

Course RH436: Red Hat Enterprise Clustering and Storage Management

Length	: 4 Days
Audience(s)	: Senior Linux system administrators
Delivery Method	: Instructor-led (classroom)

About this Course

Created for senior Linux® system administrators, this four-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 Clustering and Storage Management exam (EX436).

Audience Profile

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

At Course Completion

After completing this course, students learn how to:

- Install and configure the Red Hat High Availability Add-On
- Create and manage highly available services
- Work with shared storage (iSCSI) and configure multipathing
- Configure GFS2 file systems
- Configure XFS® file systems
- Work with the Red Hat Storage Server

Pre-Requisites

- If you want to take this course without the exam (RH436) and have not earned your RHCE certification, you can confirm whether you have the correct skill-set knowledge by passing the [online skills assessment](#).

Course Outline

Module 1: Clusters and storage

- Get an overview of storage and cluster technologies.

Module 2: iSCSI configuration

- Set up and manage iSCSI.

Module 3: UDEV

- Learn basic manipulation and creation of udev rules.

Module 4: Multipathing

- Combine multiple paths to SAN devices into one fault-tolerant virtual device.

Module 5: Red Hat high-availability overview

- Learn the architecture and component technologies in the Red Hat® High Availability Add-On.

Module 6: Quorum

- Understand quorum and quorum calculations.

Module 7: Fencing

- Understand fencing and fencing configuration.

Module 8: Resources and resource groups

- Understand rgmanager and the configuration of resources and resource groups.

Module 9: Advanced resource management

- Understand resource dependencies and complex resources.

Module 10: Two-node cluster issues

- Understand the use and limitations of two-node clusters.

Module 11: LVM management

- Review LVM commands and Clustered LVM (CLVM).

Module 12: Global File System 2

- Understand the GFS2 file system and use tools to create, maintain, and troubleshoot it.

Module 13: XFS

- Explore the features of the XFS® file system and tools required for creating, maintaining, and troubleshooting.

Module 14: Red Hat Storage

- Work with Gluster to create and maintain a scale-out storage solution.

Module 15: Comprehensive review

- Set up high-availability services and storage.