



Center Backup and Restore

A new Command Line Interface (CLI) command is available to back up and restore a center. It will help the user to migrate a center from one appliance to another. For example, migrating a center from a virtual machine to a UCS appliance. The feature is designed to backup all settings and data, including:

- Operating system settings (such as IP addresses, names, certificates, etc.)
- Cyber Vision Settings
- Cyber Vision Data

After restoration, the new center will function on the network just like the old center.

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Backup and Restore Constraints

list of the constraints:

- The new appliance requires an equal number of network interfaces as the center backed up.
- Set up the new appliance with Cyber Vision configuration. (Achieve the center setup, at least for the eth0 IP address, which needs to be configured to transfer the center archive.)
- The new center interface configuration (single or dual) needs to match the backed-up center.
- As the new center adopts all old center settings like the IP address, the old appliance needs to be powered off.
- The Cyber Vision License cannot be copied.
 1. Return the license to the smart account server.
 2. After restoring, the new center needs to be licensed.
- Install the report extension on the restored center.

1. Report configuration and old report versions are copied.

Backup Cyber Vision Center

Procedure

Step 1 Connect to the center in SSH.

Step 2 Type the following command:

```
sbs-backup export
```

A file will be generated in the folder: `~/data/tmp/ccv-center-backup'`

```
root@Center224433:~# sbs-backup export
Please note that license information is also backed up and will be restored if you restore the backup on the same system from which the backup was taken.
If you restore the backup on a different system, first return the license reservation to Cisco Smart Software Licensing so you can set it up again after the restoration on the new system.
***** Taking backup of file system *****
***** Taking backup of database *****
***** Taking backup of RMQ definitions *****
***** Taking backup of center version *****
***** Taking backup of symlinks *****
***** Taking backup of extension *****
Created center archive at /data/tmp/ccv-center-backup/ccv-center-backup-Center224433labautomccvlocal-4.4.0-20240405112443.tar.gz
```

In the above given example, the created file is called::

```
ccv-center-backup-Center224433labautomccvlocal-4.4.0-20240405112443.tar.gz
```

Step 3 Copy the file to the new appliance for the restore.

Restore Cyber Vision Center

Copy the center backup file to the new center's `/data/tmp/` folder.

Procedure

Step 1 Connect to the center in SSH.

Step 2 Type the following command:

```
sudo -i
```

```
sbs-backup import path-to center-backup
```

```
root@Center224433:~# sbs-backup import /data/tmp/ccv-center-backup/ccv-center-backup-Center224433labautomccvlocal-4.4.0-20240405112443.tar.gz
***** Restoring file system *****
***** Restoring database *****
***** Restoring RMQ definitions *****
***** Restoring symlinks *****
***** Restoring extension *****
Restore completed, please reboot to finalise the system configuration. After reboot, please install the Reports extension compatible with the center version.
root@Center224433:~#
```

- Step 3** Type reboot to restart the sensor.
- Step 4** Install the report management extension if necessary.
- Step 5** Install a license on your center.

Automate the Backup of the Cyber Vision Center

Many tools are available to automate the Cyber Vision center backup.

rclone: It is a command line program to manage files. You can use it to synchronize your center backup with a remote drive.

Procedure

- Step 1** To handle the complex authentication of object storage systems, rclone requires configuration due to the information being stored in a config file. The simplest way to create this config is by running rclone with the config option:

```
sudo -i
rclone config
```

Various options are available, as mentioned here: <https://rclone.org/docs/>

Example of config file:

```
[root@Center224433:~# rclone config show
[lab_sftp]
type = sftp
host = 10.2.3.172
user = user
pass = ZcQ1awWIsn3NprBf0mFEb4cwE1MYHXcJ-2k
md5sum_command = md5sum
sha1sum_command = sha1sum
[root@Center224433:~#
```

Step 2 Rclone syncs a directory tree between storage systems. Here's the syntax:

Syntax: [options] subcommand <parameters> <parameters...>:

For example:

```
sudo -i
rclone move /data/tmp/ccv-center-backup/ lab_sftp:/srv/pub/
```

With the example above, rclone will move the backup file stored in '/data/tmp/ccv-center-backup/' to the remote drive 'lab_sftp'.

Bash Script

You can use bash script to execute the two necessary commands mentioned below:

- Generate the backup
- Transfer the backup archive to a remote location

For example:

```
sbs-backup export

rclone move /data/tmp/ccv-center-backup/ lab_sftp:/srv/pub/
```

```
root@Center224433:~# cat /data/tmp/backup.sh
sbs-backup export
rclone move /data/tmp/ccv-center-backup/ lab_sftp:/srv/pub/
root@Center224433:~#
```

Cron

You can schedule a bash script using cron to back up Cyber Vision data and send the backup file to a remote drive.

Usages are as follows:

1. Edit crontab launching the command:

- `crontab -e`
: It allows you to edit the crontab file using the vi editor, enabling you to make modifications.

2. Add the command mentioned below::

- `00 01 * * 6 bash /data/tmp/backup.sh`

```
# _____ minute (0 - 59)
# _____ hour (0 - 23)
# _____ day of the month (1 - 31)
# _____ month (1 - 12)
# _____ day of the week (0 - 6) (Sunday to Saturday;
#                               7 is also Sunday on some systems)
#
# * * * * * <command to execute>
```

