

Apache Web Server Administration (3 Days)

Overview:

This course is designed to implement an Apache-2 web server. The course covers the installation and configuration of Apache-2 as a secure corporate web server capable of virtual hosting and linking to Java, Perl, PHP and CGI modules. The linking of Apache to a farm of Tomcat servers is presented. The student will understand how modules are used dynamically, to provide a customized server, reflecting their corporation's needs.

Course Benefits:

Upon completion of this course the administrator will be able to install, monitor, and maintain a secure corporate web server capable of hosting dynamic web pages for multiple virtual hosts.

Audience:

This course is designed for administrators who want to implement the Apache-2 Web Server with mainstream corporate functions such as a secure web server, Extranet and Intranet capabilities, virtual hosting, and modules that interface with Perl, Java, PHP, CGI for dynamic web pages, and need to access a farm of Tomcat servers which are generating dynamic pages.

Prerequisites:

- Linux Systems Administration, or equivalent
- Knowledge of the vi editor

Topics Covered:

What Apache-2 provides

- Platforms
- Capabilities

Installation

- Methods of installation
- Download sites
- Files/programs - locations and functionality
- The Web Tree

Configuration

- Syntax and layout of the configuration file
- Scope and Block Directives
- A quick startup
- Settings that define locations
- Settings you should adjust

Virtual hosting

- Binding IPs
- Hosts by name
- Hosts by IP

Content Negotiation

SSI

Security

- Firewalls
- Authentication
- Secure Data Transmittal with HTTPS
- Certificates

Performance Measurement and Tuning

Interfacing with Tomcat and Java

Modules

- Base
- Mod_perl
- Mod_php
- Mod_cgi
- Mod_proxy
- Mod_jk
- Mod_proxy_ajp

Monitoring your system

- Error logs
- Access logs
- Crontab
- Webalizer

Troubleshooting

- Telnet
- Web Browser
- Error messages
- Permissions/Ownership
- Log files