

# Unix/Linux Exploit and Deployment

Hands-on course of 4 days - 28h

Ref.: UXE - Price 2024: CHF2 550 (excl. taxes)

## THE PROGRAMME

last updated: 01/2018

### 1) Concepts

- Tasks and rôles.
- Method.
- Audit.
- System Administration Tools.
- Real and virtual machines.

*Hands-on work* : Overview of admin tools.

### 2) Installing the system and packages

- Installing a system.
- Managing rpm packages.
- Updating machines.
- Troubleshooting.

*Hands-on work* : Installing the system and a rpm package.

### 3) Volume Management

- Disks.
- File systems.
- Partitioning, RAID.
- Monitoring and availability.

*Hands-on work* : Formating, disk partitioning, using logical volumes and creating a file system.

### 4) Backup and Restore Data

- Concepts.
- Planning backups.
- Full, differential and incremental backups.
- Restore

*Hands-on work* : Configuring backups, planning the restore.

### 5) Network Configuration

- Network concepts.
- Protocols : SMTP, POP3, HTTP, DNS, DHCP, ...
- Managing servers.
- Maintenance : ping, traceroute.

*Hands-on work* : Configuring the network, setting up samba, DHCP, DNS.

### 6) Monitoring your system with Nagios

- Monitoring your system.
- Setting up Nagios.
- Customizing Nagios.

*Hands-on work* : Installing Nagios, managing an incident.

#### 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.

#### 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.

## 7) Writing scripts in bash and zsh

- Review of shell basics.
- Command line.
- Creating a shell script.
- Specific shell features.
- Text file processing
- Using sed and awk.
- Making reports.

*Hands-on work : Managing scripts, reports, troubleshooting. Log rotation.*

## DATES

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### REMOTE CLASS

2025 : 11 Mar, 17 Jun, 30 Sep, 16  
Dec