RH436-Bundle: Red Hat Enterprise Clustering and Storage Management + 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

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- Providing iSCSI targets with Red Hat Enterprise Linux

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- Customization and control of device files with udev

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- Storage I/O multipath with device mapper

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- Using cluster Logical Volume Management (LVM)

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- Configuration and use of the Red Hat Global File System cluster file system for shared storage

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

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:

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 clusered logical volumes
- Lock management
- Planning for and growing online GFS
- Monitoring tools
- Journal configuration and management
- Cluster tools
- Failover domains
- Hierarchical resource ordering
- High-availability services

iSCSI

- iSCSI as a shared storage device

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Red Hat Cluster Suite overview

- Design and elements of clustering

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Logical Volume Management

- LVM review

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Quorum and the cluster manager

- Intracluster communication

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Fencing and failover

- Fencing components

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Quorum disk

- Heuristic configuration

Resource Group Manager (rgmanager)

- Resource groups and recovery

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Kernel Device Management

- udev features

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Global File System (GFS) 2

- Implementation and configuration

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Device mapper and multipathing

- Mapping targets

- High-availability services

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Further Information:

For More information, or to book your course, please call us on 00 20 (0) 2 2269 1982 or 16142

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