

# Course : Postfix, administering a mail server

*Practical course - 2d - 14h00 - Ref. POF*

*Price : 1400 CHF E.T.*

After an overview of how a corporate messaging system works, you'll learn how to administer a Postfix server, configure its various components, secure its operation and integrate it with the application software in your environment.

## Teaching objectives

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

- ✓ Installing a Postfix server
- ✓ Configuring the various components: pop3, imap, smtp
- ✓ Implement anti-spam measures
- ✓ Operating: checking logs and statistics

## Intended audience

Systems engineers or decision-makers with technical skills, who need to choose and implement an Open Source solution for mail distribution, archiving and security.

## Prerequisites

Good knowledge of Linux administration and corporate networks.

## Practical details

### Hands-on work

Implementation of a professional mail server (installation, operation, security, antivirus, antispam, Webmail, logs, MySQL, LDAP...).

## Course schedule

### 1 Mail transfer agents

- Sendmail, the historic but complex solution.
- Postfix or Qmail alternatives.
- Xmail, a full-featured mail server.

### PARTICIPANTS

Systems engineers or decision-makers with technical skills, who need to choose and implement an Open Source solution for mail distribution, archiving and security.

### PREREQUISITES

Good knowledge of Linux administration and corporate networks.

### 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 Sending, routing, receiving mail and actors

- Email address format.
- Basic configuration of a client workstation.
- Transport and relay of messages with an MTA.
- Mail distribution agents.
- Mail servers.
- Mail management agents.

## 3 Installation and configuration

- An overview of the latest versions.
- DNS configuration for e-mail.
- The main parameters of master.cf and main.cf.
- Minimum configuration.
- Relaying (client, server).
- Postfix search tables
- Example of using LDAP and MySQL with Postfix.

### Hands-on work

Install and configure Postfix.

## 4 Mastering protocols

- SMTP is also a message format.
- Tags (EHLO, MAIL FROM, RCPT TO, DATA...).
- Error codes (unknown recipient, refusal...).
- SMTP and security: open/closed relay. Password or IP address tolerance. Encryption.
- The MUA/MTA/MTA/.../MTA/MDA cycle then... MUA.
- MX relays and incoming/outgoing front-ends.
- POP, IMAP: POP3 tags (USER, PASS, STAT, TOP), POP3 limits and IMAP contributions, password encryption (MD5).

### Hands-on work

Implement protocols.

## 5 Postfix operation

- Postfix queues.
- Postfix logs (syslog settings).
- Statistics (pflogsumm.pl).
- Run Postfix in "chroot" environment.
- Incident reporting (notify\_classes, spam).

### Hands-on work

Operation: check logs and statistics.

## 6 Securing the environment

- The different forms of spam.
- The risks of a poorly configured system.
- Authentication: limits of SMTP, contributions of SASL.
- Choice of authentication method.
- Encryption: to guarantee confidentiality.
- TLS (Transport Layer Security) certificates.

### 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 to review your request and its feasibility.

