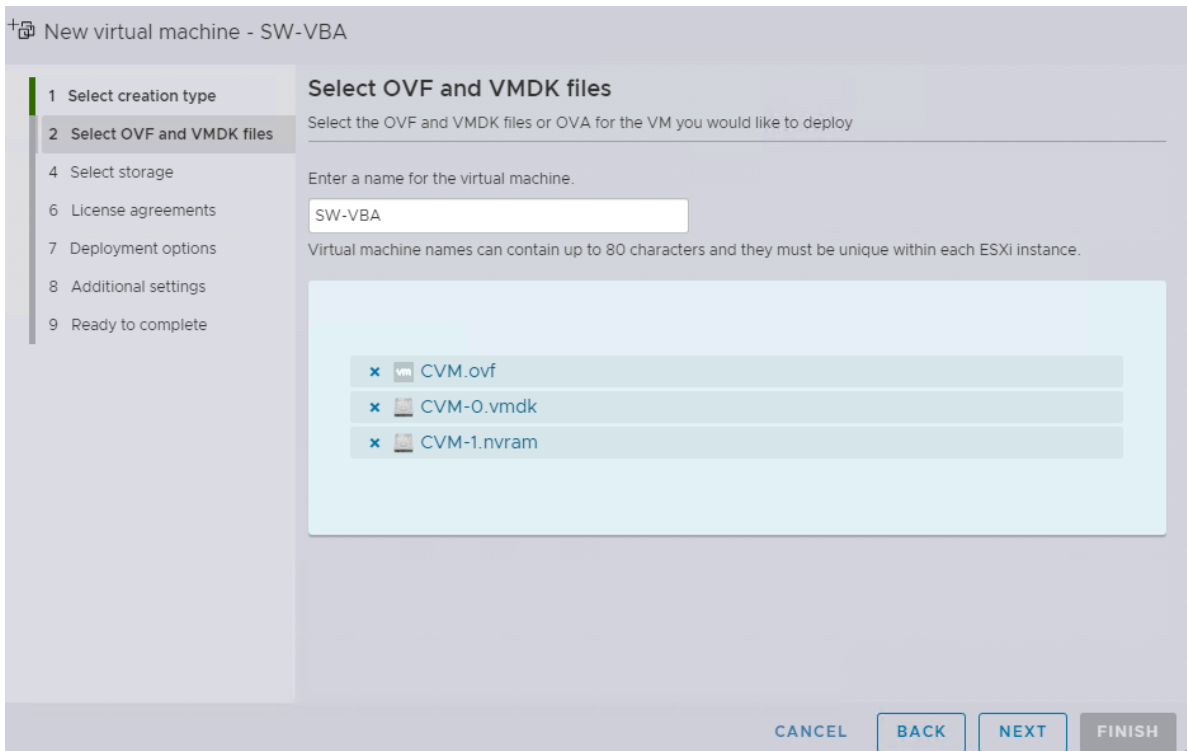
3. Deploy the controller virtual machine to the VMware vSphere. Right-click on the Host and select the “Create/Register VM” option from a drop-down menu.



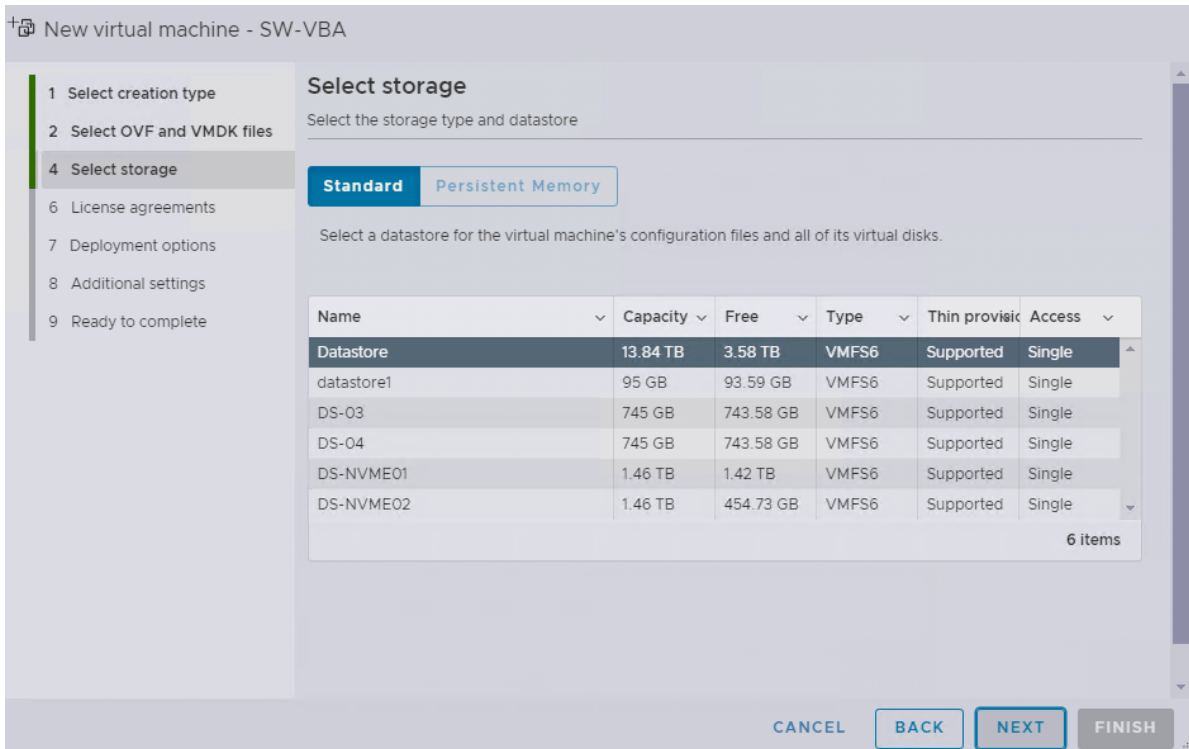
4. In the first step of the wizard, Select “Deploy a virtual machine from OF or OVA file” and click Next.



5. Specify the VM name and select the extracted VM files. Click Next.

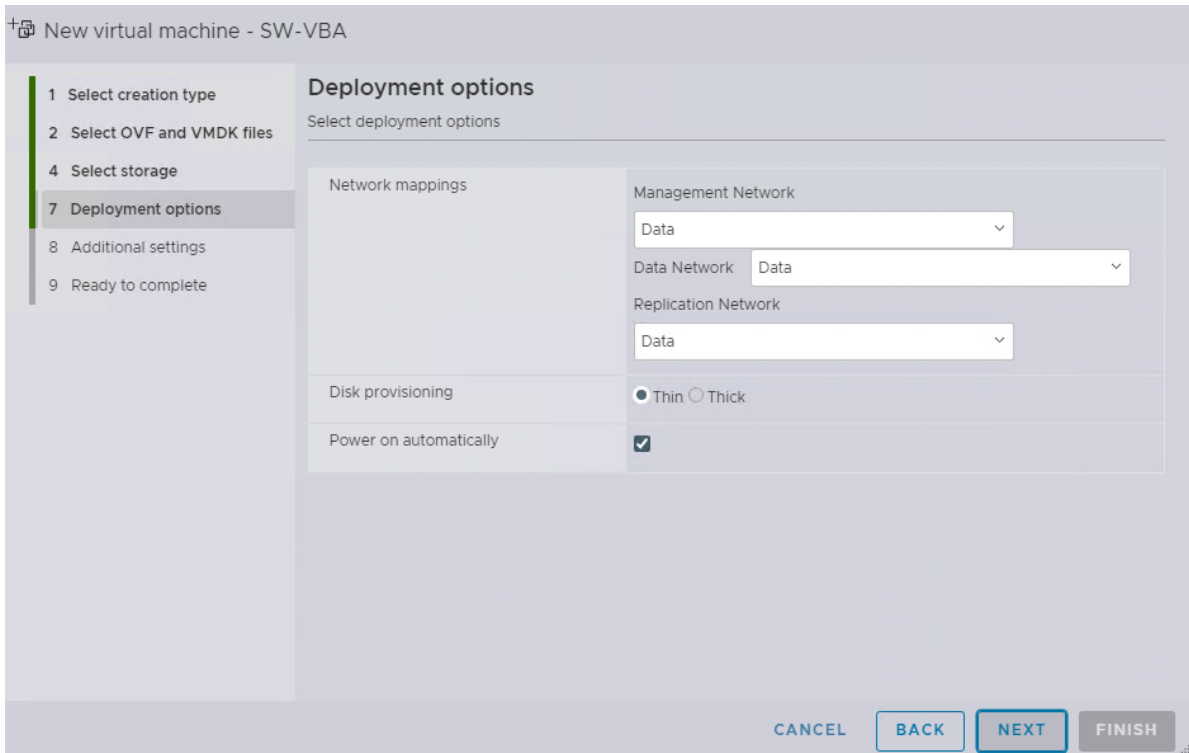


6. Select the storage type and Datastore for the VBA system drive and click Next.



7. Select the destination network for each network adapter assigned to the VM. Specify corresponding network connections according to your virtual network naming. Click Next.

NOTE: Replication Network is not required for VBA. You can select the same Data (backup) traffic network for it and remove after the installation.



8. Specify the static IPv4 address, gateway, DNS, and additional network settings for Management network interface. Check the “Enable SSH” checkbox. Click Next.

NOTE: if a DHCP server is available on the given network, you can skip setting the additional parameters for that interface.

New virtual machine - SW-VBA

- Select creation type
- Select OVF and VMDK files
- Select storage
- Deployment options
- Additional settings
- Ready to complete

Additional settings

Additional properties for the VM

Management interface network settings

IPv4 address for Management interface	172.27.31.64	i
IPv4 netmask for Management interface	255.255.255.0	i
IPv4 gateway for Management interface	172.27.31.10	i
DNS Server for Management interface	172.27.31.1	i

Enable additional services

Enable SSH	<input checked="" type="checkbox"/>	i
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CANCEL BACK NEXT FINISH

9. Review the deployment summary information and click Finish to start the VM creation.


New virtual machine - SW-VBA

- Select creation type
- Select OVF and VMDK files
- Select storage
- Deployment options
- Additional settings
- Ready to complete

Ready to complete

Review your settings selection before finishing the wizard

Product	StarWind Appliance
VM Name	SW-VBA
Files	CVM-0.vmdk CVM-1.nvram
Datastore	Datastore
Provisioning type	Thin
Network mappings	Management Network: Data, Data Network: Data, Replication Network: Data
Guest OS Name	Ubuntu Linux (64-bit)
> Properties	Click to expand

 Do not refresh your browser while this VM is being deployed.

CANCEL BACK NEXT FINISH

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...”



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](#)

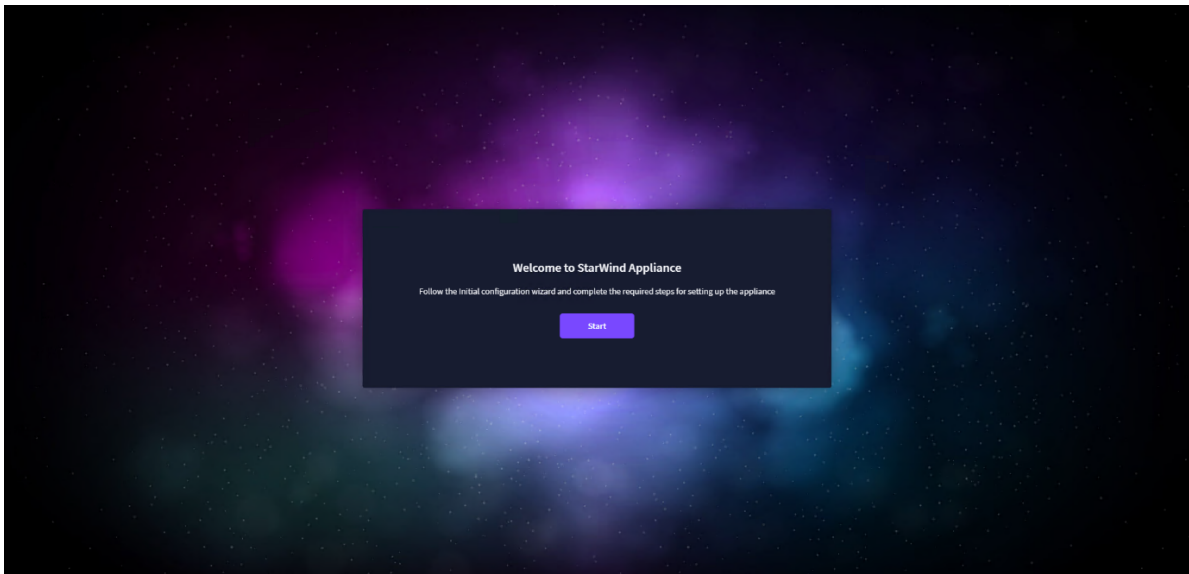
NET-ERR_CERT_AUTHORITY_INVALID

🔒 Turn on enhanced protection to get Chrome's highest level of security

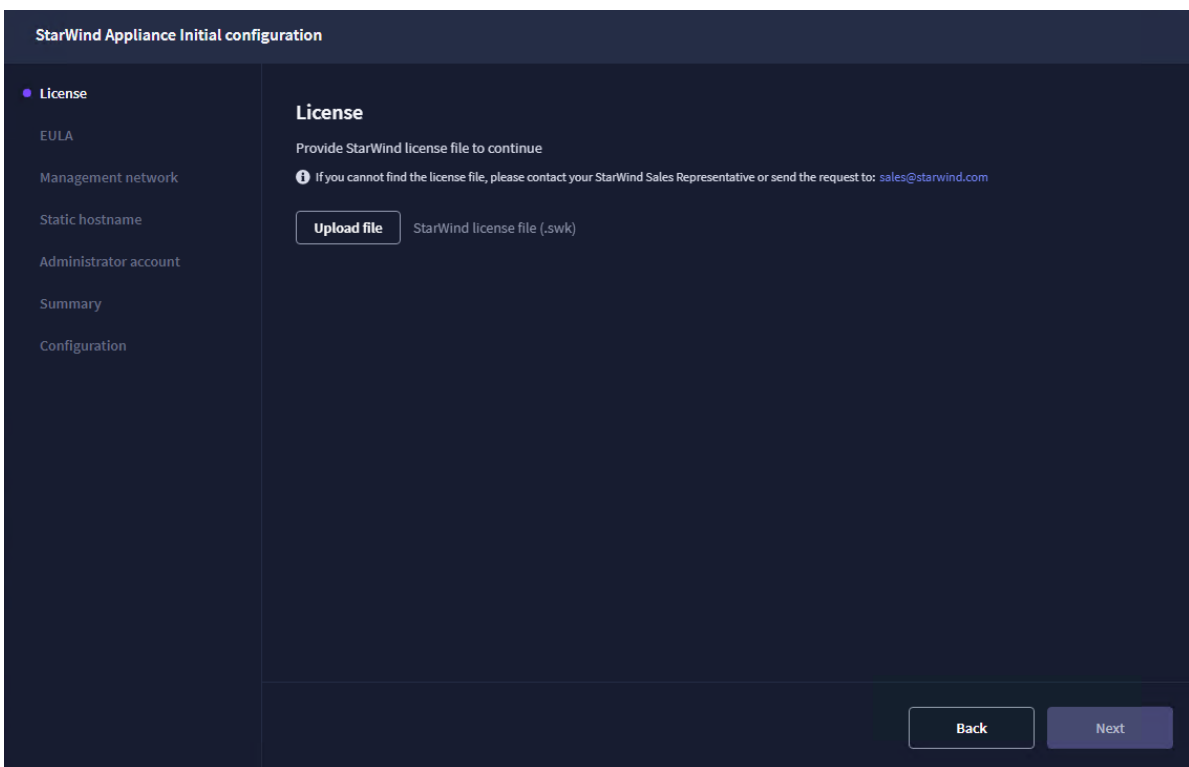
Advanced

Back to safety

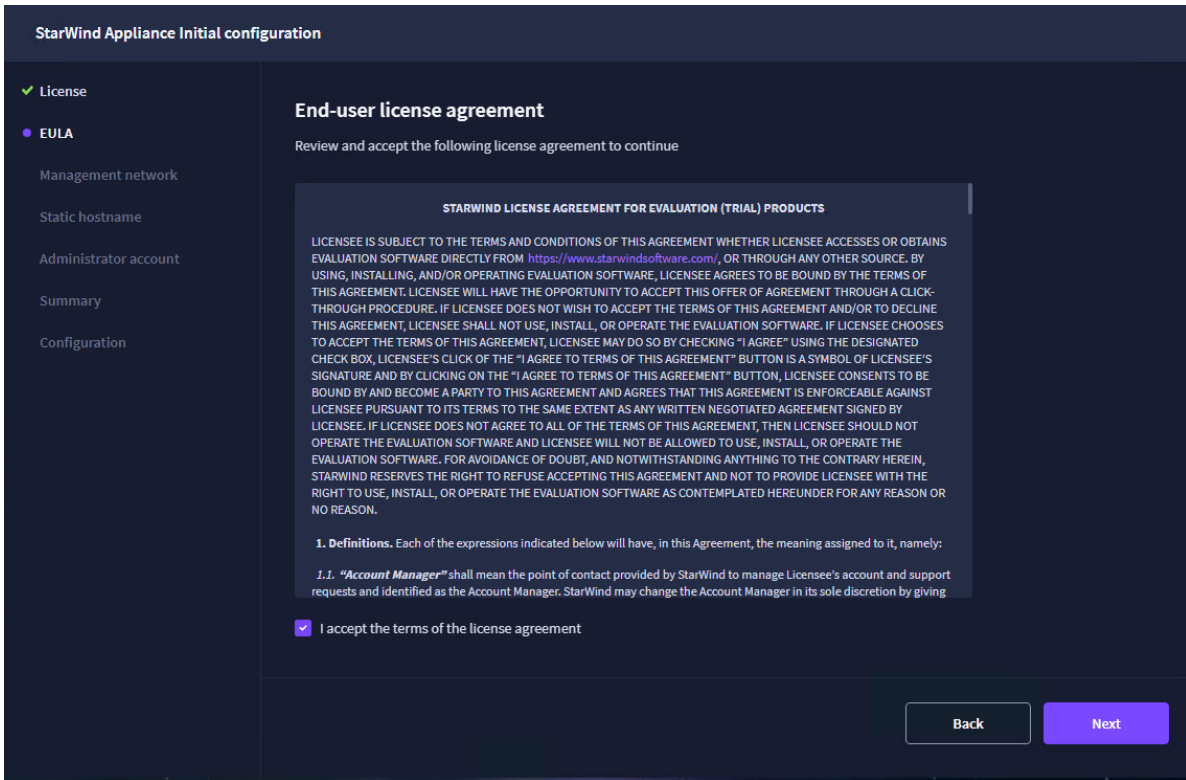
4. StarWind VBA web UI welcomes you, and the “Initial Configuration” wizard will guide you through the deployment process.



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.

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
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: Time zone: UTC

Separate servers with commas, a maximum of 3 servers

Back Next

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

StarWind Appliance Initial configuration

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

Static hostname

Set the current appliance hostname

i Use Latin letters, numbers, and dash

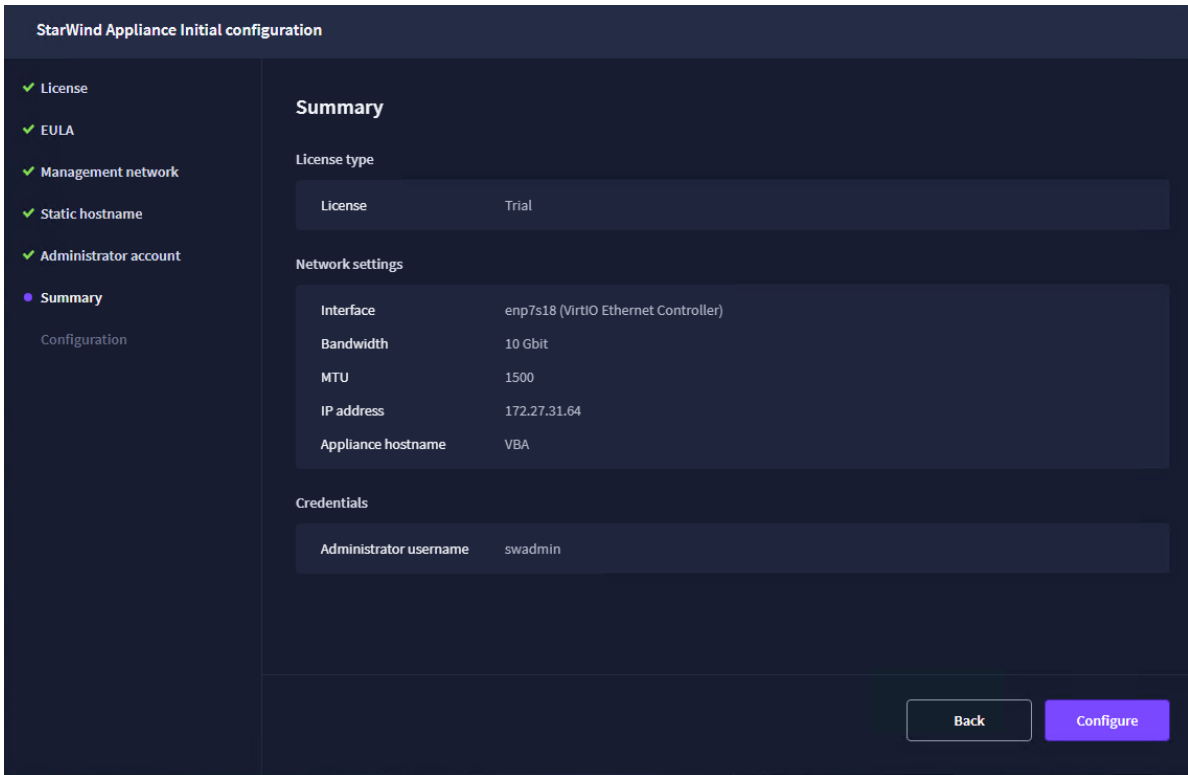
Hostname
VBA

Back Next

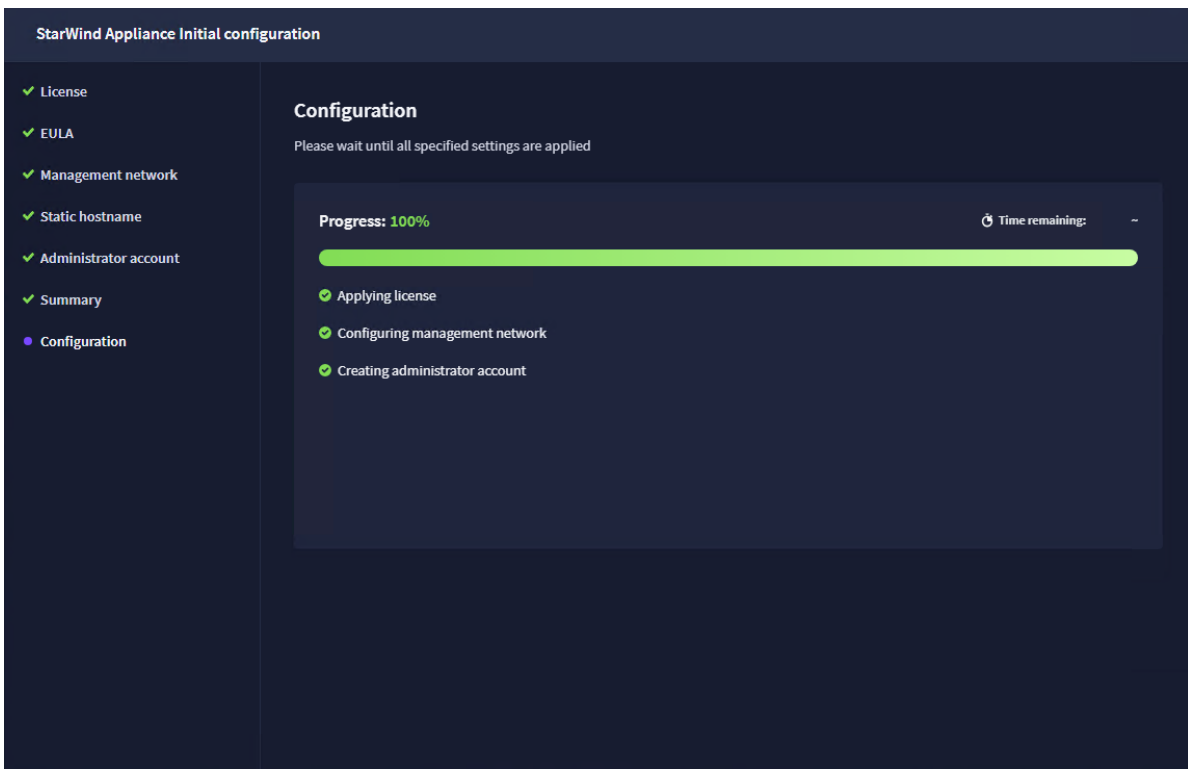
9. Create an administrator account. Click Next.

The image shows a screenshot of the 'StarWind Appliance Initial configuration' web interface. On the left, a sidebar lists configuration steps: License, EULA, Management network, Static hostname, Administrator account (selected), Summary, and Configuration. The main area is titled 'Administrator account' and contains the following fields: Username (swadmin), Password (masked with dots), Confirm password (masked with dots), Full name (optional), and E-mail (optional). At the bottom right, there are 'Back' and 'Next' buttons.

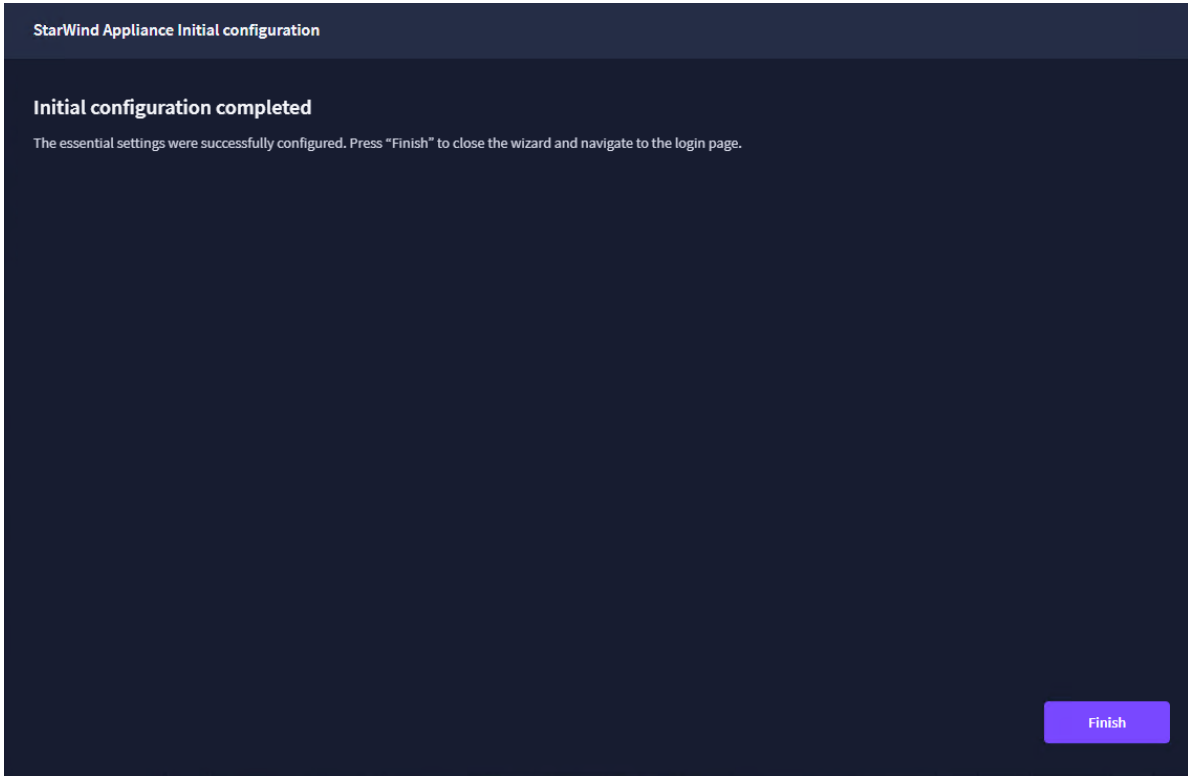
10. Review your settings selection before setting up StarWind VBA.



