

Red Hat System Administration III (RH 254)

COURSE OVERVIEW

Broaden your ability to administer Linux systems and prepare for your Red Hat Certified Engineer (RHCE) exam

Red Hat System Administration III: Data Center Services for Red Hat Enterprise Linux 7 (RH254) is designed for experienced Linux® system administrators who hold a Red Hat Certified System Administrator (RHCSA®) credential or possess equivalent skills and want to broaden their ability to administer Linux systems at an enterprise level.

This course is based on Red Hat® Enterprise Linux 7.

The course is focused on deploying and managing network servers running caching domain name service (DNS), MariaDB, Apache HTTPD, Postfix SMTP nullclients, network file sharing with network file system (NFS) and server message block (SMB), iSCSI initiators and targets, advanced networking and firewalld configurations, and the use of bash shell scripting to help automate, configure, and troubleshoot the system. Through lectures and hands-on labs, students who have already earned the RHCSA credential will be exposed to all competencies covered by the Red Hat Certified Engineer (RHCE) exam (EX300).

WHO WILL BENEFIT FROM THIS COURSE?

This course is intended for experienced Linux administrators wishing to learn enterprise-level automation techniques through scripting, how to deploy and secure network services, and how to manage other key security features of Red Hat Enterprise Linux. Prior to taking this course, you should have earned your RHCSA or possess equivalent skills.

PREREQUISITES

- RHCSA certification or equivalent experience
- For candidates who have not earned their RHCSA certification, confirmation of the correct skills and knowledge can be obtained by passing the online skills assessment

COURSE OBJECTIVES

As a result of attending this course, you should be able to perform the key tasks needed as a fulltime Linux system engineer or consultant. This course introduces enterprise Linux advanced administration topics, including service and daemon control, network configuration and troubleshooting, NFS and SAMBA file server configuration, Apache HTTP web server management, MariaDB SQL database configuration, Postfix SMTP configuration, DNS troubleshooting, and bash scripting.





You should be able to demonstrate these skills:

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

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.

Comprehensive review

Practice and demonstrate knowledge and skills learned in this course.

WHY TRAIN WITH SUNSET LEARNING INSTITUTE?

Sunset Learning Institute (SLI) has been an innovative leader in developing and delivering authorized technical training since 1996. Our goal is to help our customers optimize their technology Investments by providing convenient, high quality technical training that our customers can rely on. We empower students to master their desired technologies for their unique environments.

What sets SLI apart is not only our immense selection of trainings options, but our convenient and consistent delivery system. No matter how complex your environment is or where you are located, SLI is sure to have a training solution that you can count on!

Premiere World Class Instruction Team

- All SLI instructors have a four-year technical degree, instructor level certifications and field consulting work experience
- Sunset Learning has won numerous Instructor Excellence and Instructor Quality Distinction awards since 2012

Enhanced Learning Experience

The goal of our instructors during class is ensure students understand the material, guide them through our labs and encourage questions and interactive discussions.

Convenient and Reliable Training Experience

- You have the option to attend classes live with the instructor, at any of our established training facilities, or from the convenience of your home or office
- All Sunset Learning Institute classes are guaranteed to run you can count on us to deliver the training you need when you need it!

Outstanding Customer Service

- You will work with a dedicated account manager to suggest the optimal learning path for you and/or your team
- An enthusiastic student services team is available to answer any questions and ensure a quality training experience

Interested in Private Group Training? Contact Us