

## 'red-hat-storage-server'

### Course Contents:

- Introduction to storage
- Introduce storage.
- Introduction to Ceph and Red Hat Ceph Storage
- Introduce the Ceph Storage, Red Hat Ceph Storage, and related Ceph systems.
- Red Hat Ceph Storage deployment
- Deploy Red Hat Ceph Storage.
- Red Hat Ceph Storage configuration
- Introduce and practice working with pools, erasure coded pools, expanding the cluster, and primary affinity.
- Block storage through RBD
- Introduce block storage and learn how to execute block storage through RBD.
- Object storage through RADOSGW
- Introduce and execute object storage through RADOSGW.
- File storage through CephFS
- Introduce and execute file storage through CephFS.
- CRUSH Configuration
- Introduce CRUSH Configuration and work with CRUSH map.
- Cluster map updates
- Introduce Cluster map updates.
- Ceph operations
- Introduce Ceph operations and maintenance.
- Tuning Linux servers
- Introduce tuning Red Hat Enterprise Linux servers.
- Ceph performance tuning
- Introduce Ceph performance tuning and conduct stress testing, result analysis, and impact specific parameters.
- Client troubleshooting
- Troubleshoot Ceph client.

- Introduction to OpenStack with Ceph
- Introduce and explain integration of Ceph and OpenStack.
- Integrate Ceph with Glance
- Integrate object storage for image with Glance.
- Integrate Ceph with Cinder
- Integrate block storage for virtual machines (VMs) with Cinder.
- Replace Swift with Ceph and RADOSGW
- Introduce and learn how to replace Swift with Ceph and RADOSGW.
- Integrate CephFS with Manila
- Learn to integrate CephFS with Manila

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