

Red Hat High Availability Clustering With Exam

Code:	RH437
Length:	5 days
URL:	View Online

The intensive, hands-on Red Hat® High Availability Clustering (RH436) course teaches storage management, the Red Hat High Availability Add-On, and the shared storage technology delivered by Red Hat Global File System 2 (GFS2) and Red Hat Gluster Storage. 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 Gained

- Setup and management of high-availability clustered services with Red Hat Cluster Suite
- Providing iSCSI targets with Red Hat Enterprise Linux
- Customization and control of device files with udev
- Storage I/O multipath with device mapper
- Using cluster Logical Volume Management (LVM)
- Configuration and use of the Red Hat Global File System cluster file system for shared storage

Who Can Benefit

- An experienced Linux system administrator responsible for managing shared storage across 1 or more Linux systems
- An experienced Linux system administrator responsible for maintaining a high-availability service using cluster technology
- An RHCE interested in earning a Red Hat Certificate of Expertise, a Red Hat Certified Datacenter Specialist (RHCD) or a Red Hat Certified Architect (RHCA) credential

Prerequisites

- RHCE certification or equivalent experience

Course Details

Storage technologies

- Storage Requirements
- NAS vs. SAN

iSCSI

- iSCSI as a shared storage device
- Configuring an iSCSI initiator
- Configuring an iSCSI target
- Authentication

Kernel Device Management

- udev features
- udev rule configuration
- I/O scheduler

Device mapper and multipathing

- Mapping targets
- Multipath device configuration

Red Hat Cluster Suite overview

- Design and elements of clustering
- Cluster configuration tools

Logical Volume Management

- LVM review
- Setting up clustered logical volumes

Global File System (GFS) 2

- Implementation and configuration
- Lock management
- Planning for and growing online GFS
- Monitoring tools
- Journal configuration and management

Quorum and the cluster manager

- Intracluster communication
- Cluster tools

Fencing and failover

- Fencing components
- Failover domains

Quorum disk

- Heuristic configuration

Resource Group Manager (rgmanager)

- Resource groups and recovery
 - Hierarchical resource ordering
 - High-availability services
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