

Red Hat High Availability Clustering

Duration: 4 Days **Course Code: RH436** **Delivery Method: Closed Events**

Overview:

Red Hat® Enterprise Clustering and Storage Management (RH436) 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.

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:

Experienced Linux system administrators responsible for managing shared storage across one or more Linux systems and Experienced Linux system administrators responsible for maintaining a high availability service using cluster technology.

Objectives:

- Review of Red Hat enterprise clustering and storage management technologies
- Advanced software RAID
- Linux dynamic device management
- Device mapper and multipathing
- iSCSI

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 Security Specialist — RHCDS
 - Certificates of Expertise

Follow-on-Courses:

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

Content:

1.Review Red Hat® enterprise clustering and storage management technologies

2.Storage Technologies

■ Storage Requirements

- NAS vs SAN
- Configuring an iSCSI initiator
- Configuring an iSCSI target
- Authentication
- udev Rule Configuration
- I/O Scheduler
- Multipath device configuration
- Cluster configuration tools
- Setting up Clustered Logical Volumes
- Lock management
- Planning for and growing on-line GFS
- Monitoring tools
- Journal configuration and management
- Cluster tools
- Failover domains
- Hierarchical resource ordering
- High availability services

3.iSCSI

■ iSCSI as a shared storage device

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5.Device mapper and multipathing

■ Mapping targets

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6.Red Hat Cluster suite overview

■ Design and elements of clustering

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7.Logical Volume Management

■ LVM Review

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9.Quorum and the cluster manager

■ Intracluster communication

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10.Fencing and failover

■ Fencing components

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4. Kernel Device Management

- udev Features

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8. Global File System (GFS) 2 (MOVED UP)

- Implementation and configuration

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11. Quorum disk

- Heuristic configuration

12. Resource Group Manager (rgmanager)

- Resource groups and recovery

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Further Information:

For More information, or to book your course, please call us on 00 966 92000 9278

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