

Note

The --export-format parameter value must match for the related rbd export and the rbd import commands.

Exporting and Importing Changes to RBD Images

Red Hat Ceph Storage provides the rbd export-diff and the rbd import-diff commands to export and import changes made between two points in time on an RBD image. The syntax is the same as for the rbd export and rbd import commands.

The endpoint in time can be:

- The current content of an RBD image, such as poolname/imagename.
- A snapshot of an RBD image, such as poolname/imagename@snapname.

The start time can be:

- The creation date and time of the RBD image. For example, without using the --from-snap option.
- A snapshot of an RBD image, such as is obtained by using the --from-snap snapname option.

If you specify a start point snapshot, the command exports the changes after you created that snapshot. If you do not specify a snapshot, the command exports all changes since the creation of the RBD image, which is the same as a regular RBD image export operation.



Note

The import-diff operation performs the following validity checks:

- If the export-diff is relative to a start snapshot, this snapshot must also exist in the target RBD image.
- If the export-diff is performed specifying an end snapshot, the same snapshot name is created in the target RBD image after the data is imported.

Piping the Export and Import Processes

Specifying the dash (-) character as the target file of an export operation causes the output to go to standard output (stdout).

You can also use the dash character (-) to specify either stdout or standard input (stdin) as the export target or import source.

You can pipe two commands into a single command.

```
[ceph: root@node /]# rbd export rbd/img1 - | rbd import - bup/img1
```

The rbd merge-diff command merges the output of two continuous incremental rbd export-diff image operations into one single target path. The command can only process two incremental paths at one time.

[ceph: root@node /]# rbd merge-diff first second merged