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RED HAT LINUX

# RHCE Rapid Track Training (RH299)

This training is designed to supply students with a fast track to earning their RHCSA and RHCE certifications to further their careers as Linux systems administrators.

## Course Overview

This Rapid Track course combines the [RHCSA Rapid Track Course \(RH199\)](#) and [Red Hat System Administration III \(RH254\)](#) into one four day training experience.

The accelerated track expands on fundamental command line based Linux Administration in Red Hat Enterprise Linux 7 (RHEL) environments. The course prepares students to earn their RHCSA and RHCE certifications.

## Course Objectives

- Managing Packages
- Managing Networks
- Managing Storage
- Managing Accounts and Authentication
- RHEL Installation, Using Kickstart and Virtualization
- Managing SELinux and Firewalls (firewalld)
- Managing Web Services
- Managing Email Services
- Using Network File Sharing Services

## Course Outline

## Managing Software

- Software package management with yum, rpm, and RHN
- Building RPM packages and moving them to repositories

## Managing Networks

- Configuring and troubleshooting network settings
- Configuring network bonding and IP aliases

## Managing Storage

- Partitioning, filesystems, and swap
- Configuring encrypted partitions and iSCSI initiator

## Logical Volume Management (LVM)

- Managing physical volumes, volume groups and logical volumes with filesystems

## Managing Accounts

- Account password aging
- ACLs and SGID directories relating to collaborative directories

## Managing Authentication

- Configuring LDAP and Kerberos
- Configuring autofs for supporting authentication client
- Configuring sudo and SSD

## System Installation, Kickstart and Virtualization

- Installing systems
- Managing Kickstart and firstboot
- Virtualization tools for managing virtual machines

## **Boot Management**

- Configuring runlevels and sysctl
- Resetting root password
- Grasping the boot process

## **Managing Security Enhanced Linux (SELinux)**

- Comprehending, managing and troubleshooting SELinux

## **Managing Firewalls**

- Configuring and managing firewalls

## **Managing Network Time Protocol (NTP) Service**

- Configuring NTP server and using service on clients

## **Using the System Logging Service**

- Creating disk, I/O and memory utilization reports and documentation
- Configuring remote logging

## **Managing Web (HTTP/HTTPS) Service**

- Managing web server through
  - virtual hosts
  - CGI scripts
  - user-based file/directory access controls

## **Using SMTP Service**

- Null client
- Outbound smarthost relay
- Inbound connections

## Caching-Only DNS Service

- Configuring caching nameserver
- Configuring DNS forwarder

## NFS and File Sharing

- Managing and securing NFS service with NFSv3 and NFSv4

## CIFS and File Sharing

- Configuring CIFS for:
  - home directories
  - file sharing
  - printer service
- Using clients for accessing CIFS shares

## File Transfer Protocol (FTP) Service

- FTP drop-box upload service

## Secure Shell (SSH) Service

- Configuring and implementing SSH keys

## Course Review

# RHCE EX300 Certification Exam

## Exam Details:

- All exam questions are performance-based
- The exam is 2.5 hours in duration

## Exam Objectives:

### System Configurations and Management

- Network teaming or bonding for configuring aggregated network links between RHEL systems
- Configuring and troubleshooting IPv6 addresses
- Routing IP traffic and setting up static routes
- firewalld and related tools (rich rules, zones and custom rules) for implementing packet filtering and configuring network address translation (NAT)
- /proc/sys and sysctl for adjusting and establishing kernel runtime parameters
- Configuring systems for authentication with Kerberos
- Configuring systems as iSCSI targets or initiators that mount on iSCSI targets
- Creating and delivering reports on system use processor, memory, disk and network utilization
- Shell scripting for automating system maintenance

Network Services - Students should be capable of applying these skills for the network services listed below

- Installing packages required for providing specific network services
- Configuring SELinux for supporting services
- SELinux port labeling for services to utilize non-standard ports
- Configuring services to start at system boot
- Configuring service operation
- Configuring host-based and user-based security for services

### HTTP/HTTPS

- Configuring virtual hosts
- Configuring private directories
- Deploying basic CGI applications
- Configuring group-managed content
- Configuring Transport Layer Security(TLS)

### DNS

- Configuring caching-only name servers
- Troubleshooting DNS client problems

### NFS

- Supplying network shares to clients
- Supplying network shares for groups
- Kerberos for access control for NFS network shares

### SMB

- Supplying network shares to clients
- Supplying network shares for groups
- Kerberos for authenticating access for shared directories

#### SMTP

- Configuring systems for forwarding emails to central mail servers

#### SSH

- Configuring key-based authentication
- Configuring options detailed in documentation

#### NTP

- NTP peers for synchronizing time

#### Database Services

- Installing and configuring MariaDB
- Backing up and restoring databases
- Creating database schemas
- Executing SQL queries against databases

## FAQs for RH299 Training

### Who should take this training?

This course is intended for Linux System Administrators with at least three years of experience who are pursuing the RHCE certification, Solaris System Administrators who finished Red Hat Enterprise Linux for Solaris Administrators (RH290), RHCE professionals who aim to verify their skills for Red Hat Enterprise Linux 7, or individuals who completed the RHCSA Rapid Track Course (RH200) should take Red Hat System Administration III (RH254).

### What is the recommended experience for this training?

Candidates should have completed Red Hat System Administration I (RH124), II (Rh134), and III (RH254); and hold experience and skills required by RHCT/RHCSA certified professionals.

Starting at **\$3,800**

### **ATTENTION**

For GSA pricing or Contractor quotes call  
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## Included in this **RHCE Rapid Track Training (RH299)**

- 4 days instructor-led training
- RHCE Rapid Track Training (RH299) training book
- Eligible for MyCAA scholarship
- Notepad, pen and highlighter
- Variety of bagels, fruits, doughnuts and cereal available at the start of class\*
- Tea, coffee and soda available throughout the day\*
- Freshly baked cookies every afternoon\*