
Red Hat High Availability Clustering with Expertise Exam (EX436)

Duration: 5 Days **Course Code: RH437** **Delivery Method: Company Event**

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).

Company Events

These events can be delivered exclusively for your company at our locations or yours, specifically for your delegates and your needs. The Company Events can be tailored or standard course deliveries.

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
 - Certificates of Expertise
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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

info@globalknowledge.co.uk

www.globalknowledge.com/en-gb/

Global Knowledge, Mulberry Business Park, Fishponds Road, Wokingham Berkshire RG41 2GY UK