

Course Outline



Tel: +44 (0) 118 979 4000 Fax: +44 (0) 118 979 4000

Email: training@ptr.co.uk Web: www.ptr.co.uk

Linux Apache Web Server Administration

Course Description:

This is a three-day course that provides an overview of Apache Web Server. It is designed to be instructor-led while facilitated at a pace that is comfortable for the group, using a classroom-delivery learning model with structured and unstructured hands-on activities. This course addresses the evolution of Apache Web Server technology and market dominance, as well as how to build, install, and configure Apache. Web-related issues such as authentication, dynamic Web content, and virtual hosting/administration are included, as are Apache system performance issues (e.g., logging systems, firewalls, and proxies).

Pre-requisites:

To ensure your success, we recommend you first take the following PTR courses or have equivalent knowledge:

- Linux System Administration
- Network+ Certification

Course Content:

- **Introduction to Apache Web Server**
- Apache Web Server Evolution
- Copying the Apache Web Server Source File
- Apache Architecture and Features
- Apache's Role in the Internet

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- **Installation and Configuration**
 - Build and Install Apache Web Server
 - Uncompressing Apache Files
 - Installing Apache Using APACI
 - Installing Apache Using the Original Method
 - Verify Initial Configuration
 - Verifying and Editing the Configuration
 - Start, Stop, and Status the Apache Server Process
 - Starting and Stopping Apache Using the apachectl Script
 - Starting and Stopping Apache Using the httpd Executable
 - Configure Apache Core Modules

- **Security**
 - Basic Security with Apache
 - Host-based Authentication
 - User-based Authentication
 - Create User-based Authentication
 - Secure Sockets Layer (SSL)
 - Using mod_ssl

- **Delivering Dynamic Web Content**
 - Apache's Role in the Dynamic Web
 - Develop a Dynamic Web Model
 - Server Side Includes (SSIs)
 - Define Time Last Modified with SSI
 - Configure Apache Web Server to Support CGI
 - Verifying Apache's support for CGI
 - Write CGI Programs
 - CGI Script
 - CGI Alternative Technologies

- **Virtual Hosts, Redirection, and Indexing**
 - Virtual Hosting with Apache
 - Virtual Host Configuration

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Registered Office: Grenville Court Britwell Road Burnham Bucks SL1 8DF Company Registered No: 2442290 – VAT registration No:532 1929 56

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- **Virtual Hosts, Redirection, and Indexing**
 - Create a Name-based Virtual Host
 - Redirection
 - Use Directory Aliasing
 - Directory Indexing
 - Implement FancyIndexing

- **Proxy Servers and Firewalls**
 - Apache Proxy
 - Configuring Proxy Services
 - Configure the Browser
 - Firewalls and Apache
 - Firewall Architecture Models

- **Monitoring Apache Web Server**
 - Error Logs
 - Check Error Log File Permissions
 - View the Error Log
 - Redirect Output to Alternative Location
 - Logging HTTP Access
 - Create a Transfer Log
 - Create a Custom Log
 - Web Server Status and Server Information
 - Enabling Server Status and Extended Server Status
 - Enabling Server Information
 - User Tracking

- **Improving Performance**
 - Improve System Performance
 - Wilderness Exchange
 - Apache Performance Strategies
 - Process Improvements and Directives
 - Limiting Client Requests
 - Proxy Caching

- **Starting and Stopping**
 - Apache Start/Stop Commands

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- **Starting and Stopping**
- Options Permitted with Binary

Course Duration:

3 Days