

5 Days

## EX300: RHCE Certification lab with RHCSA and RHCE exams

During the 5-day course, participants will work at their own pace through the complete set of labs from both the Red Hat Certified System Administrator (RHCSA) Rapid Track course (RH199) and Red Hat System Administration III (RH254). The RHCE Certification Lab course includes a few instructor lectures designed to review key technologies such as systemd, firewalld, and IPv6. For the classroom and virtual classroom versions of this course, an instructor will be available throughout the week to assist participants as they work through the labs.

## Course Details

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### Course Outline

Local and remote logins Review methods for accessing the system and engaging Red Hat Support. File system navigation Copy, move, create, delete, link, and organize files while working from the Bash shell prompt. Users and groups Manage Linux users and groups and administer local password policies. File permissions Control access to files and directories using permissions and access control lists (ACLs). SELinux permissions Manage the SELinux behavior of a system to keep it secure in case of a network service compromise. Process management Evaluate and control processes running on a Red Hat Enterprise Linux system. Updating software packages Download, install, update, and manage software packages from Red Hat and yum package repositories. Creating and mounting file systems Create and manage disks, partitions, and filesystems from the command line. Service management and boot troubleshooting Control and monitor system daemons and troubleshoot the Red Hat Enterprise Linux boot process. Network configuration Configure basic IPv4 networking on Red Hat Enterprise Linux systems. System logging and ntp Locate and accurately interpret relevant system log files for troubleshooting purposes. Logical volume management Create and manage logical volumes from the command line. Scheduled processes Schedule tasks to automatically execute in the future. Mounting network file systems Use autofs and the command line to mount and unmount network storage with NFS and SMB. Firewall configuration Configure a basic firewall. Virtualization and kickstart Automate the installation of Red Hat Enterprise Linux on virtual machines with kernel-based virtual machine (KVM) and libvirt. Managing IPv6 networking Configure and troubleshoot basic IPv6 networking on Red Hat Enterprise Linux systems. Configuring link aggregation and bridging Configure and troubleshoot advanced network interface functionality including bonding, teaming, and local software bridges. Controlling network port security Permit and reject access to network services using advanced SELinux and firewalld filtering techniques. Managing DNS for Servers Set and verify correct DNS records for systems and configure secure-caching DNS. Configuring E-mail Delivery Relay all e-mail sent by the system to a SMTP gateway for central delivery. Providing block-based storage Provide and use networked iSCSI block devices as remote disks. Providing file-based storage Provide NFS exports and SMB file shares to specific systems and users. Configuring MariaDB databases Provide a MariaDB SQL database for use by programs and database administrators. Providing Apache HTTPD Web Service Configure Apache HTTPD to provide Transport Layer Security (TLS)-enabled websites and virtual hosts. Writing 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. Configuring the shell environment Customize Bash startup and use environment variables, Bash aliases, and Bash functions.

### Who Should Attend

RHCEs on Red Hat Enterprise Linux 6 or earlier who wish to recertify on Red Hat Enterprise Linux 7 Students who previously attempted the RHCE exam, did not pass, and wish to retake the exam Students who have completed the RHCE track courses (Red Hat System Administration I, II, and III or equivalent) and would like additional hands-on practice prior to taking the RHCE exam

### Pre Requisite

Students should have already completed Red Hat System Administration I, II, and III or equivalent training. It is highly recommended students take our online skills assessment prior to enrolling in this course. Extensive UNIX administration experience by itself is not adequate for most students

# Exams

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