

RED HAT SYSTEM ADMINISTRATION I (RH124)

Course Code: 1268

RH124 - Get started building skills to perform the key tasks needed to become a full-time Linux administrator.

Red Hat System Administration I (RH124) is designed for IT professionals without previous Linux system administration experience. The course provides students with Linux administration competence by focusing on core administration tasks. This course also provides a foundation for students who plan to become full-time Linux system administrators by introducing key command-line concepts and enterprise-level tools.

This course is the first of a two-course series that helps a computer professional without Linux system administration knowledge to become a fully capable Linux administrator. These concepts are further developed in the follow-on course, Red Hat System Administration II (RH134).

This course is based on Red Hat® Enterprise Linux 10.0.

Following course completion, hands-on lab access will remain available for up to 45 days for any live course that includes a virtual environment.

Note: This course is offered as a five day in person class, a five day virtual class or is self-paced.

What You'll Learn

After completing this course, learners should be able to:

- Introduce Linux and the Red Hat Enterprise Linux ecosystem.
- Run commands and view shell environments.
- Manage, organize, and secure files.
- Manage users, groups, and user security policies.
- Control and monitor systemd services.
- Configure remote access by using the web console and SSH.
- Configure network interfaces and settings.
- Manage software by using DNF.

Who Needs to Attend

System administrators, platform engineers, developers, and other IT professionals who have limited Red Hat Enterprise Linux experience but need to perform essential Linux administration tasks on a single server.

Prerequisites

Basic familiarity with computer systems as a user.

Previous experience as a Linux user or with system administration of other operating systems might be beneficial.

Confirmation of the correct skill set knowledge can be obtained by passing the online skills assessment at [Red Hat Skills Assessment](#)

RED HAT SYSTEM ADMINISTRATION I (RH124)

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CLASSROOM LIVE

\$4,000 USD

5 Day

Classroom Live Outline

1. Access the command line
2. Log in to a Linux system and run simple commands using the shell
3. Manage files from the command line
4. Copy, move, create, delete, and organize files from the bash shell prompt
5. Getting help in Red Hat Enterprise Linux
6. Resolve problems by using online help systems and Red Hat support utilities
7. Create, view, and edit text files
8. Create, view, and edit text files from command output or in an editor
9. Manage local Linux users and groups
10. Manage local Linux users and groups, and administer local password policies
11. Control access to files with Linux file system permissions
12. Set Linux file system permissions on files and interpret the security effects of different permission settings
13. Monitor and manage Linux processes
14. Obtain information about the system, and control processes running on it
15. Control services and daemons
16. Control and monitor network services and system daemons using systemd
17. Configure and secure OpenSSH service
18. Access and provide access to the command line on remote systems securely using OpenSSH
19. Analyze and store logs
20. Locate and accurately interpret relevant system log files for troubleshooting purposes
21. Manage Red Hat Enterprise Linux networking
22. Configure basic IPv4 networking on Red Hat Enterprise Linux systems
23. Archive and copy files between systems
24. Archive files and copy them from one system to another

25. Install and update software packages
26. Download, install, update, and manage software packages from Red Hat and yum package repositories
27. Access Linux file systems
28. Access and inspect existing file systems on a Red Hat Enterprise Linux system.
29. Use virtualized systems
30. Create and use Red Hat Enterprise Linux virtual machines with KVM and libvirt
31. Comprehensive review
32. Practice and demonstrate the knowledge and skills learned in this course.

RED HAT SYSTEM ADMINISTRATION I (RH124)

Course Code: 1268

VIRTUAL CLASSROOM LIVE

\$4,400 USD

5 Day

Virtual Classroom Live Outline

- 1. Introduction to Red Hat Enterprise Linux**
 - Define and explain the following concepts: open source, Linux, Linux distributions, and Red Hat Enterprise Linux.
- 2. Accessing the Command Line**
 - Log in to a Linux system and run simple commands by using the shell.
- 3. Getting Help from Local Documentation**
 - Resolve problems by using information in local help systems and documentation.
- 4. Registering Systems for Red Hat Support**
 - Register a system by using your Red Hat account to get support services and software that Red Hat provides.
- 5. Getting AI-assisted Help with RHEL Lightspeed**
 - Get AI-driven guidance and suggestions to efficiently manage a RHEL server by using Red Hat Enterprise Linux Lightspeed.
- 6. Navigating the File-system Hierarchy**
 - Describe the organization of files in the Linux file-system hierarchy and specify files by name, by using relative paths or absolute paths.
- 7. Managing Files from the Command Line**
 - Copy, move, create, delete, and organize files from the command line.
- 8. Editing Text Files**
 - Create, view, and edit text files from the command line.
- 9. Redirecting Shell Input and Output**
 - Redirect the output of commands and input to commands, by using Bash.
- 10. Managing Local Users and Groups**
 - Obtain superuser access to a system; create, manage, and delete local users and groups; and administer local password policies.
- 11. Controlling Access to Files**

