



Red Hat Enterprise Deployment and Systems Management

RH401

4 day

Overview :

RH401 Red Hat Enterprise Deployment and Systems Management is a 4-day intensive hands-on lab course in skills and methods critical to large-scale deployment and management of mission-critical Red Hat Linux systems, including Red Hat Advanced Server, failover and load-balancing; cvs for system administrators; RPM rebuilding, and performance tuning for specific applications.

Target Audience :

RH401 is aimed at senior Red Hat Linux and Red Hat Advanced Server system administrators and other IT professionals working in enterprise environments and mission-critical systems.

At the end of the course, delegates will be able to:

RH401 is designed to train people with RHCE level competency on skills required to deploy and manage Red Hat systems to enterprise standards of reliability, availability, scalability and manageability (RASM). Central to the course is hands-on training in the high availability and load-balancing capabilities of Red Hat Linux Advanced Server.

Persons taking RH401 will learn how to implement and manage enterprise Red Hat Linux deployments efficiently and effectively in ways that make the entire enterprise deployment manageable by a team.

Red Hat's RHCE training and certification program provides fundamental skills and knowledge required by IT professionals who are deploying Red Hat Linux Advanced Server in enterprise environments. RH401 goes further in that it trains senior system administrators to manage large numbers of Red Hat servers in a variety of roles, and/or manage Red Hat Advanced Server(s) for mission-critical applications that require failover and load-balancing.

RH401 is benchmarked on expert level competencies in managing operating systems for enterprise roles

Course Content :

Overview

- RASM Explained: Reliability, Availability, Scalability, and Manageability.
- Technologies and methodologies for achieving the goals of RASM

Red Hat Linux versus Red Hat Linux Advanced Server

- Support, life cycle, and other product differences
- Feature set differences
- How Red Hat Linux Advanced Server is distributed

Configuration management using CVS

- Basics of CVS for system administrators
- Implementing local and remote repositories
- Security and CVS
- Using CVS to track, log, and reverse configuration changes
- Distributing CVS-managed configuration files

Advanced RPM for system administrators

- Why and when to rebuild
- Support and compatibility considerations
- The contents of an RPM package
- The spec file
- Important spec file directives
- rpm build commands
- Handling
- Buildrooting, .rpmmacros, and other good practices

RH401/

For more information, or to book your course, please call Global Knowledge Denmark

Address: Kirkebjerg Alle 88, 2605 Brøndby

Telephone: +45 44 88 18 00

Email: training@globalknowledge.dk

Web: www.globalknowledge.dk



Red Hat Enterprise Deployment and Systems Management

RH401

4 day

Course Content :

Red Hat Network in the Enterprise

- Managing systems online
- Using RHN to compare installations on systems
- Updating similar machines with System Group
- Assigning roles with Multiple Administrators
- Entitlement of clients at install-time with Kickstart
- Features, benefits, and requirements of Proxy Server
- Features, benefits, and requirements of Satellite Server

Kickstart, cvs, RPM, and Red Hat Network

- Using Kickstart in conjunction with other tools

Introduction to Advanced Server

- Kernel-level features
- Netdump

Failover using Red Hat Linux Advanced Server

- High Availability system components
- Implementing a two-node failover cluster
- Implementing Samba in a failover configuration
- Implementing NFS in a failover configuration
- Implementing a custom service in a failover configuration
- Active versus Passive configurations
- Using the high availability monitoring utilities
- Storing and reproducing failover configurations

Load-balancing using Red Hat Linux Advanced Server

- Implementing a two-node load-balancing pair using piranha
- Security considerations when using piranha
- Integrating failover, load-balancing, and other systems

Runtime Performance Tuning

- Basic principles and methodology
- Analysis of existing performance and requirements
- Understanding CPU performance
- Understanding and tuning disk performance
- Understanding and tuning memory usage
- Understanding and tuning network performance
- Controlling system resources

Bringing it All Together

- Combining all the above technologies covered in order to build a reliable, available, scalable, and manageable system providing various services

Course Prerequisites :

RH401 requires RHCE-level skills. The RHCE certificate on 7.1 or higher is recommended but not required. Prerequisite skills can be evidenced by passing the RHCE Exam in either:

- Red Hat Certified Engineer Exam (RH-302).
- Red Hat Rapid Track Certification (RH-300).
- Red Hat Linux Network and Security Administration (RH-253).

Note: Persons should not enroll in RH401 without meeting the above prerequisites. All prospective course participants who do not possess RHCE certification are strongly advised to contact Red Hat Global Learning Services or Global Knowledge for a skills assessment when they enroll.

Testing and Certification :

Follow on Courses :

Further Information :

RH401/

For more information, or to book your course, please call Global Knowledge Denmark
 Address: Kirkebjerg Alle 88, 2605 Brøndby
 Telephone: +45 44 88 18 00
 Email: training@globalknowledge.dk
 Web: www.globalknowledge.dk