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

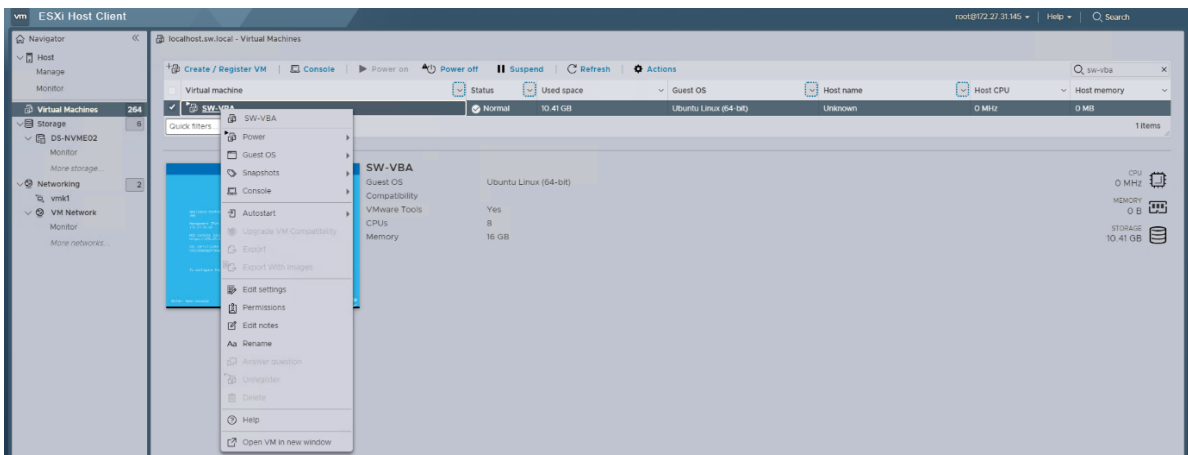


12. The appliance is set and ready. Click Finish to proceed to the Login page.

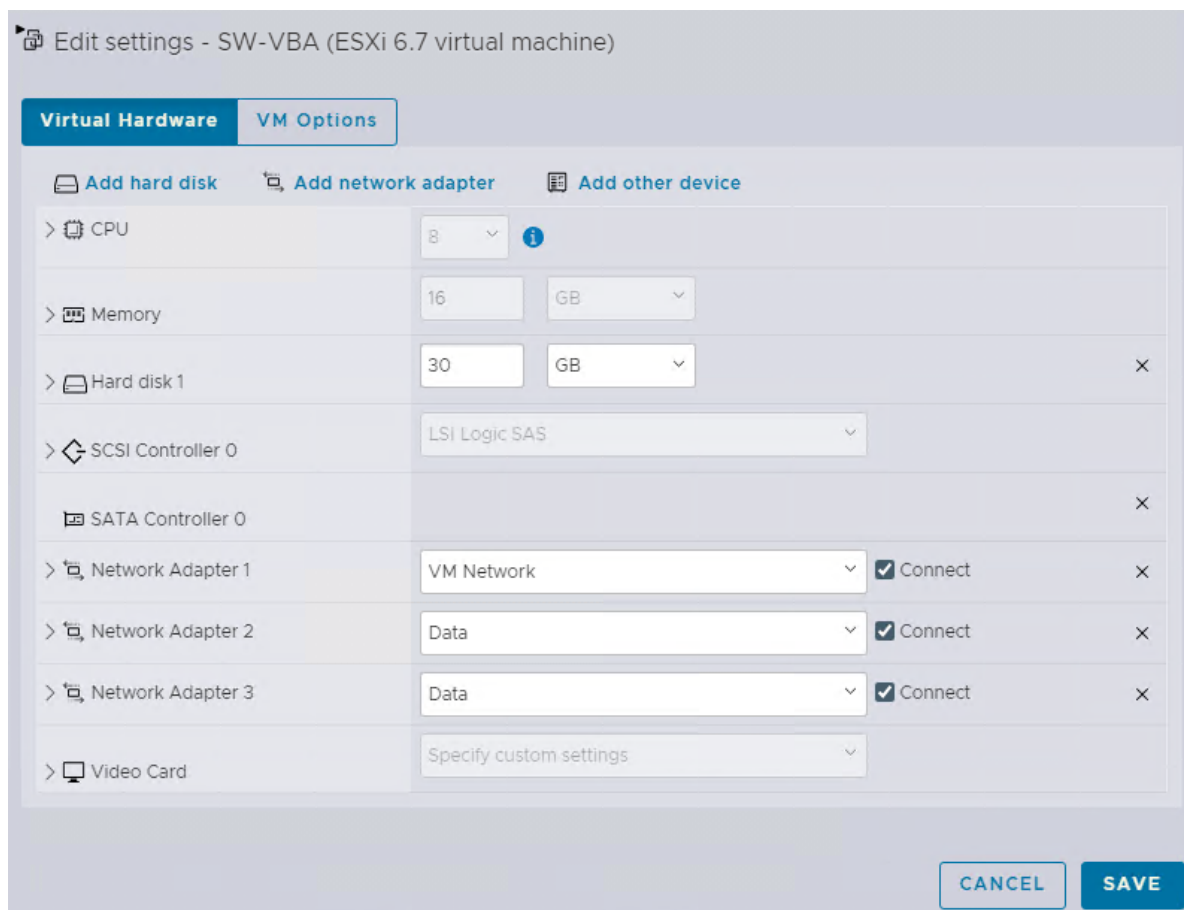


Configure Networking

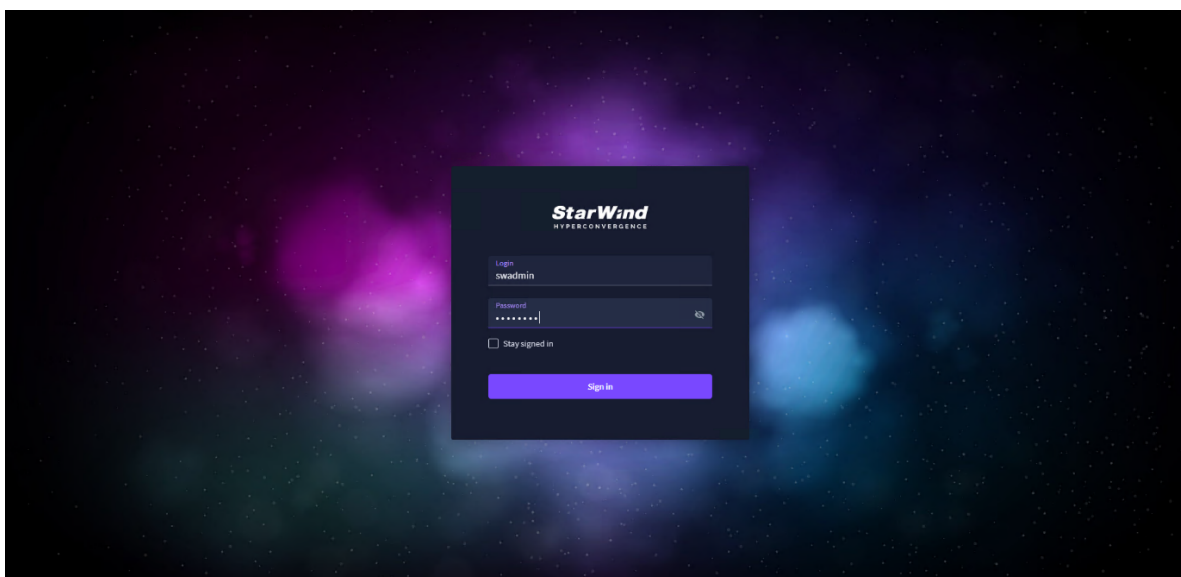
1. In ESXi WEB Console, select the recently created StarWind VBA VM, right-click it and Select "Edit settings".



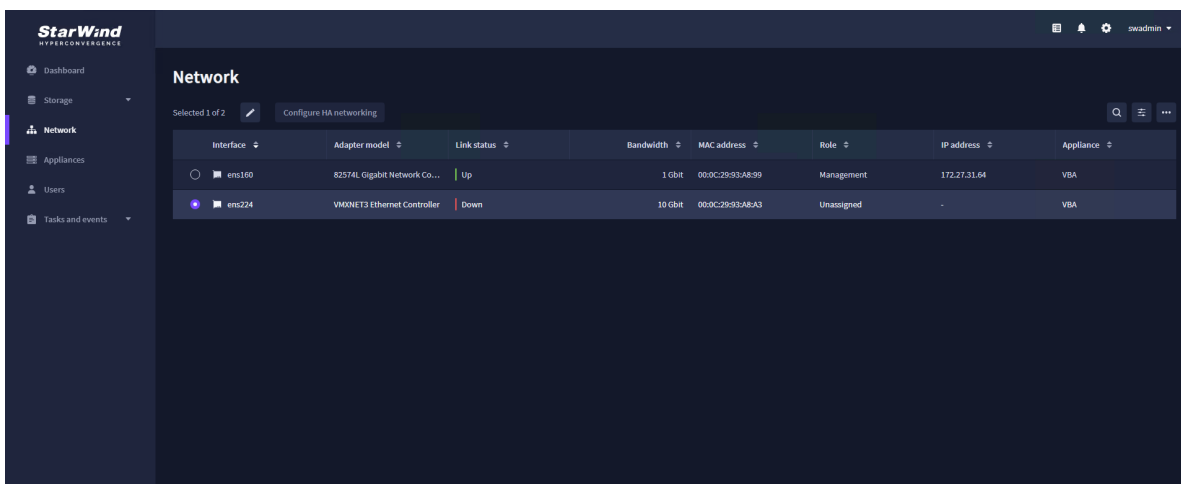
2. Remove the second Data network adapter and click Save.



3. Log in to the CVM WEB UI using the username and password specified during the initial configuration.



4. Navigate to the Network tab, select the network adapter that will be used for Data (Backup) traffic, and click the Edit icon.



5. 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 ✕

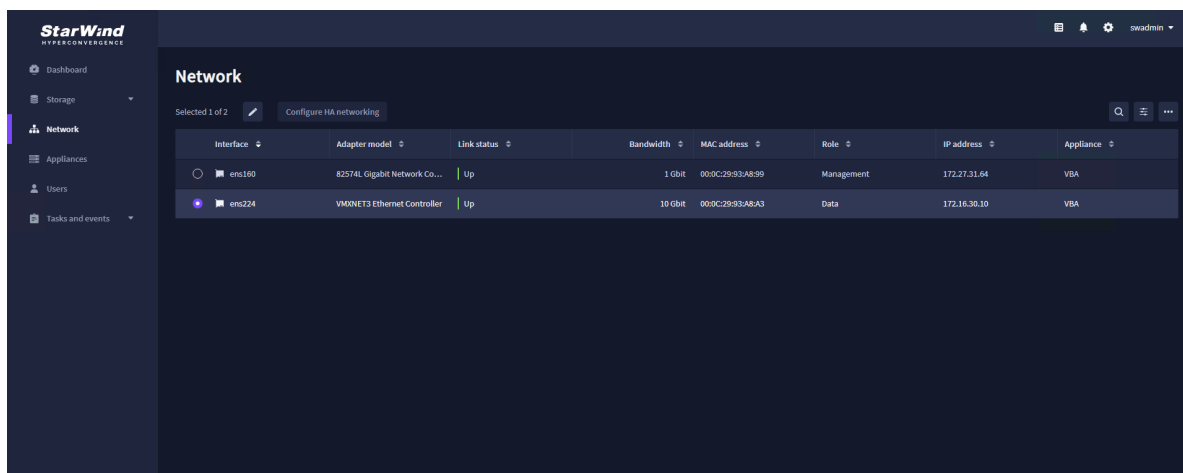
Name ens224	Adapter model VMXNET3 Ethernet Controller
Role Data	IP mode Static
IPv4 address 172.16.30.10 <small>e.g. 192.168.100.100</small>	Netmask 255.255.255.0 <small>e.g. 255.255.255.0 or CIDR notation (e.g. 24)</small>
Gateway <small>e.g. 192.168.100.1 or leave the settings empty</small>	DNS <small>Separate IP addresses with commas (,) or leave the settings empty</small>
MTU 9000 <small>The valid value in the range of 1500-9000</small>	

Disable network adapter

Connect automatically on boot

Cancel Save

6. 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:

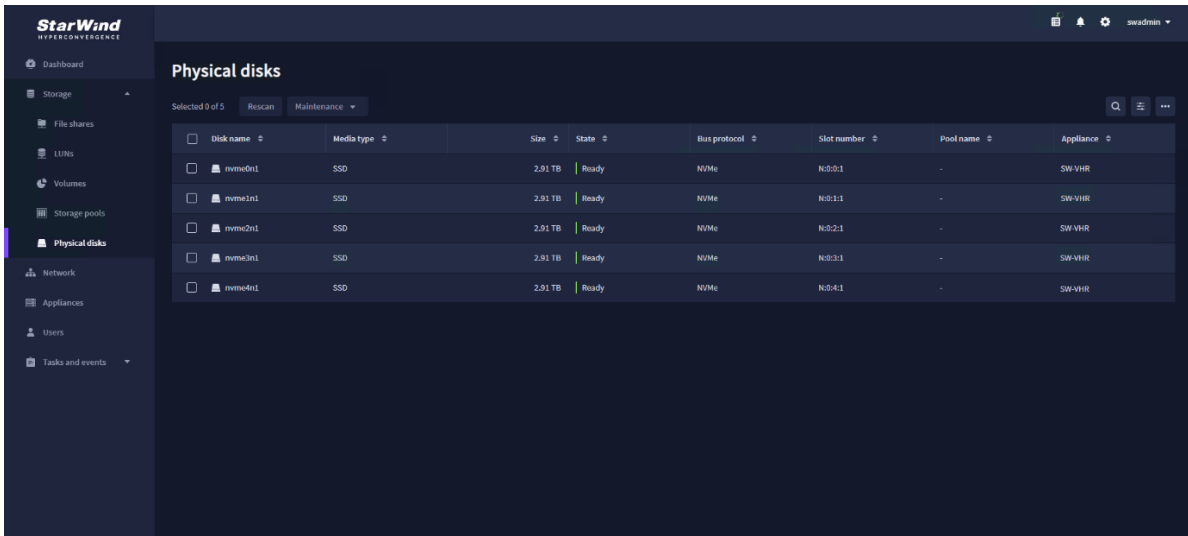
- Ensure that all physical drives are connected through an HBA or RAID controller.
- Add HBA, RAID controllers, or NVMe SSD drives to StarWind CVM via a passthrough device or add a virtual disk.

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.

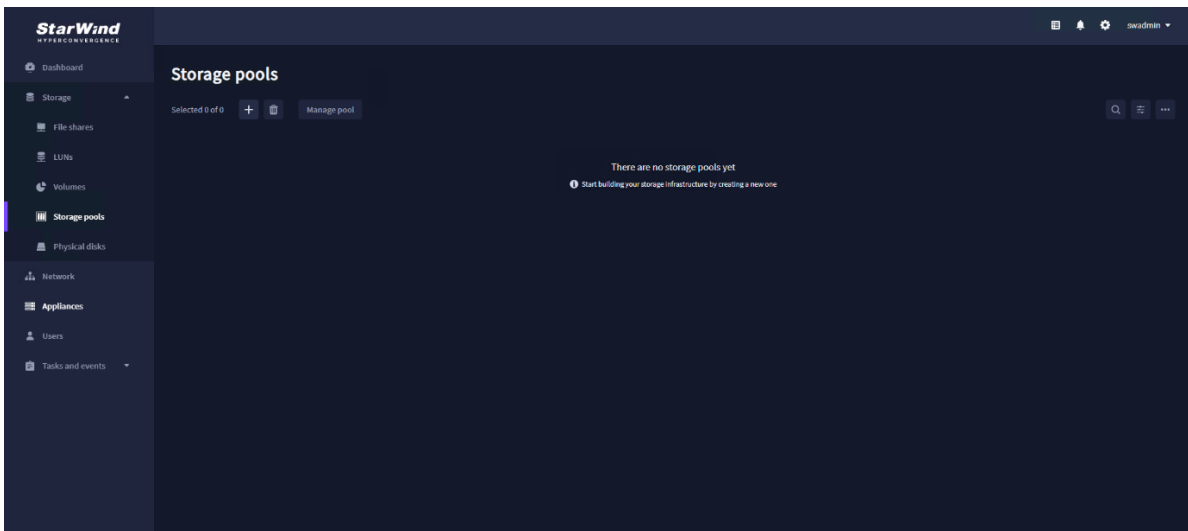
Create Storage Pool

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

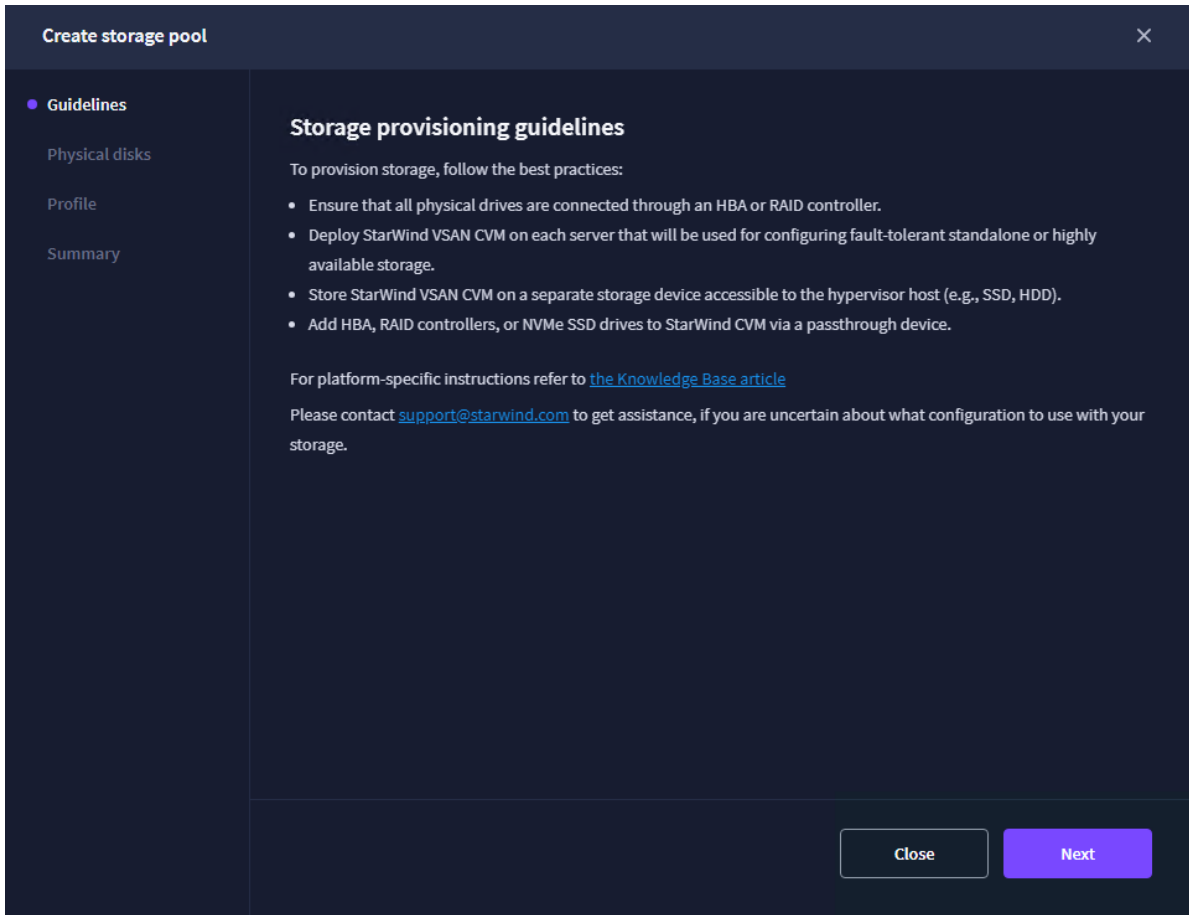


NOTE: StarWind x Veeam Hardened Backup Repository can use storage from a hardware RAID or create a Linux Software RAID or ZFS storage pools from the drives connected to an HBA controller. This guide uses Linux Software RAID as an example.

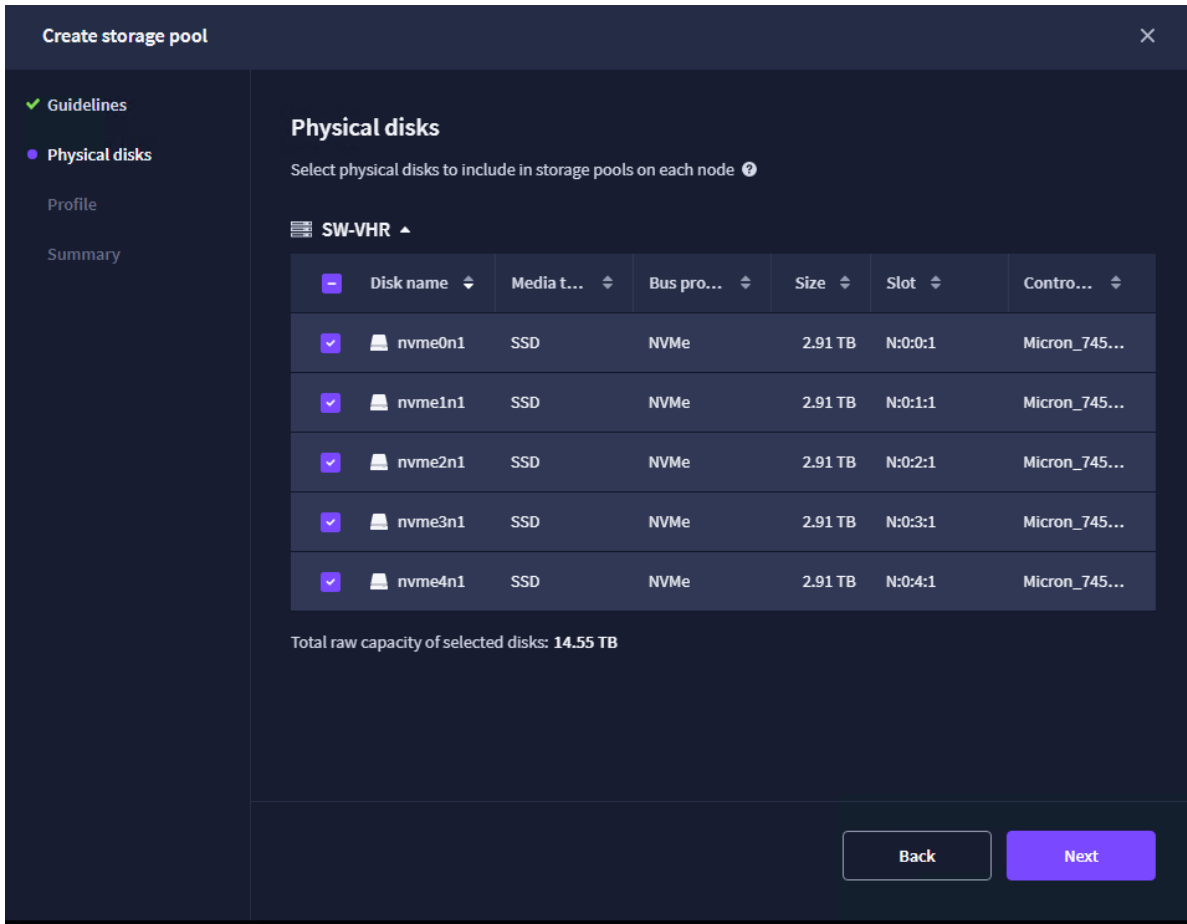
2. In the Storage tab, navigate to the Storage pools and click the “+” sign.



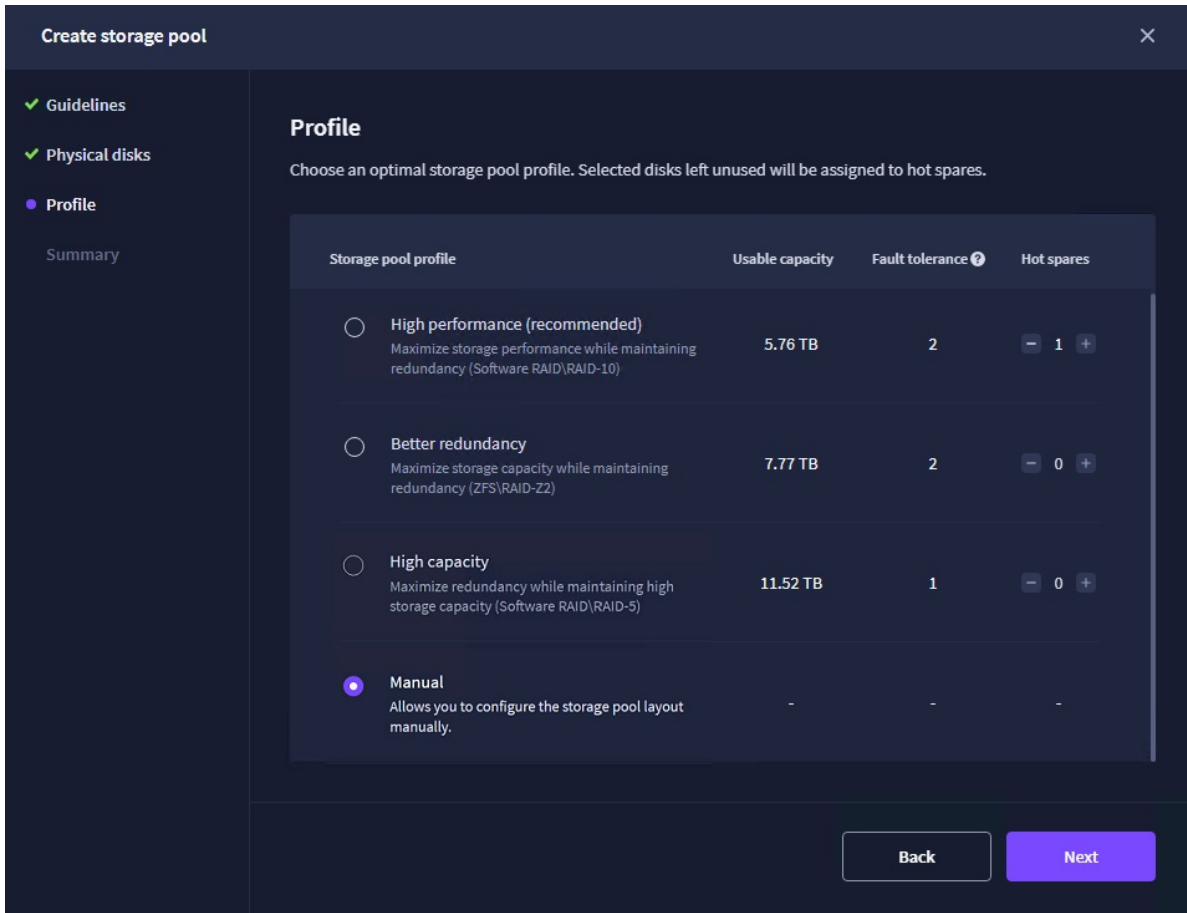
3. Verify the prerequisites and click Next.



