

Rsync Backup to Cohesity View

This doc describes how to setup a script to copy data to a Cohesity view. It will also show how to setup a Remote Adapter protection group that will orchestrate the running of the script and protection of the Cohesity view.

Identify the Linux Host

Identify the IP address of the Linux host that will be running the rsync script. We will use this IP address in the Subnet Allowlist below. In RHEL/CentOS, you can type this command to get the IP address: **ip a**

Also identify a user account on the Linux host that will run the script. This user will need password-less sudo access to mount/unmount the Cohesity view. To grant this access, type: **sudo visudo** and append to the end of the file: **myuser ALL=(ALL) NOPASSWD: ALL**

Create a Cohesity View

1. In the Cohesity UI, click **SmartFiles** -> **Views** -> **Create View**
2. Select the **Backup Target** -> **General** view template
3. Enter a view name, e.g. myview, then click **More Options**
4. Expand the **Security** section and click **Subnet Allowlist** -> **Add**
5. To grant access to an IP address or subnet (including the Linux host IP address identified above), enter an IP address (e.g. 192.168.1.101/32) or an IP subnet (e.g. 192.168.0.0/16) and click **add**. Repeat steps 4 and 5 to add more.
6. Click **Create** to finish creating the view
7. Click the **three dots** next to the new view, click **Mount Paths** and record the NFS mount path, e.g. **mycluster.mydomain.net:/myview**

Mount the View on the Linux Host

1. Log on as the user we identified above
2. Make a directory to mount our view, e.g. **sudo mkdir /mnt/myview**
3. Set the permissions on the new directory, e.g. **sudo chmod 777 /mnt/myview**
4. Install NFS client, e.g. **sudo yum install nfs-utils**
5. Test mount the view, e.g. **sudo mount mycluster.mydomain.net:/myview /mnt/myview**
6. Unmount the view, e.g. **sudo umount /mnt/myview**

Create a Script on the Linux Host

You can download the example script here: <https://github.com/cohesity/community-automation-samples/tree/main/remoteAdapter/rsyncBackup>

```
#!/bin/bash

sudo mount -t nfs -o
soft,intr,noatime,retrans=1000,timeo=900,retry=5,rsync=1048576,wsync=1048576,nolock
mycohesity.mydomain.net:/myview /mnt/myview/

rsync -rltv /some/data/thisfolder /mnt/myview --delete
rsync -rltv /other/data/thatfolder /mnt/myview --delete

sudo umount /mnt/myview/
```

1. Install rsync, e.g. **sudo yum install rsync**
2. Identify a location to create or download the script, e.g. **/home/myuser**
3. Modify the script to match your mount paths and directories you want to backup.
Add more rsync commands if you want to backup more directories.
4. After saving the changes, set the permissions on the script: **chmod +x backup.sh**
5. Now test the script: **./backup.sh** the script should mount the view, copy the files and unmount when finished.

Create a Cohesity Remote Adapter Protection Group

Now we will create a protection group that will schedule the execution of the script and protect the view.

1. In the Cohesity UI, click **Data Protection -> Protection -> Protect -> Remote Adapter**
2. Enter a name for the protection group
3. Enter the **Linux host** IP or DNS name and the **username** we identified above
4. Copy the ssh public key shown, append the key to the **/home/myuser/.ssh/authorized_keys** file on the Linux host
5. Select a **policy**
6. Select the **view** we created above
7. Enter the full **path** to the script, e.g. **/home/myuser/backup.sh**
8. Specify a **start time**
9. Click **Protect**

Test the Protection Group

1. In the Cohesity UI, click **Data Protection -> Protection**
2. Click on the protection group name
3. Click the three dots and click **Run Now -> Run Now**
4. Wait for the backup to start. You will see a new run appear. Click on the **date** of the new run.
5. Within the run, click on the **view** name. The pulse log will appear.
6. You should see text output of the script and successful completion.

