

Red Hat High Availability Clustering with Exam (RH 437)

COURSE OVERVIEW:

The intensive, hands-on Red Hat High Availability Clustering (RH436) course teaches storage management, the Red Hat High Availability Add-On, and the shared storage technology delivered by Red Hat Global File System 2 (GFS2) and Red Hat Gluster Storage.

Created for senior Linux system administrators, this 4-day course strongly emphasizes lab-based activities. You'll learn how to deploy and manage shared storage and server clusters that provide highly available network services to a mission-critical enterprise environment.

This course also helps you prepare for the Red Hat Certificate of Expertise in High Availability Clustering exam (EX436). This version of the course includes the exam.

WHO WILL BENEFIT FROM THIS COURSE?

Senior Linux system administrators responsible for maximizing resiliency through high-availability clustering services and using fault-tolerant shared storage technologies.

PREREQUISITES:

If you want to take this course without the exam (RH436) and have not earned your RHCE certification, you can confirm that you have the necessary knowledge by passing the online skills assessment.

COURSE OBJECTIVES:

- Install and configure a Pacemaker-based high availability cluster
- Create and manage highly available services
- Troubleshoot common cluster issues
- Work with shared storage (iSCSI) and configure multipathing
- Configure GFS2 file systems

COURSE OUTLINE:

Module 1: Clusters and storage

- Get an overview of storage and cluster technologies.

Module 2: Create high-availability clusters.

- Review and create the architecture of Pacemaker-based high-availability clusters.

Module 3: Nodes and quorum

- Review cluster node membership and how quorum is used to control clusters.

Module 4: Fencing

- Understand fencing and fencing configuration.

Module 5: Resource groups

- Create and configure simple resource groups to provide high-availability services to clients.

Module 6: Troubleshoot high-availability clusters

- Identify and troubleshoot cluster problems.

Module 7: Complex resource groups

- Control complex resource groups by using constraints.

Module 8: Two-node clusters

- Identify and work around two-node clusters issues.

Module 9: iSCSI initiators

- Manage iSCSI initiators for access to shared storage.

Module 10: Multipath Storage

- Configure redundant storage access.

Module 11: Logical volume manager (LVM) clusters

- Manage clustered LVM.

Module 12: Global File System 2

- Create symmetric shared file systems.

Module 11: Eliminate single points of failure

- Eliminate single points of failure to increase service availability.

Module 12: Comprehensive review

- Set up high-availability services and storage.

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