

Training: Red Hat
CEPH125 Red Hat Ceph Storage Architecture and Administration



FORM OF TRAINING	MATERIALS	PRICE	DURATION
Traditional	Hardcopy	2850 EUR	4 days
Traditional	CTAB Tablet	2950 EUR	4 days
Distance learning	Hardcopy	2850 EUR	4 days
Distance learning	CTAB Tablet	2850 EUR	4 days

LOCATIONS

Krakow - 5 Tatarska Street, II floor, hours: 9:00 am - 4:00 pm
Warsaw - 17 Bielska Street, hours: 9:00 am - 4:00 pm

TRAINING GOALS:

Red Hat Ceph Storage Architecture and Administration (CEPH125) helps you provide unified storage for enterprise servers and Red Hat® OpenStack Platform with Red Hat Ceph Storage. Learn to use a Ceph storage cluster to provide servers and cloud resources with object storage compatible with the Amazon S3 or OpenStack Swift APIs, Ceph-native or iSCSI-based block storage, and file storage using CephFS.

This course is intended for storage administrators, cloud operators, and cloud developers who want to learn how to deploy and manage Red Hat Ceph Storage for use by servers in an enterprise data center or within a Red Hat OpenStack Platform environment.

CONSPECT:

- Prepare for Red Hat Ceph Storage
 - Identify challenges faced by traditional storage and explain how Ceph addresses them.
- Deploy Red Hat Ceph Storage
 - Deploy and expand the storage capacity of a new Red Hat Ceph Storage cluster.
- Configure Red Hat Ceph Storage
 - Manage how Ceph stores data with pools, configure Red Hat Ceph Storage using its configuration file, and configure users for Ceph clients that may access the Ceph storage cluster.
- Provide block storage with RBD
 - Configure Ceph to provide block storage for clients by using RADOS block devices (RBDs).
- Provide object storage with RADOSGW

- Configure Ceph to provide object storage for clients by using a RADOS gateway (RADOSGW or RGW).
- Provide file storage with CephFS
 - Configure Ceph to provide file storage for clients using the Ceph Filesystem (CephFS).
- Configure the CRUSH map
 - Adjust the CRUSH map—which controls how data is stored, replicated, and distributed across OSDs in the Ceph cluster—in order to optimize resiliency and performance.
- Manage and update the cluster maps
 - Explain how the monitor and OSD maps are managed in order to maintain cluster operation, quorum, and consistency.
- Manage a Red Hat Ceph Storage cluster
 - Check Ceph cluster status, troubleshoot Ceph daemon problems, and upgrade Ceph software.
- Tune and troubleshoot Red Hat Ceph Storage
 - Identify the key performance metrics for a Ceph cluster and use them to help tune and troubleshoot the operating system and Ceph software for optimal performance.
- Integrate Red Hat Ceph Storage with OpenStack
 - Configure an OpenStack cloud to use Ceph to provide image, block, object, and file storage.

REQUIREMENTS:

- Be certified as a [Red Hat Certified System Administrator \(RHCSA\)](#), or demonstrate equivalent experience
- Some experience with storage administration is recommended, but not required

Difficulty level



CERTIFICATE:

Participants will obtain certificates signed by Red Hat.

TRAINER:

Red Hat Certified Instructor.