



## **Cohesity Backup as a Service**

**SovLabs vRealize Automation Extensibility Module**

### **End User Guide**



## Request a VM with specified Cohesity Backup Job

The vRA administrator may have pre-configured vRA blueprint(s) with a specific Cohesity Backup Profile attached. The VM will be added to the specified Cohesity Protection Job(s)

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

## Request a VM and specify a Cohesity Protection Job

The vRA administrator may have pre-configured vRA blueprint(s) to allow you to specify a Cohesity Protection Job at request time. The VM will be added to the specified Cohesity Protection Job.

1. Login to the vRA tenant
2. Click on the **Catalog** tab
3. Request a vRA blueprint that enables requesters to specify a Cohesity Protection Job
  - a. On the VM form, one field should appear:
    - i. Cohesity Protection Job
4. Select the desired Cohesity Protection Job to add the VM to
5. Go through the rest of the blueprint form details as normal
6. Click **Submit**




## Screenshot

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Home Catalog Items Requests Inbox Design Administration Infrastructure Containers

New Request



vSphere Machine: vSphere\_Machine\_1

General Storage Properties

\* Instances: 1 (Select 1-10)


CPUs: 1

\* Memory (MB): 2048 (Select 2048-4096)

Storage (GB): 16

Description:

\* Cohesity Protection Job:

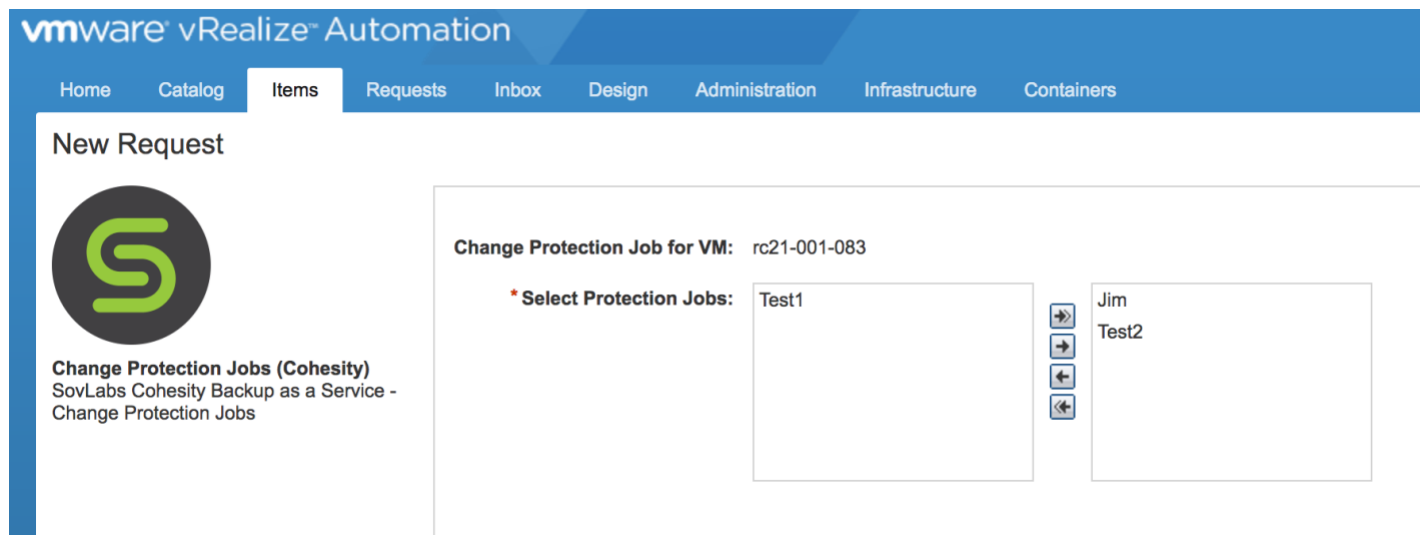


## Change Protection Jobs for VM

Change a VM's Cohesity Protection Jobs.

