



Veeam Backup & Replication

Inventory Veeam Backup & Replication

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1. Introduction

Docusnap can inventory the backup software Veeam Backup & Replication (Veeam). In this way, you have all set up jobs, their execution times, status and included objects available in Docusnap.

The Veeam inventory requires a WMI connection. The actual information is then queried via PowerShell. Ports used in detail and necessary permissions are listed in the white paper for the inventories. MFA must not be active for the inventory user (service account); see the [Veeam manual](#).

[Chapter 2](#) describes the remote inventory.

As access to backup servers is being severely restricted in more and more infrastructures, a “simple” remote inventory can only be performed in very few cases. [Chapter 3](#) describes script-based inventorying and [Chapter 4](#) describes remote inventorying via an installed Discovery Service on the Veeam server.

In [chapter 5](#) you will find analysis options.

2. Veeam remote inventory

2.1 Performing the remote inventory

For the network inventory of Veeam Backup & Replication start the corresponding wizard:

- Discovery - All Wizards – Veeam Backup & Replication
- Inventory - All Wizards - Veeam Backup & Replication
- All Jobs - All Wizards - Veeam Backup & Replication

In **step 1**, select your company or your customer's company.

In **step 2**, select the Discovery Service through which you want to perform the inventory.

For a scheduled inventory, select Docusnap Server Discovery or a Discovery Service you have configured here.

Furthermore, select or enter the domain and a corresponding authorized user with their password. Use the NetBios spelling for the user (domain\user).

Perform the authentication even if your Veeam server is no longer part of the domain! In the next step, you can specify the local server authentication.

In **step 3** you can now enter the Veeam Backup & Replication server.

If the Veeam servers are not members of the domain, activate server authentication and define a local administrator (e.g. .\Administrator)

2.2 UAC remote restriction - access denied despite local administrator

If you do not use the default administrator to inventory your Veeam server that is no longer part of the domain, the inventory will fail with the error message Access denied. This is due to User Account Control (UAC) and the associated remote restrictions:

When a user who is a member of the local Administrators group on the target remote computer establishes a remote administrative connection, ..., they won't connect as a full administrator.

Further information, including on deactivating the UAC remote restriction, can be found here: [User Account Control and remote restrictions - Windows Server | Microsoft Learn](#).

3. Script-based Veeam inventory

3.1 Performing a Script-based Inventory

Docusnap offers the possibility to capture the Veeam Backup & Replication information also locally, on the Veeam server, using a script-based inventory.

The script file can be found in the Docusnap installation directory:

- %Docusnap-InstallationDirectory%\Discovery-VeeamBR.exe.

You can copy the Discovery-VeeamBR.exe to the Veeam servers and run it.

3.2 Import inventory

After the inventory is finished, you will find two files:

- veeam-VeeamServerName-crypticLabel.dsi

You can import this data to Docusnap using the File Import wizard:

- Discovery - All Wizards - File Import
- Inventory - All Wizards - File Import
- All Orders - All Wizards - File Import

In **step 1**, select your company or your client's company.

In **step 2**, select the discovery service through which you want to perform the inventory.

For a scheduled inventory, select Docusnap Server Discovery or a discovery service you have configured here.

Note here that the user running one of the services must have read and write access to the path selected in the next step.

Local system = storage directory can only be local

In **step 3**, select the directory where you have stored the generated DSI files.

This directory can also be a network drive. Note the share permissions.

In **step 4**, you can now search for valid script files.

If there are files from other script inventories (Active Directory, DNS, Windows, etc.) in the folder you selected, these will also be considered.

3.3 Automate script execution

The big advantage of Docusnap is that data is regularly and automatically inventoried and therefore up to date. This can also be achieved with script inventories.

The first step is to automate the execution of the script. Among other things, this can be done with a software distribution, as well as with Windows on-board means - task scheduling.

Switch to the Task Scheduler of your Veeam Backup & Replication server and create a new task.

In the **General** tab, enter a name and select the security options:

Use the following user account: User with Veeam permission

Run regardless of user logon

Run with highest privileges

Configure for: Select the appropriate operating system

In the **Trigger** tab, you can configure the script execution schedule - for example:

Start Task: On a schedule

Weekly, repeat every 1 week on: Sunday

In the **Actions** tab you define the execution of the Discovery-VeeamBR.exe

We recommend creating a hidden share on the Docusnap server / system that runs the Docusnap Discovery Service.

