



# SB Connectivity Veeam - S3-Integrated Object Storage

This manual describes the steps necessary for connecting the Silent Brick System with Veeam as a S3 Object Store Repository.

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## INTRODUCTION

This manual describes the steps necessary for connecting the Silent Brick System with Veeam as a S3 Object Store Repository.

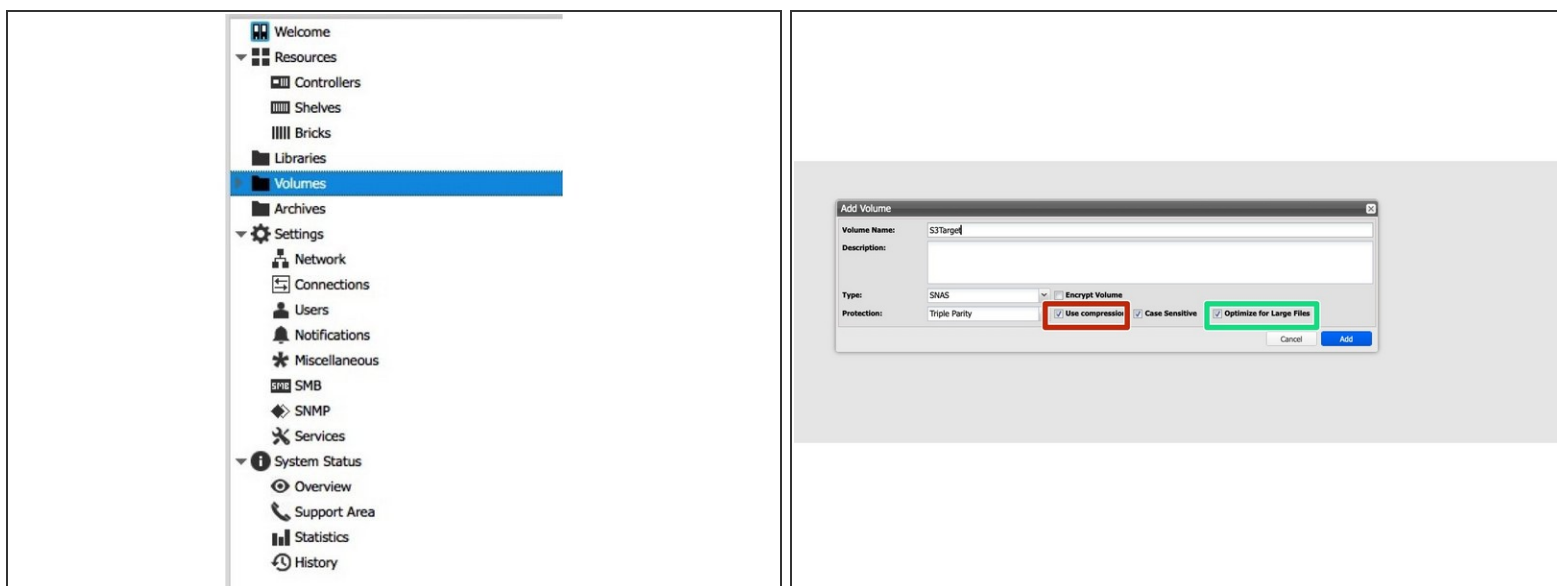
This guide is tested with Veeam 12 and the Silent Brick System Version 2.53

## Step 1 — General Information

The Veeam logo is displayed in white text on a green rectangular background. The logo consists of the word "VEEAM" in a stylized, sans-serif font.

- ① **Installation and Connectors**  
Installation and electrical connection as well as network connection are to be done as described in the manual Installation
- ① **Network Adjustments** The network settings are to be adjusted as described in the manual Installation

## Step 2 — SNAS - Volume Setup



- Create a new Volume of type 'SNAS' with a parity of 3 or 2
- Compression is recommended for the capacity tier
- Enable Large File Optimization
- ① For higher redundancy a parity level of 3 is recommended

### Step 3 — SNAS - S3 Share setup

**Add S3 Share**

Please enter name and configuration for this share.

