Red Hat System Administrator III - Data Center Services for RHEL7 (RH254)

Category: Infrastructure & IT Operations | **Vendor:** Red Hat

Duration: 32.00 hours (4 days) **26.0 CPD Hours** **Rating:** ⭐ 4.6 (5,878 reviews)

Course Information

Delivery Format:	Other
Certification:	Red Hat Certified Engineer (RHCE)
Related Exam:	EX300

Course Overview

If you are an experienced Linux® system administrator and hold a Red Hat Certified System Administrator (RHCSA®) credential or possess equivalent skills and want to broaden your ability to administer Linux systems at an enterprise level, this is the perfect course.The course will empower you to deploy and manage network servers running caching domain name service (DNS), MariaDB, Apache HTTPD, Postfix SMTP null clients, network file sharing with network file system (NFS) and server message block (SMB), iSCSI initiators and targets, advanced networking and firewall configurations, and to use bash shell scripting to help automate, configure, and troubleshoot your system. Through lectures and hands-on labs, you will be exposed to all competencies covered by the Red Hat Certified Engineer (RHCE) exam (EX300), supplementing what you have already learned in earning your RHCSA credential.This course is based on Red Hat® Enterprise Linux 7.

About This Course

If you are an experienced Linux® system administrator and hold a Red Hat Certified System Administrator (RHCSA®) credential or possess equivalent skills and want to broaden your ability to administer Linux systems at an enterprise level, this is the perfect course.The course will empower you to deploy and manage network servers running caching domain name service (DNS), MariaDB, Apache HTTPD, Postfix SMTP null clients, network file sharing with network file system (NFS) and server message block (SMB), iSCSI initiators and targets, advanced networking and firewall configurations, and to use bash shell scripting to help automate, configure, and troubleshoot your system. Through lectures and hands-on labs, you will be exposed to all competencies covered by the Red Hat Certified Engineer (RHCE) exam (EX300), supplementing what you have already learned in earning your RHCSA credential.This course is based on Red Hat® Enterprise Linux 7.

Who Should Attend

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 & Entry Requirements

General 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

Learning Outcomes

Upon successful completion of this course, participants will be able to:

At the completion of this course, students already familiar with the RHCT/RHCSA administration skills will have exposure to all competencies tested by the RHCSA and RHCE exams.

Detailed Course Outline

Getting Started with the Classroom Environment

- Given a virtualized environment, begin to administrate multiple systems using prerequisite skills

Enhance User Security

- Configure system to use Kerberos to verify credentials and grant privileges via sudo

Bash Scripting and Tools

- Automate system administration tasks utilizing Bash scripts and text-based tools

File Security with GnuPG

- Secure files with GnuPG.

Software Management

- Use yum plugins to manage packages and understand the design of packages to build a simple package

Network Monitoring

- Profile running services then capture and analyze network traffic

Route Network Traffic

- Configure system to route traffic and customize network parameters with sysctl

Secure Network Traffic

- Secure network traffic through SSH port forwarding and iptables filtering/network address translation (NAT)

NTP Server Configuration

- Configure an NTP server

Filesystems and Logs

- Manage local file system integrity, monitor system over time, and system logging

Centralized and Secure Storage

- Access centralized storage (iSCSI) and encrypt filesystems

SSL-encapsulated Web Services

- Understand SSL certificates and deploy an SSL encapsulated web service

Web Server Additional Configuration

- Configure web server with virtual hosts, dynamic content, and authenticated directories

Basic SMTP Configuration

- Configure an SMTP server for basic operation (null client, receiving mail, smarthost relay)

Caching-Only DNS Server

- Understand DNS resource records and configure a caching-only name server

File Sharing with NFS

- Configure file sharing between hosts with NFS

File Sharing with CIFS

- Configure file and print sharing between hosts with CIFS

File Sharing with FTP

- Configure file sharing with anonymous FTP

Troubleshooting Boot Process

- Understand the boot process and recover unbootable systems with rescue mode

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1 - Control services and daemons

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

2 - Manage IPv6 networking

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

3 - Configure link aggregation and bridging

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

4 - Control network port security

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

5 - Manage DNS for servers

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

6 - Configure email delivery

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

7 - Provide block-based storage

- Provide and use networked iSCSI block devices as remote disks.