- Set standard permissions on files and interpret the security effects of different permission settings.
- 12. **Installing and Updating Software with RPM**
 - Download, install, update, and manage software packages from Red Hat and DNF package repositories.
- 13. **Installing and Updating Applications by Using Flatpak**
 - Install, upgrade, and use desktop software from the Red Hat Ecosystem Catalog by using Flatpak.
- 14. **Accessing Removable Media**
 - Access file systems on removable media devices by mounting them on a directory in the file-system hierarchy.
- 15. **Monitoring and Managing Linux Processes**
 - Investigate, control, and terminate processes that run on a Red Hat Enterprise Linux system.
- 16. **Controlling Services and Daemons**
 - Control and monitor the system services and daemons that systemd starts.
- 17. **Introduction to Networking**
 - Describe basic TCP/IP networking concepts and investigate the current network configuration and functionality on a server.
- 18. **Managing Network Configuration**
 - Configure network interfaces and settings on Red Hat Enterprise Linux servers.
- 19. **Configuring and Securing SSH**
 - Protect SSH communication by managing host keys and by implementing key-based authentication for users.
- 20. **Comprehensive Review**
 - Practice skills learned in Red Hat System Administration I.

Virtual Classroom Live Labs

- Labs provided by Red Hat

Dec 15 - 19, 2025 | 10:30 AM - 6:30 PM EST

Jan 5 - 9, 2026 | 10:30 AM - 6:30 PM EST

Jan 19 - 23, 2026 | 10:30 AM - 6:30 PM EST

Feb 2 - 6, 2026 | 10:30 AM - 6:30 PM EST

Feb 16 - 20, 2026 | 10:30 AM - 6:30 PM EST

Mar 2 - 6, 2026 | 10:30 AM - 6:30 PM EST

Mar 16 - 20, 2026 | 10:30 AM - 6:30 PM EDT

Mar 30 - Apr 3, 2026 | 10:30 AM - 6:30 PM EDT

RED HAT SYSTEM ADMINISTRATION I (RH124)

Course Code: 1268

ON-DEMAND

\$3,740 USD

On-Demand Outline

1. **Introduction to Red Hat Enterprise Linux**
 - Define and explain the following concepts: open source, Linux, Linux distributions, and Red Hat Enterprise Linux.
2. **Accessing the Command Line**
 - Log in to a Linux system and run simple commands by using the shell.
3. **Getting Help from Local Documentation**
 - Resolve problems by using information in local help systems and documentation.
4. **Registering Systems for Red Hat Support**
 - Register a system by using your Red Hat account to get support services and software that Red Hat provides.
5. **Getting AI-assisted Help with RHEL Lightspeed**
 - Get AI-driven guidance and suggestions to efficiently manage a RHEL server by using Red Hat Enterprise Linux Lightspeed.
6. **Navigating the File-system Hierarchy**
 - Describe the organization of files in the Linux file-system hierarchy and specify files by name, by using relative paths or absolute paths.
7. **Managing Files from the Command Line**
 - Copy, move, create, delete, and organize files from the command line.
8. **Editing Text Files**
 - Create, view, and edit text files from the command line.
9. **Redirecting Shell Input and Output**
 - Redirect the output of commands and input to commands, by using Bash.
10. **Managing Local Users and Groups**
 - Obtain superuser access to a system; create, manage, and delete local users and groups; and administer local password policies.
11. **Controlling Access to Files**

- Set standard permissions on files and interpret the security effects of different permission settings.
- 12. **Installing and Updating Software with RPM**
 - Download, install, update, and manage software packages from Red Hat and DNF package repositories.
- 13. **Installing and Updating Applications by Using Flatpak**
 - Install, upgrade, and use desktop software from the Red Hat Ecosystem Catalog by using Flatpak.
- 14. **Accessing Removable Media**
 - Access file systems on removable media devices by mounting them on a directory in the file-system hierarchy.
- 15. **Monitoring and Managing Linux Processes**
 - Investigate, control, and terminate processes that run on a Red Hat Enterprise Linux system.
- 16. **Controlling Services and Daemons**
 - Control and monitor the system services and daemons that systemd starts.
- 17. **Introduction to Networking**
 - Describe basic TCP/IP networking concepts and investigate the current network configuration and functionality on a server.
- 18. **Managing Network Configuration**
 - Configure network interfaces and settings on Red Hat Enterprise Linux servers.
- 19. **Configuring and Securing SSH**
 - Protect SSH communication by managing host keys and by implementing key-based authentication for users.
- 20. **Comprehensive Review**
 - Practice skills learned in Red Hat System Administration I.

On-Demand Labs

- Labs provided by Red Hat



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PRIVATE GROUP TRAINING

5 Day

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