



Red Hat Enterprise Storage Management

Duration: 4 Days Course Code: RH436

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.

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 Linux dynamic device management iSCSI 	 Advanced software RAID Device mapper and multipathing
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:

<u>1.Review Red Hat® enterprise clustering and</u> 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
- 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
- NAS vs SAN
- Configuring an iSCSI initiator
- Configuring an iSCSI target
- Authentication
- udev Rule Configuration
- I/O Scheduler

RH436

- Multipath device configuration
- Cluster configuration tools
- Setting up Clustered Logical Volumes
- Lock management

5. Device mapper and multipathing

NAS vs SAN

Authentication

I/O Scheduler

Configuring an iSCSI initiator

Multipath device configuration

Hierarchical resource ordering

9.Quorum and the cluster manager

High availability services

Intracluster communication

Configuring an iSCSI initiator
 Configuring an iSCSI target

Multipath device configuration

Hierarchical resource ordering

Configuring an iSCSI initiator
 Configuring an iSCSI target

Multipath device configuration

Setting up Clustered Logical Volumes

Planning for and growing on-line GFS

Journal configuration and management

00 20 (0) 2 2269 1982 or 16142

Cluster configuration tools

Lock management

Monitoring tools

Cluster tools

udev Rule Configuration

High availability services

10.Fencing and failover

Fencing components

NAS vs SAN

Authentication

I/O Scheduler

Setting up Clustered Logical Volumes

Planning for and growing on-line GFS

Journal configuration and management

Cluster configuration tools

udev Rule Configuration

Setting up Clustered Logical Volumes

Planning for and growing on-line GFS

Journal configuration and management

Cluster configuration tools

Lock management

Monitoring tools

Failover domains

Cluster tools

NAS vs SAN

Authentication

I/O Scheduler

Lock management

Monitoring tools

Failover domains

Cluster tools

Configuring an iSCSI target

udev Rule Configuration

- Mapping targets
- 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

6.Red Hat Cluster suite overview

- Design and elements of clustering
- 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

7.Logical Volume Management

- LVM Review
- NAS vs SAN
- Configuring an iSCSI initiator
- Configuring an iSCSI target
- Authentication
- udev Rule Configuration
- I/O Scheduler

www.globalknowledge.com.eg

- Multipath device configuration
- Cluster configuration tools
- Setting up Clustered Logical Volumes

training@globalknowledge.com.eg

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
- 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

4.Kernel Device Management

- udev Features
- 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
- 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

RH436

Planning for and growing on-line GFS

Failover domains

11.Quorum disk

NAS vs SAN

Authentication

I/O Scheduler

Hierarchical resource ordering

Resource groups and recovery

Configuring an iSCSI initiator
 Configuring an iSCSI target

Multipath device configuration

Hierarchical resource ordering

Configuring an iSCSI initiator

Multipath device configuration

Hierarchical resource ordering

High availability services

Setting up Clustered Logical Volumes

Planning for and growing on-line GFS

Journal configuration and management

00 20 (0) 2 2269 1982 or 16142

Cluster configuration tools

Lock management

Monitoring tools

Failover domains

Cluster tools

Configuring an iSCSI target

udev Rule Configuration

High availability services

Setting up Clustered Logical Volumes

Planning for and growing on-line GFS

Journal configuration and management

Cluster configuration tools

Lock management

Monitoring tools

Failover domains

Cluster tools

NAS vs SAN

Authentication

I/O Scheduler

udev Rule Configuration

12.Resource Group Manager (rgmanager)

High availability services

Heuristic configuration

- Monitoring tools
- Journal configuration and management
- Cluster tools
- Failover domains
- Hierarchical resource ordering
- High availability services

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

- Implementation and configuration
- 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
- 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
- NAS vs SAN
- Configuring an iSCSI initiator
- Configuring an iSCSI target

udev Rule Configuration

Multipath device configuration

Setting up Clustered Logical Volumes

Planning for and growing on-line GFS

training@globalknowledge.com.eg

Cluster configuration tools

Lock management

Monitoring tools

www.globalknowledge.com.eg

Authentication

I/O Scheduler

- Journal configuration and management
- Cluster tools
- Failover domains
- Hierarchical resource ordering
- High availability services
- Journal configuration and management
 Cluster tools
- Failover domains
- Hierarchical resource ordering
- High availability services
- Thy Tavallability Servic

Further Information:

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

training@globalknowledge.com.eg

www.globalknowledge.com.eg

Global Knowledge, 16 Moustafa Refaat St. Block 1137, Sheraton Buildings, Heliopolis, Cairo