

# Course : Apache, Web server administration

Practical course - 4d - 28h00 - Ref. LIA

Price : 2200 € E.T.

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Vous maîtriserez la mise en place d'un serveur HTTP avec Apache et l'installation d'un serveur DNS avec Bind. Vous intégrerez un serveur Apache avec un serveur d'application Tomcat et vous mettrez en place un serveur de messagerie. Vous apprendrez également comment installer des services d'accès distants (FTP).

## Teaching objectives

At the end of the training, the participant will be able to:

- ✓ Installing and configuring an Apache server
- ✓ Setting up a DNS server with Bind
- ✓ Integrating an Apache server with a Tomcat application server
- ✓ Setting up a mail server
- ✓ Implement remote access services

## Intended audience

Web server administrators, operators, integrators or technical architects.

## Prerequisites

Basic knowledge of Linux/Unix administration and networks (mainly TCP/IP).

## Course schedule

### 1 Introduction

- Overview of services and protocols.
- TCP/IP configuration of a Unix or Linux server.

### PARTICIPANTS

Web server administrators, operators, integrators or technical architects.

### PREREQUISITES

Basic knowledge of Linux/Unix administration and networks (mainly TCP/IP).

### TRAINER QUALIFICATIONS

The experts leading the training are specialists in the covered subjects. They have been approved by our instructional teams for both their professional knowledge and their teaching ability, for each course they teach. They have at least five to ten years of experience in their field and hold (or have held) decision-making positions in companies.

### ASSESSMENT TERMS

The trainer evaluates each participant's academic progress throughout the training using multiple choice, scenarios, hands-on work and more. Participants also complete a placement test before and after the course to measure the skills they've developed.

## 2 Setting up DNS servers with Bind

- DNS concepts and terminology.
- Compiling and installing the Bind software.
- DNS client configuration.
- Details of RR records (SOA, NS, A).
- Slave server configuration.

### Hands-on work

Bind software installation. Implement DNS server "cache only", primary and secondary DNS servers. Configure rndc command. Add a machine to the domain.

## 3 Setting up HTTP servers with Apache

- Apache modules. Installation from source.
- The essential directives in the "httpd.conf" file.
- User authentication.
- Trace file management, statistics tools.
- Virtual host implementation.
- SSL protocol, certificates, secure dialog in "https".

### Hands-on work

Install Apache software from source archive. Secure directory access. Implement a personal site with authentication, virtual hosts and an SSL host "https".

## 4 Dynamic Web

- CGI programs (implementation, troubleshooting, security).
- PHP language (integrated into Apache).

## 5 Java application servers: Tomcat

- Tomcat presentation and architecture.
- Setting up Apache-Tomcat collaboration.
- Servlet and JSP access tests.

### Hands-on work

Program execution via CGI. PHP integration. Installation of Java and mod\_jk connector. Connection validation with Tomcat.

## 6 Messaging

- Introduction and terminology: MUA, MTA, MDA.
- Protocols (SMTP, MIME, POP, IMAP).
- DNS configuration required.
- Overview of available MTAs (Sendmail, Postfix).
- Setting up a simple intranet messaging system.

### Hands-on work

Setting up an intranet SMTP server.

## 7 FTP services

- Setting up an anonymous FTP server.
- Virtual hosts.

## TEACHING AIDS AND TECHNICAL RESOURCES

- The main teaching aids and instructional methods used in the training are audiovisual aids, documentation and course material, hands-on application exercises and corrected exercises for practical training courses, case studies and coverage of real cases for training seminars.
- At the end of each course or seminar, ORSYS provides participants with a course evaluation questionnaire that is analysed by our instructional teams.
- A check-in sheet for each half-day of attendance is provided at the end of the training, along with a course completion certificate if the trainee attended the entire session.

## TERMS AND DEADLINES

Registration must be completed 24 hours before the start of the training.

## ACCESSIBILITY FOR PEOPLE WITH DISABILITIES

Do you need special accessibility accommodations? Contact Mrs. Fosse, Disability Manager, at [psh-accueil@orsys.fr](mailto:psh-accueil@orsys.fr) to review your request and its feasibility.

## 8 Safety issues

- Data protection.
- Restrict access at network level.
- Tools on the market.

## Dates and locations

### REMOTE CLASS

2026: 10 Mar., 19 May, 6 Oct., 17 Nov.

### PARIS LA DÉFENSE

2026: 10 Mar., 19 May, 6 Oct., 17 Nov.