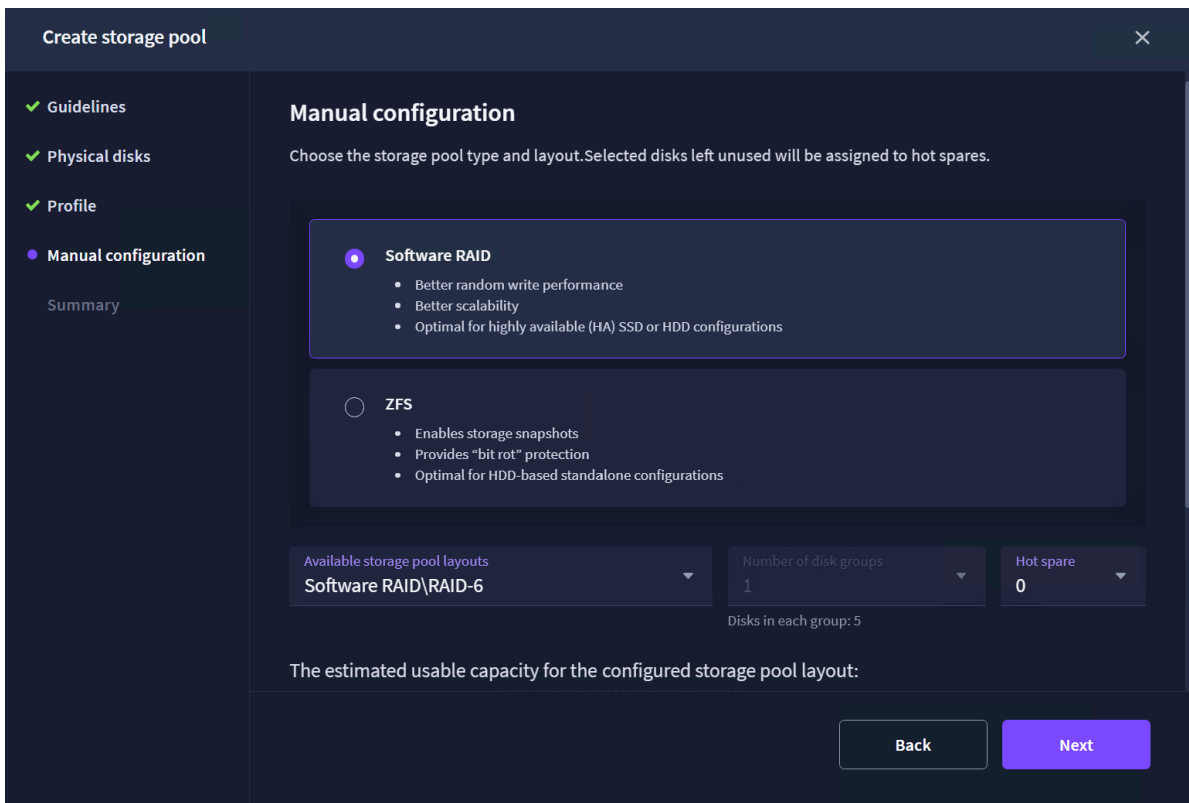
4. Select the drives to create a Linux Software RAID and click Next.



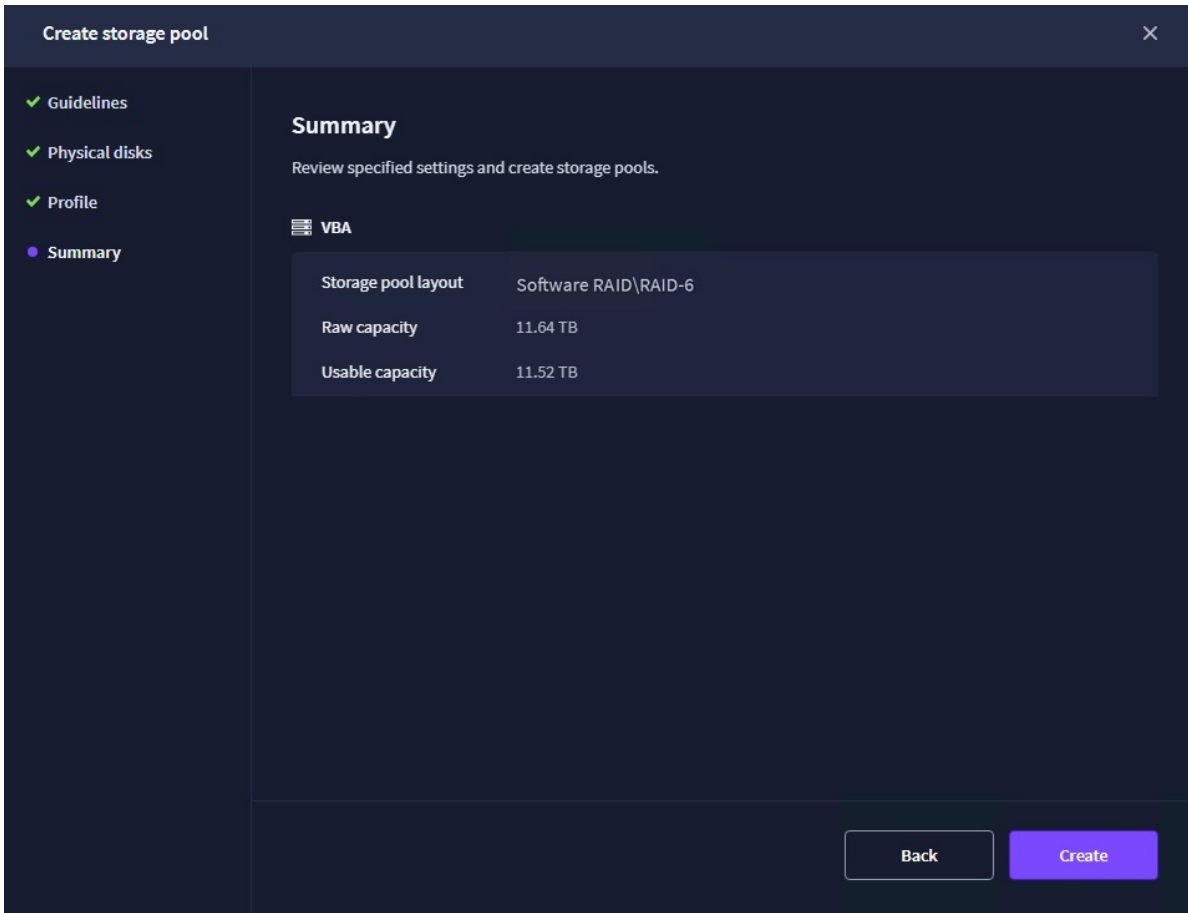
5. Select one of the preconfigured storage profiles or create a redundancy layout for the new storage pool manually according to your redundancy, capacity, and performance requirements. Software RAID-6 is highly recommended. To configure it, select Manual and click Next.



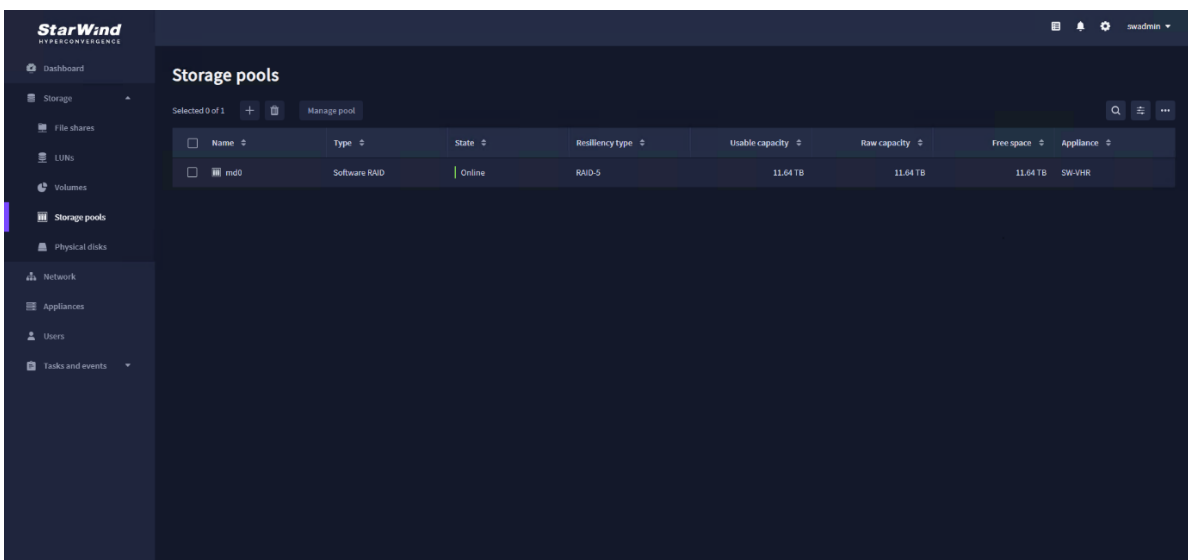
6. Select Software RAID and then select Software RAID\RAID-6 from the Available storage pool layouts. Click Next.



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.



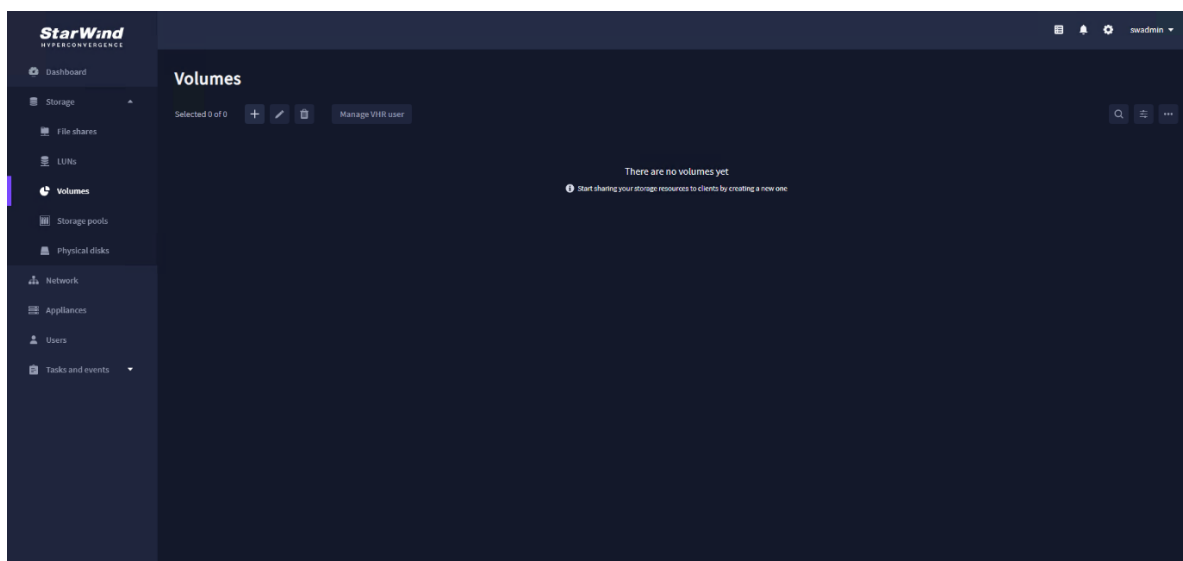
Create Backup Repository

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.

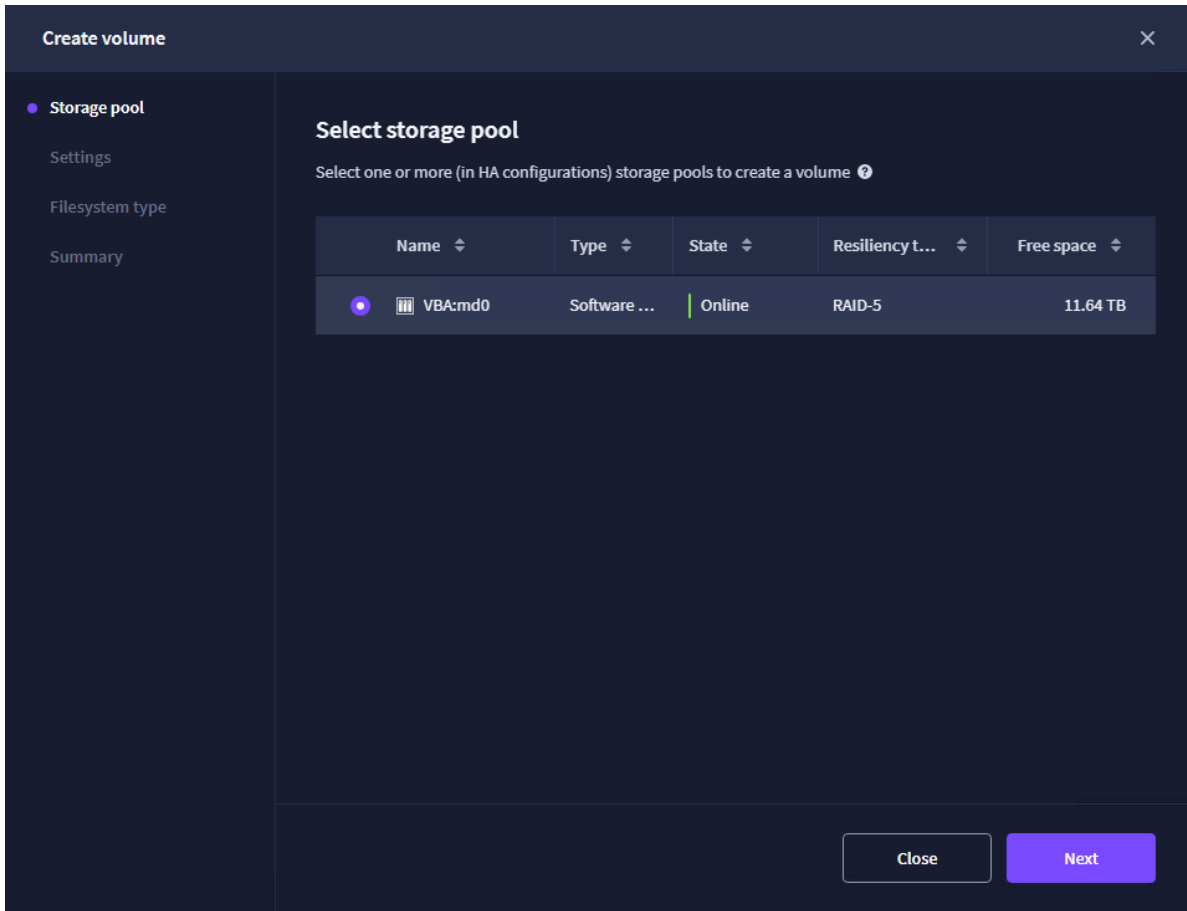
NOTE. Hardened Repository ensures immutability only when used with Veeam Backup & Replication.

Hardened Repository For Veeam Backup & Replication

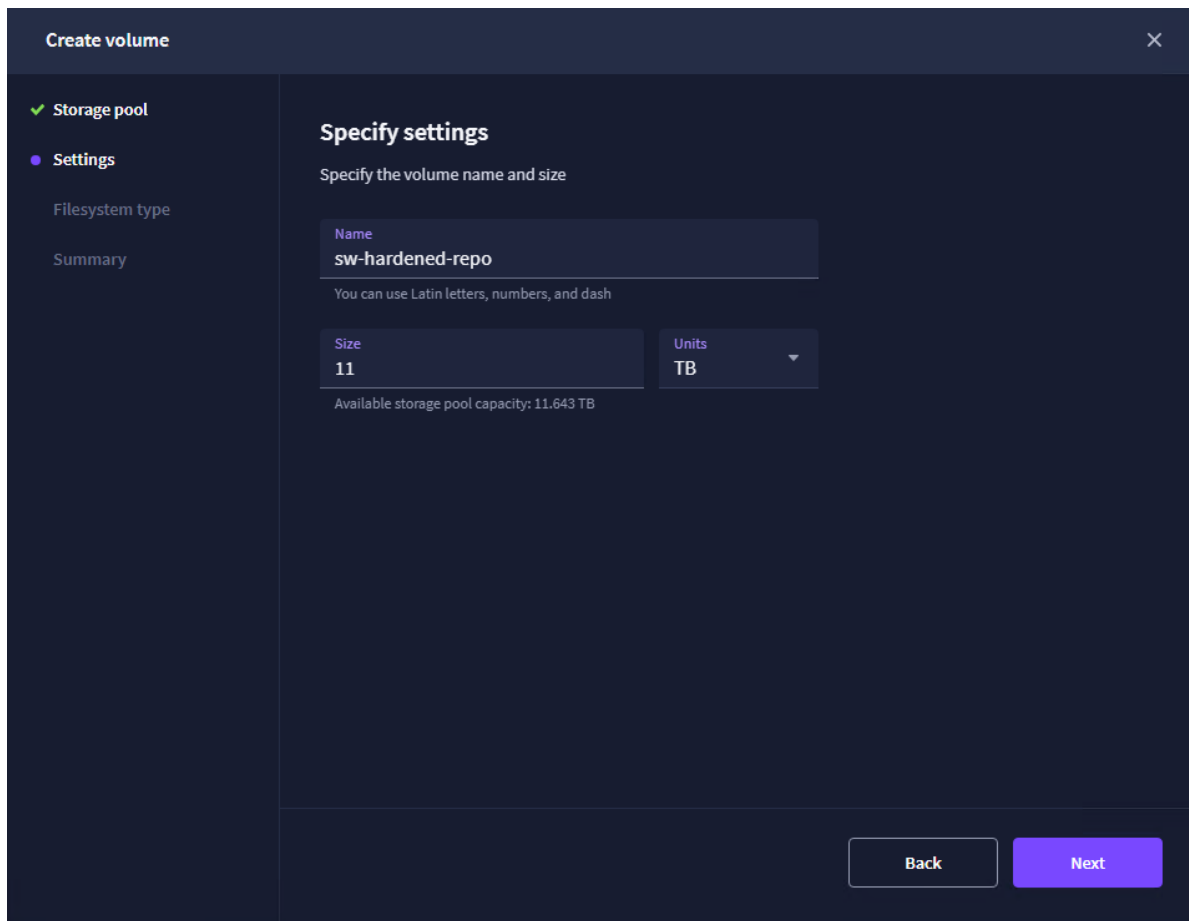
1. Navigate to the “Volumes” tab and click the “+” button to open the “Create volume” wizard.



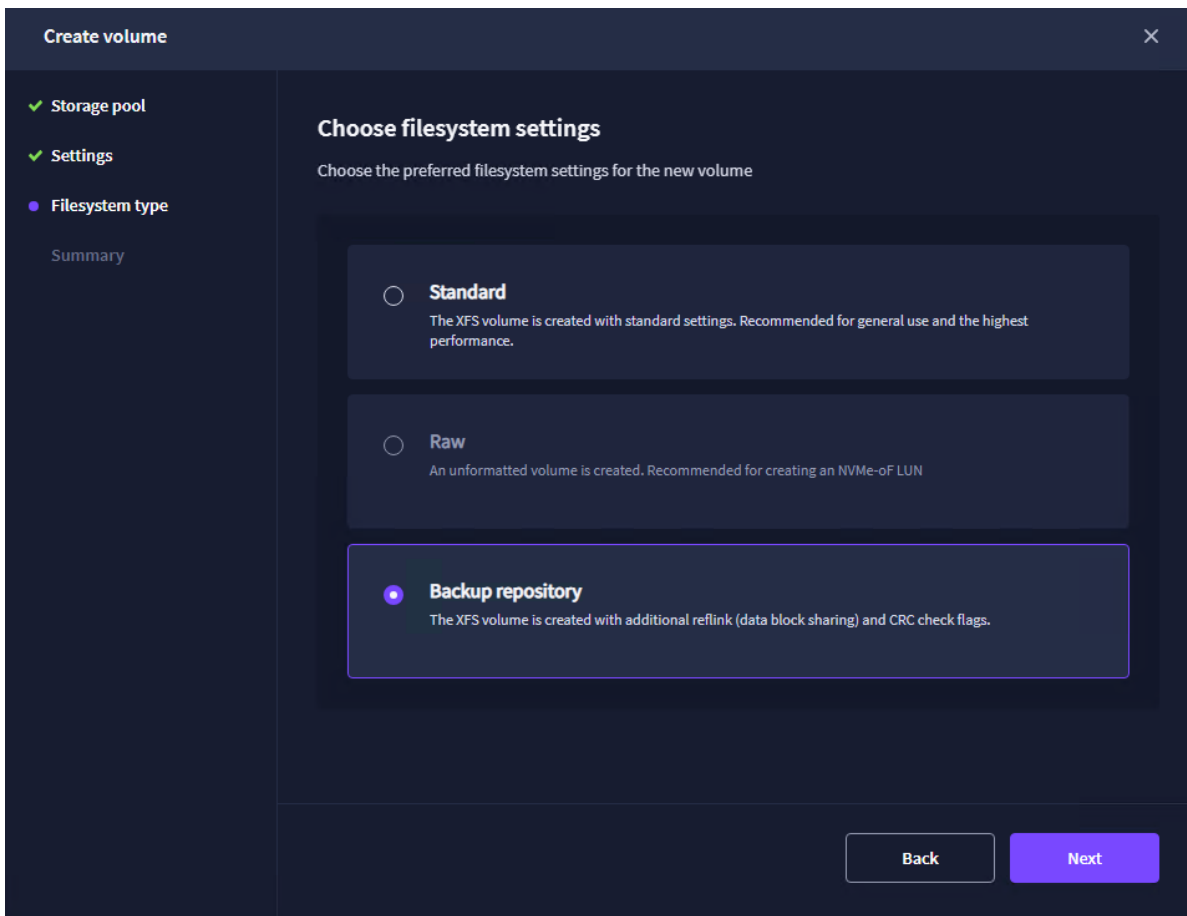
2. Select the storage pool that will be used for a new volume and click Next.



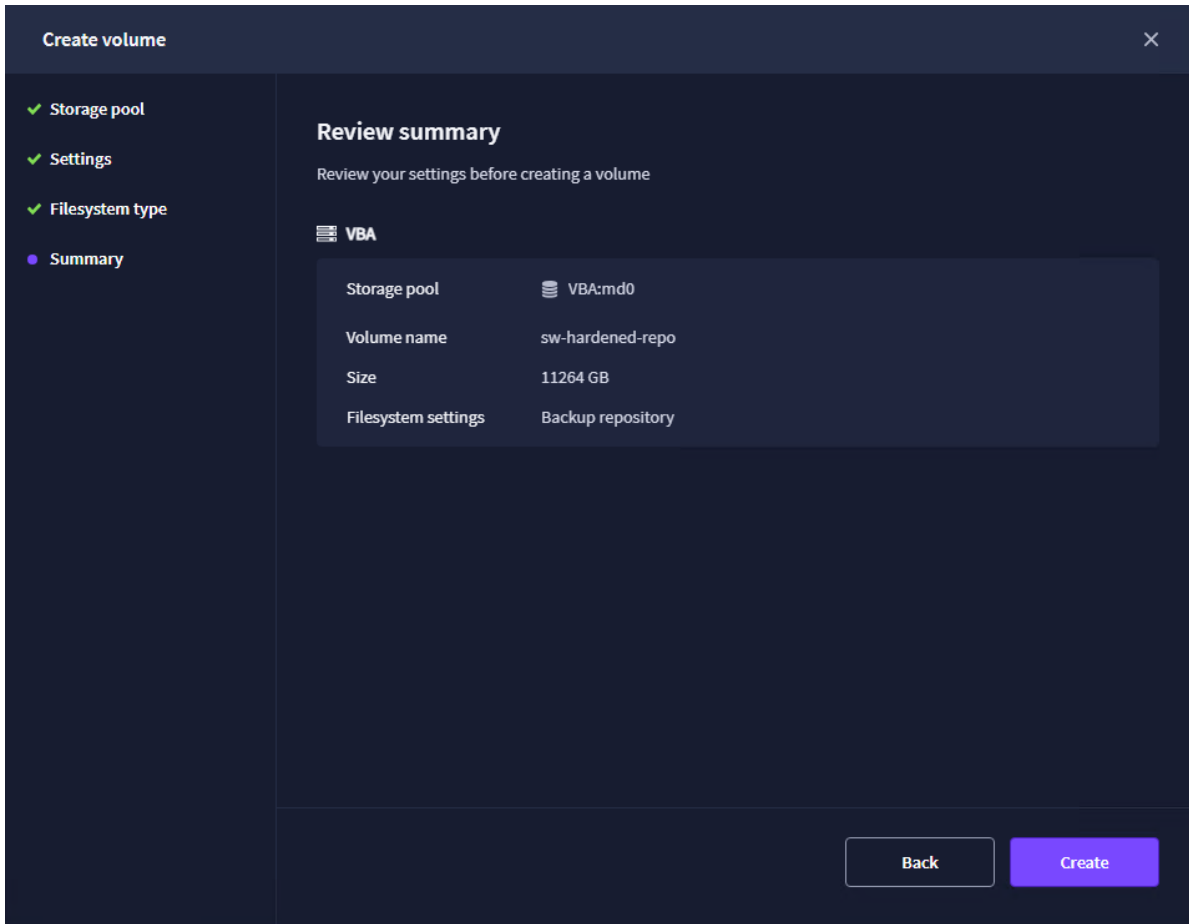
3. Specify the volume name and capacity. Click Next.



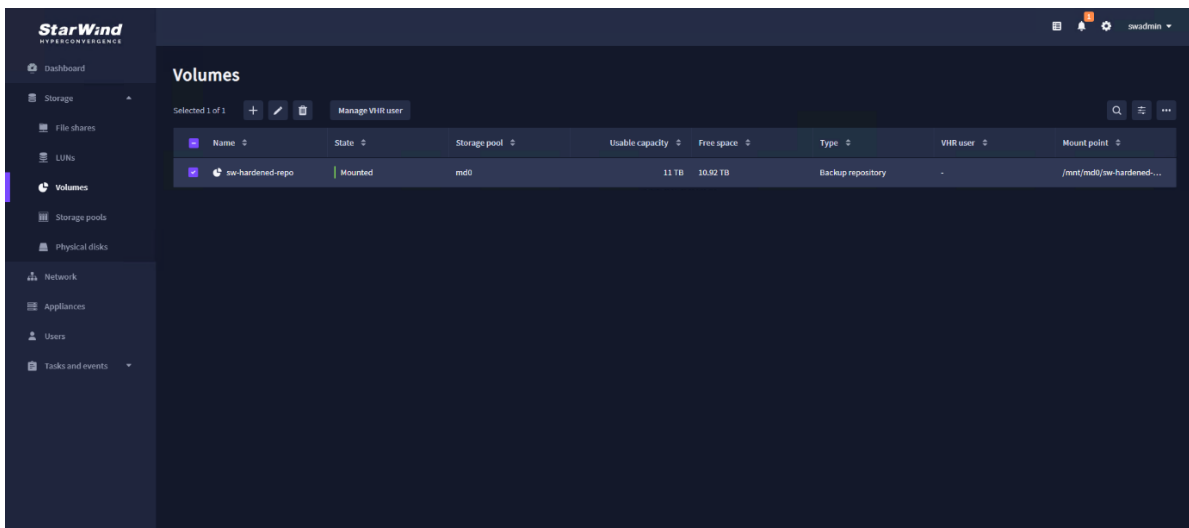
4. Select the “Backup repository” volume type and click Next. Backup repository volume type has been specifically designed for use with Veeam Backup & Replication.



