

RH436: Red Hat High Availability Clustering

Course Code: RH436

Duration: 4 days

Instructor-led Training (ILT) | Virtual Instructor-led Training (VILT)

OVERVIEW

Red Hat® High Availability Clustering (RH436) provides intensive, hands-on experience with the Pacemaker component of the Red Hat Enterprise Linux High-Availability Add-On, as well as cluster storage components from the Resilient Storage Add-On, including Cluster Logical Volume Manager (CLVM), Red Hat Global File System 2 (GFS2), and Device-Mapper Multipath.

This course is based on Red Hat Enterprise Linux 7.1.

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.

SKILLS COVERED

- 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

WHO SHOULD ATTEND?

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.

MODULES

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 LV.

Module 12: Global File System 2

- Create symmetric shared file systems.

Module 13: Eliminate Single Points of Failure

- Eliminate single points of failure to increase service availability.

Module 14: Comprehensive Review

- Set up high-availability services and storage.

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