



RED HAT TRAINING

Red Hat Apache And Secure Web Server Administration Training Course

Administer and secure Red Hat Apache web servers. Master configuration, optimization, and advanced security for robust web environments.

DURATION

48 hours

LEVEL

Intermediate

FORMAT

Instructor-Led

- Globally Recognized Certification

- Expert-Led Hands-On Training

- Flexible Scheduling

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COURSE OVERVIEW

This Red Hat Apache and Secure Web Server Administration Training Course provides a comprehensive and hands-on deep dive into deploying, configuring, and securing Apache HTTP Servers on Red Hat Enterprise Linux. Participants will master the essential skills required to manage enterprise-grade web services, from initial setup and virtual host configuration to advanced performance tuning and robust security implementations. The course emphasizes practical application, ensuring you can confidently build and maintain highly available and secure web environments.

Throughout this 48-hour intermediate-level training, you'll gain expertise in critical areas such as SSL/TLS certificate management, access control mechanisms, user authentication, and leveraging Red Hat's native security features like SELinux. Furthermore, you will learn to implement ModSecurity as a Web Application Firewall (WAF) to protect against common web vulnerabilities. By the end of the course, you will be equipped to design, implement, and troubleshoot secure Apache web server solutions, significantly enhancing your organization's digital infrastructure and safeguarding its web assets.

Duration	48 hours
Level	Intermediate
Vendor	Red Hat

COURSE CURRICULUM

01 Module 1: Getting Started with Apache HTTP Server

- Installation and basic configuration of Apache on RHEL
- Understanding Apache architecture and core directives
- Configuring virtual hosts (name-based and IP-based)
- Managing Apache services and basic troubleshooting
- Setting up directory indexes and URL rewriting

02 Module 2: Advanced Apache Features and Performance

- Working with Apache modules (enabling, disabling, customizing)
- Implementing proxying and reverse proxying for application servers
- Load balancing with mod_proxy_balancer
- Performance tuning with Multi-Processing Modules (MPM_prefork, MPM_worker, MPM_event)
- Configuring caching with mod_cache and mod_disk_cache

03 Module 3: Core Web Server Security

- Configuring access control (IP-based, host-based, user-based)
- Implementing user authentication (Basic and Digest authentication)
- Introduction to SSL/TLS for secure communication
- Generating, managing, and renewing SSL certificates (self-signed and CA-signed)
- Configuring HTTPS on Apache and troubleshooting common SSL issues

04 Module 4: Enhanced Security with SELinux and ModSecurity

- Understanding SELinux contexts for web services and directories
- Troubleshooting SELinux issues related to Apache
- Introduction to ModSecurity as a Web Application Firewall (WAF)
- Implementing and customizing basic ModSecurity rulesets
- Protecting against common web attacks (SQL Injection, XSS, Path Traversal) using ModSecurity

05 Module 5: Monitoring, Logging, and Maintenance

- Analyzing Apache access and error logs for security and performance
- Using Apache status modules (mod_status, mod_info) for real-time monitoring
- Troubleshooting common Apache errors and configuration issues
- Implementing regular maintenance tasks and best practices for web servers
- Backup and restore strategies for Apache configurations and web content

CAREER PATHWAYS

Graduates of this program are prepared for the following roles:

- > **Senior Web Server Administrator**
- > **Linux Systems Engineer (Web Operations Focus)**
- > **DevOps Security Engineer**

FREQUENTLY ASKED QUESTIONS

Q: What prior experience or knowledge is recommended before enrolling in this Red Hat Apache and Secure Web Server Administration course?

To get the most out of this course, participants should have a solid foundation in Linux command-line operations, including file system navigation, text editing, and basic service management. Familiarity with fundamental networking concepts such as IP addresses, ports, and DNS is also highly beneficial. While not strictly required, a basic understanding of web server concepts will further enhance the learning experience.

Q: How will mastering Apache and web security skills from this course advance my career as a system administrator or DevOps engineer?

This course significantly enhances your career by transforming you into a specialist in secure web infrastructure. As organizations increasingly rely on web-based services, the ability to deploy, optimize, and fortify web servers against cyber threats is invaluable. You'll gain the expertise to ensure high availability, compliance, and robust security for critical web applications, making you a highly sought-after professional capable of managing complex web environments and contributing to resilient IT operations.

Q: What specific security mechanisms and tools will I learn to implement to effectively protect web servers in production environments?

You will acquire practical skills in implementing a range of crucial security mechanisms. This includes configuring robust SSL/TLS encryption for all web traffic, setting up sophisticated IP-based and user authentication controls, and leveraging Red Hat's built-in SELinux to enforce strict access policies. Critically, you will also learn to deploy and manage ModSecurity, a powerful Web Application Firewall, to actively detect and prevent common web application attacks such as SQL Injection, Cross-Site Scripting (XSS), and session hijacking, ensuring comprehensive protection for your web assets.

ABOUT COMPUTER PRIDE



East Africa's Premier IT Training Center

With over 15 years of excellence, Computer Pride delivers globally recognized certification programs from leading technology vendors. Located on Kenyatta Avenue in Nairobi's CBD, our state-of-the-art facilities and expert instructors have empowered thousands of professionals across East Africa.

15+

Years of Excellence

10,000+

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READY TO ENROL?

Take the next step in your technology career.

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