# Application Note

**December 2016**

# Configuring the SnapServer as a Veeam Backup Repository

## Summary

This application note describes how to install the Veeam Backup and Replication Agent on an Overland Storage SnapServer® appliance running GuardianOS® 7.7.218 or later for use as a backup repository.

# Overview

When running GuardianOS 7.7.218 or later on a SnapServer, you **MUST** also be running Veeam Backup and Replication version 8.0.0.2084 or later to install the Veeam agent. This application note describes how to install and use that agent.

# Required Information, Tools, and Files

Before installing the Veeam backup agent on a SnapServer, the following information, tools, and files are required.

## Secure Shell (SSH)

To remotely install the Veeam agent, SSH must be enabled on the SnapServer for configuration by the Veeam software. SSH must remain enabled for continuing backup operations.

## Backup Repository Location

The backup repository on the SnapServer must be located underneath a share. Specify the path relative to share mount points on the SnapServer as `/shares/sharename` (where `sharename` is the name of the share to host the repository). If you have accepted the default SnapServer configuration, the correct path is `/shares/SHARE1`.

## Veeam Linux Agent Installer - GSU file

Overland Storage has packaged the Veeam Linux agent installer into a GSU file that can be installed through the standard OS upgrade procedure (**Maintenance > OS Update**). You can get additional technical support on the Internet at http://support.overlandstorage.com, or by contacting Overland Storage using the information found on the Contact Us page on our website.

# Veeam Linux Agent GSU Installation

The Veeam Linux Agent provides the ability to back up a VMware or Hyper-V server to the SnapServer.

## Prepare the SnapServer

To install and set up the Veeam Linux Agent on your SnapServer:

1. Download and save the GSU software to the **client**.

2. Log in to the Web Management Interface and go to **Maintenance > OS Update**.

3. Click **Browse** to navigate to the location of the GSU.

4. Click **OK**.

5. When prompted, click **Update Now**.

6. When the successful update message appears, click **Close**.

7. Download the **SSH private key**.

   a. Enter `http://<servername_or_IP>/htdocs/veeam.<servername>.key` in your browser's address bar.

   > **NOTE:** "<servername_or_IP>" is the actual name of your SnapServer (such as "Snap1234501") or an IP address (such as "192.168.55.210").

   b. When prompted, download the **key file** to a location available to the machine running the Veeam Backup and Replication manager.

## Add SnapServer as New Linux Server to Veeam

1. On your workstation, launch the **Veeam Backup and Replication Console**.

2. Choose **Backup Infrastructure > Manage Servers > Linux > Add Server**.

3. In the New Linux Server wizard, enter the **server name or IP address** of the SnapServer, and click **Next**.

4. At the **SSH Connection** wizard screen:

   a. Press **Add** next to the **Credentials** drop-down box, and select **Linux private key**.

   b. In the **Credentials** window, enter "veeam" for the user name.

   c. Click **Browse** next to the **Private key** box, and browse to the **SSH private key** file you downloaded from the SnapServer to select it.

   d. Check **Elevate specified account to root**.

   > **IMPORTANT:** To prevent possible problems with backups, do **NOT** check the **Add account to sudoers file automatically** option.

   e. Click **OK**.

5. Click **Next** in the configuration confirmation page, then click **Finish** to complete the wizard.

## Add the SnapServer as a Backup Repository

A Veeam backup repository is used as a backup target. Use the following steps to define the backup target path located on the SnapServer.

1. Under **Backup Infrastructure**, right-click **Backup Repositories** and choose the **Add Backup Repository** option.

2. In the **New Backup Repository** wizard, enter the **name** of the SnapServer, and click **Next**.

3. Select **Linux Server**, and click **Next**.

4. In the **Repository Server** drop-down box, select the **SnapServer** previously added as a Linux server, and click **Next**.

5. Select a **Path to folder** to serve as the **backup repository**:

   • If your server is in **default storage configuration**, enter the following line into the **Path to folder** field:

       /hd/vol_mnt0/shares/.project1/VeeamBackupRepository

   • If you would like to locate the repository **inside a specific share**, enter the following line into the **Path to folder** field:

       /shares/<sharename>/VeeamBackupRepository

   where <sharename> is the name of the share you've selected.

NOTE:  When using a share for the repository, Veeam incorrectly reports space consumption and the repository will not work properly if the share is renamed or deleted.

- If you would like to locate the repository **inside a specific volume**, follow these steps:

    i.  Enter the following **line** in your browser's address bar:

    ```
    http://<servername_or_IP>/cadmin/debug.cgi?command=PathFromVol "<volumename>"
    ```

    where `<servername_or_IP>` is the name or IP address of your SnapServer, and `<volumename>` is the name of the volume you've selected (the name is case-sensitive).

    For example:

    ```
    http://Snap123456/cadmin/debug.cgi?command=PathFromVol "Veeam Backup Volume"
    ```

    Be sure to use quotes around the volume name.

    ii.  Copy the path output underneath the **Command** text box.

    Examples:

    ```
    /hd/vol_mnt1/shares/.project8   (DynamicRAID)
    /hd/vol_mnt3/shares             (Traditional RAID)
    ```

    If the command outputs "volume not found" or some other error, check the volume name and command for proper case, characters, and spaces then try again.

    iii. Paste or enter the **path output** in **Step ii** into the **Path to folder** field along with a subdirectory to identify the repository.

    Examples:

    ```
    /hd/vol_mnt1/shares/.project8/VeeamBackupRepository   (DynamicRAID)
    /hd/vol_mnt3/shares/VeeamBackupRepository             (Traditional RAID)
    ```

6.  From the **Mount Server** drop-down menu, select an appropriate **Veeam server** to mount backups for file-level restores, check **Enable vPower NFS service**, then click **Next**.

7.  Click **Next** in the configuration confirmation page, then click **Finish** to complete the wizard.

The SnapServer can now be used as a backup repository target for Veeam backup jobs.