

Red Hat Certified System Administrator (RHCSA) Exam EX200

This Red Hat Certified System Administrator (RHCSA) Exam EX200 training covers how to monitor and manage the Linux operating system and administer enterprise networks and devices that run it. The EX200 certifying exam is a thorough assessment of your ability to manage enterprise storage, file systems, basic networking, users and groups, security, and containers – the basic essentials for a Linux administrator.

[CBT Nuggets course material](#) →

WEEK 1

Introduction to RHCSA

156 min.

Getting VMWare and Red Hat Enterprise Linux	7
Installing RHEL	8
Understanding Shells and Terminals	6
Getting Help	9
Exploring the File System	12
Validation	5

Create Archives and Compress Files

Introduction	1
Using gzip and bzip2	9
Using xz and zip	11
Tar and Star	14
Finding Files to Archive	1
Validation	5

Manage Users, Groups and Shells

Introduction	1
Creating New Users	9
Controlling Default Values	6
Deleting Users	3
User Modification	6
Understanding Groups	7
Assigning Privileges to Groups	8
The Passwd and Shadow Files	7
Validation	5

Process Text & Create Links

Introduction	1
Redirection Basics	7
Appending Output and Standard Error	8

WEEK 2

151 min.

Understanding the Pipe	4
Filtering with Grep	8
Digging into Regular Expressions	6
Head and Tail	4
Creating Hard Links and Soft Links	10
Validation	4

Create & Transform Text Files

Introduction	1
Text Editing with Nano	8
Understanding Vim Basics	8
Digging Deeper with Vim	10
Manipulating Files with Awk	8
Manipulating Files with Sed	6
Validation	6

Manage Files and Directories

Introduction	1
Listing Directory Content	12
Making Directories	6
Traversing the File System	11
Creating and Opening Files	7
Removing Files and Directories	5

Copying and Moving	12
Validation	5

Understand and Modify File Permissions

Introduction	1
Understanding Owners, Groups & Others	8

WEEK 3

154 min.

Changing Ownership	6
Symbolic Notation	11
Octal Notation	9
Special Permissions	13
Configuring Default Permissions	4
Validation	5

Understand Basic Networking

Introduction	1
IPv4 Basics	9
Public vs Private Addresses	9
The Netmask	8
IPv6 Addressing	8
The IP Command	6
NMCLI and NMTUI	7
Validation	7

Manage and Monitor Processes

Introduction	1
Understanding Processes	7

The Top Command	11
Memory and CPU Management	7
Sending Signals	9
Working with Jobs	6
Nice & Renice	6
Validation	4

WEEK 4

Partitions & Mounting

153 min.

Introduction	1
Working with Fdisk	8
Gdisk and Parted	6
The Extended File System	6
The XFS File System	4
Configuring Swap Space	5
Mounting File Systems	17
Validation	3

Understand LVM and Stratis

Introduction	1
The LVM Architecture	8
Creating Physical Volumes	6
Creating Volume Groups	4
Creating Logical Volumes	10
Managing Logical Volumes	7
Stratis	7
Validation	5

Automatic Services & Task Scheduling

Introduction	1
Cron Basics	10
Creating Cronjobs	12
One-Time Tasks	5
Starting Services Automatically	6
Scheduling Services with Systemd	10
Validation	3

Understand & Write Scripts

Introduction	1
What is a Bash Script?	7

WEEK 5

159 min.

What are Variables?	8
Understanding Conditional Logic	13
For Loops	8
While and Until Loops	6
Validation	5

Understand the Boot Process & Targets

Introduction	1
Describing the Boot Process	7
Understanding Grub2	9
Taking a Closer Look at Grub2	7
Understanding Boot Targets	4
Changing Boot Targets	8
Mapping Boot Targets to Runlevels	7
Validation	4

Manage SSH Connections

Introduction	1
SSH Connection Basics	6
SSH Server Configuration	8
SSH Client Configuration	8
SSH Keys	9
Transferring Files	13
Validation	7

Understand NFS & NTP

Introduction	1
What is NFS?	5
Configure an NFS Server	14

WEEK 6

152 min.

Configure an NFS Client	7
Mounting Options	7
Managing Time with NTP	8
Validation	5

Secure Linux Systems

Introduction	1
The Immutable Attribute	11
The Append Attribute	6
Understanding Access Control Lists	11
SELinux Basics	9
Managing Labels and Logs	10
Validation	5

Manage Packages on RHEL

Introduction	1
Understanding RPM	12
Creating a Local Repository	14
Working with DNF	7
DNF Groups	8
Validation	4

Understand and Configure Firewalls

Introduction	1
What Is A Firewall?	5
Stateless vs Stateful Firewalls	10
Common Services	6
Understanding iptables and nftables	4

WEEK 7

151 min.

Configuring firewalld	12
Testing Zones	3
Validation	4

Manage DNS and Logging

Introduction	1
DNS Fundamentals	6
DNS Records	4
Static Mappings	6
Selecting DNS Servers	3
Querying DNS Records	6
Understanding Systemd-Journald	5
Managing Logs with Rsyslog	8

Rotating and Writing Logs 5

Validation 3

Troubleshoot RHEL Systems

Introduction 1

Troubleshooting Capacity Problems 9

Troubleshooting CPU Issues 7

Troubleshooting Memory Issues 5

Troubleshooting Network Issues 8

Troubleshooting DNS Issues 6

Recovering the Root Password 4

Validation 6

Manage Containers on RHEL

Introduction 1

Understanding Containers 8

Running Container Instances 11

Executing Commands and Spawning Shells 5

Building Custom Images 8

Persistent Storage 6

WEEK 8

10 min.

Scheduling Containerised Services with Systemd 6

Validation 4