5. Review Summary and click Create.

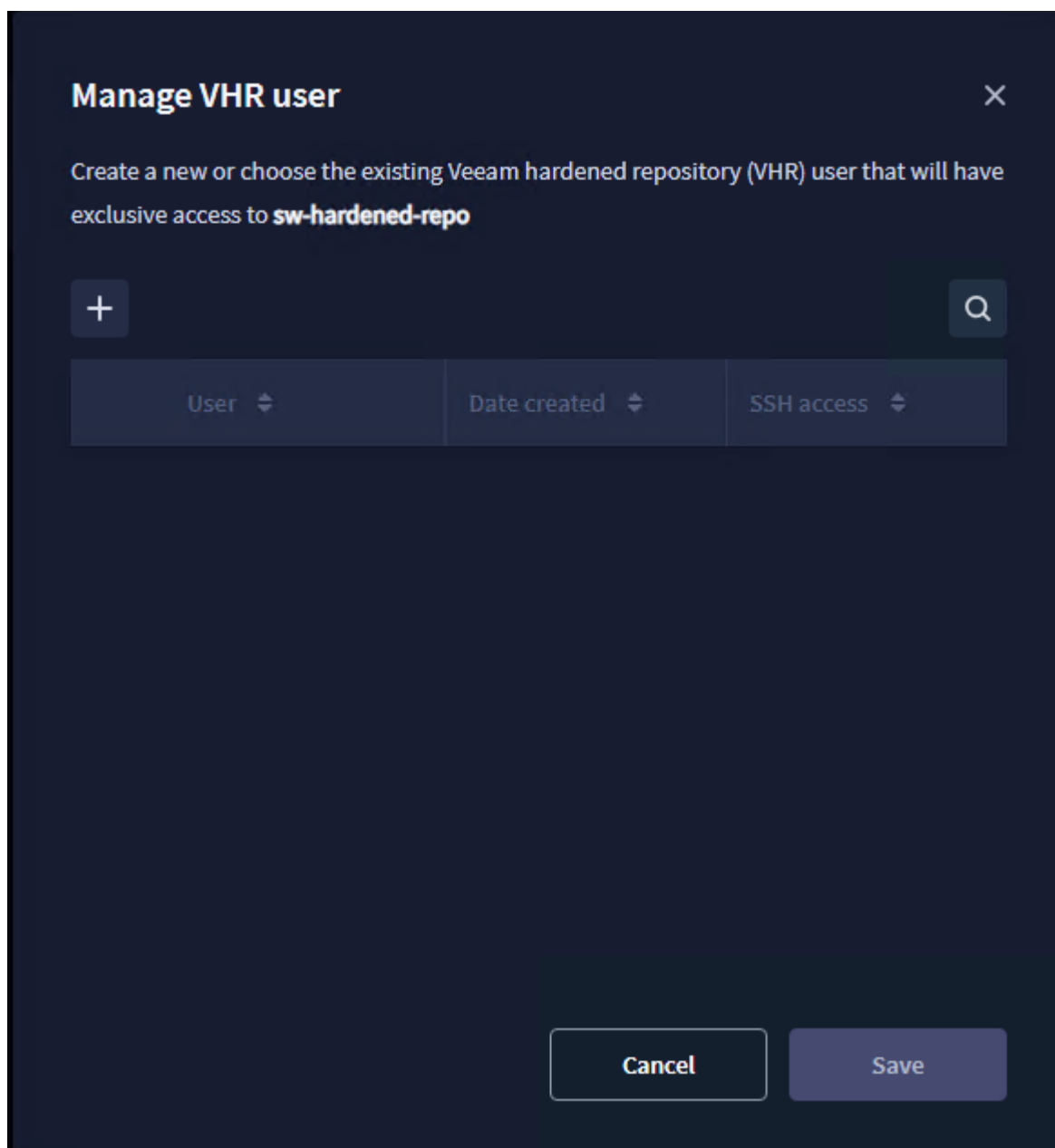


6. Select the recently created Volume and click “Manage VHR user”. This will create a dedicated Veeam Hardened Repository user with limited permissions for the selected volume.



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

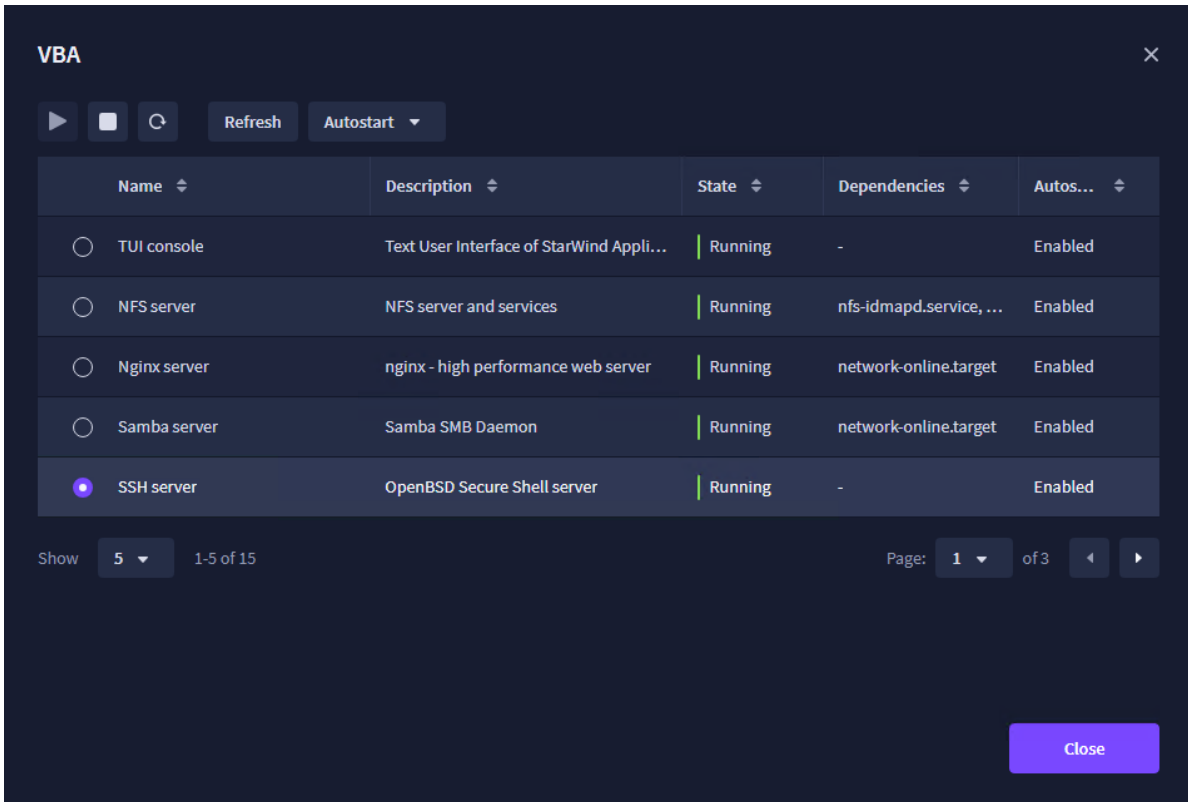
Password
•••••••• ⓘ
Must contain 8-64 characters, including numbers, symbols and capital letter

Enable SSH for this user

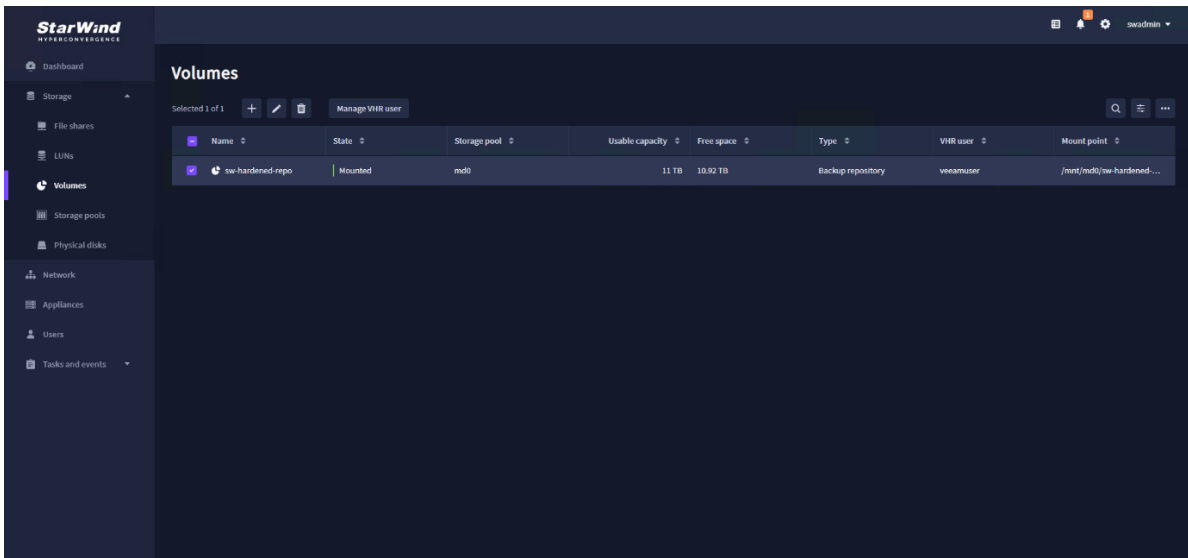
i Disable SSH after adding the host and creating the hardened repository in the Veeam Backup & Replication console.

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.

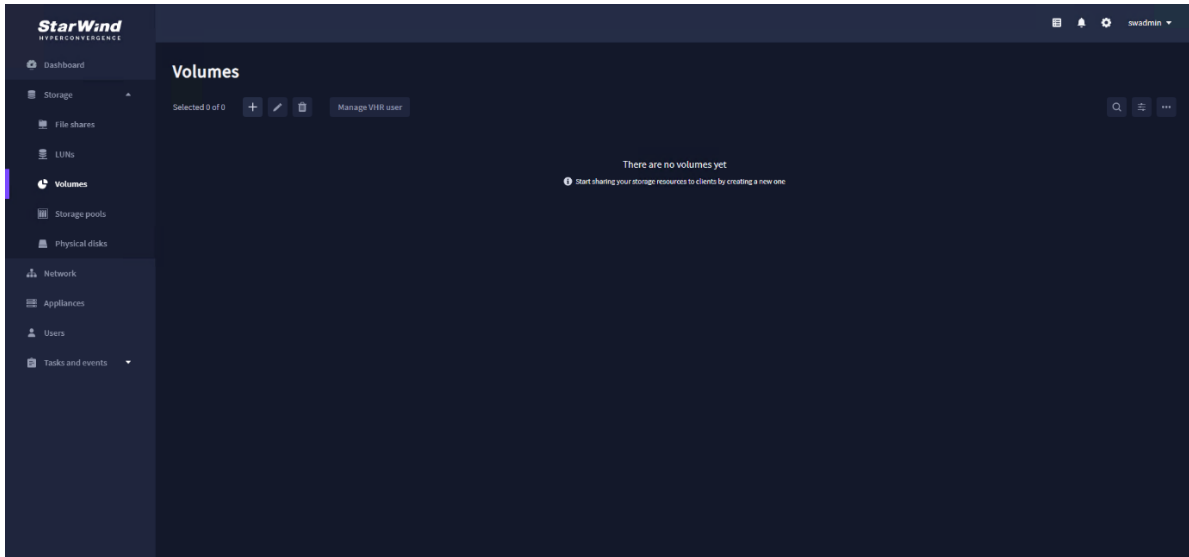


10. The recently created VHR user has been assigned to the volume.

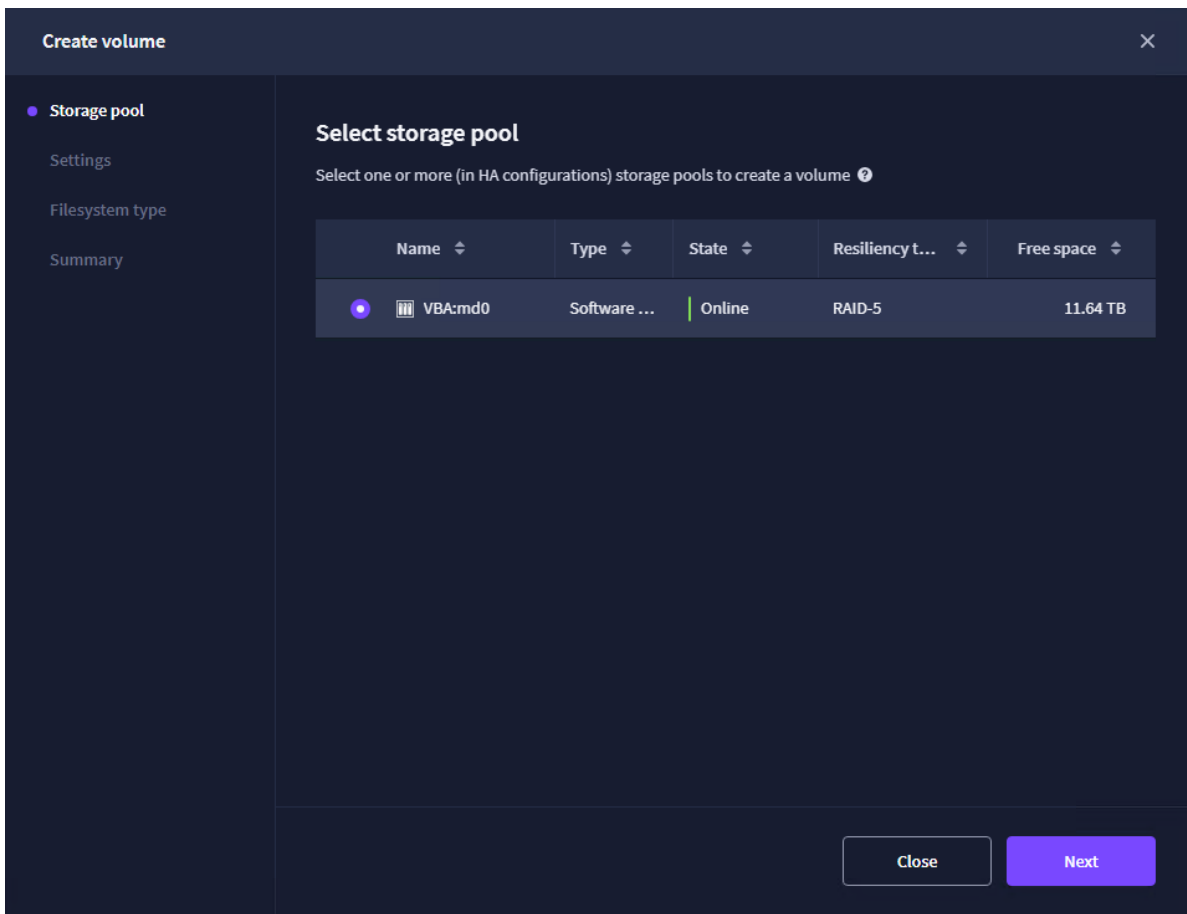


Creating Iscsi Backup Repository

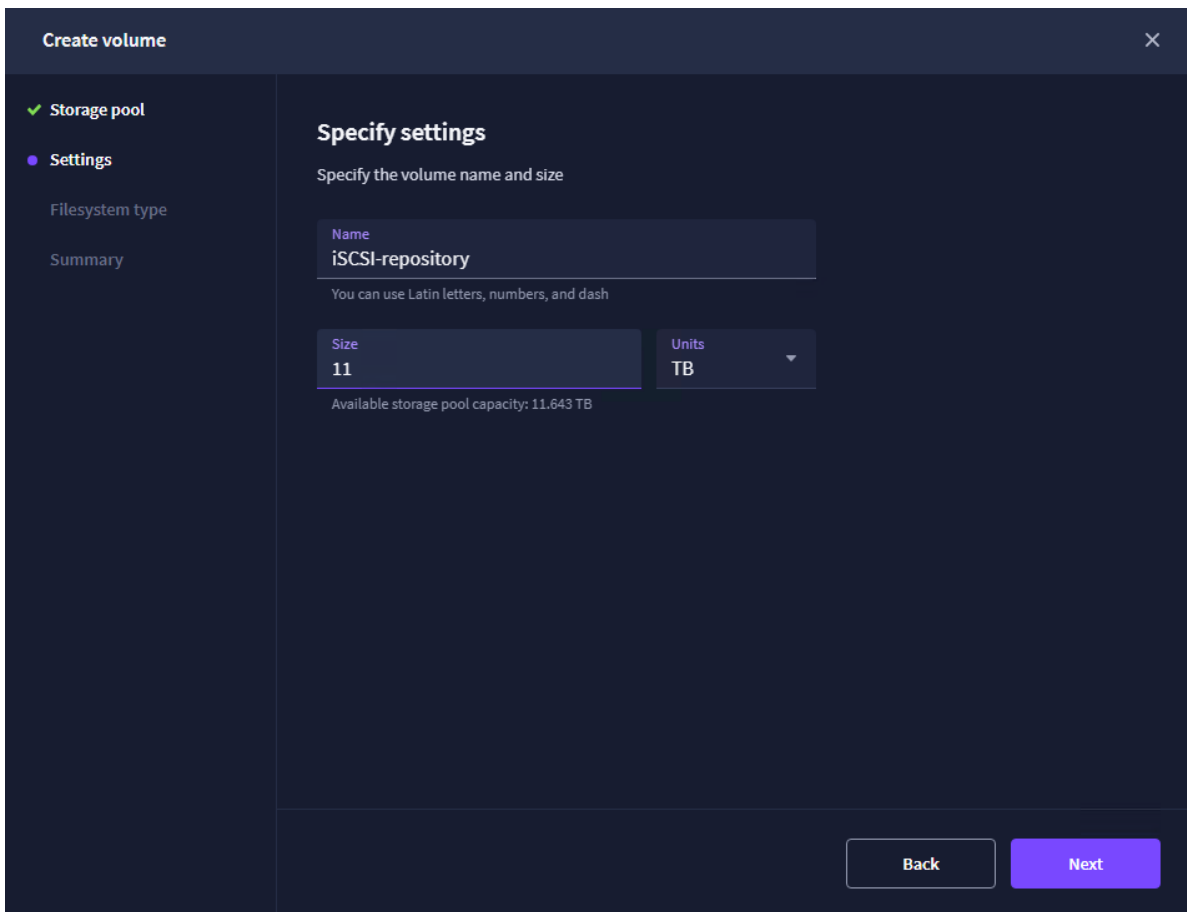
1. Navigate to the “Volumes” tab and click the “+” button to open the “Create volume” wizard.



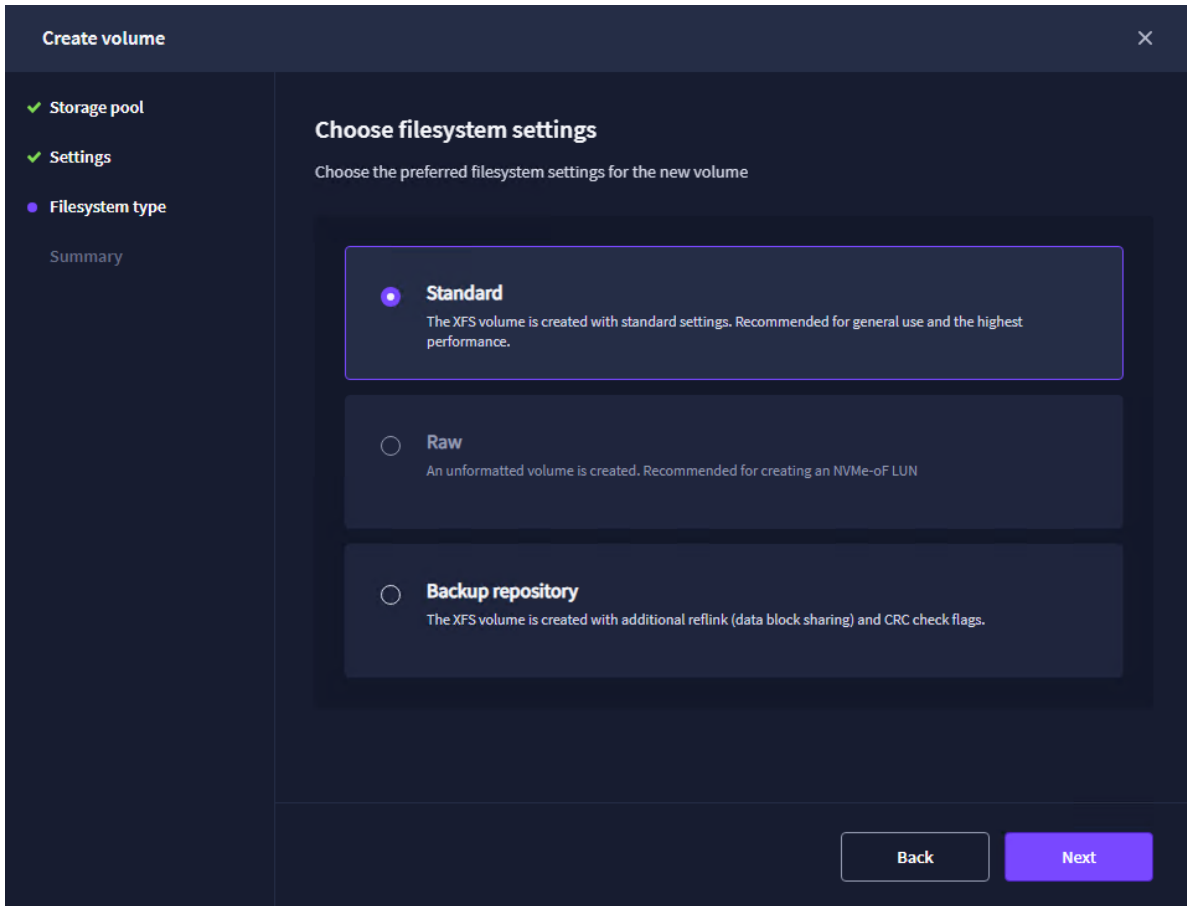
2. Select the storage pool that will be used for a new volume and click Next.



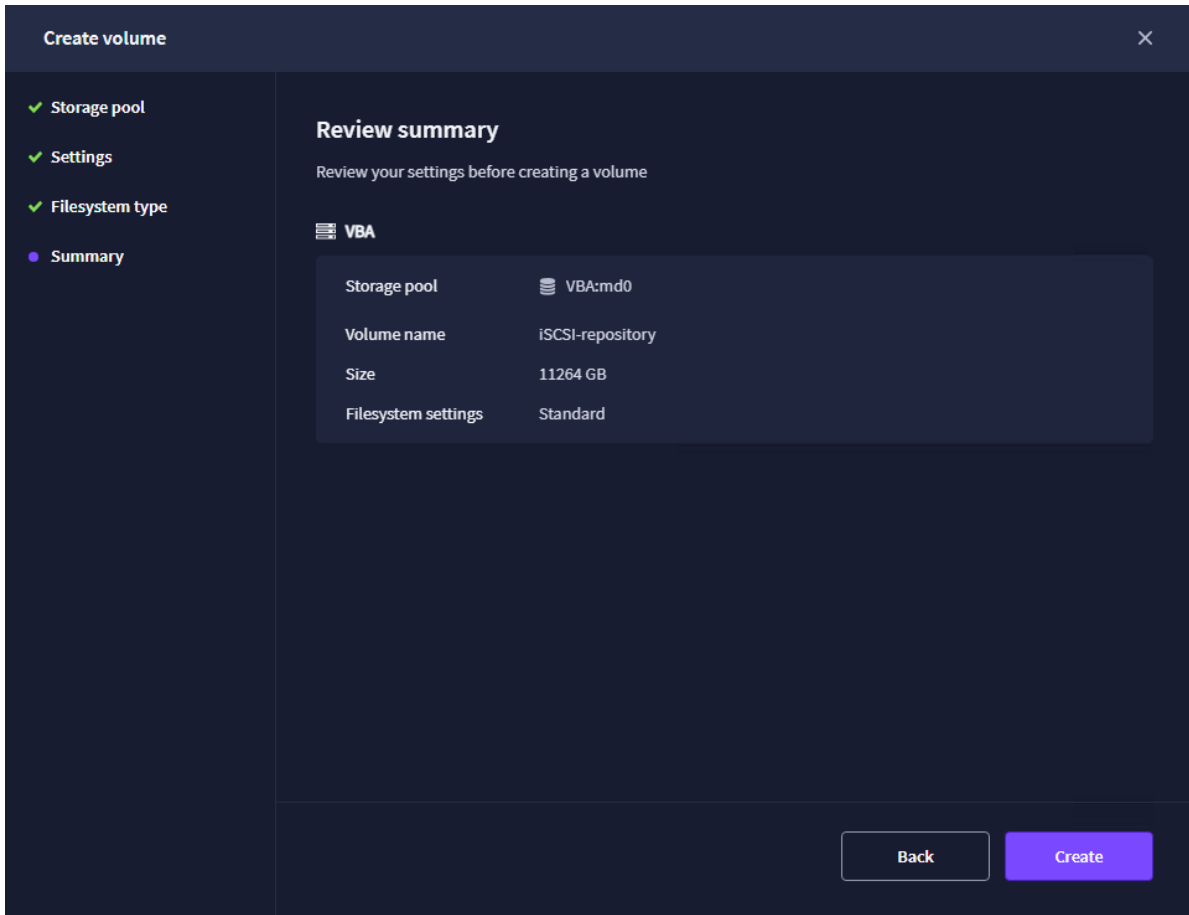
3. Specify the volume name and capacity. Click Next.



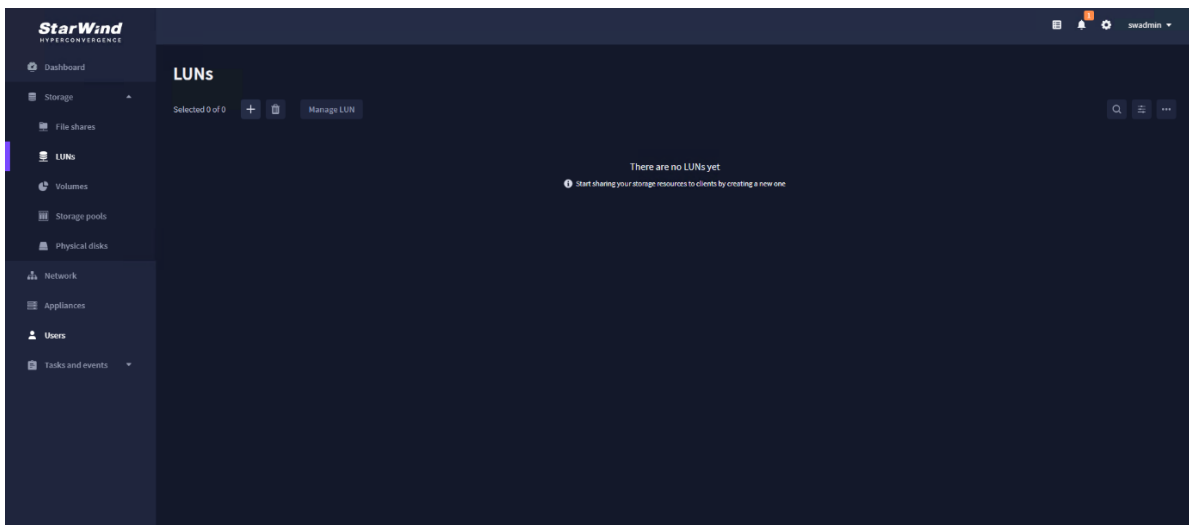
4. Select the “Standard” volume type and click Next.