**Share Name:**

**Object Locking Support:** ☐

**Access Key:**

**Secret Key:**

**Retype Secret Key:**

**Service Point DNS Name:**

**Port:**

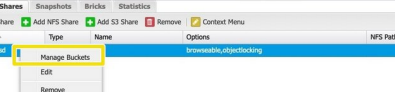
**S3 Connection Settings**

Service Point: https://dnsname:9001

Access Key:

- In your volume navigate to the Shares section
- Choose "Add S3 Share"
- Enter a Share Name
- If the S3 Server should be setup with Object Locking Support, make sure to check the checkbox accordingly.
- Enter credentials for accessing the S3 layer
- The Port will be automatically increased for each new S3 instance

## Step 4 — Create Bucket



The screenshot shows the 'manage volumes' dialog box with the 'Shares' tab active. The table below lists the NFS shares. The 'Manage Buckets' button for the 'seam\_report' share is highlighted with a yellow box.

VolumePath	Type	Name	Options	NFS Path
seam_report	NFS Share	seam_report	browserable,objectlocking	

Buttons for the selected share:

- Manage Buckets (highlighted)
- Edit
- Remove

The screenshot shows the Veeam Backup & Replication console. At the top, there are tabs for General, Shares, Snapshots, Bricks, and Statistics. The 'Shares' tab is selected. Below the tabs, there is a table of shares. The table has columns for Volume/Path, Type, Name, and Options. The first row shows 'veeam\_repos\sid' with Type 'S3' and Options 'browseable,objectlocking'. Below the table, there is a 'Manage S3 Buckets' section. In this section, there are two buttons: 'Create New Bucket' and 'Create New Bucket with Object Locking'. The 'Create New Bucket with Object Locking' button is highlighted with a red rectangle. To the right of these buttons, there is a 'Delete Bucket' button. Below the buttons, there is a 'Object Locking' section. At the bottom of the console, there is a 'Create New Bucket with Object Locking' dialog box. This dialog box has a 'Bucket Name' field and a 'VEAM Integrated' checkbox. The 'Bucket Name' field is empty, and the 'VEAM Integrated' checkbox is unchecked.

