

Red Hat High Availability Clustering (RH 436)

COURSE OVERVIEW

Deploy reliable, available critical production services in a high availability cluster

In the Red Hat High Availability Clustering (RH436) course, you will learn how to provide highly available network services to a mission-critical enterprise environment through the deployment and management of shared storage and server clusters. Created for senior Linux system administrators, this 4-day course strongly emphasizes lab-based activities.

You will set up a cluster of systems running the Pacemaker component of the Red Hat Enterprise Linux High-Availability Add-On, and deploy Linux-based services such as web servers and databases on that cluster. Cluster storage components from the Resilient Storage Add-On are also covered; installations and applications that require multiple cluster nodes can access the same storage simultaneously. This includes Logical Volume Manager (LVM) Shared Volume Groups, Red Hat Global File System 2 (GFS2), and Device-Mapper Multipath.

This course is based on Red Hat Enterprise Linux 8.3.

WHO WILL BENEFIT FROM THIS COURSE?

Senior Linux system administrators who use high-availability clustering and fault-tolerant shared storage technologies to maximize resiliency of production services.

PREREQUISITES

- Take our free assessment to gauge whether this offering is the best fit for your skills.
- Red Hat Certified System Administrator (RHCSA) exam (EX200) and associated courses.
- Red Hat Certified Engineer (RHCE) exam (EX294) and associated courses.

COURSE OBJECTIVES

As a result of attending this course, you will be able to create, manage, and troubleshoot highly available network services and tightly-coupled cluster storage for business-critical applications.

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 LVM Shared Volume Groups as appropriate, and GFS2 cluster file systems.
- Implement strategies to identify and eliminate single points of failure in high availability clusters.



COURSE OUTLINE

Creating high availability clusters

- Create a basic high availability cluster.

Managing cluster nodes and quorum

- Manage node membership in the cluster and describe how it impacts cluster operation.

Isolating malfunctioning cluster nodes

- Isolate unresponsive cluster nodes to protect data and recover services and resources after a failure.

Creating and configuring resources

- Create basic resources and resource groups to provide highly available services.

Troubleshooting high availability clusters

- Identify, diagnose, and fix cluster issues.

Automating cluster and resource deployment

- Deploy a new high availability cluster and cluster resources using Ansible automation.

Managing two-node clusters

- Operate two-node clusters while identifying and avoiding issues specific to a two-node cluster configuration.

Accessing iSCSI storage

- Configure iSCSI initiators on your servers to access block-based storage devices provided by network storage arrays or Ceph storage clusters.

Accessing storage devices resiliently

- Configure resilient access to storage devices that have multiple access paths.

Configuring LVM in clusters

- Select, configure, and manage the correct LVM configuration for use in your cluster.

Providing storage with the GFS2 cluster file system

- Use the GFS2 cluster file system to simultaneously provide tightly coupled shared storage that can be accessed by multiple nodes.

Eliminating single points of failure

- Identify and eliminate single points of failure in your cluster to decrease risk and increase average service availability.

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