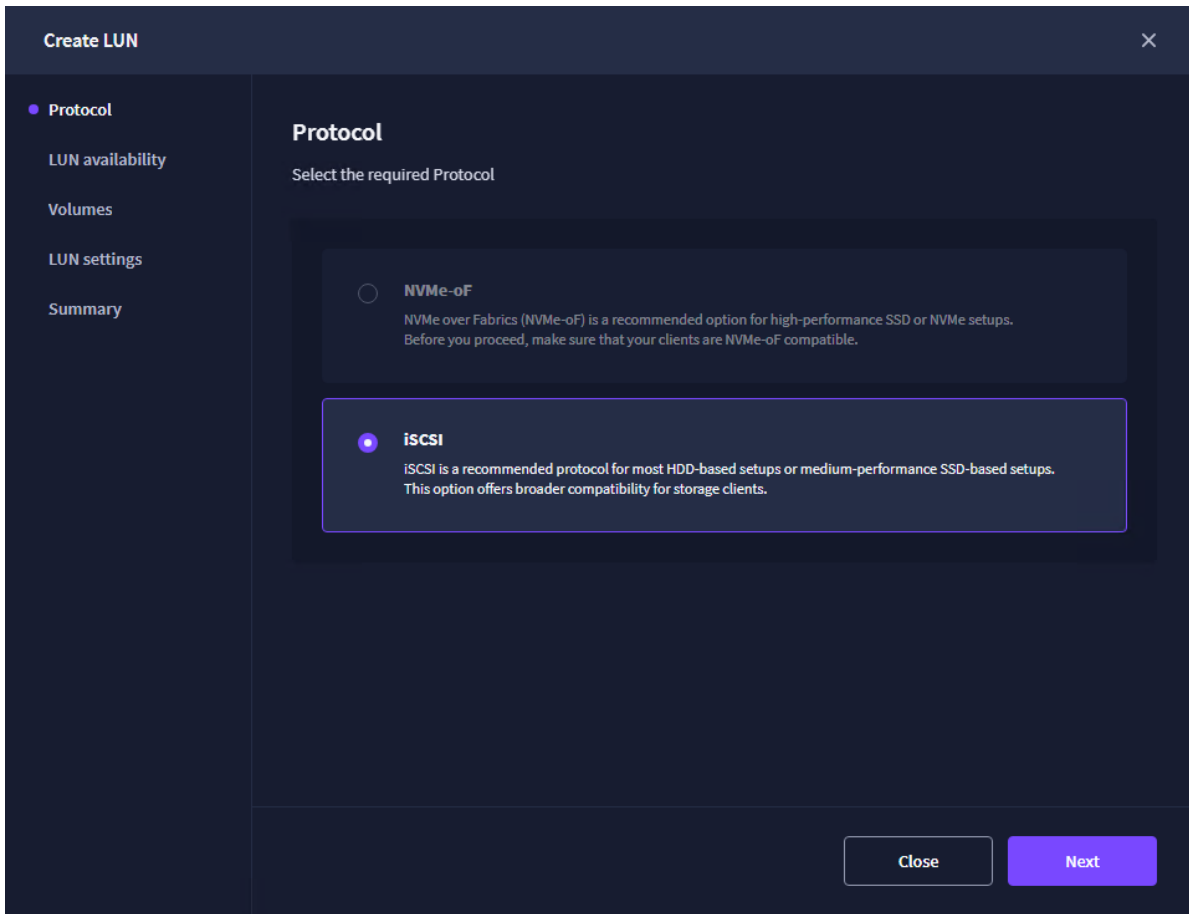
5. Review the Summary and click Create.



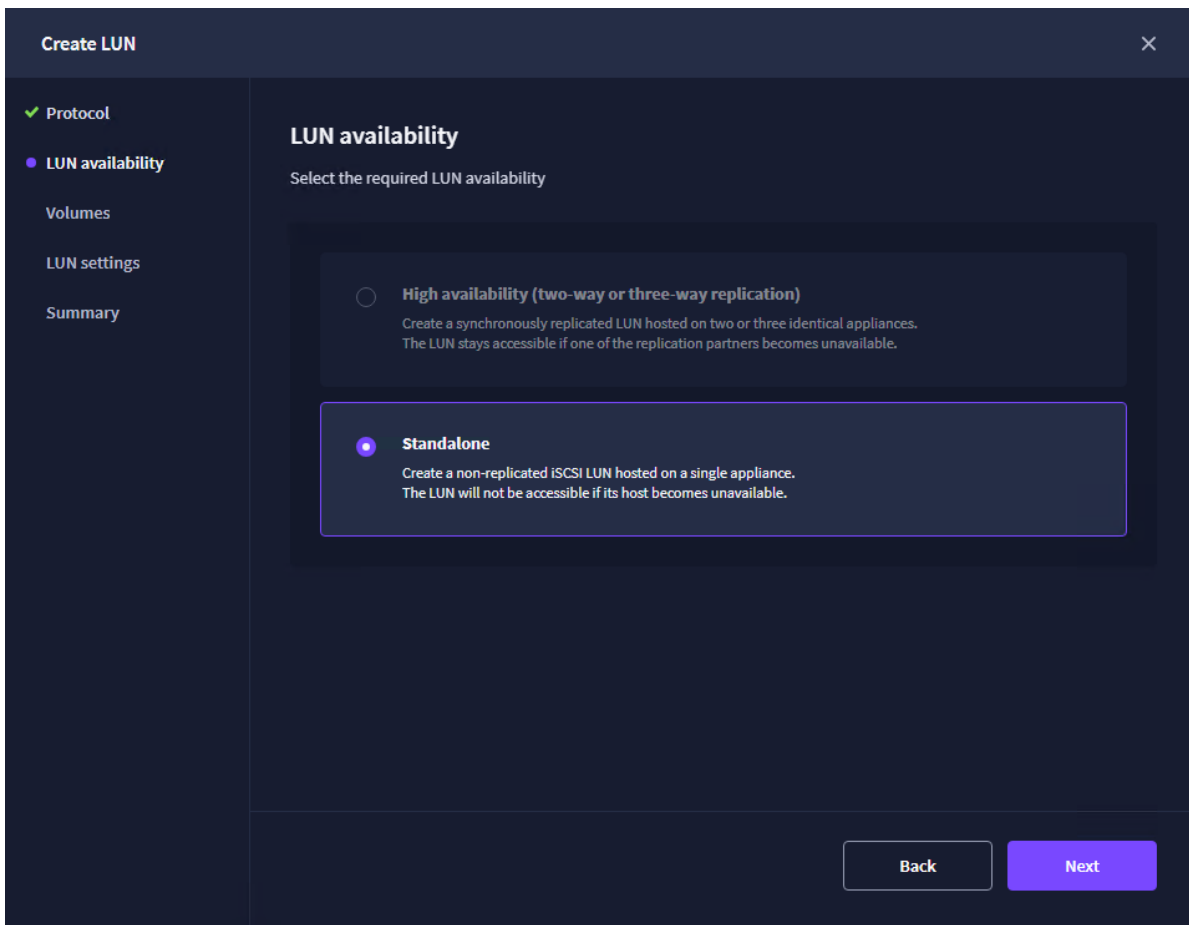
6. Navigate to the LUNs tab and click the “+” sign to create an iSCSI target.



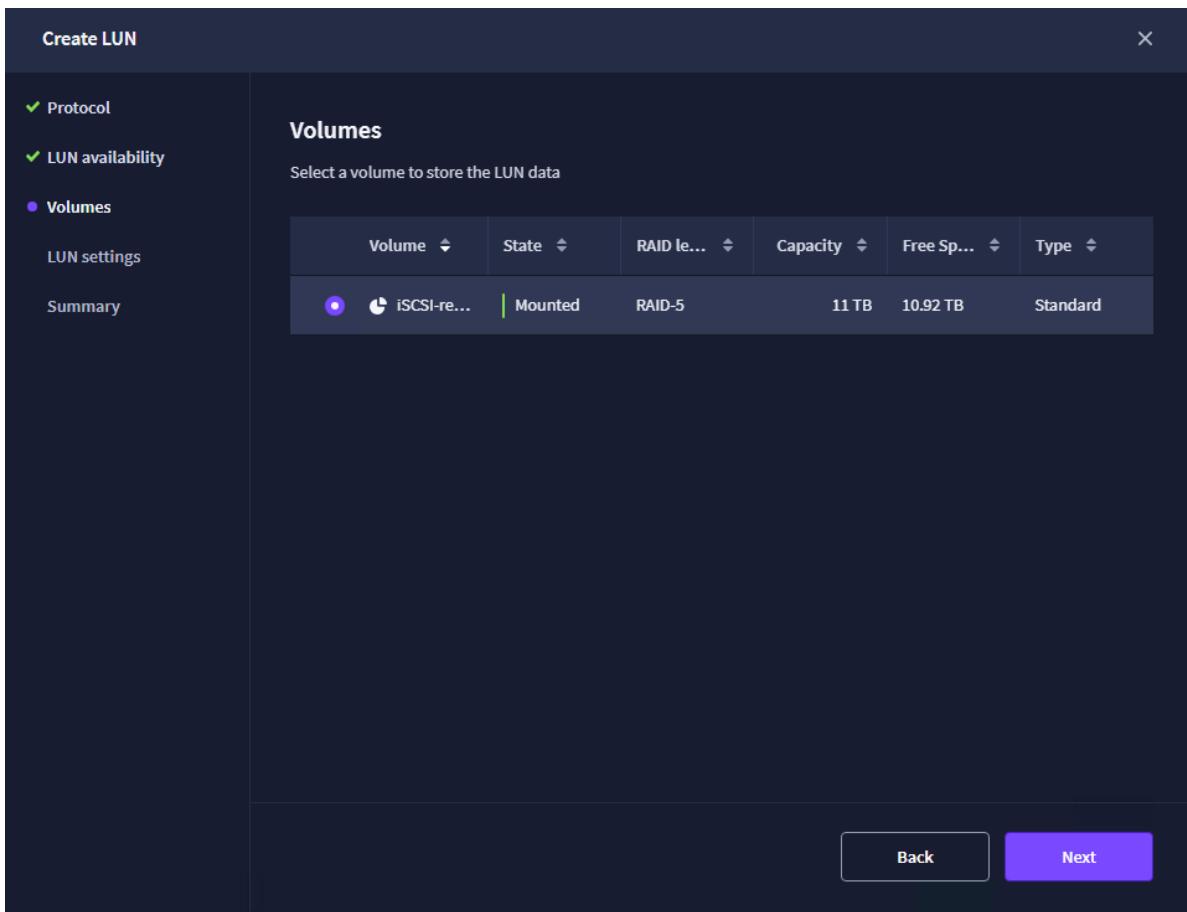
7. Click Next.



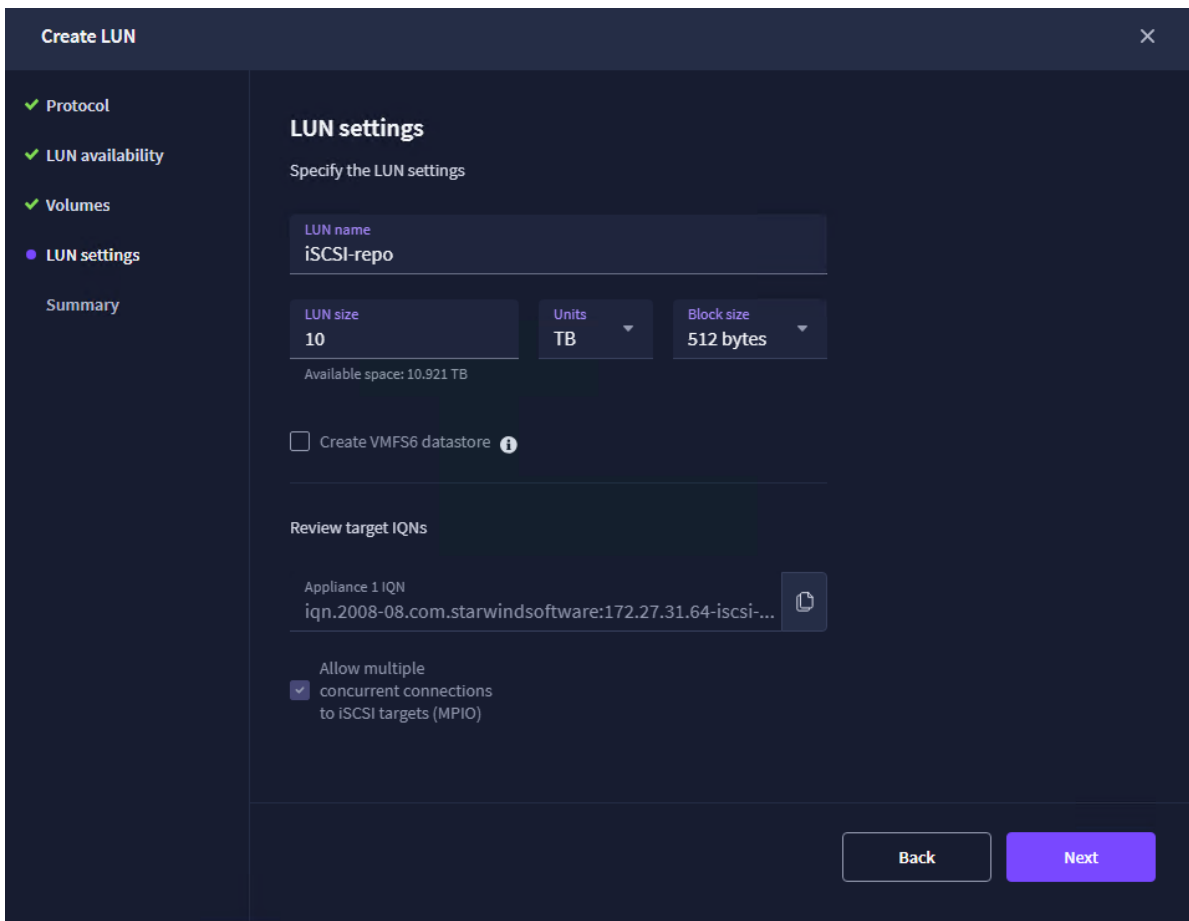
8. Standalone LUN availability is the only option for iSCSI backup repository. Click Next.



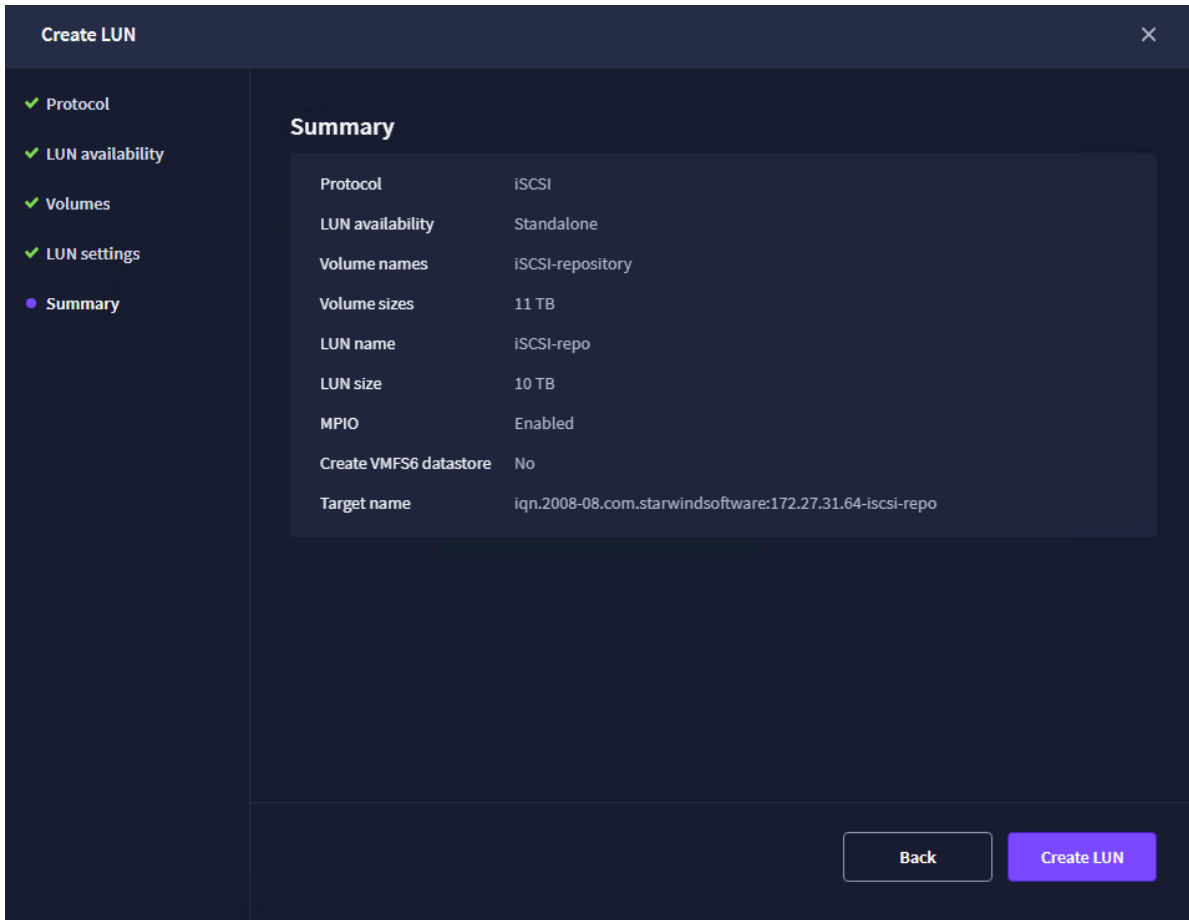
9. Select the volume on which the iSCSI LUN will be stored.



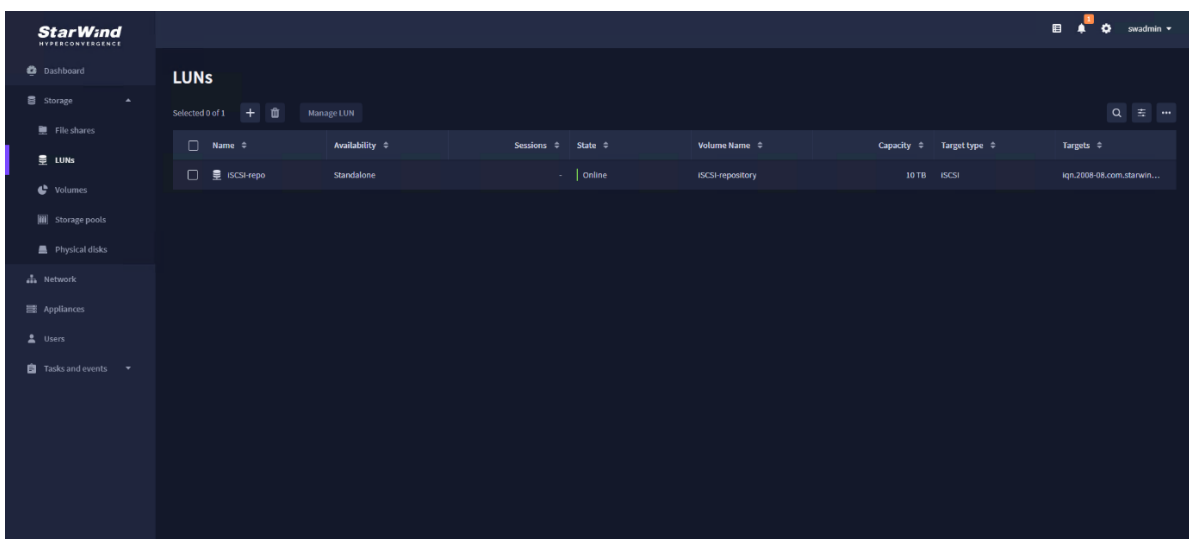
10. Specify the iSCSI LUN name and size. Click Next.



11. Review the Summary and click Create LUN.

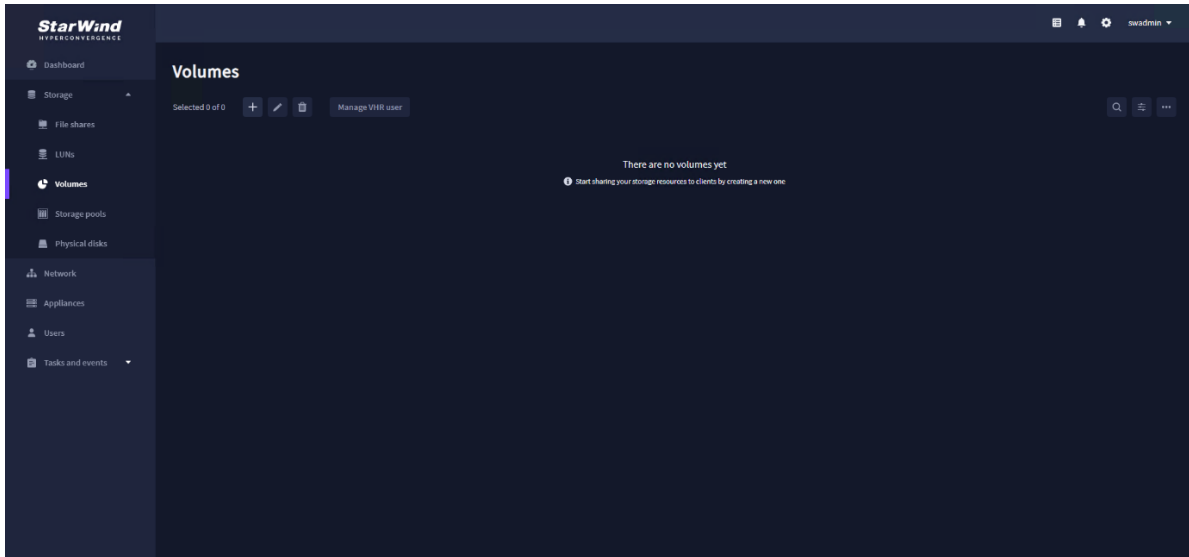


12. The iSCSI target has been created and is ready to be connected to the backup software.

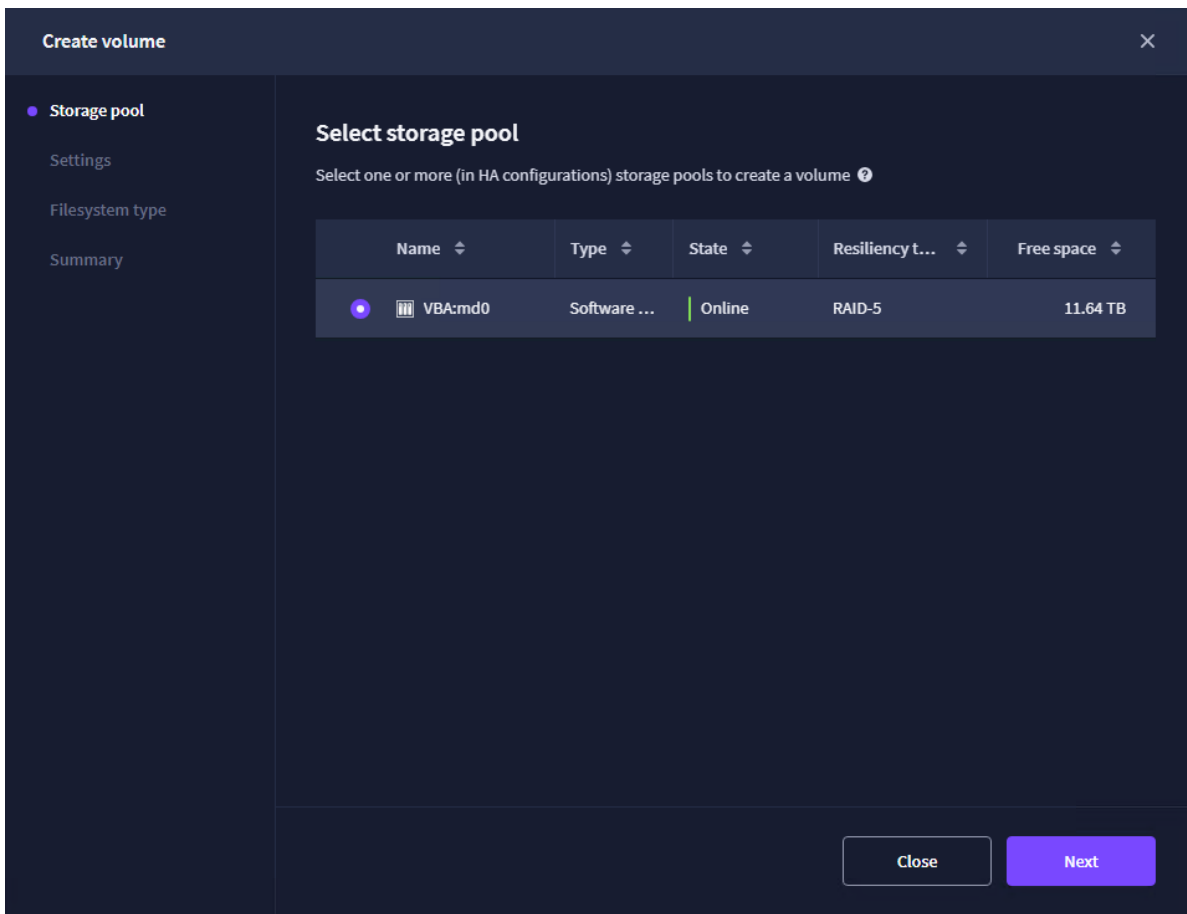


Creating Nfs Backup Repository

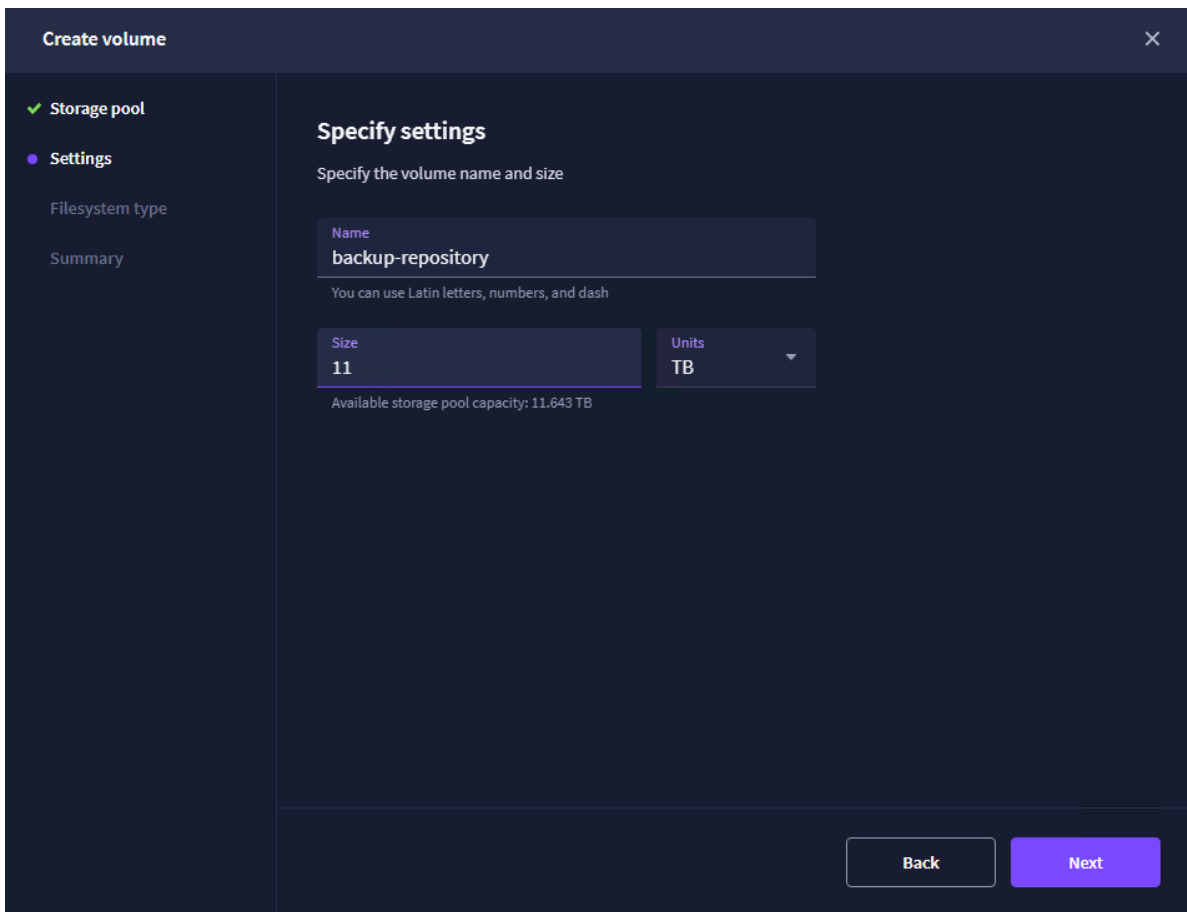
1. Navigate to the “Volumes” tab and click the “+” button to open the “Create volume” wizard.



