

SB Connectivity Veeam - S3 Capacity Tier

This manual shows the instruction for connecting the Silent Brick System with Veeam as a S3 Object Store

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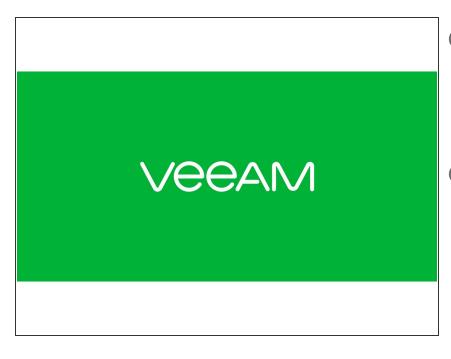


INTRODUCTION

This manual shows the instruction for connecting the Silent Brick System with Veeam as a S3 Object Store under a Scale-Out backup repository.

This guide is tested with Veeam 11 and the Silent Brick System Version 2.39

Step 1 — General Information



(i) Installation and Connectors

Installation and electrical connection as well as network connection are to be done as described in the manual Installation

(i) Network Adjustments The network settings are to be adjusted as described in the manual Installation

Step 2 — SNAS - Volume Setup

Welcome Controllers Shelves IIII Bricks	
Libraries Volumes Archives ✓ Settings Libraries ✓ Connections Libers Motifications Miscellaneous I System Status Overview System Status Overview Support Area I Statistics ✓ History	S3CapacityTier SNAS SNAS Triple Parity Use compression Case Sensitive Optimize for Large File Cancel

The settings of this volume differ from settings for a Backup to disk repository which uses Large File Optimization and probably no Audit.

- Create a new Volume of type 'SNAS' with a parity of 3 or 2
 - Compression is not needed for the capacity tier
 - Disable Large File Optimization
 - (i) For higher redundancy a parity level of 3 is recommended

Step 3 — SNAS - S3 Share setup

General Shares Snape	pshots Bricke Statistics			ihare 🚺 Add NFS Share 🔛 Add S3 Share 🔟 Remove 🚺 Context Menu	
	VFS Shan 💽 Add S3 Share 🔋 Remove 🛛 🔀 Context: Menu	General Shares Snaps	hots Bricks Statistics	Type Name Options ony/CopacityTier S3 CopacityTier browseable	NFS Path
Volume/Path +	Type name Options	Add SMB Share 🚹 Add NF	S Share 🛛 🚹 Add S3 Share 🛛 📋 Rem	0	
		Volume/Path 🔺	Type Name	Manage 53 Buckets	Refresh
		VeeamRepository/CapacityTier	S3 Capacity/Tier	Bucket Name File Count	
			Manage Buckets		
	Add S3 Share		Edit		
	Please enter name and configuration for this share.		Luit	Create New Bucket	
	Share Name: CapacityTier		Remove	Bucket Name: veeambackup	
	Access Key: someAcessKey		Remove	Cancel	Create
	Secret Key: Retype Secret Key:				
	Pert: 9000 🗘				
	Service Point: https://iiiiii iiiiiiiiiiiiiiiiiiiiiiiiiiiii				
	Access Key: someAcessKey			Close	
	Cancel Save				

- In your volume navigate to the Shares section
- Choose "Add S3 Share"
- Enter a Share Name
- Enter credentials for accessing the S3 layer
- The Port will be automatically increased for each new S3 instance
- Write down the Access Point URL.
- Right-Click on the S3 Share and choose "Manage Buckets"
- Create a new Bucket for use with Veeam

Step 4 — Optional: Add custom Certificates

V Settings	Custom SSL-Certificate:				
Network 덬 Connections	NIC	- SSL-Certificate Custom SSL-Certificate:	Yes		
Lusers Notifications Miscellaneous	Global NIC Settings	NIC Global NIC Settings Default Gateway:	SSL-Certificate	Please provide at least a private key and a certificate as file or as text. If you leave all fields empty the SSL-certificate is reseted to system default.	
I SMB I SNMP I Services I Services	DNS Server 1 (IPv4/IPv6): DNS Server 2 (IPv4/IPv6):	DNS Server 1 (IPv4/IPv6): DNS Server 2 (IPv4/IPv6): management	Upload certificate files Private Key: Certificate: CA Certificate:	Please select a private key file (*.key) Please select a certificate file (*.crt) Please select a certificate chain file (*-cs.crt)	Browse Browse Browse
 System Status Overview Support Area Statistics 	TCP/IP(v4)	TCP/IP(v4) Configured by DHCP: IPv4 Address: Subnet Mask: TCP/IP(v6) Router:	Upload certificate as text		
History	Configured by DHCP: IPv4 Address: Subnet Mask:	IPv6 Address: Link Parameters Bonding Mode:	CA Certificate:		
	TCP/IP(v6)	Events Volume Events C		Reset Cancel	Save

- Since S3 communicates via HTTPs, certificates are being used. In order to update the SSL certificate of the Silent Brick System proceed as follows:
 - Navigate to Settings -> Network
 - Select "Edit" for "Custom SSL Certificate" and upload your own certificates.
- (i) Certificates may be generated manually or via services like Lets Encrypt
- Supported certificate types are SSL certificates including the private key and the signing certificate authority.

