

RH299 RHCE Rapid Track Course

Course Summary

Description

The RHCE Fast Track Course (RH299) 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.

Topics

- Package management
- Network management
- Storage management
- Account and authentication management
- Installation, Kickstart, and virtualization
- SELinux and firewall management
- Web service
- Email service
- Network file sharing services
- SSH and VNC services

Audience

- 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

- 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

Duration

Five days

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RH299 RHCE Rapid Track Course Course Outline

- I. Software Management**
 - A. Manage packages with yum, rpm, and RHN; build an RPM package and place it in a repository
- II. Network Management**
 - A. Configure and troubleshoot network settings; configure network bonding and IP aliases
- III. Storage Management**
 - A. Manage partitioning, filesystems, and swap space
 - B. Configure encrypted partitions and iSCSI initiator
- IV. Logical Volume Management (LVM)**
 - A. Manage physical volumes, volume groups, and logical volumes with their filesystems
- V. Account Management**
 - A. Provide password aging for accounts
 - B. Use ACLs and SGID directories for collaborative directories
- VI. Authentication Management**
 - A. Configure an LDAP and Kerberos client
 - B. Configure autofs to support an authentication client
 - C. Configure sudo and SSD
- VII. Installation, Kickstart, and Virtualization**
 - A. Install a system and manage kickstart and firstboot; use virtualization tools to manage virtual machines
- VIII. Boot Management**
 - A. Configure runlevels and sysctl; reset the root password
 - B. Understand the boot process
- IX. Security Enhanced Linux (SELinux) Management**
 - A. Understand, troubleshoot, and manage SELinux
- X. Firewall Management**
 - A. Manage the firewall
- XI. Network Time Protocol (NTP) Service**
 - A. Configure an NTP server and provide that service to clients
- XII. System Logging Service**
 - A. Create disk, I/O, and memory usage reports
 - B. Configure remote logging
- XIII. Web (HTTP/HTTPS) Service**
 - A. Manage a web server with virtual hosts, CGI scripts, and user-based file/directory access controls
- XIV. SMTP Service**
 - A. Null client; outbound smarthost relay
 - B. Accept inbound connections
- A. Caching-only (DNS) Service**
 - B. Configure a caching nameserver and DNS forwarder
- XV. File Sharing with NFS**
 - A. Manage and secure the NFS service using NFSv3 and NFSv4
- XVI. C File Sharing with CIFS**
 - A. Configure the CIFS to provide home directories, file sharing, and printer servic3
 - B. Use a client to access the CIFS shares
- XVII. File Transfer Protocol (FTP) Service**
 - A. Provide anonymous-only download service
 - B. Provide drop-box upload service
- XVIII. Common UNIX Printing System (CUPS) Service**
 - A. Configure and manage local and remote printers
- XIX. Secure Shell (SSH) Service**
 - A. Configure and implement SSH keys
- XX. Virtual Network Computing (VNC) Service**
 - A. Configure remote desktops and connect to them securely
- XXI. Comprehensive Review**
 - A. Review tasks previously taught in class