Red Hat Certificate of Expertise in Hybrid Cloud Storage exam

In preparation

Study points for the exam

To help you prepare, the exam objectives highlight the task areas you can expect to see covered in the exam. Red Hat reserves the right to add, modify, and remove exam objectives. Such changes will be made public in advance.

Red Hat Certificate of Expertise in Hybrid Cloud Storage exam

- Deploy the Red Hat Storage Server appliance on both physical and virtual hardware and work with existing Red Hat Storage Server appliances
- Configure a Red Hat Storage Server storage pool
- Create individual storage bricks on either physical devices or logical volumes
- Create various Red Hat Storage Server volumes such as:
    - Distributed
    - Replicated
    - Distributed-replicated
    - Stripe-replicated
    - Distributed-striped
    - Distributed-striped-replicated
- Format the volumes with an appropriate file system
- Extend existing storage volumes by adding additional bricks and performing appropriate rebalancing operations
- Configure clients to use Red Hat Storage Server appliance volumes using native and network file systems (NFS)
- Configure clients to use Red Hat Storage Server appliance volumes using SMB
- Configure Red Hat Storage Server features including disk quotas and POSIX access control lists (ACLs)
- Configure IP failover for NFS-and SMB-based cluster services
- Configure geo-replication services
- Configure unified object storage
- Troubleshoot Red Hat Storage Server problems
- Monitor Red Hat Storage Server workloads
- Perform Red Hat Storage Server management tasks such as tuning volume options, volume migration, stopping and deleting volumes, and configuring server-side quorum

As with all Red Hat performance-based exams, configurations must persist after reboot without intervention.

What you need to know

Red Hat encourages all candidates for the EX236 Red Hat Certificate of Expertise in Hybrid Cloud Storage Exam to consider taking the Red Hat Storage Server Administration (RH236) course. Attendance in this class is not required to take the exam.

While attending Red Hat classes can be an important part of your preparation to take this exam, attending class does not guarantee success on the exam. Previous experience, practice, and native aptitude are also important determinants of success.

Many books and other resources on system administration for Red Hat's products are available. Red Hat does not officially endorse any as preparation guides for its exam. Nevertheless, you may find additional reading deepens understanding and can prove helpful.

Exam format

This exam is a performance-based evaluation of storage administration skills and knowledge. To get certified, you must perform a number of routine storage administration tasks and are evaluated on whether you have met specific objective criteria. Performance-based testing means that candidates must perform tasks similar to what they perform on the job.

The exam is organized as follows:

Storage Server administration: 2 hours

Scores and reporting

Official scores for exams come exclusively from Red Hat Certification Central. Red Hat does not authorize examiners or training partners to report results to candidates directly. Scores on the exam are usually reported within 3 U.S. business days.

Exam results are reported as section scores. Red Hat does not report performance on individual items, nor will it provide additional information upon request.

Audience and prerequisites

The following audiences may be interested in earning the Red Hat Certificate of Expertise in Platform-as-a-Service:

- System administrators, architects, and others who need to demonstrate their skills, knowledge, and ability in using Red Hat Storage Server
- RHCEs interested in pursuing Red Hat Certified Architect (RHCA)

Prerequisites for this exam

Exam candidates should:

- Be Red Hat Certified System Administrators or have comparable work experience and skills
- Have taken the Red Hat Storage Server Administration (RH236) course or have work experience using Red Hat Storage Server

Course overview

Students will learn how to install, configure, and maintain a cluster of Red Hat Storageservers. The course will also explore highly available common Internet file systems (CIFS) and network file systems (NFS) using Clustered Trivial DataBase (CTDB), unified file and object storage, and geo-replication. Finally, students will learn about the Hadoop plugin for Red Hat Storage, snapshots, and geo-replication.
This course can help you prepare for the Red Hat Certificate of Expertise in Hybrid Cloud Storage Exam (EX236).
Note: Red Hat Storage Server Administration is part of our emerging technology series of courses. These courses focus on Red Hat's newer, evolving technologies. Emerging technologies courses are feature- and functionality-focused and are conducted like guided labs, with little lecture. For more information about these courses, please contact us.

Course content summary

- Install and configure Red Hat Storage Server
- Create and manage different volume types
- Learn about IP failover for NFS and CIFS using CTDB
- Explore geo-replication
- Practice unified file and object storage using Swift
- Learn about snapshots
- Learn about the Hadoop plugin

Audience and prerequisites

- Linux system administrators and storage administrators interested in, or responsible for, maintaining large storage clusters using Red Hat Storage
- Red Hat Certified System Administrator (RHCSA) certification or an equivalent level of knowledge is highly recommended

Prerequisites for this course

- RHCSA certification or equivalent experience
- For candidates who have not earned their RHCSA, confirmation of the needed skills can be obtained by passing the online skills assessment.

Outline for this course

Introduction to Red Hat Storage
Understand Red Hat Storage server features and terminology.
Explore the classroom environment
Gain familiarity with the classroom environment.
Installation
Install Red Hat Storage Server.
Basic configuration
Build a Red Hat Storage server volume.
Volume types
Understand different volume types.
Clients
Access data on Red Hat Storage server volumes from different client types.
ACLs and quotas
Implement quotas and Posix access control lists.
Extending volumes
Grow storage volumes online.
IP failover
Configure IP failover using CTDB.
Geo-replication
Configure geo-replication.
Unified file and object storage
Configure Swift object access.
Troubleshooting
Perform basic troubleshooting tasks.
Managing snapshots
Manage snapshots in Red Hat Storage.
Hadoop plugin
Learn about the Hadoop plugin configuration.
Note: Course outline is subject to change with technology advances and as the nature of the underlying job evolves. For questions or confirmation on a specific objective or topic, please contact us.

Recommended next exam or course

Red Hat Certificate of Expertise in Hybrid Cloud Storage
Demonstrate the skills and knowledge needed to implement flexible storage solutions for on-premise and hybrid cloud using Red Hat Storage Server.