Volume/Path	Type	Name	Options
veeam_repos\sid	S3	sid	browseable,objectlocking

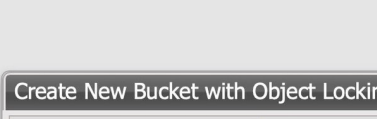
**Manage S3 Buckets**

**Object Locking**

**Create New Bucket with Object Locking**

**Bucket Name:**

**VEAM Integrated:** ☐



**Create New Bucket with Object Locking**

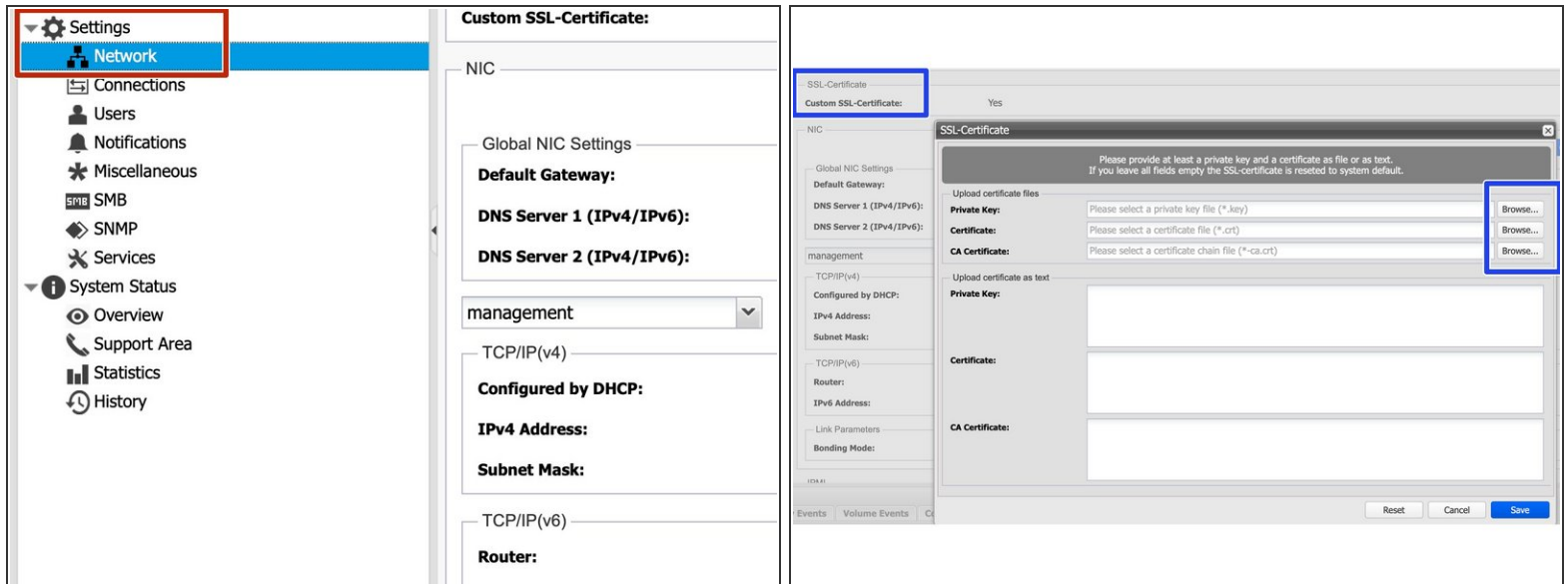
**Bucket Name:**

**VEEAM Integrated:** ☒

- Right-Click on the S3 Share and choose "Manage Buckets"
- Create a new Bucket using the proper Button.
- ☒ Object Locking is only supported if the S3 share was previously set up with Object Locking Support enabled!
- Make sure to enable "VEEAM Integrated"

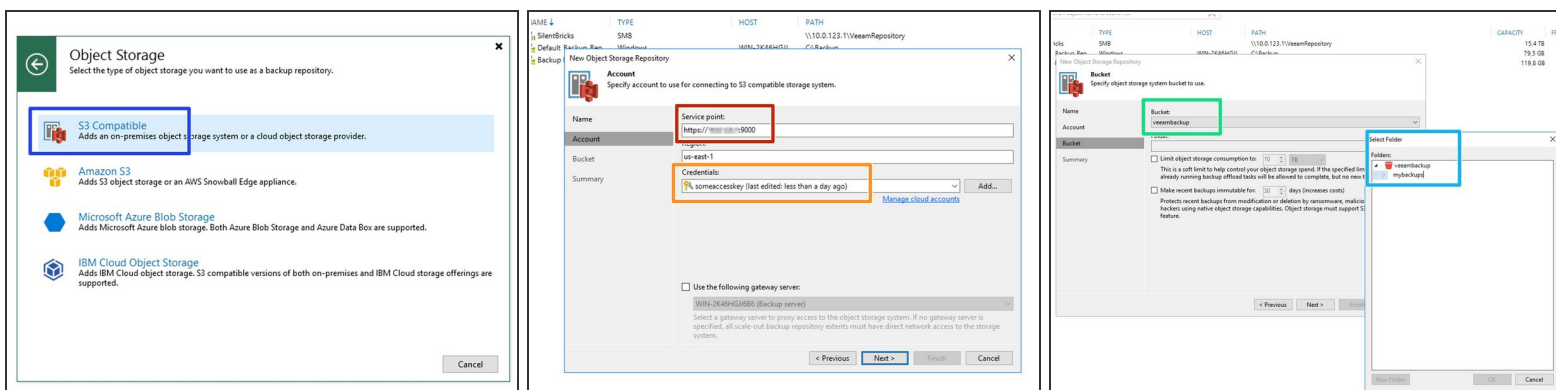
This document was generated on 2024-05-03 03:34:04 AM (MST).

