

RED HAT ENTERPRISE LINUX SYSTEM ADMINISTRATION III + RHCSA & RHCE EXAMS

Course: RH255; Duration: 5 Days; Instructor-led

WHAT YOU WILL LEARN

Red Hat System Administration III with RHCSA and RHCE Exams (RH255) is designed for experienced Linux Administrators who require networking and security administration skills. With a heavy emphasis on practical, hands-on labs, this course is tightly aligned with experienced Linux administrators' job tasks and the skills required for advancement. Focus is placed on enhancing the students' automation skills to securely configure, deploy and manage network services including DNS, Apache, SMTP and network file sharing. In addition, this course emphasizes security, including monitoring, packet filtering, access controls and SELinux.

At the completion of this course, students already familiar with the RHCT / RHCSA administration skills will have exposure to all competencies tested by the RHCSA and RHCE exams. This class includes the RHCSA and the RHCE exams.

AUDIENCE

- Senior Linux System Administrators who require networking and security administration skills
- Linux IT Professionals who currently have RHCT / RHCSA certification, and are interested in earning an RHCE certification
- Linux IT Professionals that can demonstrate the competencies needed to earn an RHCT / RHCSA, but have not passed the RHCSA exam provided with the Red Hat System Administration II course

PREREQUISITES

- RHCSA Rapid Track Course (RH200) or Red Hat System Administration I & II
- Equivalent experience to the RHCSA Rapid Track Course
- Skills required to earn an RHCT / RHCSA certification

METHODOLOGY

This program will be conducted with interactive lectures, PowerPoint presentation, discussion and practical exercise.

COURSE OBJECTIVES

Upon completion of this program, participants should be able to :

- Enhance user security

- Disk management with iSCSI
- System and network activity monitoring
- Network management and packet filtering
- Software management
- Web service management
- File sharing across platforms
- Basic SMTP management

COURSE OUTLINES

Module 1 - Getting Started With The Classroom Environment

- Given a virtualized environment, begin to administrate multiple systems using prerequisite skills

Module 2 - Enhance User Security

- Configure system to use Kerberos to verify credentials and grant privileges via sudo

Module 3 - Bash Scripting And Tools

- Automate system administration tasks utilizing Bash scripts and text-based tools

Module 4 - File Security With GnuPG

- Secure files with GnuPG

Module 5 - Software Management

- Use yum plugins to manage packages; understand the design of packages; build a simple package

Module 6 - Network Monitoring

- Profile running services, then capture and analyze network traffic

Module 7 - Route Network Traffic

- Configure system to route traffic and customize network parameters with sysctl

Module 8 - Secure Network Traffic

- Secure network traffic through SSH port forwarding and iptables filtering / network address translation (NAT)

Module 9 - NTP Server Configuration

- Configure an NTP server

Module 10 - Filesystems And Logs

- Manage local filesystem integrity; monitor systems over time and system logging

Module 11 - Centralized And Secure Storage

- Access centralized storage (iSCSI) and encrypt filesystems

Module 12 - SSL-Encapsulated Web Services

- Understand SSL certificates and deploy an SSL-encapsulated web service

Module 13 - Web Server Additional Configuration

- Configure a web server with virtual hosts, dynamic content, and authenticated directories

Module 14 - Basic SMTP Configuration

- Configure an SMTP server for basic operation (null client, receiving mail, smarthost relay)

Module 15 - Caching-Only DNS Server

- Understand DNS resource records and configure a caching-only name server

Module 16 - File Sharing With NFS

- Configure file sharing between hosts with NFS

Module 17 - File Sharing With CIFS

- Configure file and print sharing between hosts with CIFS

Module 18 - File Sharing With FTP

- Configure file sharing with anonymous FTP

Module 19 - Troubleshooting Boot Process

- Understand the boot process and recover unbootable systems with rescue mode