# Red Hat Enterprise Linux Diagnostics and Troubleshooting (RH342) Training

Duration: **5 Day**

BİLGİNÇ IT Academy
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**Diagnose, troubleshoot, and resolve issues in Red Hat Enterprise Linux systems.**

The **{*training}** course equips senior system administrators with advanced skills to **identify, analyze, and resolve system problems efficiently**.
Through extensive hands-on labs, participants learn structured troubleshooting techniques for a variety of common issues across system subsystems, including **boot failures, hardware problems, storage management, RPM package errors, network issues, security incidents, and kernel-level faults**.

The course emphasizes applying the **scientific method** to troubleshooting—formulating hypotheses, testing systematically, and isolating root causes—to ensure consistent, repeatable success in diagnosing issues.

*This course is based on Red Hat Enterprise Linux 8.4.*

## Prerequisites

Red Hat recommends that participants:

- Have **Red Hat Certified System Administrator (RHCSA)** certification or equivalent experience.
- Ideally hold **Red Hat Certified Engineer (RHCE)** certification or comparable knowledge.

## Who Should Attend

This course is designed for:

- **Experienced Linux System Administrators** responsible for maintaining mission-critical systems.
- Professionals who want to enhance their **troubleshooting and problem-solving skills** in enterprise Linux environments.

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## What You Will Learn

By the end of this {*training}, you will have gained knowledge and skills in the following areas:

- Apply the **scientific method** for structured problem-solving.
- Diagnose and resolve **boot-related failures**.
- Troubleshoot and secure **network and storage configurations**.
- Identify and repair **hardware and kernel issues**.
- Troubleshoot **security-related problems** and permission conflicts.
- Diagnose **RPM and application-level** issues.
- Collaborate effectively with Red Hat Support when addressing complex kernel or system issues.

### Impact on the Organization

By developing skilled troubleshooters, organizations gain:

- **Reduced downtime** through faster issue identification and resolution.
- **Increased system reliability and performance**.
- Better **root-cause analysis** and fewer recurring issues.
- Enhanced collaboration between operations and support teams.

This course helps teams prevent costly outages and maintain**business continuity** through proactive Linux administration.

### Impact on the Individual

After completing this course, you will be able to:

- Systematically **diagnose and resolve common Linux issues**.
- Apply the **scientific troubleshooting method** to any subsystem.
- Recover failed systems efficiently using Red Hat tools and best practices.
- Prevent future incidents with **proactive monitoring and analysis**.

You'll gain the confidence to manage complex enterprise Linux environments and minimize downtime through **effective diagnostics and remediation**.

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## Training Outline

**1. Introduction to Troubleshooting**
Learn a systematic approach for diagnosing issues using the scientific method.

**2. Proactive System Administration**
Discover how preventive maintenance reduces downtime and avoids critical failures.

**3. Troubleshooting Boot Issues**
Identify and resolve issues preventing Red Hat Enterprise Linux from booting properly.

**4. Diagnosing Hardware Problems**
Detect hardware malfunctions that may impact system stability and performance.

**5. Troubleshooting Storage Problems**
Resolve storage access, filesystem corruption, and LVM configuration issues.

**6. Resolving RPM and Package Management Issues**
Fix dependency and installation problems in the package management subsystem.

**7. Troubleshooting Network Connectivity**
Identify and fix network configuration and connectivity failures.

**8. Debugging Application Issues**
Diagnose and resolve performance or dependency issues affecting applications.

**9. Dealing with Security-Related Problems**
Address access control, SELinux, and authentication configuration issues.

**10. Troubleshooting Kernel Issues**
Identify kernel-related failures, gather diagnostics, and assist Red Hat Support in resolution.

**11. Comprehensive Troubleshooting Review**
Perform complex, real-world troubleshooting exercises to demonstrate full mastery.