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Apache HTTP Server Training

2 days (14 hours)

Overview

Apache HTTP Server is a web server renowned for its robustness, modularity, and flexibility. It allows you to host multiple websites and applications, secure data exchanges with HTTPS, and act as a reverse proxy to backend services.

Our Apache HTTP Server training course will teach you how to install, configure, secure, and operate an Apache server in a production environment.

You'll learn how to configure virtual hosts, manage TLS and HTTPS certificates, optimize performance, and implement Apache as a reverse proxy for your applications.

The course also covers server hardening, log analysis, incident diagnosis, and the maintenance operations required to operate Apache reliably.

Upon completion of this course, you will be able to deploy and administer a high-performance, secure Apache HTTP Server, protect HTTPS communications, and ensure its operation in a production environment.

Like all our training courses, this one will introduce you to **the latest stable version** of Apache HTTP Server ([2.4.66](#)) and its new features.

Objectives

- Install and administer the Apache HTTP Server
- Configure virtual hosts and host multiple websites
- Secure communications with HTTPS and TLS
- Optimize server performance and resources
- Configure Apache as a reverse proxy

- Monitor, troubleshoot, and maintain Apache in production

Target Audience

- Linux system administrators
- Systems and infrastructure engineers
- DevOps and SRE engineers
- Web application developers and operators

Prerequisites

- Basic knowledge of Linux administration
- Basic understanding of networking, DNS, and HTTP/HTTPS protocols
- Command-line experience recommended

Apache HTTP Server Training Course Outline

[Day 1 - Morning]

Installing and Administering the Apache HTTP Server

- Understanding the architecture and key features of the Apache HTTP Server
- Comparing Apache to Nginx and Other Web Servers
- Installing and managing Apache on Linux
- Understand the organization of configuration files and directories
- Administer the service, modules, and key directives
- Analyze access and error logs to diagnose common problems
- Hands-on workshop: Install Apache, configure the service, and publish your first website.

[Day 1 - Afternoon]

Configuring Virtual Hosts and Securing HTTPS Access

- Configure virtual hosts to host multiple websites on a single server
- Manage domain names, ports, DocumentRoot, permissions, and access rules
- Understand how TLS certificates and trust chains work
- Configure TLS and install a certificate on the Apache HTTP Server
- Automate certificate issuance and renewal with Let's Encrypt and Certbot
- Configure HTTPS redirects, TLS protocols, cipher suites, and HSTS
- Hands-on workshop: Create multiple virtual hosts, then secure a site with HTTPS using a TLS certificate.

[Day 2 - Morning]

Optimizing Apache and Configuring a Reverse Proxy

- Understand the key settings that affect Apache performance
- Configure persistent connections and adjust operating parameters
- Enable compression with gzip or Brotli and implement caching mechanisms
- Limit the number of loaded modules and optimize resource usage
- Configuring mod_proxy and mod_proxy_http to serve backend applications
- Implement a reverse proxy and understand the principles of load balancing
- Hands-on workshop: Deploy an application behind an Apache reverse proxy, then optimize the service's performance.

[Day 2 - Afternoon]

Secure, monitor, and maintain Apache in production

- Hardening the Apache configuration and limiting the exposure of sensitive information
- Configure access restrictions and apply security best practices
- Use logs, metrics, and monitoring tools to monitor the service
- Diagnose HTTP errors, TLS issues, virtual host problems, and reverse proxy incidents
- Prepare backups, updates, and maintenance procedures
- Automate Apache deployment and configuration with Ansible
- Hands-on workshop: Diagnose multiple incidents on an Apache server, apply fixes, and then create a production deployment checklist.

Target Audience

This training is intended for both individuals and companies—large or small—that wish to train their teams in new, advanced IT technologies or to acquire specific industry knowledge or modern methodologies.

Prerequisites

The assessment conducted upon enrollment complies with Qualiopi quality standards. Upon final registration, the learner receives a self-assessment questionnaire that allows us to evaluate their estimated proficiency with various types of technology, as well as their expectations and personal goals for the upcoming training, within the limits imposed by the selected format. This questionnaire also allows us to anticipate certain connection or internal security issues within the company (intra-company or virtual classroom) that could pose challenges for monitoring and ensuring the smooth operation of the training session.

Teaching Methods

Hands-On Training: 60% Hands-On, 40% Theory. Training materials distributed in digital format to all participants.

Organization

The course alternates between theoretical input from the instructor, supported by examples and

reflection sessions and group work.

Assessment

At the end of the session, a multiple-choice quiz is administered to verify that participants have successfully acquired the skills.

Certification

A certificate will be issued to each trainee who has completed the entire training program.