BLACKBIRD FOR TRAINING

Red Hat Enterprise Linux System Administration Essentials

24 – 28 May 2027
Berlin (Germany)



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Why This Course

Linux remains the backbone of enterprise IT infrastructure, powering servers, cloud environments, and mission-critical applications. For IT professionals, mastering Linux system administration is essential to ensure system reliability, security, and performance.

This intensive 1-week course provides practical, hands-on experience with Red Hat Enterprise Linux RHEL, focusing on essential administration skills. Participants will gain the knowledge and confidence to manage Linux systems effectively while laying a strong foundation for advanced certifications and career growth.

What You'll Learn and Practice

By participating in this program, you will:

- Master essential command-line tools and Linux system concepts.
- Manage users, groups, and system permissions securely.
- Configure and control system services using systemd.
- Implement basic networking and storage management.
- Monitor, troubleshoot, and optimize Linux systems.
- Deploy and manage software packages using DNF.

The Program Flow

Day 1: Getting Started with Red Hat Enterprise Linux

- Introduction to Linux and the Red Hat ecosystem
- Accessing the command line
- Managing files from the command line
- Getting help in Red Hat Enterprise Linux
- Creating, viewing, and editing text files

Day 2: Essential Tools and User Management

- Managing local users and groups
- Controlling access to files
- Monitoring and managing Linux processes
- Control services and daemons
- Configuring and securing SSH



Day 3: Operating Running Systems

- Configuring and securing a basic firewall
- Installing and updating software packages
- Accessing Linux file systems
- Analyzing and storing logs
- Managing networking

Day 4: Storage Management and Virtualization

- Managing storage
- Creating and using file systems
- Managing logical volumes
- Accessing network-attached storage
- Controlling the boot process

Day 5: Advanced Topics and Practical Application

- Managing network security
- Running containers
- Automating tasks with Bash scripts
- Comprehensive review and hands-on practice
- Preparing for the RHCSA exam

Individual Impact

- Gain confidence performing daily Linux administration tasks.
- Develop troubleshooting and problem-solving skills for real-world Linux environments.
- Strengthen knowledge of system security, networking, and storage management.
- Build a strong foundation for advanced Red Hat certifications.

Work Impact

- Efficiently manage and maintain Red Hat Enterprise Linux servers.
- Ensure system security, reliability, and optimal performance.
- Reduce downtime through proactive troubleshooting and monitoring.
- Support organizational IT operations with scalable, secure Linux infrastructures.

Training Methodology

This program combines theoretical instruction with hands-on exercises to ensure practical skill development:



- Command-line exercises and system configuration labs.
- Real-world scenarios for user management, networking, and security.
- Storage, virtualization, and container management practice.
- Guided review sessions and RHCSA exam preparation exercises.

Beyond the Course

Upon completion, participants will be equipped to:

- Perform essential Linux system administration confidently.
- Troubleshoot and resolve common system and network issues.
- Implement foundational security measures and best practices.
- Progress toward advanced Red Hat certifications and career advancement.