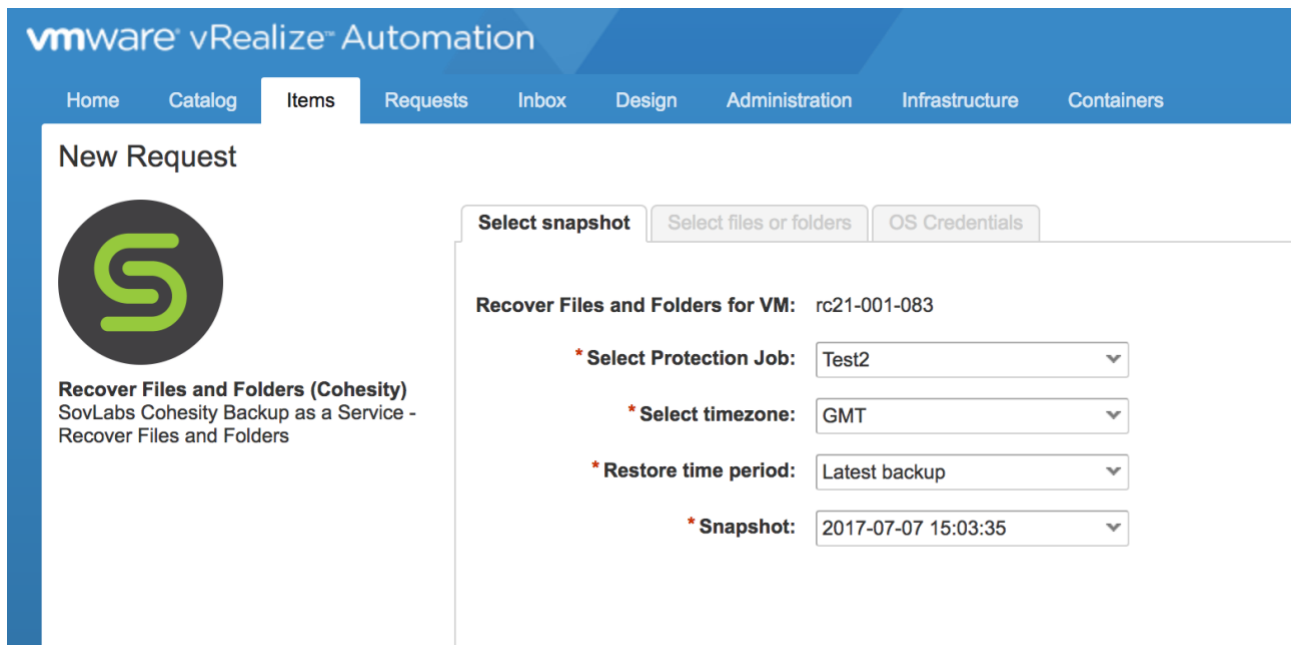
1. Login to the vRA tenant
2. Click on the **Items** tab and then **Machines** on the left menu
3. Select the desired VM and click on **Actions** on the top column of the VM list
4. Select **Change Protection Job (Cohesity)**
  - a. **Select Protection Jobs:**
    - i. The current protection jobs on the VM are shown on the right column. To de-select, select a protection job on the right column and move it to the left column with the left arrow (<)
    - ii. Any remaining/available protection jobs are shown on the left column. To select a protection job, select the desired protection job from the left column and move it to the right column with the right arrow (>)
5. Click **Submit**

### Screenshot



## 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 (Cohesity)**
  - a. **Select snapshot**
    - i. **Select Protection Job:** Select the desired Cohesity Protection Job
    - ii. **Select timezone:** Select appropriate timezone
    - iii. **Restore time period:** Select 1 of the 3 options:
      1. **Latest backup:**
        - a. **Snapshot:** Drop-down will auto-populate with the latest backup
      2. **Latest backup before date:**
        - a. **Before date:** Pick a date to get all snapshots before the selected date
        - b. **Snapshot:** Choose the desired snapshot
      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. **Choose a snapshot:** Choose the desired snapshot



