



Veeam Backup as a Service

SovLabs vRealize Automation Extensibility Module

End User Guide



Request a VM with specified Veeam Backup Job

The vRA administrator may have pre-configured vRA blueprint(s) with a specific Veeam Backup Profile attached. The VM will be listed in the Virtual Machines list of the given Veeam Backup Job in Veeam.

1. Login to the vRA tenant
2. Click on the **Catalog** tab
3. Request a vRA blueprint with a specified Veeam Backup Profile
 - a. The vRA blueprint will have a vRA Property Group attached starting with:

SovLabs-VeeamBackupProfile-

***Please note:** When destroying VMs, if the VM is the last one in the Veeam Backup Job, it will not be removed from the Veeam Backup Job since a Veeam Backup Job must have at least 1 VM). The VM will be removed from vCenter as expected.



Request a VM and specify a Veeam Backup Job

The vRA administrator may have pre-configured vRA blueprint(s) to allow you to specify a Veeam Backup Job at request time. The VM will be listed in the Virtual Machines list of the given Veeam Backup Job in Veeam.

1. Login to the vRA tenant
2. Click on the **Catalog** tab
3. Request a vRA blueprint that enables requesters to specify a Veeam Backup Job
 - a. On the VM form, two fields should appear:
 - i. **Veeam BEM Endpoint**
 - ii. **Veeam Backup Job**
4. Select the desired Veeam BEM Endpoint
5. Select the desired Veeam Backup Job to add the VM to
 - a. *Drop-down gets auto-populated when a Veeam BEM Endpoint is selected
6. Go through the rest of the blueprint form details as normal
7. Click **Submit**

***Please note:** When destroying VMs, if the VM is the last one in the Veeam Backup Job, it will not be removed from the Veeam Backup Job since a Veeam Backup Job must have at least 1 VM. The VM will be removed from vCenter as expected.

Screenshot

vmware vRealize Automation

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New Request

W2012 Veeam Manual

vSphere Machine: vSphere_Machine_1

General Storage Properties

* Instances: 1 (Select 1-10)

CPUs: 1

Memory (MB): 4096

Storage (GB): 40

Description:

* Veeam BEM Endpoint: veeam95

* Veeam Backup Job: Win Indexed

Recover VM

Recover a VM to a Veeam Restore Point. Once the process has started, it cannot be stopped.

1. Login to the vRA tenant
2. Click on the **Items** tab and then **Machines** on the left menu
3. Select the desired VM and click on **Actions** on the top column of the VM list
4. Select **Recover VM (Veeam)**
 - a. **Select timezone:** Select appropriate timezone
 - b. **Restore time period:** Select 1 of the 3 options:
 - i. **Latest backup:**
 1. **Snapshot:** Drop-down will auto-populate with the latest backup
 - ii. **Latest backup before date:**
 1. **Before date:** Pick a date to get all snapshots before the selected date
 2. **Snapshot:** Choose the desired snapshot
 - iii. **Pick backup from date range:**
 1. **Start date:** Pick a date to get all snapshots after the selected date
 2. **End date:** Pick a date to get all snapshots before the selected date
 3. **Choose a snapshot:** Choose the desired snapshot
 - c. **Emails to notify:** Field is auto-generated with the requester's email. Add any additional emails that should be notified of the start and success or error.
 - d. **Restore VM:** The selected VM name to perform full restore on is displayed.
 - e. **Warning:** Warns the requester that the VM will be destroyed and recovered.
 - f. **Type in VM name to confirm:** This is a required field that must match the VM name and is case-sensitive.
5. Click **Submit**




Screenshot

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New Request



Recover VM (Veeam)
SovLabs Veeam Backup as a Service module

* Select timezone:

GMT

* Restore time period:

Latest backup

* Restore point:

ts-003-012@2017-07-14 11...

* Emails to notify:

requester@sovlabs.com

Confirm Restore VM

Restore VM:

ts-003-012

Warning:

I understand that by submitting this request, the current VM will be destroyed and recovered from the selected restore point. The VM will be unavailable during the recovery process. The request status can be tracked via Requests tab.

