

Course Description:

Red Hat Enterprise Storage Management provides intensive hands-on experience with the emerging Shared Storage technology delivered by Red Hat Global File System™ (GFS). This 4-day course focuses on the implementation of native Red Hat Enterprise Linux technologies included in Cluster Suite and GFS. An exam is administered on the final day of class.

Who Should Attend:

RH436 is aimed at senior Red Hat Enterprise Linux system administrators and other IT professionals working in enterprise environments and mission-critical systems.

Prerequisites:

Participants in RH436 should already be familiar with Red Hat Enterprise Linux. Recommended minimum competency level is completion of the RHCE or equivalent knowledge.

Benefits of Attendance:

Upon completion of this course, students will be able to:

- Deploy and manage highly available storage data to the mission-critical enterprise computing environment.

Course Outline:**Review Red Hat Enterprise Clustering and Storage Management Technologies****Linux Dynamic Device Management**

udev Features
udev Rule Configuration

iSCSI

iSCSI as a Shared Storage Device
Configuring an iSCSI initiator
Configuring an iSCSI target
Authentication

Advanced Software RAID

Types and Differences
Monitoring
Optimization Techniques
Growth and High Availability

Device Mapper and Multipathing

Mapping Targets
LVM2 Snapshots
Multipath Device Configuration

Cluster Technology

Common Cluster Hardware
Shared Storage Alternatives

Cluster Suite Overview

Design and Elements of Clustering
Cluster Configuration Tools
Clustered Logical Volumes and Lock Management

Quorum and the Cluster Manager

Intracluster Communication
Cluster Tools

Fencing and Failover

Fencing Components
Failover Domains

Quorum Disk

Heuristic Configuration

Service Manager

Resource Groups and Recovery
Hierarchical Resource Ordering
High Availability Services

Global File System (GFS)

Implementation and Configuration
Lock Management
Planning For and Growing On-line GFS
Monitoring Tools
Journal Configuration and Management