

## RH254: Red Hat System Administration III

Red Hat System Administration III (RH254) is designed for experienced Linux administrators who require networking and security administration skills. With a heavy emphasis on practical, hands-on labs, this 4-day 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.



### 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

Before taking this course, students should have successfully completed the following courses or have equivalent experience:

- » 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

### WHAT YOU WILL LEARN

After completing this course you will understand:

- » Enhancing 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

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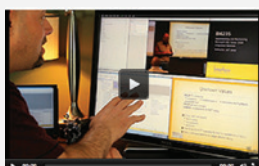
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**\$2900.00**

• 4-day course

**QUESTIONS?**

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*(course outline on back side)*



# COURSE OUTLINE

## RH254: Red Hat System Administration III

### 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 and understand the design of packages to 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 file system integrity, monitor system 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 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

### Follow up courses and exams

- » Red Hat Enterprise Linux Troubleshooting (RH242)
- » Red Hat Enterprise Virtualization (RH318)
- » Red Hat Enterprise Security: Network Services (RHS333)
- » Red Hat Enterprise Deployment, Virtualization and Systems Management (RH401)
- » Red Hat Enterprise Directory Services and Authentication (RH423)
- » Red Hat Enterprise SE Linux Policy Administration (RHS429)
- » Red Hat Enterprise Clustering and Storage Management (RH436)
- » Red Hat Enterprise System Monitoring and Performance Tuning (RH442)