

Apache Web Server Administration

Course No.	9510
Description	Apache httpd Web Server Administration covers the details of installing and configuring the most popular Web server on the planet: Apache's httpd server. Students will learn the details of the httpd.conf configuration file, using .htaccess files, virtual hosts, MIME and file types, URL mapping, directory indexing, performance tuning, handlers, filters, server-side includes, managing scripts, security and Apache modules.
Audience	This course is for Web Server administrators who need to be able to install, configure and run Apache httpd Web Server.
Major Topics	<ul style="list-style-type: none">• Introduction to Apache• Starting and Stopping Apache• The Apache Configuration Files• The .htaccess File• Virtual Hosts• MIME and File Types• URL Mapping• Directory Indexing• Performance Tuning• Handlers and Filters• SSI• Managing Scripts• Security• Modules
Duration	2 days



Course Contents

1. Introduction to Apache

- The Apache Software Foundation
- Apache HTTP Server is an opensource project managed by the Apache Software Foundation (ASF).
- The ASF supports many “projects”, including:
 - HTTP Web server (Apache)
 - Jakarta
 - Perl, PHP, XML, TCL, Ant, Logging
 - And many others...
- Downloading Apache
- Download the Apache Binary for Windows
- Make sure Port 80 is available
- Run the Install Program
- Change the install folder to be c:\Apache
- Click “Install” to complete the installation
- Test the Installation

2. Starting and Stopping Apache

- Start/Stop the Server on Windows
- The Apache Monitor
- Install Apache as a Service
- The apachectl Script

3. The Apache Configuration Files

- The contents of the /conf directory
- The httpd.conf file
- Directives
- Sections
- The Include Directive
- The Options Directive
- The Installed Directories

4. The .htaccess File

- Overview of .htaccess files
- Configuring .htaccess
- The AllowOverride directive
- Setting directory authentication
- Allowing CGI scripts
- Performance Issues

5. Virtual Hosts

- Overview of Virtual Hosting
- IP-Based Virtual Hosts
- Name-based Virtual Hosts
- Port-based Virtual Hosts

- Bulk Virtual Hosting

6. MIME and File Types

- Overview of MIME Types
- Configuring MIME Types
- Encoding Files
- Character Sets
- Languages

7. URL Mapping

- Configuring Aliases
- Configuring Redirects
- The DocumentRoot Directive
- Error Documents

8. Directory Indexing

- The DirectoryIndex Directive
- Fancy Indexing
- Headers and Footers
- Ignoring Files
- Searching and Sorting

9. Performance Tuning

- The ApacheBench Utility Program
- Tweaking the Apache Configuration

10. Handlers and Filters

- Overview of Handlers
- The <Location> Section
- Configuring Handlers
- The server-status Handler
- Overview of Filters
- Configuring Filters

11. SSI

- Overview of SSI
- Configuring SSI
- Using SSI Directives

12. Managing Scripts

- Overview of scripting options
- The mod_perl Module
- Configuring mod_perl
- Installing PHP on Windows
- Configuring PHP

13. Security

- Common Security Issues with Apache



- Dynamic Content Issues
- Authentication
- Authorization
- Access Control
- Unix File Permissions

14. Modules

- Overview of Apache Modules
- Installing Modules

