



## **Red Hat System Administration III – RH254**

### **Course details**

**Location: Pune**

**Course Outline:**

#### **Unit 1 - Getting Started with the Classroom Environment**

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

#### **Unit 2 - Enhance User Security**

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

#### **Unit 3 - Bash Scripting and Tools**

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

#### **Unit 4 - File Security with GnuPG**

Secure files with GnuPG.

#### **Unit 5 - Software Management**

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

#### **Unit 6 - Network Monitoring**

Profile running services then capture and analyze network traffic

#### **Unit 7 - Route Network Traffic**

Configure system to route traffic and customize network parameters with sysctl

#### **Unit 8 - Secure Network Traffic**

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

#### **Unit 9 - NTP Server Configuration**



Configure an NTP server

### **Unit 10 - Filesystems and Logs**

Manage local file system integrity, monitor system over time, and system logging

### **Unit 11 - Centralized and Secure Storage**

Access centralized storage (iSCSI) and encrypt filesystems

### **Unit 12 - SSL-encapsulated Web Services**

Understand SSL certificates and deploy an SSL encapsulated web service

### **Unit 13 - Web Server Additional Configuration**

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

### **Unit 14 - Basic SMTP Configuration**

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

### **Unit 15 - Caching-Only DNS Server**

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

### **Unit 16 - File Sharing with NFS**

Configure file sharing between hosts with NFS

### **Unit 17 - File Sharing with CIFS**

Configure file and print sharing between hosts with CIFS

### **Unit 18 - File Sharing with FTP**

Configure file sharing with anonymous FTP

### **Unit 19 - Troubleshooting Boot Process**

Understand the boot process and recover unbootable systems with rescue mode