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RH436 Red Hat Enterprise Clustering and Storage Management

Course Summary

Description

This course is designed to train people with RHCE level competency on skills required to deploy and manage highly available storage data to the mission-critical enterprise computing environment. This course delivers extensive hands-on training with storage management, Red Hat Cluster Suite, and the shared file system, GFS.

Topics

- Review Red Hat Enterprise Clustering and Storage Management Technologies
- Linux Dynamic Device Management
- iSCSI
- Advanced Software RAID
- Device Mapper and Multipathing
- Cluster Technology
- Cluster Suite Overview
- Quorum and the Cluster Manager
- Fencing and Failover
- Quorum Disk
- Service Manager
- Global File System (GFS)

Audience

This course is aimed at senior Red Hat Enterprise Linux system administrators and other IT professionals working in enterprise environments and mission-critical systems.

Prerequisites

Students should already be familiar with Red Hat Enterprise Linux. The recommended minimum competency level is completion of the RHCE or equivalent knowledge.

Duration

Four days

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Course Outline

I. Review Red Hat Enterprise Clustering and Storage Management Technologies

II. Linux Dynamic Device Management
- A. udev Features
- B. udev Rule Configuration

III. iSCSI
- A. iSCSI as a Shared Storage Device
- B. Configuring an iSCSI initiator
- C. Authentication

IV. Advanced Software RAID
- A. Types and Differences
- B. Monitoring
- C. Optimization Techniques
- D. Growth and High Availability

V. Device Mapper and Multipathing
- A. Mapping Targets
- B. LVM2 Snapshots
- C. Multipath Device Configuration

VI. Cluster Technology
- A. Common Cluster Hardware
- B. Shared Storage Alternatives

VII. Cluster Suite Overview
- A. Design and Elements of Clustering
- B. Cluster Configuration Tools
- C. Clustered Logical Volumes and Lock Management

VIII. Quorum and the Cluster Manager
- A. Intracluster Communication
- B. Cluster Tools

IX. Fencing and Failover
- A. Fencing Components
- B. Failover Domains

X. Quorum Disk
- A. Heuristic Configuration

XI. Service Manager
- A. Resource Groups and Recovery
- B. Hierarchical Resource Ordering
- C. High Availability Services

XII. Global File System (GFS)
- A. Implementation and Configuration
- B. Lock Management
- C. Planning For and Growing On-line GFS
- D. Monitoring Tools
- E. Journal Configuration and Management