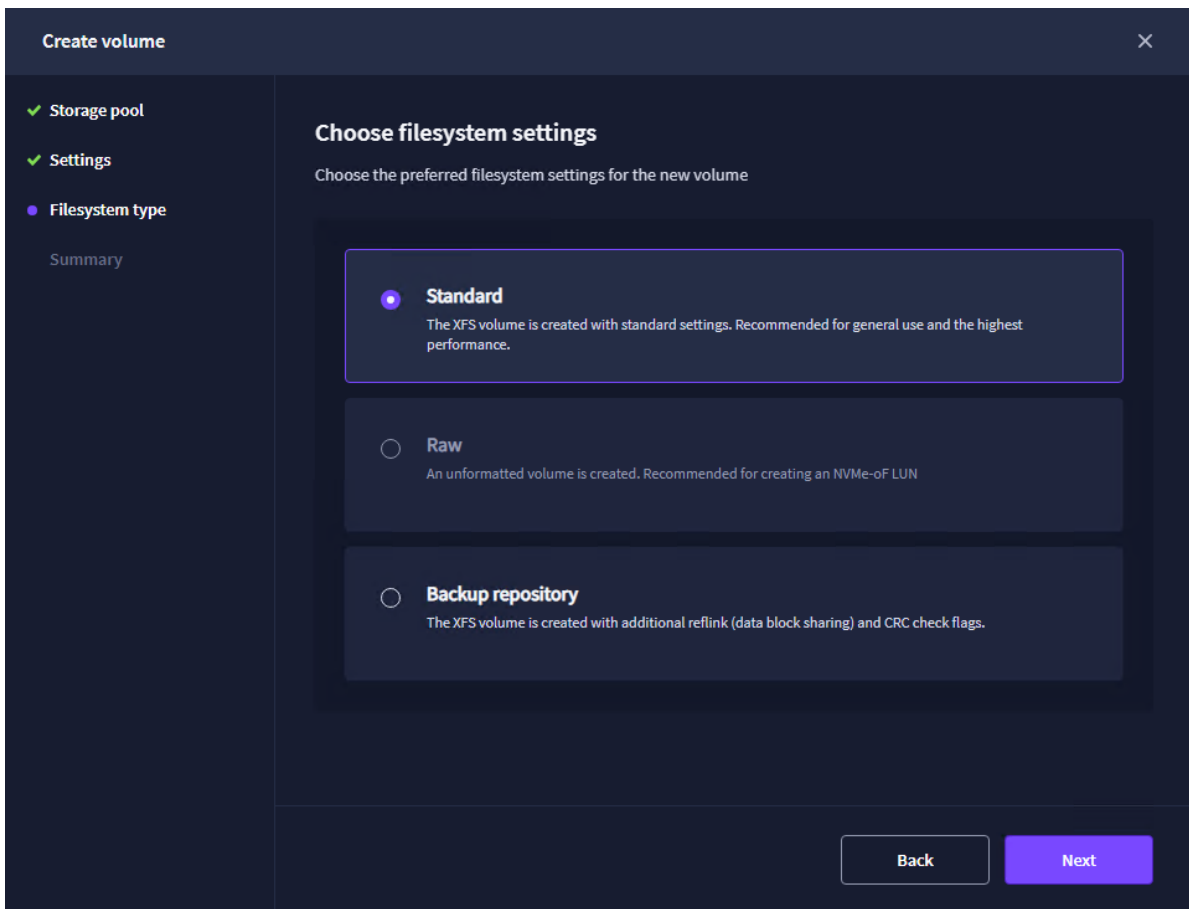
2. Select the storage pool that will be used for a new volume and click Next.



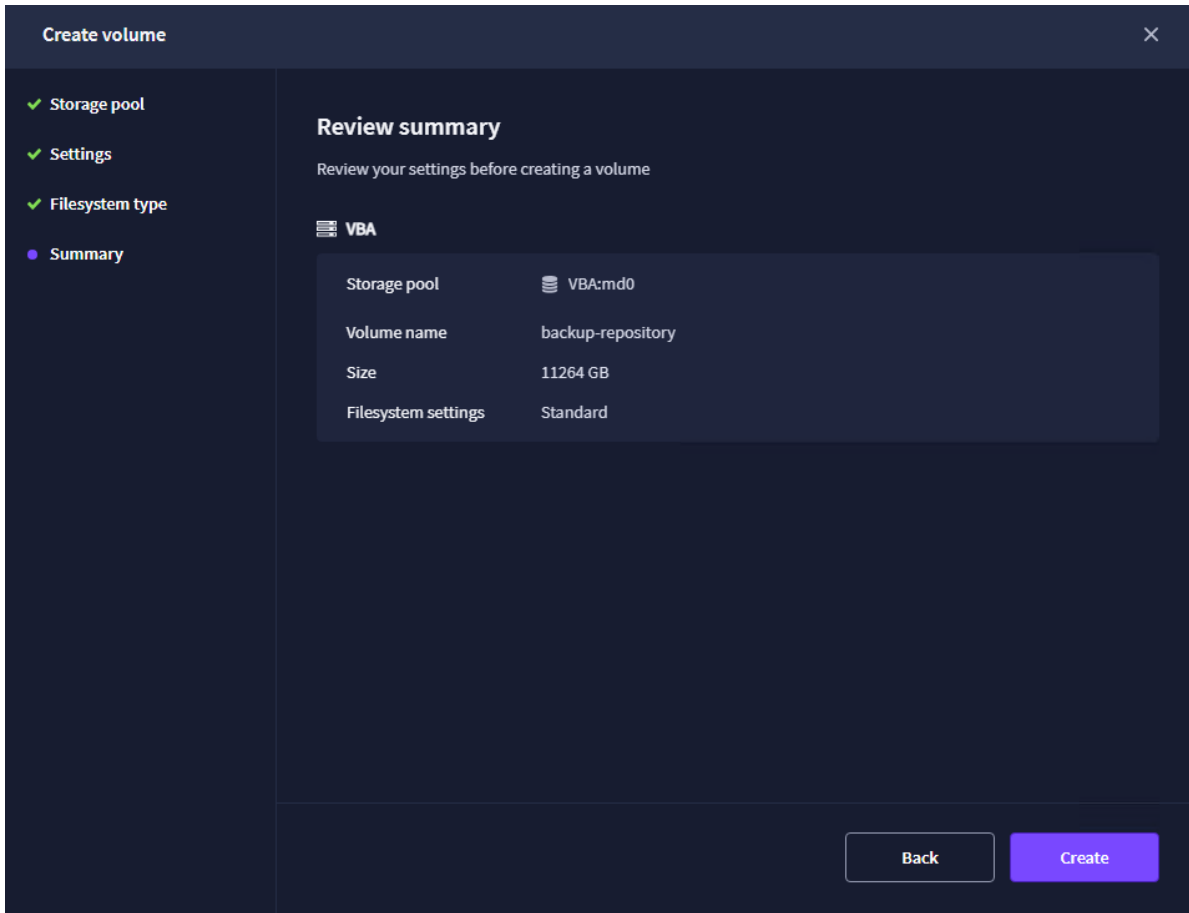
3. Specify the volume name and capacity. Click Next.



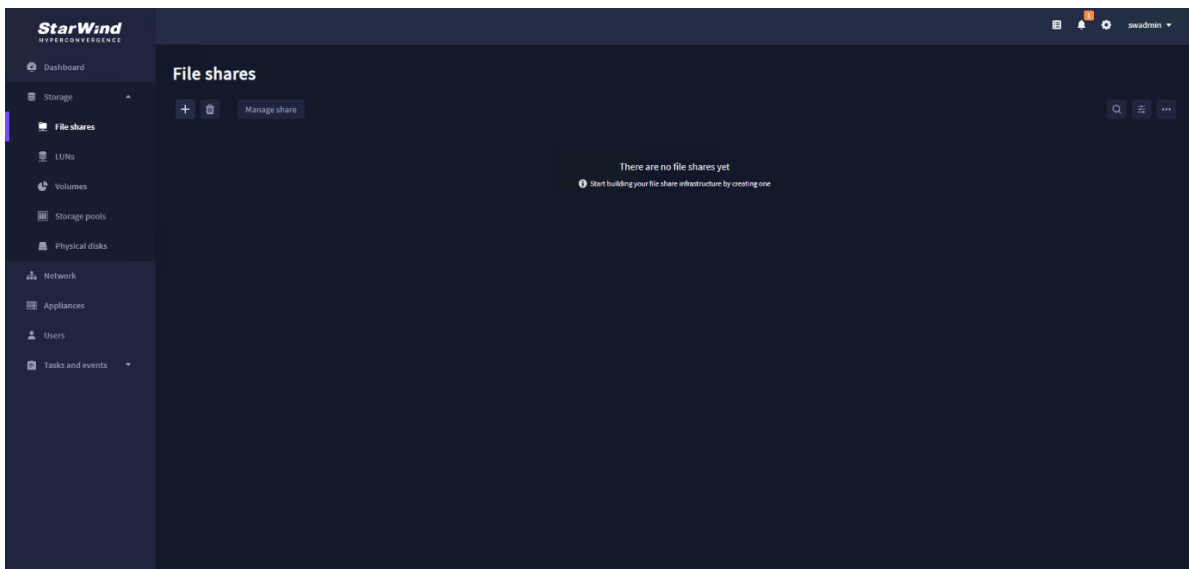
4. Select the “Standard” volume type and click Next.



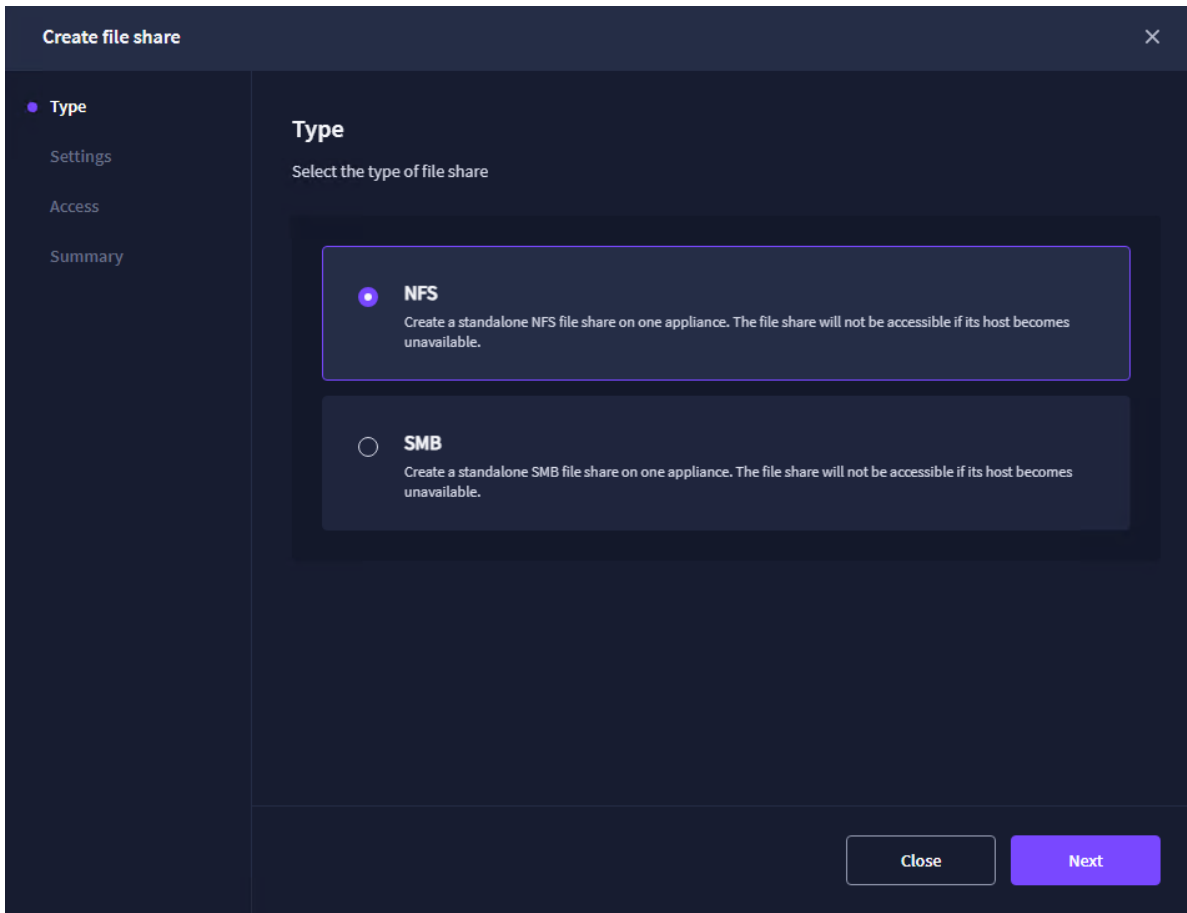
5. Review the Summary and click Create.



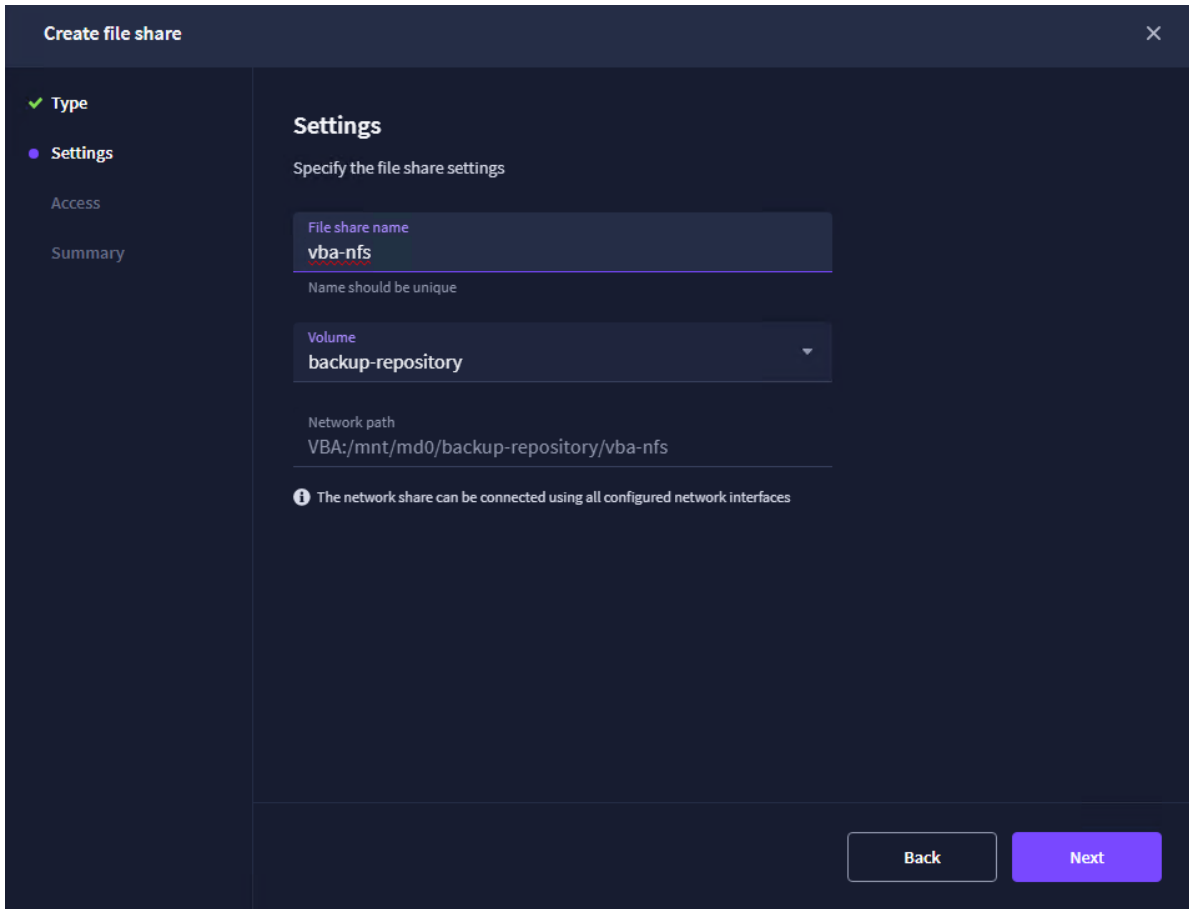
6. Navigate to the File shares tab and click the “+” sign.



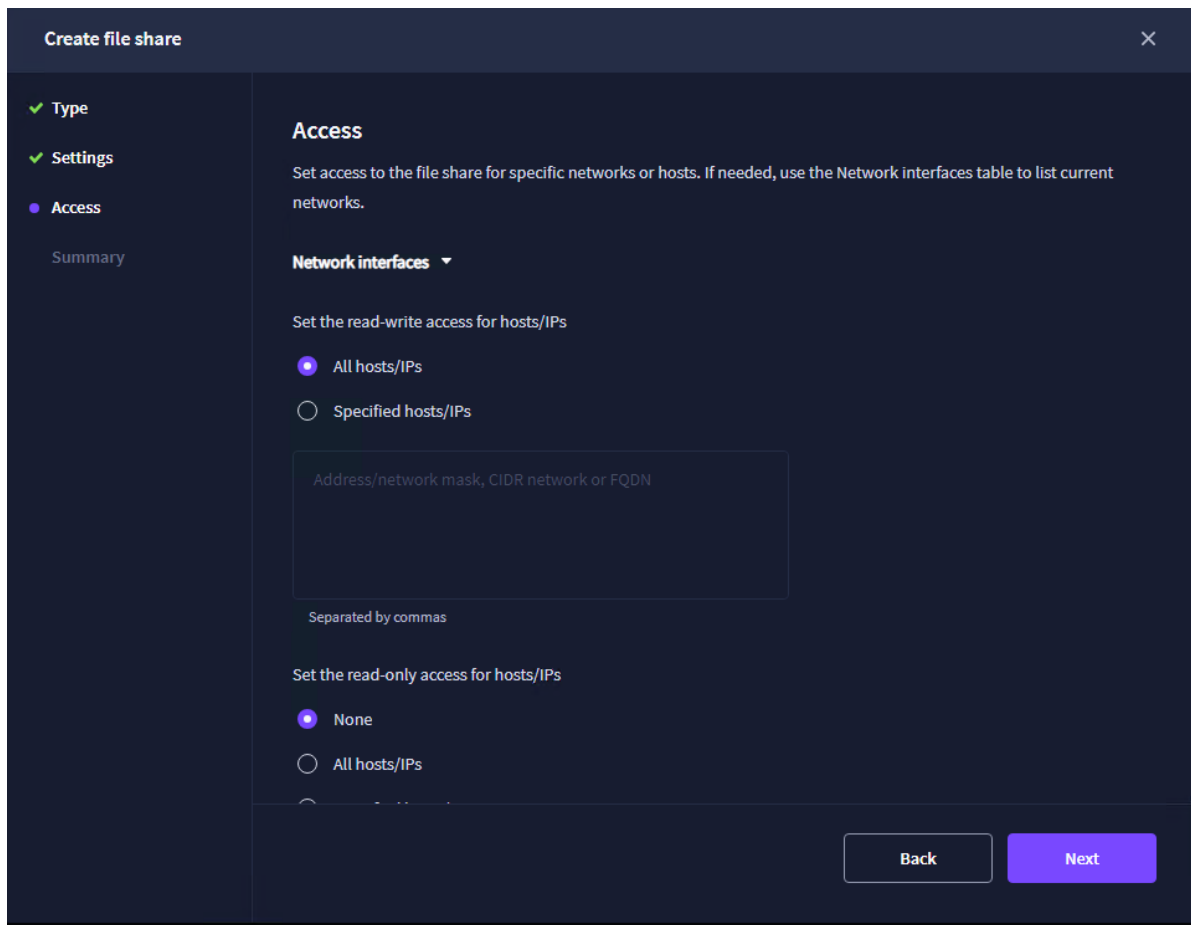
7. Select the NFS file share type and click Next.



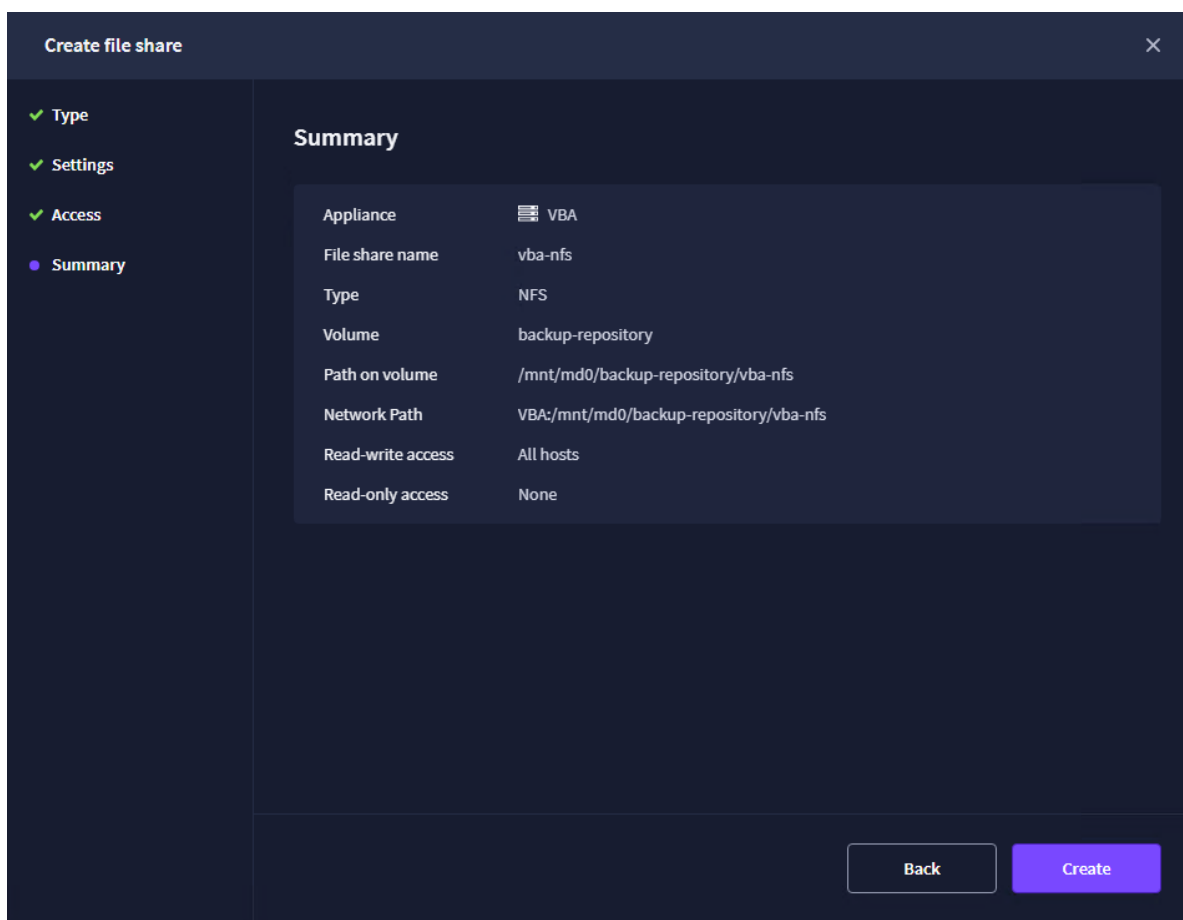
8. Specify the file share name and volume on which it will be located.



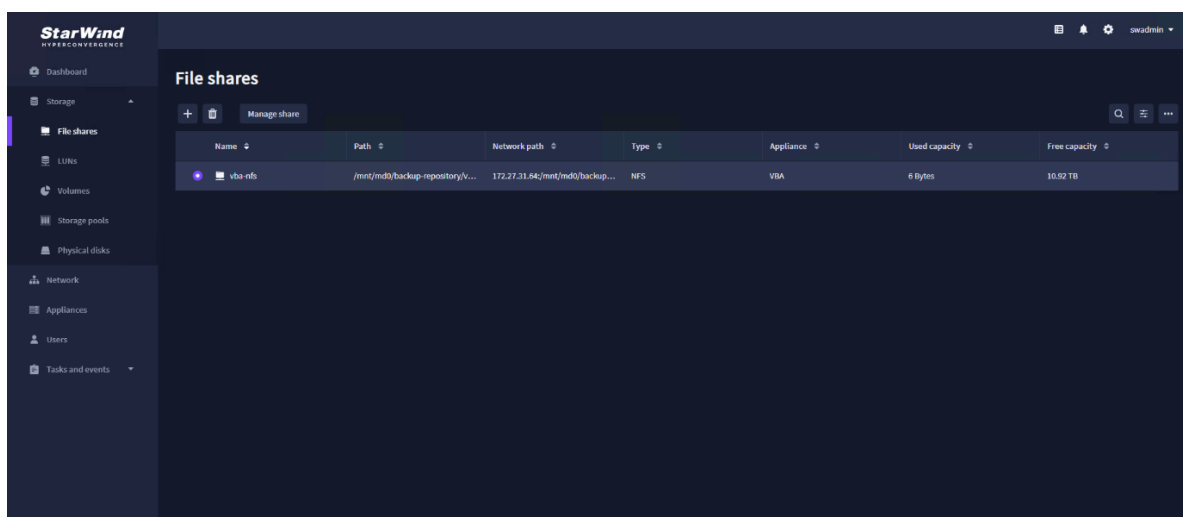
9. Specify the required access settings to the NFS share. Click Next.



