

## **Red Hat System Administrator III: Data Center Services for RHEL7 (RH254VT)**

**Modality: Virtual Classroom**

**Duration: 5 Days**

### **About this course:**

The course is aimed on managing and deploying network servers running caching Apache HTTPD, MariaDB, Domain Name Service (DNS), network file sharing with Network File System (NFS), Postfix SMTP nullclients, and Server Message Block (SMB), progressed organizing and firewalld arrangements, iSCSI initiators and targets, and the utilization of Bash shell scripting to help configure, automate, and troubleshoot the framework. Through hands-on labs and lectures, understudies who have just earned the certification of RHCSA will be presented to all capabilities secured by the exam of (EX300) Red Hat Certified Engineer (RHCE).

The normal pay for Red Hat System Administrator is \$72,762 annually.

### **Course Objectives:**

- Configure link teaming, bridging, aggregation, and bonding.
- Control services and daemons.
- Configure filters with firewalls.
- Manage networking.
- Manage DNS servers.
- Provide iSCSI block storage.
- Permit and reject access to network services using SELinux.
- Configure the MariaDB SQL database.
- Configure SMTP email delivery.
- Write simple bash automation scripts.
- Configure Apache HTTPD with TLS-enabled virtual hosts.
- Configure NFS and SAMBA file-based storage.

### **Audience:**

This course is planned for:

Experienced administrators of Linux who are desiring to learn business-level techniques of automation through scripting, how to secure and deploy the services of network, and how to oversee other key features of the security of Red Hat Enterprise Linux. Understudies of this course have earned their RHCSA or have proportional aptitudes.

### **Prerequisites:**

RHCSA certification or equivalent experience

For up-and-comers who have not earned their credential of RHCSA, the affirmation of the right abilities and information can be acquired by passing the online aptitudes evaluation.

## **Suggested prerequisites courses:**

Red Hat System Administration I (RH124)

## **Course Outline:**

### **Control services and daemons**

Review how to manage services and the boot-up process using systemctl

### **Manage IPv6 networking**

Configure and troubleshoot basic IPv6 networking on Red Hat Enterprise Linux systems

### **Configure link aggregation and bridging**

Configure and troubleshoot advanced network interface functionality including bonding, teaming, and local software bridges

### **Control network port security**

Permit and reject access to network services using advanced SELinux and firewalld filtering techniques

### **Manage DNS for servers**

Set and verify correct DNS records for systems and configure secure DNS caching

### **Configure email delivery**

Relay all email sent by the system to an SMTP gateway for central delivery

### **Provide block-based storage**

Provide and use networked iSCSI block devices as remote disks

### **Provide file-based storage**

Provide NFS exports and SMB file shares to specific systems and users

### **Configure MariaDB databases**

Provide a MariaDB SQL database for use by programs and database administrators

### **Provide Apache HTTPD web service**

Configure Apache HTTPD to provide Transport Layer Security (TLS)-enabled websites and virtual hosts

### **Write Bash scripts**

Write simple shell scripts using Bash

### **Bash conditionals and control structures**

Use Bash conditionals and other control structures to write more sophisticated shell commands and scripts

### **Configure the shell environment**

Customize Bash startup and use environment variables, Bash aliases, and Bash functions

### **Linux containers preview**

Preview the capabilities of Linux containers, Docker, and other related technologies in Red Hat Enterprise Linux 7

### **Comprehensive review**

Practice and demonstrate knowledge and skills learned in Red Hat System Administration III