

## **Red Hat® Ceph Storage Architecture and Administration (CEPH125)**

- **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.