## Step 5 — Optional: Add custom Certificates



- 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.
- ① Certificates may be generated manually or via services like [Lets Encrypt](#)
- ① Supported certificate types are SSL certificates including the private key and the signing certificate authority.
- ⚠ Certificates with passphrase are not supported.

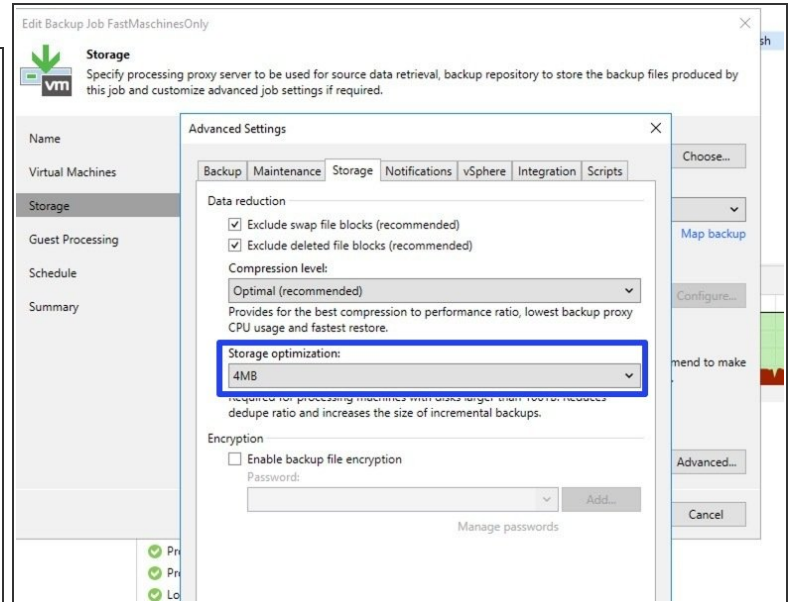
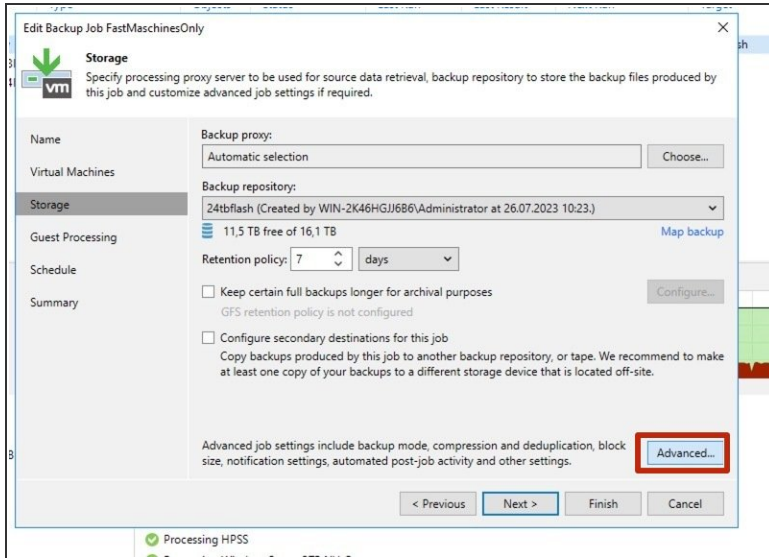
## Step 6 — SNAS - Veeam setup



⚠ Make sure to wait 5 Minutes before connecting VEEAM to your Silent Brick System. VEEAM Integration needs some advance for preparation.

- 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 7 — Backup Job and Performance Tuning



- ❗ Per Default VEEAM writes quite small objects which can influence the performance especially on spinning disks. Therefore increasing the Object Size can result in a higher Performance.
- Switch to the advanced settings of your backup job
- Modify your Backup Job to use 4 MB Blocks (Previously "Local Target - Large Blocks")
- ❗ Blocksize changes will only be applied from the next Active Full Backup on.