The screenshot shows the VMware vRealize Automation interface. The top navigation bar includes 'Home', 'Catalog', 'Items', 'Requests', 'Inbox', 'Design', 'Administration', 'Infrastructure', and 'Containers'. The 'Items' tab is selected. On the left, under 'New Request', there is a logo for 'Recover Files and Folders (Cohesity)' with the text 'SovLabs Cohesity Backup as a Service - Recover Files and Folders'. The main form area has three tabs: 'Select snapshot' (active), 'Select files or folders', and 'OS Credentials'. The form is titled 'Recover Files and Folders for VM: rc21-001-083'. It contains four dropdown menus, each with a red asterisk indicating a required field: 'Select Protection Job' (set to 'Test2'), 'Select timezone' (set to 'GMT'), 'Restore time period' (set to 'Latest backup'), and 'Snapshot' (set to '2017-07-07 15:03:35').



b. **Select files or folders**

i. **Operating System**

In the event this field is not auto-populated, please select the VM's operating system

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

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

The requester **must** click the checkbox every few moments until values appear in the **Files** section

This checkbox and the Note field will be unmapped at the next requester action, such as entering a path in the File path.

iii. **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.

iv. **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 read-only.

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 (<)

v. **Overwrite existing files with restore?**

Select whether or not to overwrite existing files.


If No, then Cohesity will create a copy



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Home Catalog **Items** Requests Inbox Design Administration Infrastructure Containers

### New Request



**Recover Files and Folders (Cohesity)**  
SovLabs Cohesity Backup as a Service - Recover Files and Folders

Select snapshot Select files or folders OS Credentials

\* Operating System: Linux

File path: /

\* Files: /tmp /etc /root /tmp /mnt /run


Overwrite existing files with restore?: ☒

- c. OS credentials
- OS Username:** Type in the username for the VM with rights to recover files/folders
  - OS Password:** Type in the username's password
  - 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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Home Catalog **Items** Requests Inbox Design Administration Infrastructure Containers

### New Request



**Recover Files and Folders (Cohesity)**  
SovLabs Cohesity Backup as a Service - Recover Files and Folders

Select snapshot Select files or folders **OS Credentials**

\* OS username: root

\* OS password: .....

Emails to notify: requester@email.com

5. Click **Submit**



**\*Note:** If notifications have been set up, the user will get emails similar to the following:

Backup as a Service - Cohesity Recover Files and Folders Started

Message

Delete Reply Reply All Forward Attachment Meeting Move Junk Rules Read/Unread Categorize Follow Up

Backup as a Service - Cohesity Recover Files and Folders Started

SS

Sovlabs Support

To: [redacted]

COHESITY

Cohesity Backup as a Service - Recover Files and Folders Started

Recover Files and Folders job started for VM: [ecllweb015](#)

Recover Files and Folders Job details

vRA tenant:	test41-001
vRA business group:	test41-001
Virtual machine:	ecllweb015
Machine owner:	[redacted]
Snapshot:	2017-10-06 16:15:40
File list:	initrd-plymouth.img

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Backup as a Service - Cohesity Recover Files and Folders Success -

Message

Delete Reply Reply All Forward Attachment Meeting Move Junk Rules Read/Unread Categorize Follow Up

Backup as a Service - Cohesity Recover Files and Folders Success

SS

Sovlabs Support

To: [redacted]

COHESITY

Cohesity Backup as a Service - Recover Files and Folders Success

Recover Files and Folders job finished successfully for VM: [ecllweb015](#)

Recover Files and Folders Job details

vRA tenant:	test41-001
vRA business group:	test41-001
Virtual machine:	ecllweb015
Machine owner:	[redacted]
Snapshot:	2017-10-06 16:15:40
File list:	initrd-plymouth.img

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## Instant Backup a VM



To instantly backup a VM in Cohesity. Once the process has started, it cannot be stopped.