Two folders are required in this share:

To store the Discovery-VeeamBR.exe - read permissions are required here.

z. B. `\\SRV-Docu\DocusnapScript$\Scripts`

To store the result files - change authorisations are required here.

z. B. `\\SRV-Docu\DocusnapScript$\Company#Domain.FQDN`

The authenticated user group is often used here - however, the configuration of NTFS authorisations should always be considered individually. Additional hardening measures must be taken on a customer-specific basis.

Action: Start program

Program / script: `\\SRV-Docu\DocusnapScript$\Scripts\Discovery-VeeamBR.exe`

Arguments: `-O "\\SRV-Docu\DocusnapScript$ Account#Domain.FQDN"`

The -O parameter redirects the result files to the specified path. The user performing the inventory must have write permissions on this path.

The newly created task ensures that the inventory is run regularly and automatically.

It should always be ensured that the current version of the script file is used! This means that after an update of Docusnap you also exchange the script files! A best practice approach for this can be found in the chapter - [Keeping used script files up to date](#).

The next step is to set up the import of the inventory as a job. Note that during an import job, you can also automatically import the results of the other script-based inventories.

Open the File Import Wizard:

- Discovery - All Wizards - File Import.
- Inventory - All Wizards - File Import
- All Orders - All Wizards - File Import

In **step 1**, select your company or your customer's company.

In **step 2**, select the Docusnap Server service or a discovery service you created.

In **step 3**, select the directory where the generated DSI files will be stored:

In the recommended configuration, this folder is located locally on the Docusnap Server or on the system that provides the discovery service

Additional directories can also be added for the remaining script executions

In **step 6**, you configure the scheduling.

Besides the simple File Import, you can also use the Multi-company import. This allows you to import files for multiple companies and/or domains at the same time.

3.4 Keeping used script files up to date

We generally recommend installing a Docusnap Discovery Service (DDS) at least on the system where the Docusnap Server has been configured when using one / the script variants. Additional DDSs can be placed in the decentralized networks (sites, VLANs, etc.).

In the DDS settings, you can specify an additional directory for storing the inventory modules (script files). This causes the script files to be automatically replaced when Docusnap is updated, so they are always up-to-date.

Install and configure the DDS - a HowTo can be found in our Knowledge Base.

After configuration, go to the Settings tab and set the storage directory:

- C:\DocusnapScript\Scripts.

Then share the folder over the network: \\SRV-Docu\DocusnapScript\$.

You can use this share again to call the script file (read permission)

- \\SRV-Docu\DocusnapScript\$\Scripts\Discovery-VeeamBR.exe

and to store the result files (write permission):

- \\SRV-Docu\DocusnapScript\$\Company#Domain.FQDN

4. Remote inventory via the Docusnap Discovery Service

In more and more infrastructures, access to the backup servers is severely restricted. For this reason, remote inventorying of these systems is not possible.

An alternative to remote inventorying is script-based inventorying, which was described in the previous chapter.

Another variant that is already used by many customers is inventorying via a Docusnap Discovery Service (DDS).

The DDS is installed on the Veeam Backup & Replication servers and connected to the Docusnap server via the server API (http/https and defined port, standard 9001). The Veeam inventory and also the Windows inventory of the system is then done via this local DDS.

The connection of a DDS always goes from the DDS to the Docusnap server! This connection can be restricted via firewall rules.

The DDS can also be configured so that the underlying windows service - Docusnap Discovery - is executed by a local service user with appropriate permissions.

Further information on the installation and configuration of the DDS can be found in the HowTo in the Knowledge Base.

5. Evaluation options

The inventoried information of the Veeam inventory can be found in the tree structure as follows:

- Your company - Infrastructure - Your domain - Application server - Veeam B&R

Here you can now navigate through the inventoried information.

Reports are available in two places in the tree structure. Once below the respective inventory and directly below the domain:

- Your company - Infrastructure - Your domain - Application server - Veeam B&R - Your Veeam server - Scan date - Reports
- Your company - Infrastructure - Your domain - Reports - Backup Veeam B&R

Also take a look at the reports you can find here:

- Your company - Infrastructure - Your domain - Reports - Backup analysis

VERSION HISTORY

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06/03/2024	Version 1.2 - HowTo created
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