10. Review Summary and click Create.

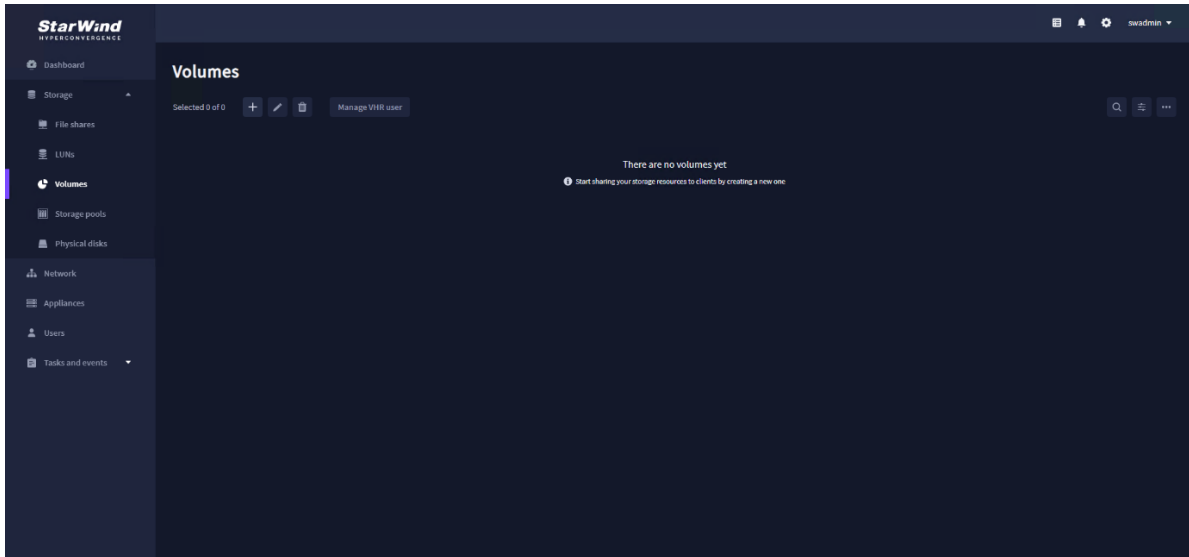


11. The NFS share repository is ready to be connected to the backup software.

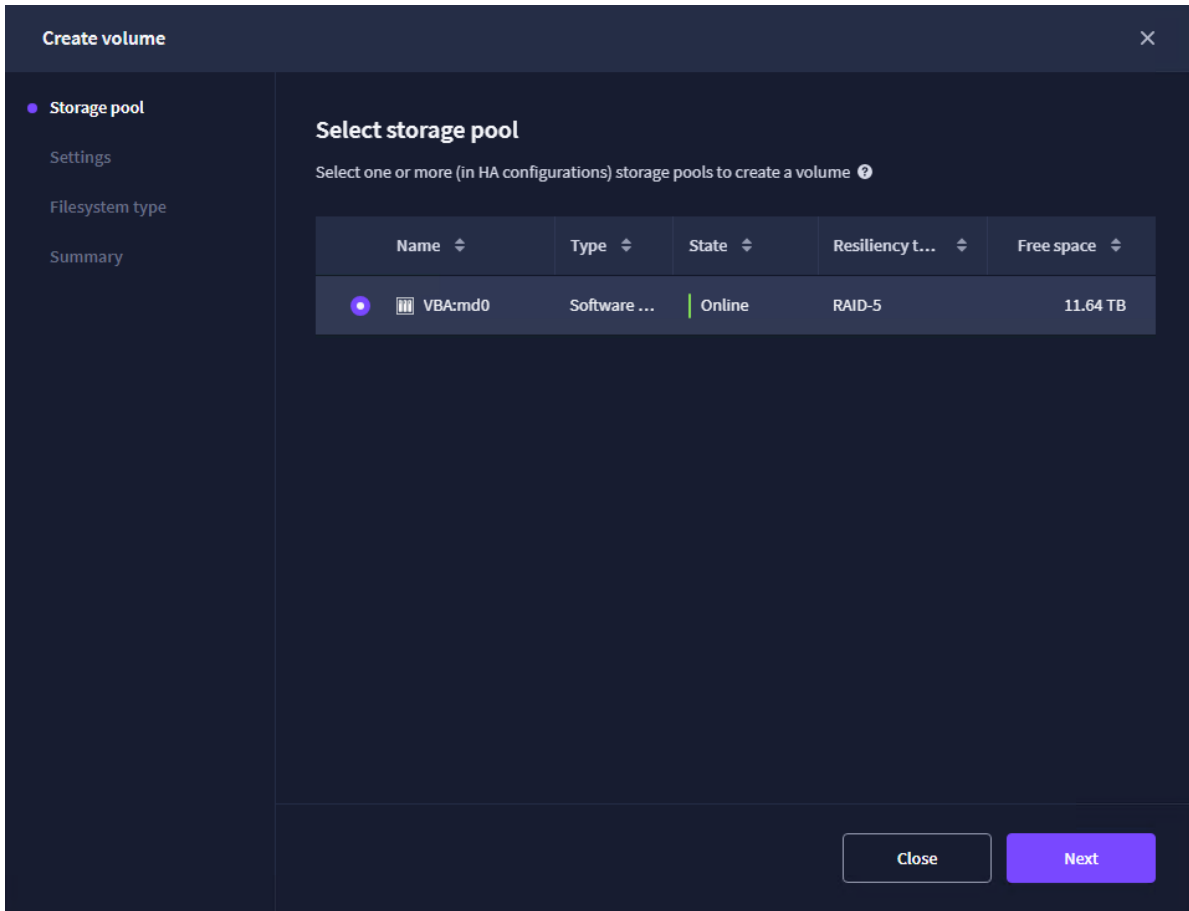


Creating Smb Backup Repository

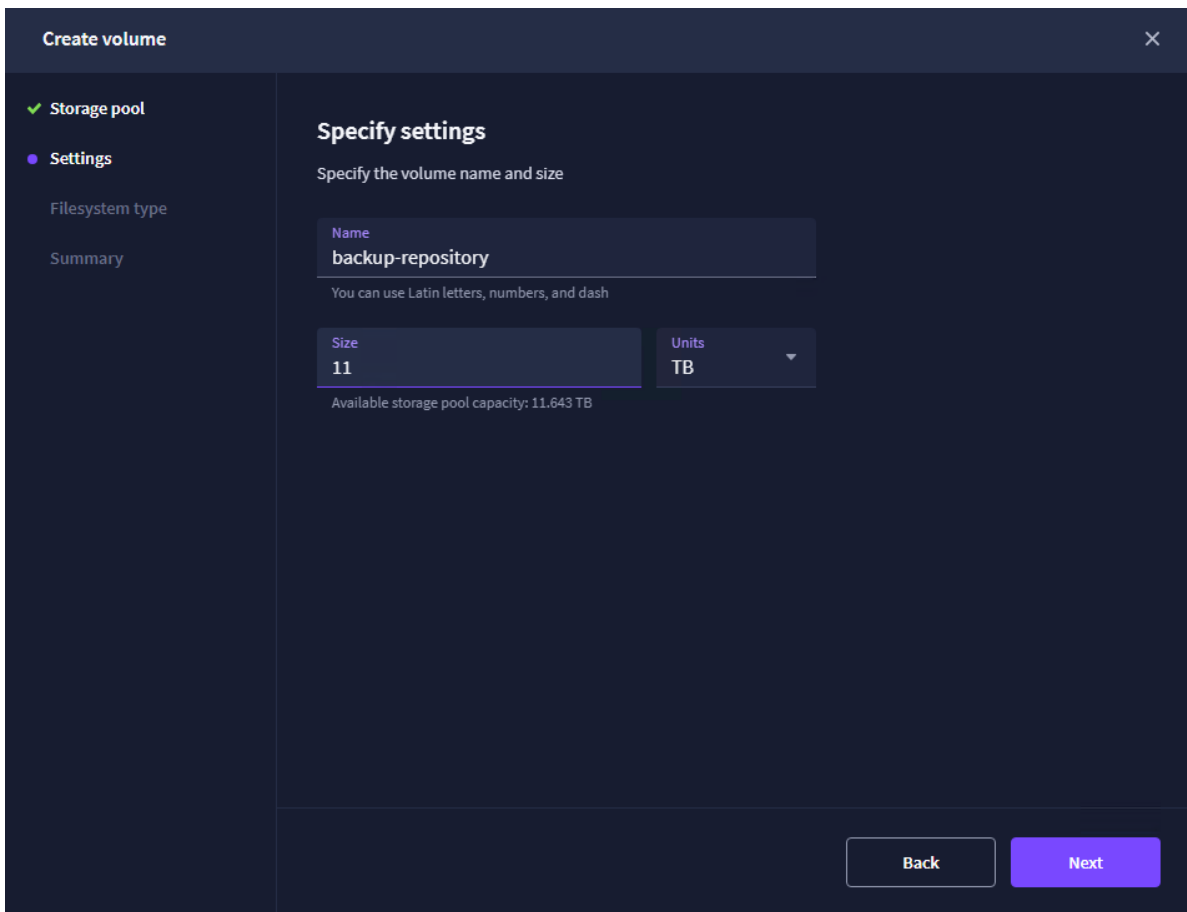
1. Navigate to the “Volumes” tab and click the “+” button to open the “Create volume” wizard.



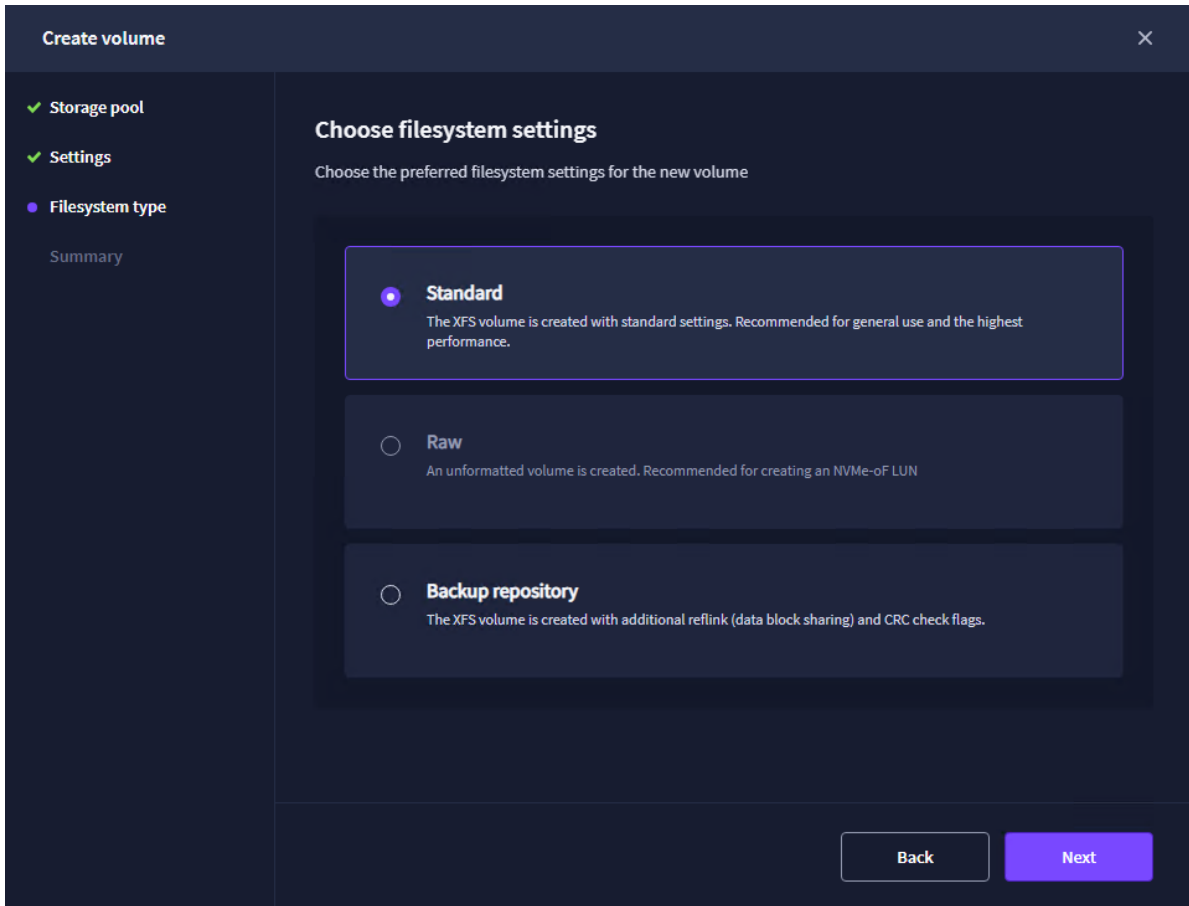
2. Select the storage pool that will be used for a new volume and click Next.



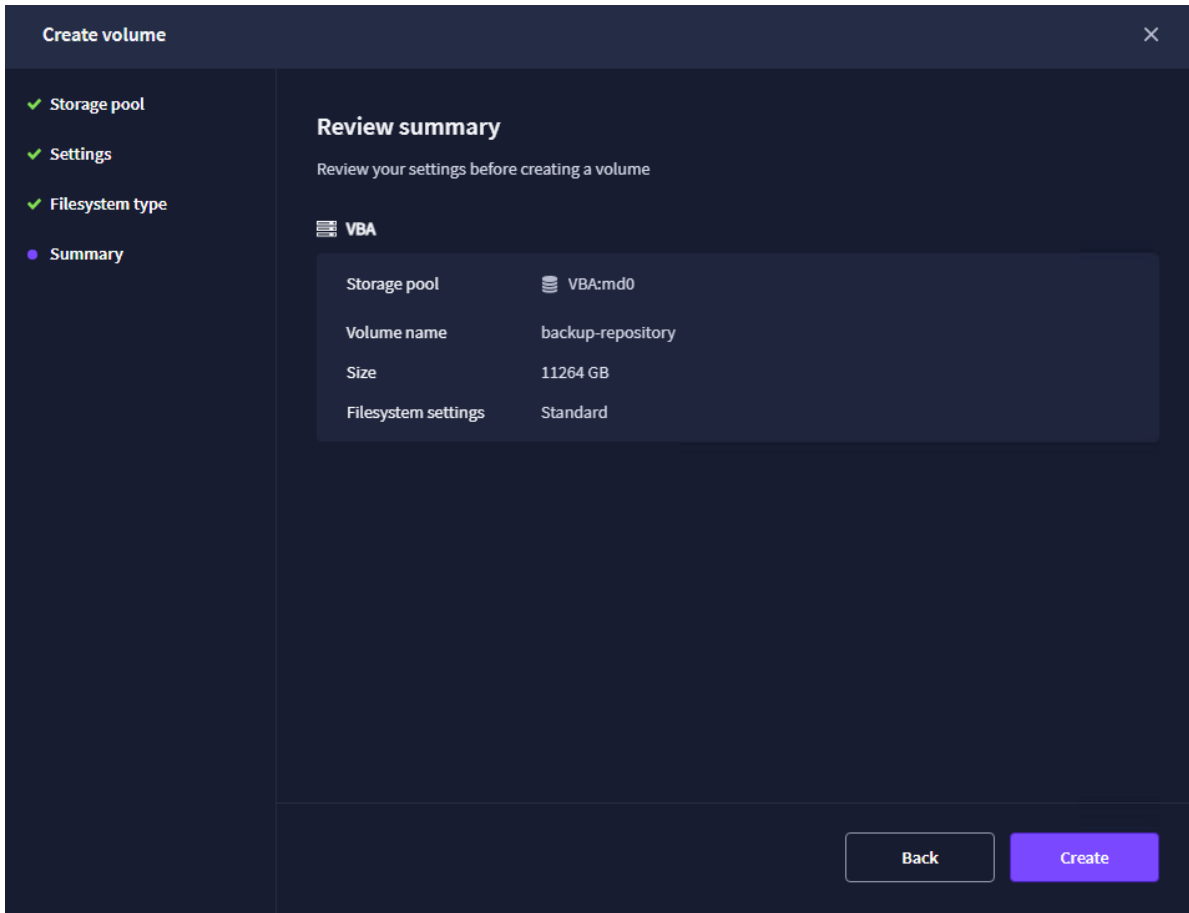
3. Specify the volume name and capacity. Click Next.



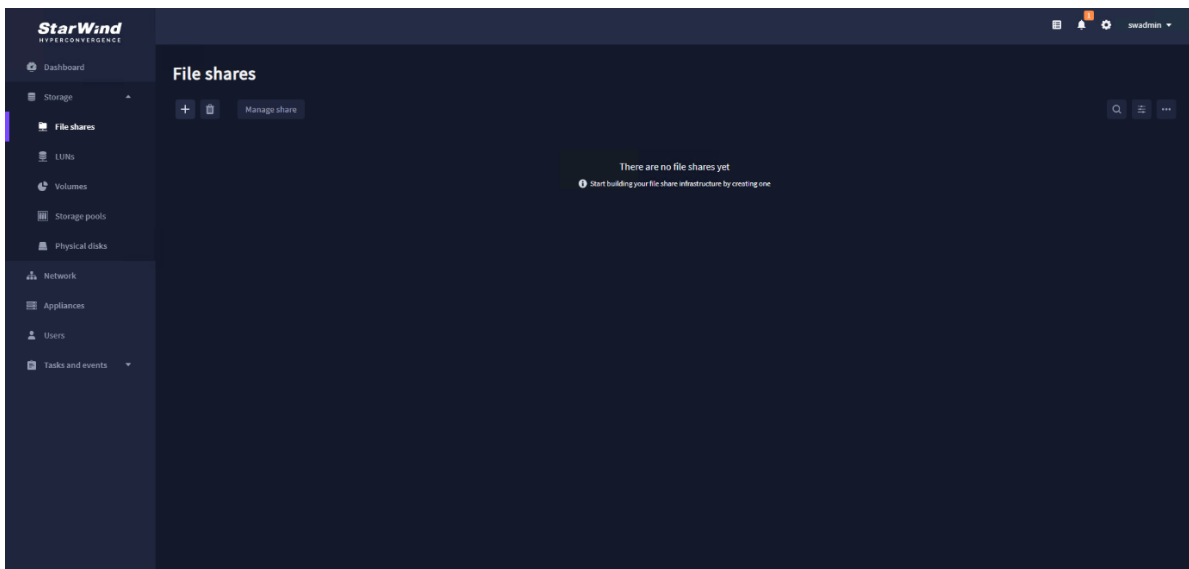
4. Select the “Standard” volume type and click Next.



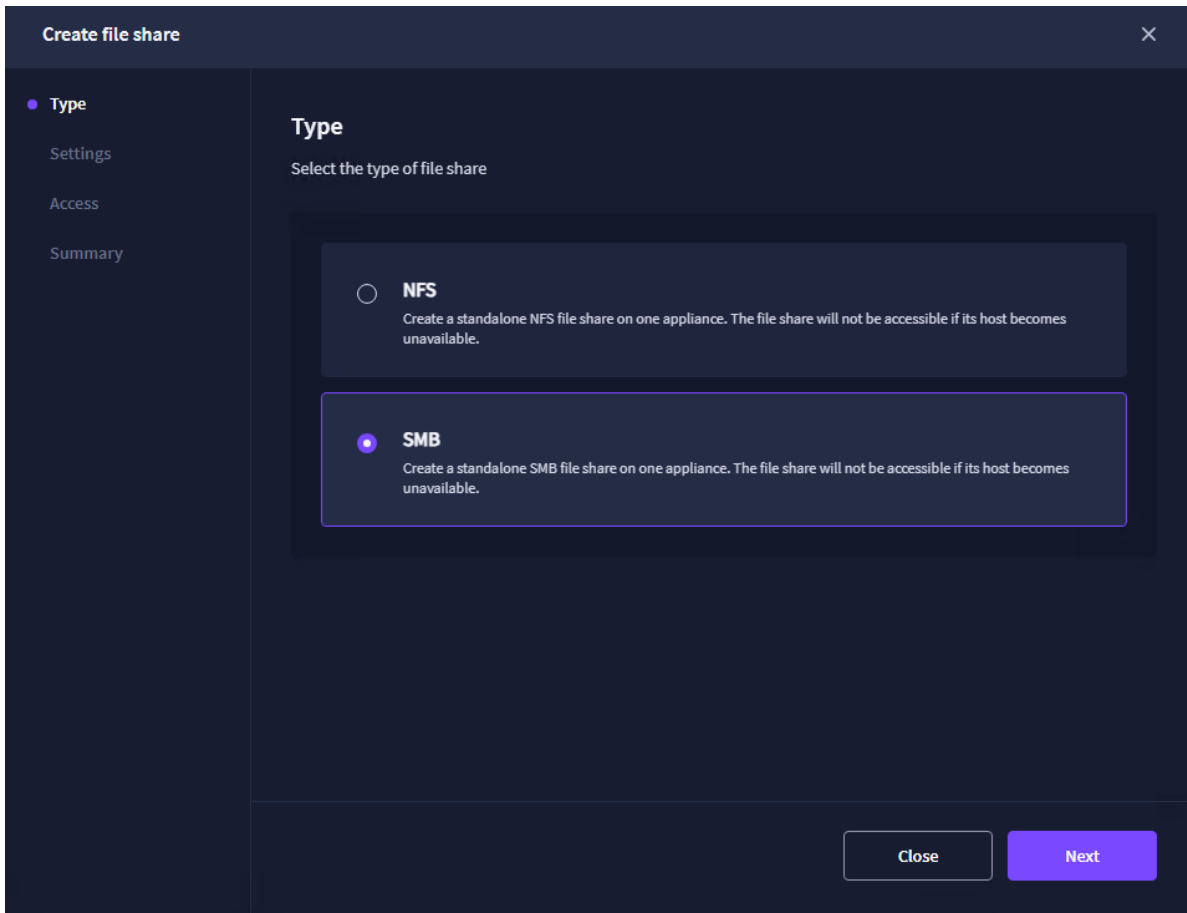
5. Review the Summary and click Create.



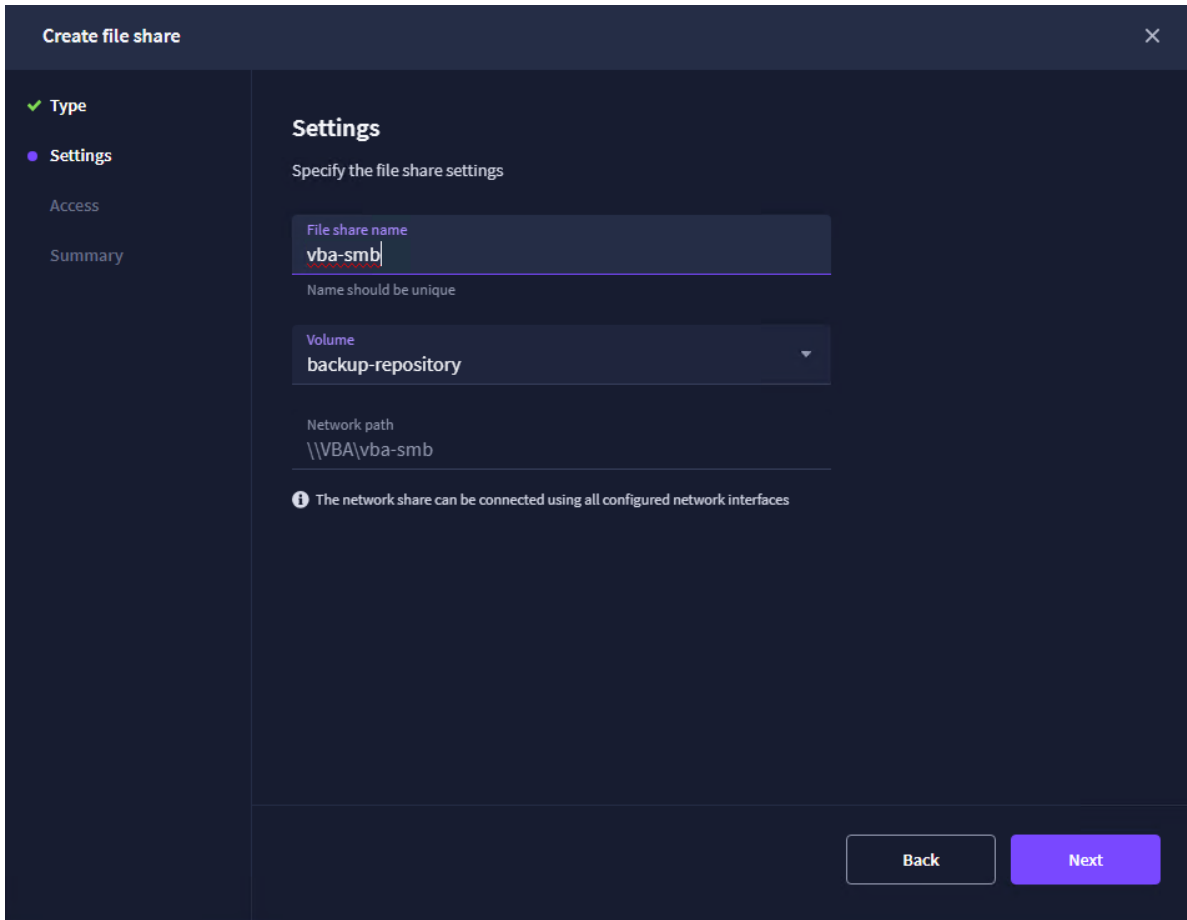
6. Navigate to the File shares tab and click the “+” sign.



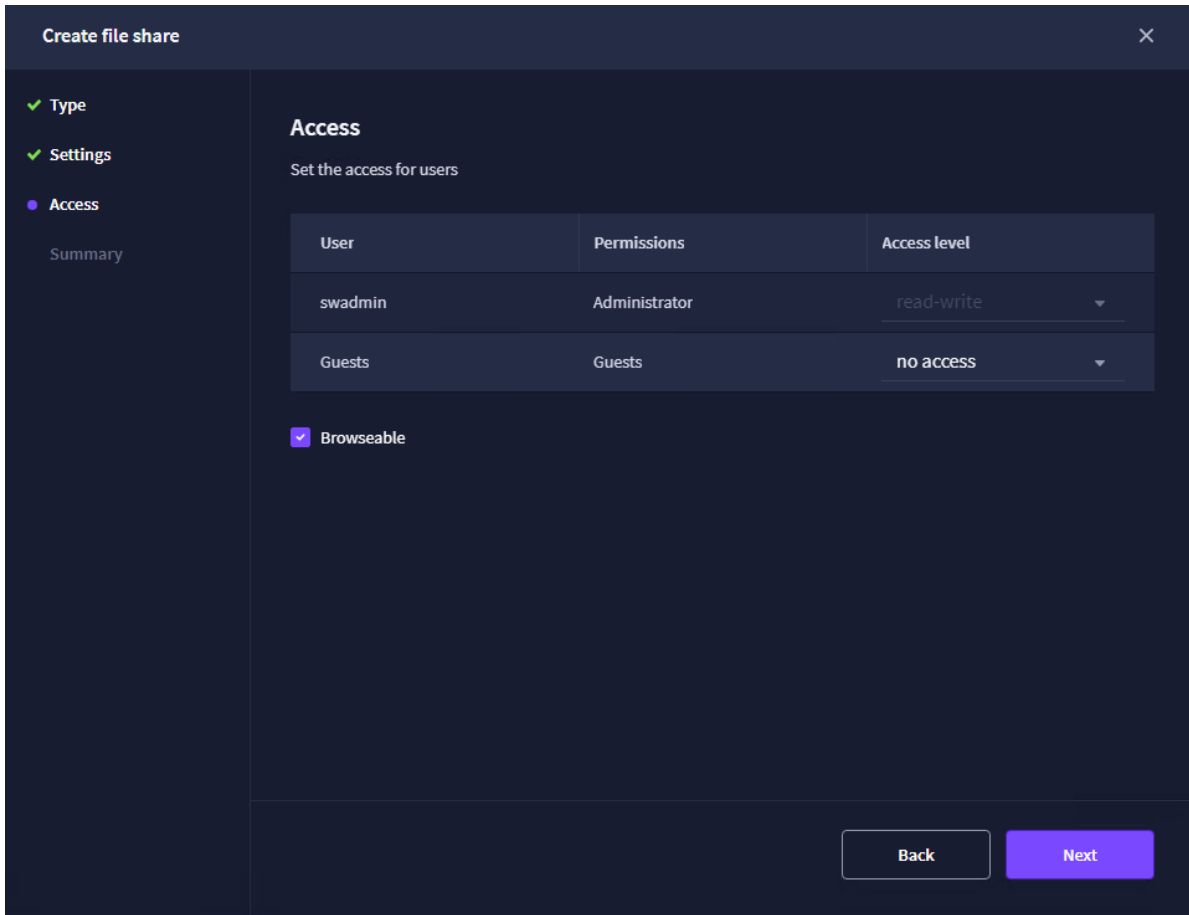
7. Select the SMB file share type and click Next.



