



Apache Web Server

Duration: 3 Days **Course Code: APH** **Delivery Method: Virtual Learning**

Overview:

This Apache Web Server course introduces the delegate to the main concepts of the APACHE Web server. The course covers the basic operation of the web server, configuration, URL mapping, directory indexing, virtual hosting, performance tuning, and security. Although this course is based on the Linux distribution, the delegate should be able to apply the concepts covered on this course to any APACHE Web Server, despite the OS differences, as the configuration is the same on all platforms.

Virtual Learning

This interactive training can be taken from any location, your office or home and is delivered by a trainer. This training does not have any delegates in the class with the instructor, since all delegates are virtually connected. Virtual delegates do not travel to this course, Global Knowledge will send you all the information needed before the start of the course and you can test the logins.

Target Audience:

Programmers, administrators and support personnel who need to understand the APACHE Web Server, APACHE server configuration, and the integration with CGI scripts.

Objectives:

- To provide the skills needed to; configure and manage the APACHE Web Server environment.
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Prerequisites:

Good operating system knowledge similar to that covered on our Linux Introduction course or an equivalent Windows course is required.

Some programming experience such as Perl Programming, PHP Programming or Ruby Programming and familiarity with general web concepts may also prove advantageous. Previous knowledge /attendance on a UNIX/AIX/SOLARIS/HP-UX or Linux System Administration (LPI & CompTIA) course would also be beneficial, although not required.

Follow-on-Courses:

- Python Programming 1 (PYP1)
 - Perl Programming (PERL)
 - Ruby Programming (RUBYP)
 - Ruby on Rails (RUBYR)
 - PHP Programming (PHP)
 - PHP & MySQL for Web Development (PHPMWD)
 - Introduction to MySQL (MYSI)
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Content:

Apache Web Server Training Course Course Contents - DAY 1

Course Introduction

- Administration and Course Materials
- Course Structure and Agenda
- Delegate and Trainer Introductions

Session 1: INTRODUCTION TO THE APACHE WEB SERVER

- What is Apache
- Configuration Directories
- Web site Directories
- httpd

Session 2: BASIC CONFIGURATION

- Httpd conf file
- Security
- Performance
- Modules
- Listen
- Mime
- Web Pages
- Error Handling

Session 3: ACCESS CONTROL

- Access Control
- Block Directives
- Directory Block
- Directory Match
- Location block
- IfModule Block
- CONTROLLING ACCESS
- Authenticated Access
- Authentication Directives
- Using an LDAP Authentication Source
- Behavioural Directives
- Options Directive
- Option Keywords
- AllowOverride Directive
- DirectorySlash Directive

Session 4: LOGGING

- Custom Logging
- Logformat directive
- CustomLog directive
- String Format Syntax
- ErrorLog Formatting

Session 5: VIRTUAL HOSTING

- Multiple Sites (virtual hosting)
- Name based
- IP BASED
- Port based
- Dynamic Virtual Hosting Apache Web Server Training Course Course Contents - DAY 2

Session 6: APACHE PROXY

- Proxy Server
- Forward Proxying
- ProxyPass
- ProxyPassReverse

Session 7: LOAD BALANCING

- Load Balancing
- mod_proxy_balancer
- Load balancer scheduler algorithm
- Load balancing 'stickiness'
- Balancing Methods
- Request Counting
- Weighted Traffic Counting Algorithm
- Pending Request Counting Algorithm
- Balancer Manager

Session 8: INDEXING

- Indexing
- Indexoptions
- FancyIndexing
- FoldersFirst
- HTMLTable
- IndexIgnore
- AddDescription
- AddIcon
- AddIconByType

Session 9: REWRITING

- Rewrite logging
- Using rewrite within Virtual hosts
- Regular Expressions
- Regex Back-Reference Availability
- Rewriterule Basics
- Rewriterule Flags
- Rewrite Conditions
- Accessing a Renamed File
- Different pages based on the time of day Apache Web Server Training Course Course Contents - DAY 3

Session 10: APACHE SSL

- Secure Socket Layer (SSL) for Apache

Session 11: APACHE AND PHP

- Apache with PHP
- Loading php module
- Enabling PHP in Apache

Session 12: APACHE AND TOMCAT

- Tomcat

Session 13: APACHE WORKSHOPS

- Workshop 1
- Workshop 1 solution
- Workshop 2
- Workshop 2 solution
- Workshop 3
- Workshop 3 solution
- Workshop 4
- Workshop 4 solution
- Workshop 5
- Workshop 5 solution
- Workshop 6
- Workshop 6 solution
- Workshop 7
- Workshop 7 solution
- Workshop 8
- Workshop 8 solution

Addendum: Reference Materials (Sections below are provided within the course handbook for additional reading)

Session 13: APPENDIX A - BUILDING AND INSTALLING APACHE

- Apache Binaries
- Directories and Permissions
- Modules

Further Information:

For More information, or to book your course, please call us on Head Office 01189 123456 / Northern Office 0113 242 5931

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