8 - Provide file-based storage

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

9 - Configure MariaDB databases

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

10 - Provide Apache HTTPD web service

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

11 - Write bash scripts

- Write simple shell scripts using bash.

12 - Bash conditionals and control structures

- Use bash conditionals and other control structures to write more sophisticated shell commands and scripts.

13 - Configure the shell environment

- Customize bash startup and use environment variables, bash aliases, and bash functions.

14 - Comprehensive review

- Practice and demonstrate knowledge and skills learned in this course.

□□ Certification Path

Red Hat Certified Engineer (RHCE)

Exam: EX300

Additional Course Details

Nexus Humans Red Hat System Administrator III - Data Center Services for RHEL7 (RH254) training program is a workshop that presents an invigorating mix of sessions, lessons, and masterclasses meticulously crafted to propel your learning expedition forward.

This immersive bootcamp-style experience boasts interactive lectures, hands-on labs, and collaborative hackathons, all strategically designed to fortify fundamental concepts.

Guided by seasoned coaches, each session offers priceless insights and practical skills crucial for honing your expertise. Whether you're stepping into the realm of professional skills or a seasoned professional, this comprehensive course ensures you're equipped with the knowledge and prowess necessary for success.

While we feel this is the best course for the Red Hat System Administrator III - Data Center Services for RHEL7 (RH254) course and one of our Top 10 we encourage you to read the course outline to make sure it is the right content for you.

Additionally, private sessions, closed classes or dedicated events are available both live online and at our training centres in Dublin and London, as well as at your offices anywhere in the UK, Ireland or across EMEA.

Frequently Asked Questions

Q: What delivery options are available for Red Hat System Administrator III - Data Center Services for RHEL7 (RH254)?

We offer multiple delivery formats:

- Live Instructor-Led Classroom Online (Virtual/Live Online)
- Traditional Instructor-Led Classroom Training (ILT)
- On-site delivery at your offices anywhere in United Kingdom
- Private dedicated courses customized for your team

Q: What certification does this course prepare me for?

The Red Hat System Administrator III - Data Center Services for RHEL7 (RH254) course helps prepare you for the Red Hat Certified Engineer (RHCE) certification path.

Q: Which exam does this course prepare me for?

This course prepares you for the EX300 official exam. You can take this exam at any exam center across United Kingdom including London, Manchester, Birmingham, Edinburgh, or live online wherever you are located.

Q: How many CPD hours does this course provide?

The 4-day Red Hat System Administrator III - Data Center Services for RHEL7 (RH254) course provides up to 26.0 CPD hours of structured learning. CPD certificates can be provided upon request.

Q: What is the duration of the Red Hat System Administrator III - Data Center Services for RHEL7 (RH254) training?

The training takes place over 4 day(s), with each day lasting approximately 32.00 hours including breaks for lunch and refreshments.

Q: Do you provide corporate training for Red Hat System Administrator III - Data Center Services for RHEL7 (RH254)?

Yes, we provide corporate training, dedicated training, and closed classes for Red Hat System Administrator III - Data Center Services for RHEL7 (RH254). Training can take place anywhere in United Kingdom including London, Manchester, Birmingham, Edinburgh, or live online allowing teams from across United Kingdom or internationally to attend.

Q: Why choose Nexus Human for Red Hat System Administrator III - Data Center Services for RHEL7 (RH254)?

Nexus Human is recognized as one of the leading training providers. Our trainers have won multiple awards including:

- Small Firms Best Trainer Award
- National Training Partner of the Year (Ireland) - Multiple Years
- Global Top 30 Instructor Awards (2012, 2019, 2021)
- Tech Excellence Award Nominations
- Learning Performance Institute (LPI) External Training Provider Sponsor 2024

Q: Are there any discount codes available?

Yes! Use discount code **PENPAL5** when booking your Red Hat System Administrator III - Data Center Services for RHEL7 (RH254) training. Please note that only one discount code can be used per booking and cannot be combined with other special offers.

Nexus Human

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