* Type in VM name to confirm:

ts-003-012



Recover Files and Folders on VM

1. Login to the vRA tenant
2. Click on the **Items** tab and then **Machines** on the left menu
3. Select the desired VM and click on **Actions** on the top column of the VM list
4. Select [Recover Files and Folders \(Veeam\)](#)
 - a. **Select restore point**
 - i. **Select timezone:** Select appropriate timezone
 - ii. **Restore time period:** Select 1 of the 3 options:
 1. **Latest backup:**
 - a. **Restore point:** Drop-down will auto-populate with the latest restore point
 2. **Latest backup before date:**
 - a. **Before date:** Pick a date to get all snapshots before the selected date
 - b. **Restore point:** Choose the desired restore point
 3. **Pick backup from date range:**
 - a. **Start date:** Pick a date to get all snapshots after the selected date
 - b. **End date:** Pick a date to get all snapshots before the selected date
 - c. **Restore point:** Choose the desired restore point
 - iii. **Check the checkbox to activate this restore point**

Only check **once per** Restore Point selected. The checkbox will automatically uncheck once files are presented

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New Request

VEEAM

Recover Files and Folders (Veeam)
SovLabs Veeam Backup as a Service module

Select restore point Select files or folders OS Credentials

Recover Files and Folders for VM: ts-003-013

* Select timezone: GMT

* Restore time period: Latest backup

* Restore point: ts-003-013@2017-07-14 11...

b. **Select files or folders**

i. **Toggle refresh for VM file list?**

This field appears when the requester has selected a restore point that is not indexed.

In Veeam, this means that the restore point does not have an instantly-accessible file system so the file system must be **mounted**. Mounting can take up to 60 seconds (as mentioned in the Note below).

The requester clicks the checkbox which forces the system to check if the file system is mounted. If the file system is mounted, values will appear in the Files list below.

If the file system is not yet mounted, the Files list will remain blank.

The requester **must** click the checkbox every few moments until the system is mounted.

Once the file system is mounted, this checkbox and the Note field will be unmapped at the next requester action, such as entering a path in the File path.

If the restore point has an **indexed** file system, this field and the Note field below do not appear and the Files list will contain values.

ii. **File path**

User entered value for a starting path to search for files and folders.

To drill into a specific folder, update the file path by appending the folder name.

Repeat until desired folder/files are seen.

iii. **Files**

Leaving the File Path blank will cause the root of the file system to appear in the Files field. For Windows, this could be something like C:, D:, etc. For Linux, it could be multiple files/folders that appear at the base (/) of the restore point such as root, centos-root, sda1, sda2, etc.

To select the file(s) and/or folder to restore, select the file/folder on the left column and move it to the right column with the right arrow (>)

When files or folders exist in the right column, the File path field will become readonly.

To update the File path, please remove all files/folders from the right column back to the left by selecting the file/folder and clicking the left arrow (<).



iv. Overwrite existing files with restore?

Select whether or not to overwrite existing files.

If No, then Veeam will restore the file(s) and/or folder(s) within a folder in the same destination with a name generated during the recovery

The screenshot shows the 'New Request' form in the VMware vRealize Automation interface. The 'Items' tab is selected, and the 'Recover Files and Folders (Veeam)' module is chosen. The 'Select files or folders' tab is active. The 'Click the checkbox to activate this restore point:' checkbox is checked. The 'Toggle refresh for VM file list?:' checkbox is also checked. A note states: 'Please wait at least 60 seconds before toggling this button as we are currently mounting the file system to present you with a list of file and folder options below.' The '* File path:' field is empty. The '* Files:' field shows 'No files or directories found'. The 'Overwrite existing files with restore?:' checkbox is unchecked.

First view

The screenshot shows the 'New Request' form in the VMware vRealize Automation interface, showing the 'Second view'. The 'Select files or folders' tab is active. The 'Click the checkbox to activate this restore point:' checkbox is unchecked. The '* File path:' field is populated with 'c:\Program Files'. The '* Files:' field shows a list of files and folders: '\Common Files', '\Microsoft Silverlight', '\Uninstall Information', '\Update Services', '\VMware', and '\Windows Mail'. The 'Overwrite existing files with restore?:' checkbox is checked.

Second view

c. **OS credentials**

- i. **OS Username:** Type in the username for the VM with rights to recover files/folders
- ii. **OS Password:** Type in the username's password
- iii. **Emails to notify:** Field is auto-generated with the requester's email. Field is auto-generated with the requester's email. Add any additional emails that should be notified of the start and success or error.

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New Request

VEEAM

Recover Files and Folders (Veeam)
SovLabs Veeam Backup as a Service module

Select restore point Select files or folders **OS Credentials**

* OS Username:

* OS Password:

* Emails to notify: +
requester@sovlabs.net

5. Click **Submit**

Disclaimers

- If the request to [Recover Files and Folders \(Veeam\)](#) for a VM has been abandoned (X-ed out, canceled, left idle, etc), there may be up to a 20 minute delay before the user can try to fill out the form again for the same VM.
- If there are multiple users trying to access [Recover Files and Folders \(Veeam\)](#) for the same VM, a potential collision may occur and the last user's session will negate the first user's session.
- The overall form and UI experience may be slow since vRA does not have a hook into showing the progress of Veeam data loading from the Veeam API.