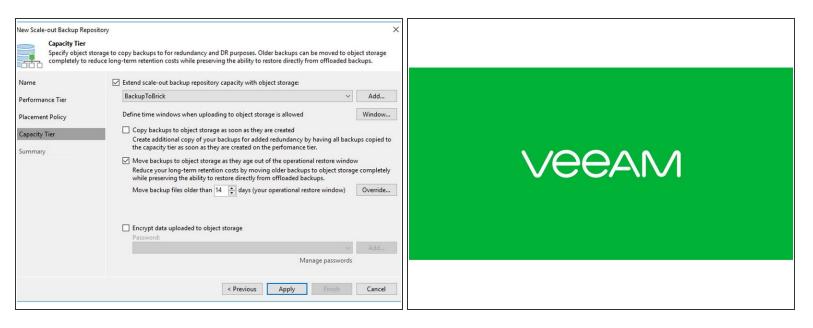
A Certificates with passphrase are not supported.

Step 5 — SNAS - Veeam setup

Object Storage × Select the type of object storage you want to use as a backup repository. ×	AME 4 TYPE HOST PATH § Sentification Real Modeling Million 223 TWeenReportery § Default Rev Oper Stronge Reporting XMML 2224Metter Collection XMML 2224Met	NS NS<
S3 Compatible Adds an on-premises object a prage system or a cloud object storage provider.	Name Service point: Import Account Import Device Import	New Lot Acout
Amazon S3 6 Addu SJ object storage or an AWS Snowball Edge appliance.	Burket (u-sash) Summary Unservice (U-sash) Summary Unservice (U-sash) Summary Add_ Manage cloud accounts	The is a set limit to help control your velocit analysis grand. The specified in the specific term is a set of the specific term is the
Microsoft Azure Blob Storage Adds Microsoft Azure Blob storage. Both Azure Blob Storage and Azure Data Box are supported.		Auchen winn gehöre höjent storage sagehölfen. Object länning must köpport 5 facture.
IBM Cloud Object Storage Adds IBM Cloud object storage. S3 compatible versions of both on-premises and IBM Cloud storage offerings are supported.	Use the following gateway server: WW9-2004P-0004PG (Backup server)	- Phone Hert -
	Setect a gateway server to proxy access to the object storage system. If we gateway ensure is specified, all scale-out backup repository extents must have direct network access to the storage system.	
Cancel		There Takes

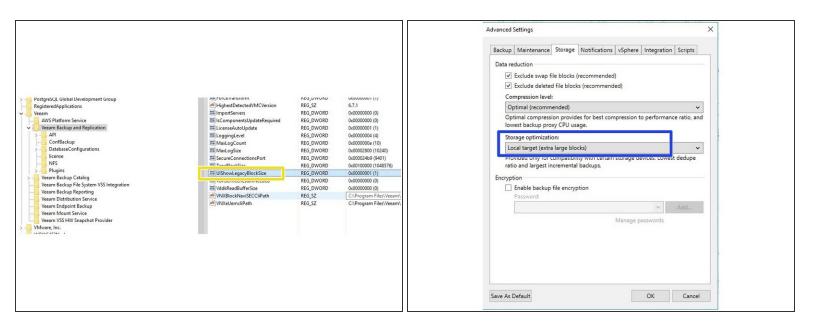
- Add a new repository of type 'Object Storage' 'S3 Compatible'
- Enter the Service Point URL previously noted
- Enter the credentials as defined for the S3 Share
- Select the previously created bucket
- Add a folder to the bucket

Step 6 — Veeam - Add to the Scale-Out Backup repository



- Edit your existing Scale-Out Backup repository and add the new Object Store as capacity tier.
- You Object Store on a Brick is now being used in your Veeam SOBR.
- (i) Retention for data in the capacity tier depends on the Backup Job Retention
- (i) Choose "Copy" to create instant redundancy of your data
- Choose "Move" to free up disk space in the performance tier by moving data to the capacity tier after time.
- (i) Both is combinable
- If you want to archive data in the capacity tier use "Move" in the SOBR and the GFS setting along with a proper retention in your backup job configuration.

Step 7 — Performance tuning - Silent Brick DS



- (i) Per Default VEEAM write quite small objects which can influence the performance especially on spinning disks. Therefor increasing the Object Size can result in a higher Performance.
- Increasing the Object size will result in bigger incremental backups
- To make this option visible, create the UIShowLegacyBlockSize (DWORD, 1) registry value under the 'HKLM\SOFTWARE\Veeam\Veeam Backup and Replication' key on the backup server. Keep in mind that this option significantly increases incremental backups size and requires an active full backup to be activated.
- Modify your Backup Job to use Extra Large Object Sizes
- Run an active full backup

Step 8 — Performance Tuning - Silent Brick FLASH

Advanced Settings Backup Maintenance Storage Notifications vSphere Integration Scr	ripts	Per Default VEEAM write quite small
Backup Maintenance Storage Notifications vSphere Integration Scripts Data reduction Integration Scripts Scripts Scripts Image: Storage optimization: Integration Scripts Storage optimization: Image: Storage optimization: Integration Integration Integration Image: Storage optimization: Integration: Integration: Integration: Image: Storage optimization: Integration: <td>objects which can influence the performance especially on spinning disks. Therefor increasing the Object Size can result in a higher Performance.</td>		objects which can influence the performance especially on spinning disks. Therefor increasing the Object Size can result in a higher Performance.
dedupe ratio and largest incremental backups. Encryption Enable backup file encryption Password: Ad Manage passwords	id.,	Increasing the Object size will result in bigger incremental backups
		 Modify your Backup Job to use Local Target (Large Blocks)
Save As Default OK (Cancel	 Run an active full backup