

Red Hat RHCSA and RHCE

Become a job-ready Red Hat Linux administrator who manages RHEL from the command line and automates it with Ansible, prepared for the RHCSA (EX200) and RHCE (EX294) exams.

Duration: 1.5 months

Prepares for: Red Hat RHCSA (EX200) and RHCE (EX294)

Format: Online or onsite, 1-on-1 or batch

Target exam: EX200 (RHCSA) plus EX294 (Ansible)

NUEXUS certificate on completion

OVERVIEW

This intensive, hands-on course takes you through Red Hat Enterprise Linux administration from core fundamentals to enterprise automation, mapped directly to the RHCSA (EX200) and RHCE (EX294) exam objectives. You will spend most of your time in real RHEL lab environments configuring storage, users, networking, SELinux, containers, and services, then move into infrastructure automation with Ansible playbooks and roles. Delivered live and mentor-led by certified trainers, it is built to make you confident on a production Linux system, not just to memorise commands. It is ideal preparation for anyone targeting a Linux systems administration or DevOps foundation role.

SKILLS YOU WILL GAIN

Linux Command Line

File & User Management

Permissions & ACLs

Storage & LVM

systemd Services

Networking

Firewalld & SELinux

Shell Scripting

Ansible Automation

Ansible Playbooks

WHAT YOU WILL BE ABLE TO DO

- Install, access, and confidently operate Red Hat Enterprise Linux from the command line and manage files, text, and processes
- Manage users, groups, permissions, and SELinux to secure a RHEL system correctly
- Configure local storage, logical volumes (LVM), and file systems, and mount them persistently
- Administer services, scheduled jobs, networking, firewalls, and software with systemd, firewalld, and dnf
- Deploy and manage containers on RHEL using Podman as a rootless, unprivileged user
- Write and run Ansible playbooks and roles to automate configuration, deployment, and management across multiple managed hosts

WHO IT IS FOR

- Aspiring Linux system administrators who want a recognised, vendor-backed credential to enter the field
- IT support, helpdesk, or Windows admins looking to cross-skill into enterprise Linux and RHEL
- Aspiring DevOps and cloud engineers who need solid Linux and Ansible automation foundations
- Students and fresh graduates in IT or computer science aiming for a job-focused, practical skill set
- Working professionals preparing specifically for the Red Hat EX200 and EX294 performance-based exams

PREREQUISITES

- Basic comfort with using a computer and navigating an operating system; no prior Linux experience is required for the RHCSA portion
- Willingness to work at the command line rather than a graphical interface
- A laptop capable of running a virtual machine, or reliable internet to access the online lab environment
- Basic English reading ability, since RHEL documentation and exam tasks are in English

WHAT'S INCLUDED

- Mentor-led live sessions, online or onsite, in batch or 1-on-1
- Hands-on labs and real-world projects, not slides alone
- Recordings of your own sessions to revisit anytime
- Exam-aligned study material and practice questions
- Doubt-clearing and revision support through the program
- A verifiable NUEXUS completion certificate
- Career and next-step guidance after you finish

COURSE CURRICULUM

1 RHCSA: Getting Started with RHEL and the Command Line

- Accessing the command line locally and over SSH
- Navigating the Linux file system and managing files and directories
- Using standard input, output, redirection, and pipes
- Creating, viewing, and editing text files with Vim
- Getting help from man pages and Red Hat documentation

2 RHCSA: Users, Groups, and File Permissions

- Creating, modifying, and deleting local user and group accounts
- Managing passwords and password ageing policies
- Configuring standard file permissions, special permissions, and umask
- Setting up group collaboration directories with SGID and the sticky bit
- Configuring sudo access for privilege delegation

3 RHCSA: Processes, Services, and Boot Management

- Monitoring and controlling processes, and adjusting process priority
- Managing system services and targets with systemd and systemctl
- Controlling the boot process and booting into different targets
- Resetting a lost root password and repairing boot issues
- Scheduling tasks with cron, at, and systemd timers

4 RHCSA: Storage, LVM, and File Systems

- Listing, creating, and deleting partitions on MBR and GPT disks
- Creating and managing physical volumes, volume groups, and logical volumes
- Extending logical volumes and their file systems
- Creating and mounting ext4, XFS, and swap, including persistent mounts in /etc/fstab
- Configuring and using autofs / network mounts (NFS)

5 RHCSA: Software, Networking, and Time

- Installing and updating software with dnf and managing repositories
- Configuring host networking with nmcli and NetworkManager
- Setting hostname and performing name resolution
- Configuring time and time synchronisation with chronyd
- Archiving, compressing, and transferring files with tar and scp/rsync

6 RHCSA: SELinux and System Security

Explaining SELinux modes: enforcing, permissive, and disabled

Setting and viewing SELinux file and process contexts

Using SELinux booleans to adjust policy

Diagnosing and resolving common SELinux policy violations with audit logs

Configuring firewalld to control network access

7 RHCSA: Containers with Podman

Finding and pulling container images from a registry

Running, inspecting, and managing containers as a non-root user

Attaching persistent storage to a container

Configuring a container to start automatically as a systemd service

Managing container networking and port mapping

8 RHCE: Ansible Fundamentals and Setup

Understanding Ansible control node and managed node architecture

Installing Ansible and configuring ansible.cfg and inventory files

Configuring managed hosts, SSH keys, and privilege escalation

Running ad hoc commands and understanding modules and idempotency

Managing inventories, host groups, and variables

9 RHCE: Writing and Running Playbooks

Writing YAML playbooks with plays, tasks, and modules

Using variables, facts, and Ansible Vault to protect sensitive data

Implementing loops, conditionals, and handlers

Using templates with Jinja2 to deploy configuration files

Managing files, packages, services, users, and storage tasks with core modules

10 RHCE: Roles, Reuse, and Automation at Scale

Creating and structuring reusable Ansible roles

Using Red Hat and Ansible Galaxy content collections and roles

Organising large projects and importing/including tasks

Troubleshooting playbooks and managing task errors

Automating common Linux administration tasks across many hosts end to end

CAREER OUTCOMES

Linux System Administrator

Linux Engineer

DevOps Engineer

Site Reliability Engineer

Automation Engineer

Entry USD 50,000 to 70,000

Mid USD 70,000 to 100,000

Senior USD 100,000 to 135,000

Global averages from Glassdoor and PayScale, 2025. Actual pay varies by country, employer and experience.

CERTIFICATION PATH

NUEXUS training certificate

Issued by NUEXUS on course completion. Verifiable at nuexus.com/verify.

Red Hat RHCSA (EX200) and RHCE (EX294)

Earned by passing the official exam. Issued and verified by the certification body itself, not by NUEXUS.

Exam	EX200 (RHCSA) plus EX294 (Ansible)
Questions	No multiple choice; entirely task based on a live system
Format	Performance-based on Red Hat Enterprise Linux 10; your configurations must persist after a reboot
Duration	Red Hat no longer publishes a fixed duration on its exam pages; each exam runs several hours
Passing score	Red Hat no longer publishes the passing score on its current exam pages
Delivery	Red Hat individual exam, at a test center or as a remote proctored exam

Red Hat exam fees are paid separately to Red Hat and quoted per engagement. RHCE is now awarded automatically once you hold both RHCSA and the Ansible-based EX294; there is no separate RHCE exam. Certifications are current for three years. Even when NUEXUS arranges your exam voucher, the resulting certification is issued and verified by the certification body directly.