

Course Code: 1267

Learn the essential techniques and tools for troubleshooting Red Hat Enterprise Linux.

Troubleshooting is both an art and a science. It is both an instinct and a technique. In this lab-intensive course, system administrators will learn techniques for troubleshooting a Linux system and how to use the troubleshooting tools available on Red Hat Enterprise Linux. Through hands-on labs, you will learn or improve your troubleshooting skills and gain additional experience by debugging live, virtualized systems.

### What You'll Learn

- Troubleshooting techniques, including being prepared
- Troubleshooting hardware, including listing, testing, and analyzing devices
- Troubleshooting applications, including diagnosing performance problems and investigating application and OS interactions
- Troubleshooting disks and file systems, including LVM, LUKS, ext3/4, and unauthorized changes
- Troubleshooting the network, including configuring, testing, and diagnosing problems with basic and advanced configurations
- Security, including working effectively with (and not against) security tools such as SELinux, authentication, and firewall
- Making the most of Red Hat support resources

#### Who Needs to Attend

Linux system administrators who understand installation and configuration of a Red Hat Enterprise Linux system and wish to deepen their understanding of troubleshooting on Linux

## Prerequisites

- Red Hat System Administration I and Red Hat System Administration II
- RHCSA Rapid Track Course
- RHCSA certification or equivalent experience

- System administration knowledge under Red Hat Enterprise Linux, including:

  - Service management (using service and chkconfig, for example)
  - Basic system monitoring (using ps and top and perhaps meminfo and the /proc file system)
  - ∏ File system management (using fdisk and mkfs)
  - Basic troubleshooting (including managing log files and perhaps using hardware probing tools, such as ethtool and Ispci)



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**CLASSROOM LIVE** 

\$4,280 USD

4 Day

#### Classroom Live Outline

- 1. Being Proactive, Part 1
  - Monitor log files, hardware, and file systems
  - Monitor system and network performance
- 2. Being Proactive, Part 2
  - Approaches to managing configuration changes and developing a recovery plan
- 3. Basic Troubleshooting Techniques and Procedures
  - · Recovery runlevels and rescue mode
  - Work with advanced GRUB features
- 4. Hardware Issues
  - Preempting hardware failures (looking for the signs)
  - · Protecting against hardware failures
  - Redundant configurations
  - Tools to help identify hardware failures and intermittent problems
- 5. File System Issues
  - Locate unauthorized changes
  - Audit software
  - File system tuning and repair
  - File recovery
- 6. Disk Issues
  - Rescuing LVM volumes
  - Maintenance of LUKS-encrypted volumes

### 7. Networking Issues

- Manual configuration of network cards
- Connectivity issues
- Network diagnostic tools
- Monitor packets
- Tune kernel parameters
- Troubleshoot SAN communication

#### 8. Application Issues

- Tools and techniques for troubleshooting applications
- Common application problems and how to solve them

### 9. Security Issues

- Working effectively with (and not against) security tools

#### 10. Red Hat Resources

- Support options
- Knowledgebase
- Certified training
- Initiating support calls
- Technical account manager support
- Developer support
- Bugzilla
- Support workflow
- Diagnostic and information-gathering tools



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VIRTUAL CLASSROOM LIVE

\$4,700 USD

5 Day

#### Virtual Classroom Live Outline

- 1. Being Proactive, Part 1
  - Monitor log files, hardware, and file systems
  - Monitor system and network performance
- 2. Being Proactive, Part 2
  - Approaches to managing configuration changes and developing a recovery plan
- 3. Basic Troubleshooting Techniques and Procedures
  - Recovery runlevels and rescue mode
  - Work with advanced GRUB features
- 4. Hardware Issues
  - Preempting hardware failures (looking for the signs)
  - Protecting against hardware failures
  - Redundant configurations
  - Tools to help identify hardware failures and intermittent problems
- 5. File System Issues
  - Locate unauthorized changes
  - · Audit software
  - File system tuning and repair
  - File recovery
- 6. Disk Issues
  - Rescuing LVM volumes
  - Maintenance of LUKS-encrypted volumes

### 7. Networking Issues

- Manual configuration of network cards
- Connectivity issues
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- Monitor packets
- Tune kernel parameters
- Troubleshoot SAN communication

#### 8. Application Issues

- Tools and techniques for troubleshooting applications
- Common application problems and how to solve them

### 9. Security Issues

- Working effectively with (and not against) security tools

  - ∏ Firewall

#### 10. Red Hat Resources

- Support options
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- Developer support
- Bugzilla
- Support workflow
- Diagnostic and information-gathering tools

Oct 27 - 31, 2025 | 11:00 AM - 5:00 PM EDT

Feb 16 - 20, 2026 | 11:00 AM - 5:00 PM EST



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ON-DEMAND

\$3,995 USD



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PRIVATE GROUP TRAINING

4 Day

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Date created: 10/23/2025 5:30:48 AM

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