Red Hat High Availability Clustering

Duration: 4 Days Course Code: RH436 Delivery Method: Virtual Learning

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.
Note: *Starting January 1, 2026, Red Hat introduces RHLS-Course — a flexible subscription model now included with this catalog offering. This replaces the previous direct virtual class enrollment from Global Knowledge.*
When you purchase this item, you'll receive an RHLS subscription at the course level, giving you the freedom to choose the schedule that works best and self-enroll in your selected class.
Your RHLS subscription includes:
• One live, instructor-led virtual session
• 12 months of self-paced learning access
• One certification exam with a free retake
Onsite Classroom-based sessions and closed course options remain unchanged.
Updated Jan2026

Virtual Learning

This interactive training can be taken from any location, your office or home and is delivered by a trainer. This training does not have any delegates in the class with the instructor, since all delegates are virtually connected. Virtual delegates do not travel to this course, Global Knowledge will send you all the information needed before the start of the course and you can test the logins.

Target Audience:

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

Objectives:

- After this course participants should be able to:
- 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.
- Implement Logical Volume Manager (LVM) in cluster-aware configurations.
- Configure GFS2 file systems on storage shared by multiple nodes.

Prerequisites:

- RHCE certification or equivalent experience is expected

Take Red Hat free assessment to gauge whether this offering is the best fit for your skills Red Hat Skills Assessment

Testing and Certification

- Red Hat Certified Specialist in High Availability Clustering exam (EX436)

Follow-on-Courses:

- Red Hat Services Management and Automation (RH358)
- Red Hat Enterprise Performance Tuning (RH442)
- EX436 - Red Hat Certified Specialist in Clustering and Storage Management Exam (V 6)
- RH442 - Red Hat Performance Tuning: Linux in Physical, Virtual, and Cloud

Content:

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.

Additional Information:

Official course book provided to participants

Further Information:

For More information, or to book your course, please call us on Head Office 01189 123456 / Northern Office 0113 242 5931

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