Instant Backup is only supported starting from SovLabs Plug-in **2019.2.0** and Cohesity **6.1**

1. Login to the vRA tenant
2. Click on the **Deployments** tab and then **Machines** in the **Components** filter
3. Click on the desired deployment
4. Select the desired VM and click on **Actions** (gear icon) next to the VM name
5. Select **Instant Backup (Cohesity)**
  - a. **Protection Job:** Select the Cohesity Protection Job to perform an Instant Backup on
  - b. **Emails to notify:**
    - i. 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.
6. Click **Submit**


**\*Note:** If notifications have been set up, the user will get emails similar to the following:

Backup as a Service - Cohesity Instant Backup Started






**support@sovlabs.com** <support@sovlabs.com>  
COHESITY  
Instant Backup job started for VM: 


**COHESITY**

**Cohesity Backup as a Service - Instant Backup Started**

Instant Backup job started for VM: 



**Instant Backup Job details**

vRA tenant:	
vRA business group:	
Virtual machine:	
Machine owner:	
Protection Job:	

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Backup as a Service - Cohesity Instant Backup Success






**support@sovlabs.com** <support@sovlabs.com>  
COHESITY  
Instant Backup job finished successfully for VM: 


**COHESITY**

**Cohesity Backup as a Service - Instant Backup Success**

Instant Backup job finished successfully for VM: 

**Instant Backup Job details**

vRA tenant:	
vRA business group:	
Virtual machine:	
Machine owner:	
Protection Job:	

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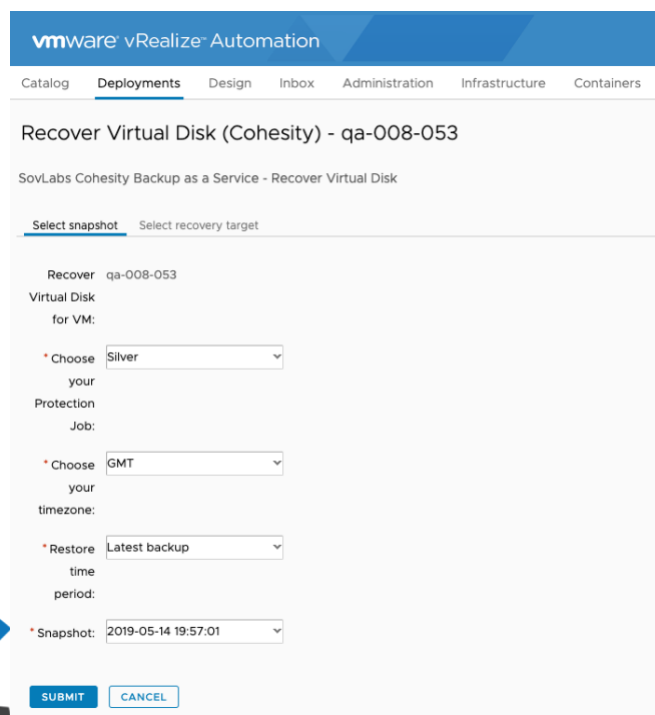
## Recover Virtual Disk

Recover Virtual Disk may be performed as a Day 2 operation on an existing VM that allows recovering an entire virtual disk – either by overwriting the existing disk or recovering to a new (unmounted) device.

Once the process has started, it cannot be stopped.

Instant Backup is only supported starting from SovLabs Plug-in **2019.8.0** and Cohesity **6.1**

1. Login to the vRA tenant
2. Click on the **Deployments** tab and then **Machines** in the **Components** filter
3. Click on the desired deployment
4. Select the desired VM and click on **Actions** (gear icon) next to the VM name
5. Select **Recover Virtual Disk (Cohesity)**
  - a. **Select snapshot**
    - i. **Select Protection Job:** Select the desired Cohesity Protection Job
    - ii. **Select timezone:** Select appropriate timezone
    - iii. **Restore time period:** Select 1 of the 3 options:
      1. **Latest backup:**
        - a. **Snapshot:** Drop-down will auto-populate with the latest backup
      2. **Latest backup before date:**
        - a. **Before date:** Pick a date to get all snapshots before the selected date
        - b. **Snapshot:** Choose the desired snapshot
      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. **Choose a snapshot:** Choose the desired snapshot



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Catalog **Deployments** Design Inbox Administration Infrastructure Containers

Recover Virtual Disk (Cohesity) - qa-008-053

SovLabs Cohesity Backup as a Service - Recover Virtual Disk

Select snapshot Select recovery target

Recover qa-008-053  
Virtual Disk  
for VM:

\* Choose your Protection Job: Silver

\* Choose your timezone: GMT

\* Restore time period: Latest backup

\* Snapshot: 2019-05-14 19:57:01

SUBMIT CANCEL

b. **Select recovery target**

- i. **Disk to Recover:** Select desired disk to recover
- ii. **Overwrite Disk?** Select whether to Overwrite existing virtual disk or Restore as new virtual disk

1. **Overwrite existing virtual disk**

- a. Note:
  - i. If this option is selected, the existing disk is detached and deleted; the cloned backup copy replaces it.
  - ii. The existing UUID of the disk is preserved and the recovered disk is restored to the same controller and unit number as the original.

2. **Restore as new virtual disk**

- a. **New Disk Location:** Select desired virtual disk location for restoring the new virtual disk

- b. Note:
  - i. If this option is selected, the backup will be restored as a new virtual disk.
  - ii. The UUID of the recovered disk is also currently preserved, which will require the duplicate UUID to be resolved or the VM will not boot.
  - iii. An option to select the appropriate datastore must then be selected.
  - iv. Therefore, this option applies best to situations where the disk to be restored has either failed physically or was deleted accidentally.
  - v. In such cases there will be no UUID conflict, and the restored disk will show up as a new unmounted device. For example, on a Linux VM if there is a device called 'sda', the disk will be restored as 'sdb'.
  - vi. The restored disk will not be mounted by default.
  - vii. Cohesity will find the appropriate controller to attach new disks to, while being mindful of the limits of the controllers.
  - viii. If there is no controller which can accommodate the new disks, the operation will be failed intentionally.

i. **Emails to notify**

- 1. 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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Catalog Deployments Design Inbox Administration Infrastructure Containers

### Recover Virtual Disk (Cohesity) - qa-008-053

SovLabs Cohesity Backup as a Service - Recover Virtual Disk

Select snapshot: Select recovery target

\* Disk to Recover: XtremIO\_5t\_datastore3 (mounts:/boot) [354/6000C2...]

Overwrite Disk?: Overwrite existing virtual disk

Emails to notify: johnsmith@company.com

SUBMIT CANCEL

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Catalog Deployments Design Inbox Administration Infrastructure Containers

### Recover Virtual Disk (Cohesity) - qa-008-053

SovLabs Cohesity Backup as a Service - Recover Virtual Disk

Select snapshot: Select recovery target

\* Disk to Recover: XtremIO\_5t\_datastore3 (mounts:/boot) [354/6000C2...]

Overwrite Disk?: Restore as new virtual disk

\* New Disk: XtremIO-NestedHosts1 (2.4 TB available of 4 TB) [198]


Location:

Emails to notify: johnsmith@company.com

SUBMIT CANCEL

**\*Note:** If notifications have been set up, the user will get emails similar to the following:

Backup as a Service - Cohesity Recover Virtual Disk Started


 **COHEsITY**

### Cohesity Backup as a Service - Recover Virtual Disk Started

Recover Virtual Disk job started for VM: [qa-008-053](#)


**Recover Virtual Disk Job details**

vRA tenant:	qa-008
vRA business group:	qa-008
Virtual machine:	qa-008-053
Machine owner:	<a href="#">John Smith</a>
Snapshot:	2019-05-14 19:57:01
Restore Source:	XtremIO_5t_datastore3 (mounts:/boot) [354/6000C2...]
Restore Target:	Existing Disk

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Backup as a Service - Cohesity Recover Virtual Disk Success


 **COHEsITY**

### Cohesity Backup as a Service - Recover Virtual Disk Success

Recover Virtual Disk job finished successfully for VM: [qa-008-053](#)

**Recover Virtual Disk Job details**

vRA tenant:	qa-008
vRA business group:	qa-008
Virtual machine:	qa-008-053
Machine owner:	<a href="#">John Smith</a>
Snapshot:	2019-05-14 19:57:01
Restore Source:	XtremIO_5t_datastore3 (mounts:/boot) [354/6000C2...]
Restore Target:	Existing Disk

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