Enterprise Computing Solutions - Education Services

TRAINING OFFERING

Vous pouvez nous joindre ici

.

Email: training.ecs.fr@arrow.com
Phone: 01 49 97 50 00

Cloud Storage with Red Hat Ceph Storage (CL260).

CODE:	DURÉE:	PRIX H.T.:
REH_CL260	35 Hours (5 Jours)	€3,740.00

Description

Build, expand and maintain cloud-scale, clustered storage for your applications with Red Hat Ceph Storage
Cloud Storage with Red Hat Ceph Storage (CL260) is designed for storage administrators and cloud operators who deploy Red Hat Ceph Storage in a production data center environment or as a component of a Red Hat OpenStack Platform or OpenShift Container Platform infrastructure. Learn how to deploy, manage, and scale a Ceph storage cluster to provide hybrid storage resources, including Amazon S3 and OpenStack Swift-compatible object storage, Ceph-native and iSCSI based block storage, and shared file storage. This course is based on Red Hat Ceph Storage 5.0.

Objectifs

- Deploy and manage a Red Hat Ceph Storage cluster on commodity servers.
- Perform common management operations using the web-based management interface.
- Create, expand, and control access to storage pools provided by the Ceph cluster.
- Access Red Hat Ceph Storage from clients using object, block, and file-based methods.
- Analyze and tune Red Hat Ceph Storage performance.
- Integrate Red Hat OpenStack Platform image, object, block, and file storage with a Red Hat Ceph Storage cluster.
- Integrate OpenShift Container Platform with a Red Hat Ceph Storage cluster.

Audience

- This course is intended for storage administrators and cloud operators who want to learn how to deploy and manage Red Hat Ceph Storage on servers in an enterprise data center or within a Red Hat OpenStack Platform or OpenShift Container Platform environment.
- Developers writing applications that use cloud-based storage will learn the distinctions of various storage types and client access methods.

Prérequis

Recommended training
- Take our free assessment to gauge whether this offering is the best fit for your skills.
- Red Hat Certified System Administrator (RHCSA) certification, or equivalent experience.
- For candidates that have not earned an RHCSA or equivalent, confirmation of the correct skill set knowledge can be obtained by taking the online skills assessment.
- Some experience with storage administration is recommended but not required.

Technology considerations
- This course does not have any special technical requirements.
- This course is not intended for BYOD.
- Internet access is recommended.

Programme

1. Introducing Red Hat Ceph Storage architecture
Describe Red Hat Ceph Storage architecture, including data organization, distribution and client access methods.
2. Deploying Red Hat Ceph Storage
Deploy a new Red Hat Ceph Storage cluster and expand the cluster capacity.
3. Configuring a Red Hat Ceph Storage cluster
Manage the Red Hat Ceph Storage configuration, including the primary settings, the use of monitors, and the cluster network layout.
4. Creating object storage cluster components
Create and manage the components that comprise the object storage cluster, including OSDs, pools, and the cluster authorization

method.
5. Creating and customizing storage maps
Manage and adjust the CRUSH and OSD maps to optimize data placement to meet the performance and redundancy requirements of cloud applications.
6. Providing block storage using RADOS Block Devices
Configure Ceph to provide block storage for clients by using RADOS block devices (RBDs).
7. Providing object storage using a RADOS Gateway
Configure Ceph to provide object storage for clients by using a RADOS Gateway (RGW).
8. Providing file storage with CephFS
Configure Ceph to provide file storage for clients using the Ceph File System (CephFS).
9. Managing a Red Hat Ceph Storage cluster
Manage an operational Ceph cluster using tools to check status, monitor services, and properly start and stop all or part of the cluster. Perform cluster maintenance by replacing or repairing cluster components, including MONs, OSDs, and PGs.
10. Tuning and troubleshooting Red Hat Ceph Storage
Identify the key Ceph cluster performance metrics and use them to tune and troubleshoot Ceph operations for optimal performance.
11. Managing Cloud Platforms with Red Hat Ceph Storage
Manage Red Hat cloud infrastructure to use Red Hat Ceph Storage to provide image, block, volume, object, and shared file storage.
12. Comprehensive review
Review tasks from Cloud Storage with Red Hat Ceph Storage.

Informations supplémentaires

Impact on the organization
Reliable and performant data storage is a critical component for enterprise application and infrastructure solutions. Software-defined storage offers organizations the flexibility to grow their data storage requirements while enabling applications to operate at cloud-scale. Red Hat Ceph Storage leverages commodity hardware to create distributed and scalable storage volumes that are both fault-tolerant and provide access via object, block, and file data levels. Successful planning, deployment and operation of a storage cluster can be achieved through completion of Cloud Storage with Red Hat Ceph Storage course.
Impact on the individual
As a result of attending this course, students will be able to deploy, operate, and manage a Red Hat Ceph Storage cluster. Students will learn why Red Hat Ceph Storage is the standard, integrated cloud storage solution for Red Hat Cloud Platforms. Developer students will learn to implement each available storage type and method offered by Red Hat Ceph Storage, and be able to choose the correct type and method for their enterprise storage scenarios and applications. Administrators and operators will be able to perform Ceph cluster management, including configuration, daily operations, troubleshooting, performance tuning, and scaling.

Dates de session

Sur demande. Merci de nous contacter

Informations Complémentaires

Cette formation est également disponible sous forme de formation sur site. Veuillez nous contacter pour en savoir plus.