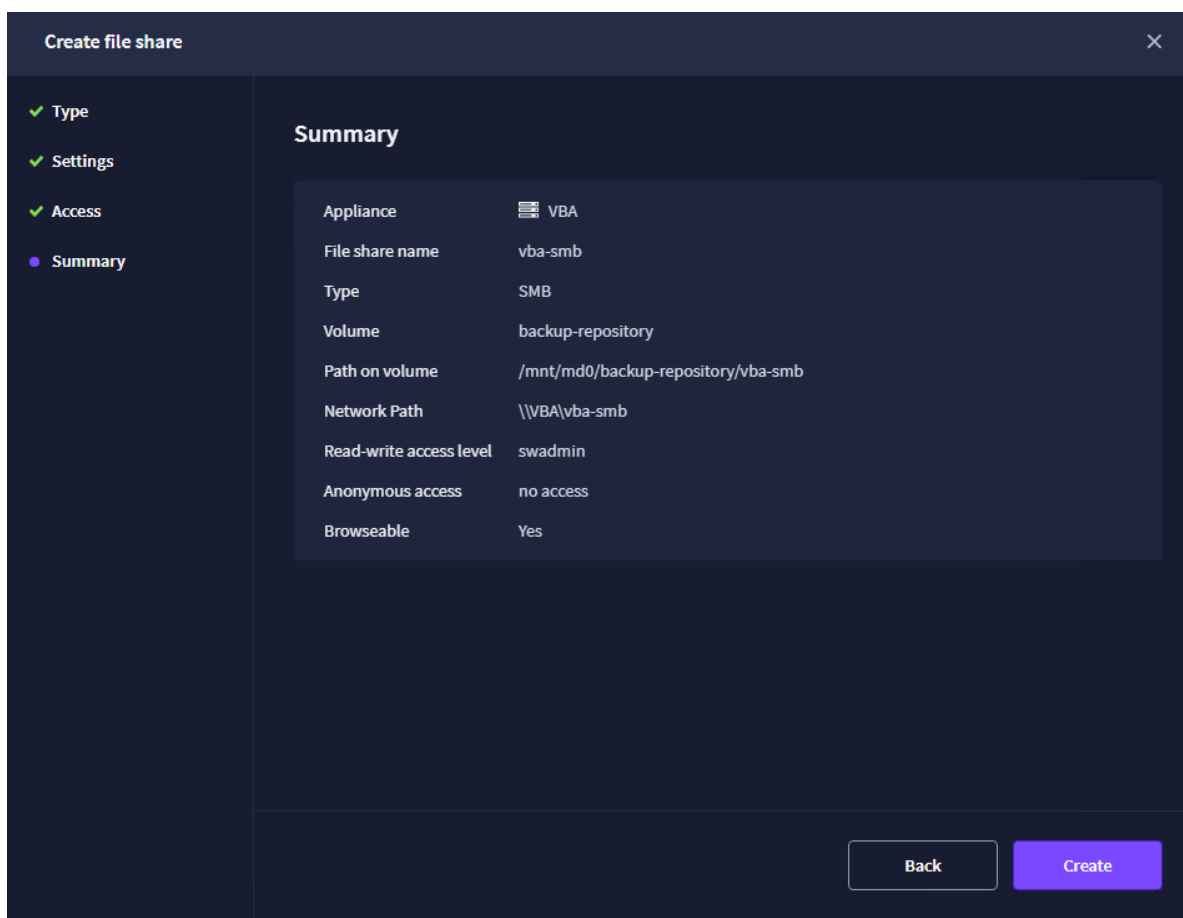
8. Specify the file share name and volume on which it will be located.



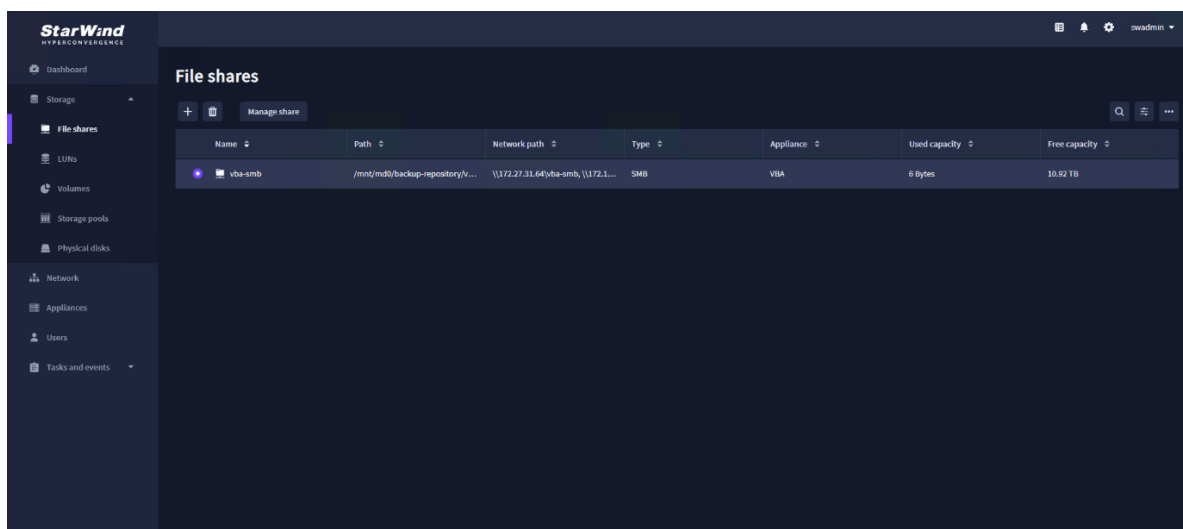
9. Specify the required access settings to the SMB share. Click Next.



10. Review Summary and click Create.

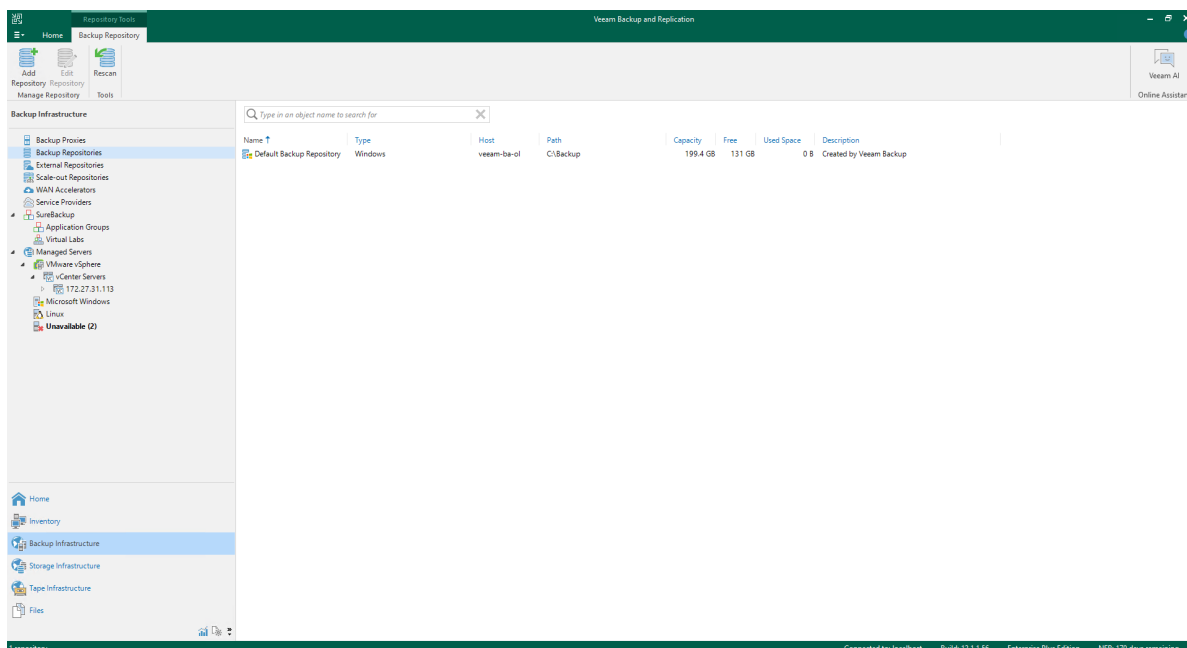


11. The SMB share repository is ready to be connected to the backup software.



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.

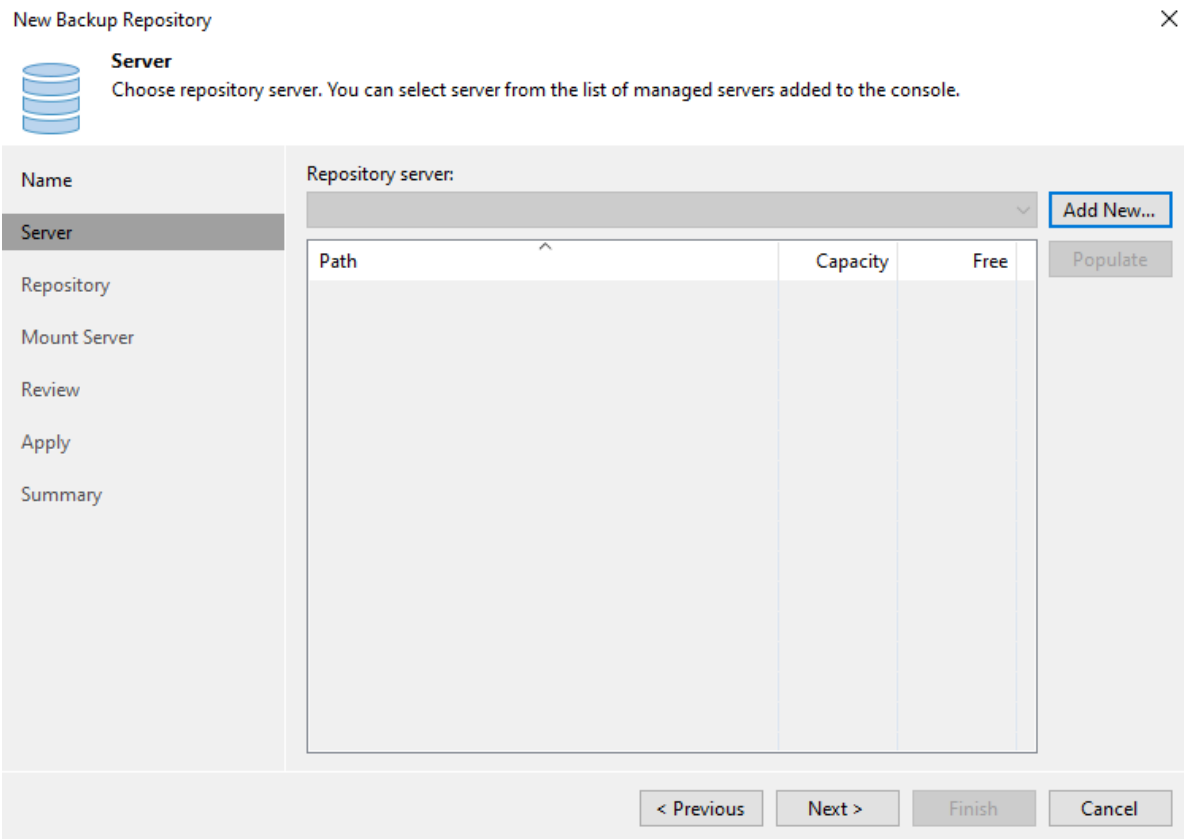
4. In the “New Backup Repository” wizard, specify the name and description for the new repository and click “Next”.

New Backup Repository ×

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

Name	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

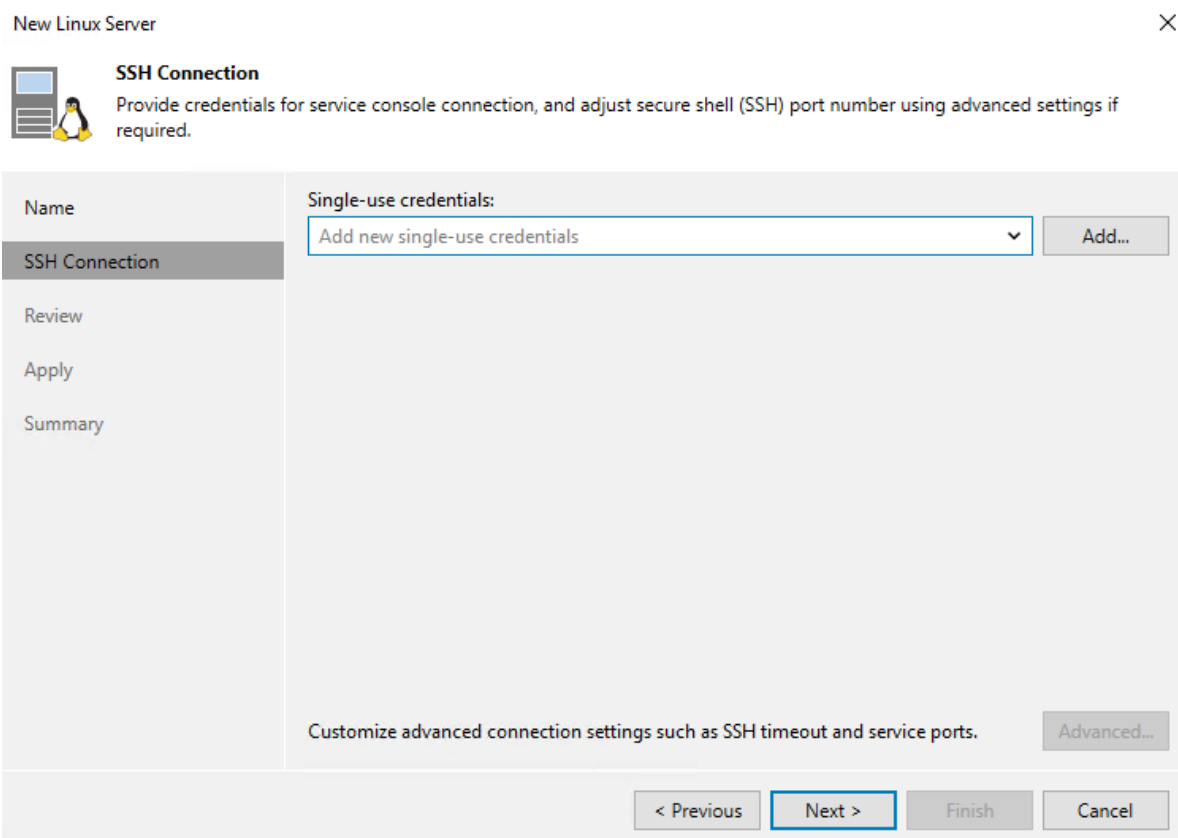
New Linux Server ×

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

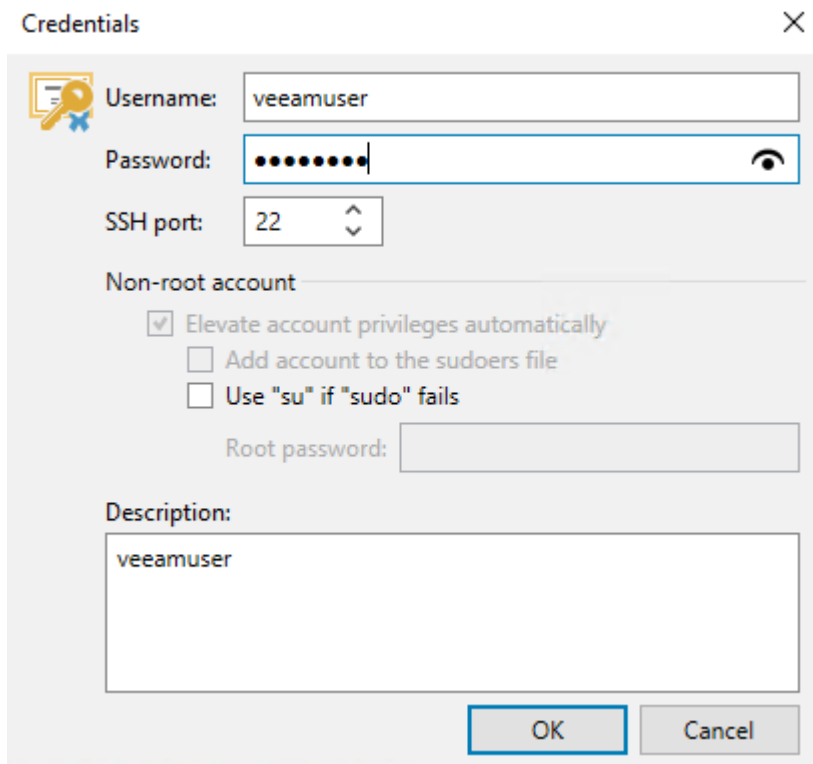
Name	DNS name or IP address: <input type="text" value="172.16.30.10"/>
SSH Connection	Description: <input type="text" value="Created by SW-VEEAMBR-OL\Administrator at 10/4/2024 8:09 AM."/>
Review	
Apply	
Summary	

< 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”.



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	Component name	Status
Review	Installer	will be installed
Apply	Transport	will be installed
Summary		

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

< Previous Apply Finish Cancel

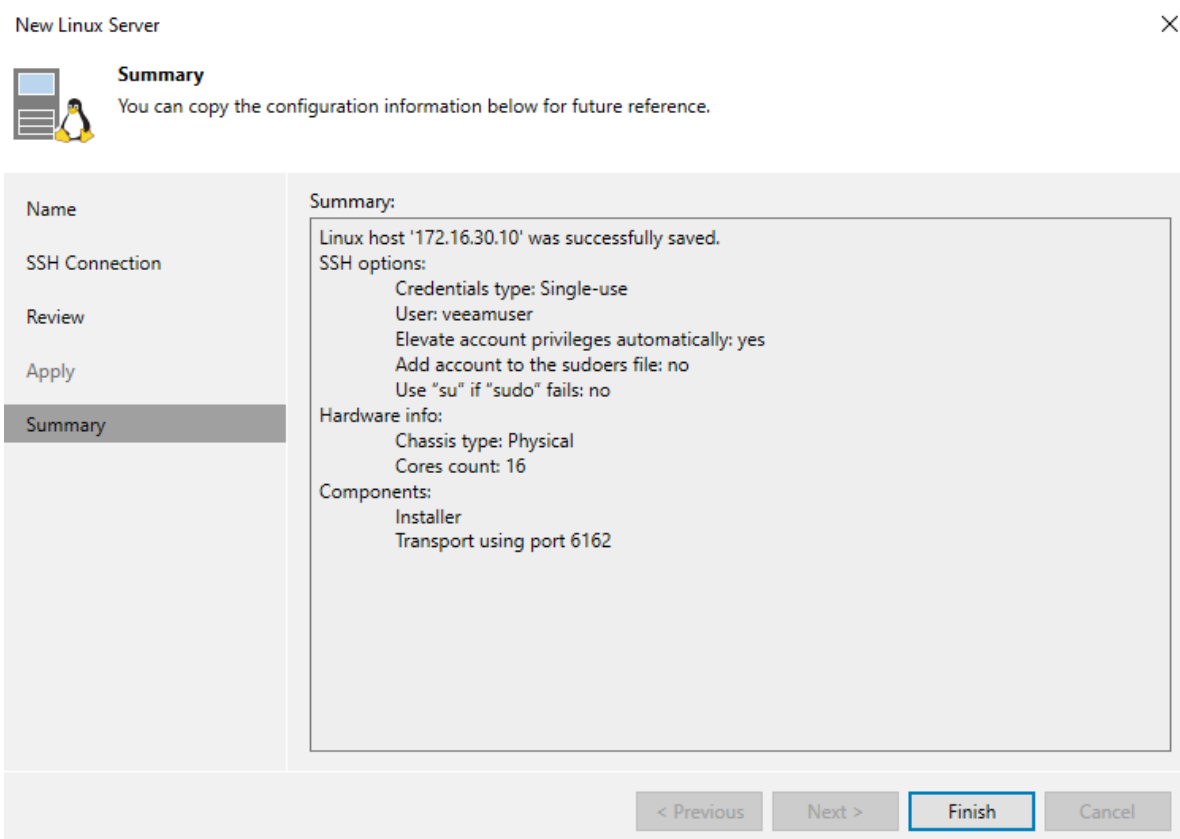
10. Wait until the installation is complete and click “Next”.

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 VBA server and click “Populate”. Select the Backup repository volume created in StarWind VBA 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...
	^			
	Path	Capacity	Free	Populate
	/ (/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		
<p>< Previous Next > Finish Cancel</p>				

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 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 type="button" value=" < 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



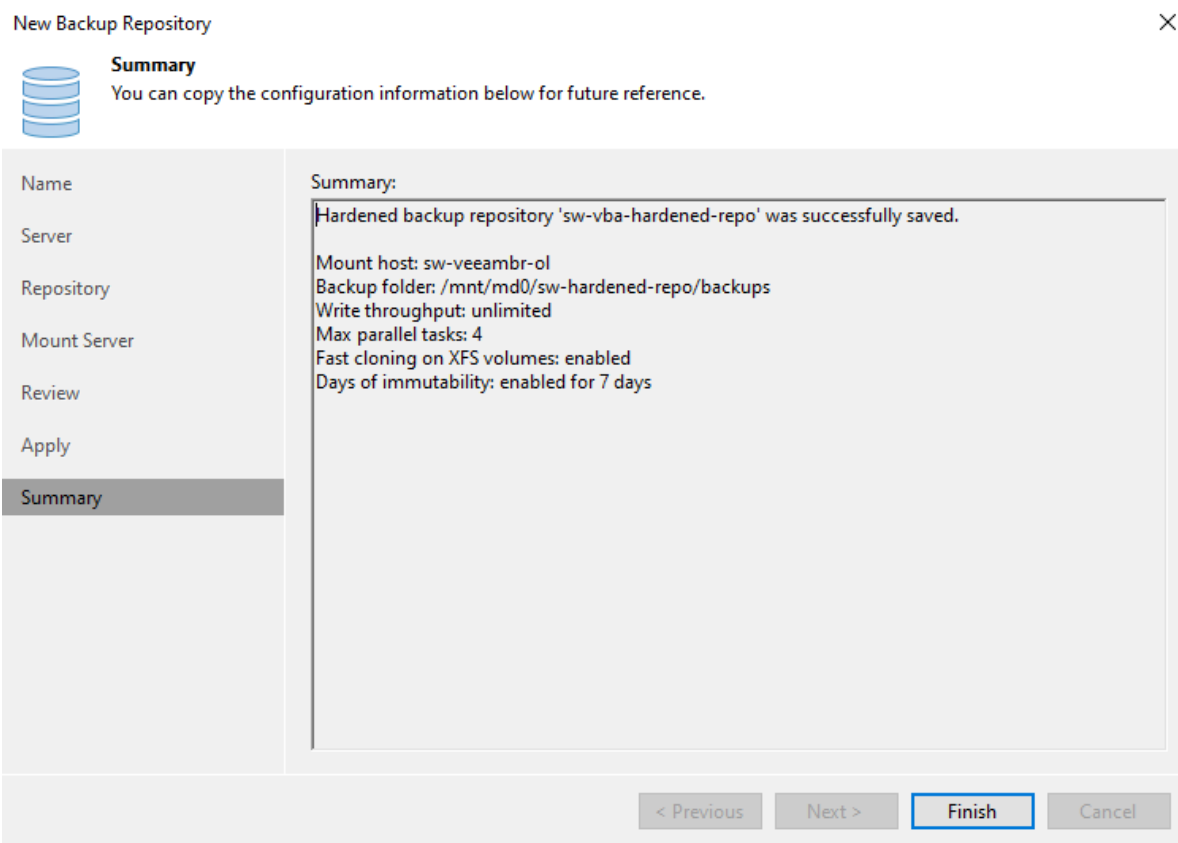
Apply

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

Name		
Server		
Repository		
Mount Server		
Review		
Apply		
Summary		

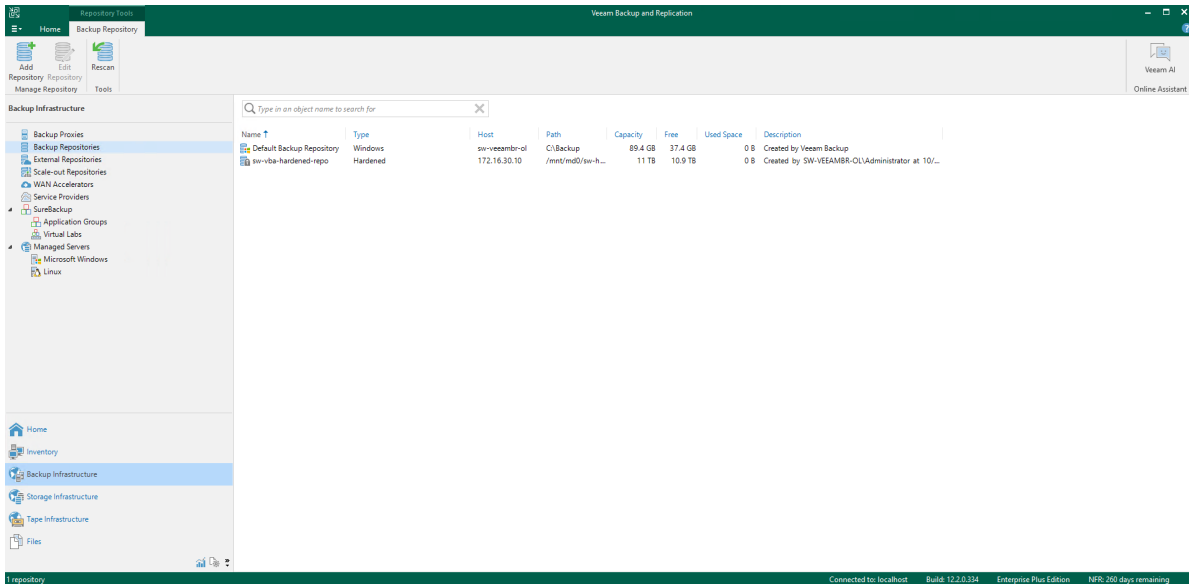
Message	Duration
✔ Starting infrastructure item update process	0:00:02
✔ Discovering installed packages	
✔ Registering client sw-veeambr-ol for package vPower NFS	
✔ Registering client sw-veeambr-ol for package Mount Server	
✔ Registering client sw-veeambr-ol for package VMware VDDK	
✔ Discovering installed 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”.

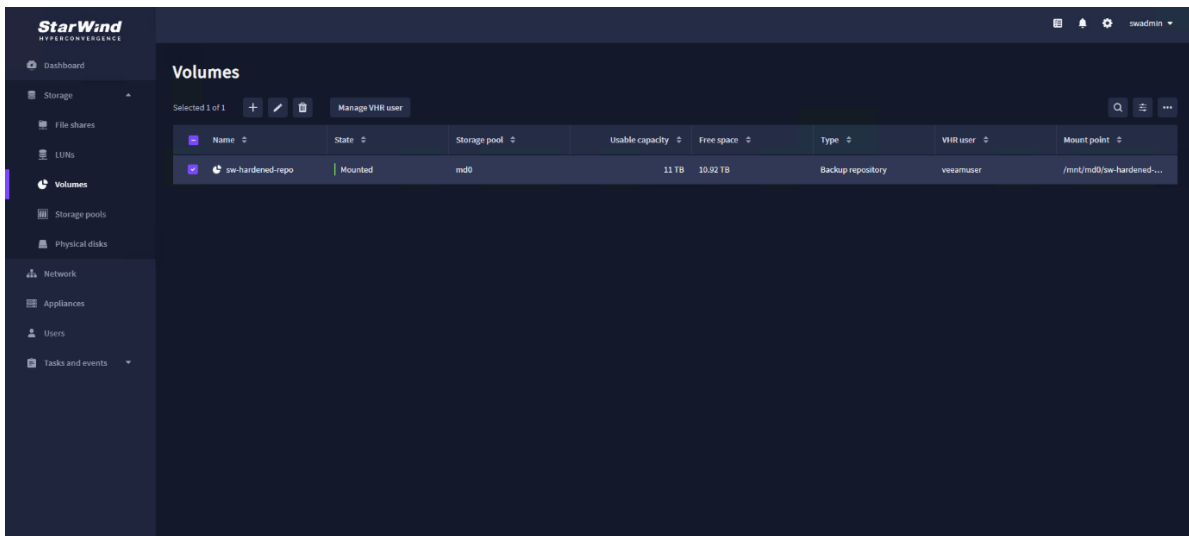


18. Veeam prompts whether you want to change the configuration backup location to the newly added repository. Select the preferred option according to your requirements.

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”.

Manage VHR user ✕

Create a new or choose the existing Veeam hardened repository (VHR) user that will have exclusive access to **sw-hardened-repo**

+ Q








User	Date created	SSH access
veeamuser	10/04/2024 12:56:14	Disabled

Cancel Save

Conclusion

Following this guide, Veeam Hardened Linux Repository has been configured in StarWind VBA installed on a vSphere 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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