
OVERVIEW

The `ceph-volume` tool aims to be a single purpose command line tool to deploy logical volumes as OSDs, trying to maintain a similar API to `ceph-disk` when preparing, activating, and creating OSDs.

It deviates from `ceph-disk` by not interacting or relying on the `udev` rules that come installed for Ceph. These rules allow automatic detection of previously setup devices that are in turn fed into `ceph-disk` to activate them.

CEPH-VOLUME LVM

By making use of **LVM tags**, the **lvm** sub-command is able to store and later re-discover and query devices associated with OSDs so that they can later activated. This includes support for lvm-based technologies like `dm-cache` as well.

For `ceph-volume`, the use of `dm-cache` is transparent, there is no difference for the tool, and it treats `dm-cache` like a plain logical volume.