



RH 436 Red Hat High Availability Clustering

5 days of training

DESCRIPTION:

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 Certified Specialist in High Availability Clustering exam (EX436).

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:

Students should be able to demonstrate the following skills:

- Improve application uptime by using high availability clustering
- Manage storage in an high availability environment using iSCSI initiators, HA-LVM or CLVM as appropriate, and GFS2 cluster file systems
- Implement strategies to identify single points of failure in high availability clusters and eliminate them

COURSE OUTLINE:

Clusters and storage

- Get an overview of storage and cluster technologies.

Create high-availability clusters

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

Nodes and quorum

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

Fencing

- Understand fencing and fencing configuration.

Resource groups

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

Troubleshoot high-availability clusters

- Identify and troubleshoot cluster problems.

Complex resource groups

- Control complex resource groups by using constraints.

Two-node clusters

- Identify and work around two-node clusters issues.

ISCSI initiators

- Manage iSCSI initiators for access to shared storage.

Multipath Storage

- Configure redundant storage access.

Logical volume manager (LVM) clusters

- Manage clustered LV.

Global File System 2

- Create symmetric shared file systems.

Eliminate single points of failure

- Eliminate single points of failure to increase service availability.

Comprehensive review

- Set up high-availability services and storage.