

Red Hat Certified Engineer Rapid Track Course with RHCSA and RHCE Exams

RH300: 5 Days

Course Overview

The RHCE Fast Track Course with RHCSA and RHCE Exams (RH300) is designed for senior Linux system administrators who want to validate their competencies by earning the RHCSA and RHCE credentials. This is a fast-paced preparation course that combines the RHCSA Fast Track Course (RH199) and System Administration III (RH254) courses, normally eight days of training, into a single four-day course. Building on the students' extensive knowledge of command line based Linux administration, the course moves very quickly through the intermediate and advanced tasks covered by lab-based knowledge checks and facilitative discussions. By the end of this course, the senior Linux administrator students will have been exposed to all the intermediate and advanced competencies tested by the RHCSA and RHCE exams. The RHCSA and RHCE exams are included with this course.

Audience Profile

- Experienced Linux system administrators with a minimum of three years of Linux experience who want a fast-track solution to earn an RHCE certification.
- Experienced Solaris system administrators who have completed the Red Hat Enterprise Linux for Solaris Administrators (RH290) course.
- This course is not recommended for students who have successfully completed the RHCSA Rapid Track Course (RH200). For those students, the Red Hat System Administration III (RH254) course is recommended.

Prerequisites

Before attending this course, students must have:

- Students must meet the requirements for attending Red Hat System Administration I, II, and III courses
- Students must have the same skill set as an RHCT/RHCSA.






Related Certification Exam(s)

Next Class(es)

Follow up courses

- 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)

Course Outline

-  **Unit 1: Software Management**
Objective: Manage packages with yum, rpm, and RHN; build an RPM package and place it in a repository
-  **Unit 2: Network Management**
Objective: Configure and troubleshoot network settings; configure network bonding
-  **Unit 3: Storage Management**
Objective: Manage partitioning, filesystems and swap space; configure encrypted partitions and iSCSI initiator
-  **Unit 4: Logical Volume Management (LVM)**
Objective: Manage physical volumes, volume groups and logical volumes with their filesystems
-  **Unit 5: Account Management**
Objective: Provide password aging for accounts; use ACLs and SGID directories for collaborative directories
-  **Unit 6: Authentication Management**
Objective: Configure an LDAP and Kerberos client; configure autofs to support authentication client
-  **Unit 7: Installation, Kickstart, and Virtualization**
Objective: Install a system and manage kickstart and firstboot; use virtualization tools to manage virtual machines
-  **Unit 8: Boot Management**
Objective: Configure runlevels and sysctl; reset the root password; understand the boot process
-  **Unit 9: Scheduling Commands (at and cron)**
Objective: Schedule commands using at and cron
-  **Unit 10: Security Enhanced Linux (SELinux) Management**
Objective: Understand, troubleshoot, and manage SELinux
-  **Unit 11: Firewall Management**
Objective: Manage the firewall
-  **Unit 12: Network Time Protocol (NTP) Service**
Objective: Configure an NTP server and provide that service to clients
-  **Unit 13: System Logging (rsyslog) Service**
Objective: Troubleshoot by finding and analyzing logs; configure remote logging
-  **Unit 14: Web (HTTP/HTTPS) Service**
Objective: Manage a web server with virtual hosts and using file/directory access controls
-  **Unit 15: Email (SMTP) Service**
Objective: Null client; outbound smarthost relay; accept inbound connections
-  **Unit 16: Domain Name System (DNS) Service**
Objective: Configure a caching nameserver and DNS forwarder
-  **Unit 17: Network File System (NFS) Service**
Objective: Manage the NFS service; use autofs to access the NFS server
-  **Unit 18: Common Internet File System (CIFS) Service**
Objective: Configure a CIFS server; use autofs to access the CIFS server
-  **Unit 19: File Transfer Protocol (FTP) Service**
Objective: Provide anonymous-only download service; provide drop-box upload service
-  **Unit 20: Common UNIX Printing System (CUPS) Service**
Objective: Configure local and remote printers

 **Unit 21: Secure Shell (SSH) Service**

Objective: Configure and implement SSH keys;
use SSH for port forwarding; transfer data using
rsync

 **Unit 22: Virtual Network Computing
(VNC) Service**

Objective: Configure remote desktops and
connect to them securely

 **Unit 23: Comprehensive Review**

Objective: Review tasks previously taught in class