
Red Hat High Availability Clustering with Expertise Exam (EX436)

Duration: 5 Days Course Code: RH437

Overview:

Red Hat® Enterprise Clustering and Storage Management with Exam (RH437) provides intensive, hands-on experience with storage management, Red Hat Cluster Suite, and the shared storage technology delivered by Red Hat Global File System (GFS). Created for senior Linux® system administrators, this 4-day course has a strong emphasis on lab-based activities. At the end of the course, students will have learned to deploy and manage shared storage and server clusters that provide highly available network services to a mission-critical enterprise environment.

A Red Hat Certified Engineer (RHCE®) who successfully completes this course is prepared to take the Red Hat Enterprise Clustering and Storage Management Expertise Exam (EX436).

Target Audience:

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 (RHCDS) or a Red Hat Certified Architect (RHCA) credential.

Objectives:

- 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
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Prerequisites:

- RHCE certification or equivalent experience

Testing and Certification

- Red Hat Enterprise Clustering and Storage Management Expertise Exam (EX436) Hands-on, performance-based, 4-hour exam.
 - This course prepares you for these credentials:
 - Red Hat Certified Architect — RHCA
 - Red Hat Certified Datacenter Specialist — RHCDS
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Follow-on-Courses:

- RH401, Red Hat Enterprise Deployment and Systems Management
 - RHS333, Red Hat Enterprise Security Network Services
 - RH442, Red Hat Enterprise Performance Tuning
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Content:

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

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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