

Course : Linux server maintenance and troubleshooting

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

Price : 2260 € E.T.

★★★★★ 5 / 5

This training course provides you with the approach and technical knowledge you need to identify the causes of problems encountered on your Linux servers and resolve them effectively.

Teaching objectives

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

- ✓ Managing system updates
- ✓ Solve major boot, network and disk space problems
- ✓ Manage system bottlenecks
- ✓ Exploit logs and raise alerts
- ✓ Understanding high availability mechanisms

Intended audience

System administrators, system engineers.

Prerequisites

Good knowledge of Linux/Unix administration.

Practical details

Hands-on work

Discussions, experience sharing, demonstrations, tutorials and case studies.

Teaching methods

Active pedagogy based on a range of real-life situations, examples, experience sharing, case studies and assessment of acquired skills throughout the course.

Course schedule

PARTICIPANTS

System administrators, system engineers.

PREREQUISITES

Good knowledge of Linux/Unix administration.

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.

1 Install packages, patches and updates

- Yum configuration, Plug-ins overview.
- Handling Yum's cache.
- System upgrade.
- Package depot and local mirror.
- Patch deployment.

Hands-on work

Set up a package repository. Search for packages and resolve dependencies.

2 Solving start-up problems

- Starter charger.
- Core and initial ramdisk.
- The root-filesystem and its directories.
- /dev and peripherals.
- Take control of a system that doesn't boot.
- Forgot your password?

Hands-on work

Real-life examples of various boot-up and system connection problems. Get to grips with a Disaster Recovery solution.

3 Diagnose network problems

- Identify interfaces and check their settings.
- Routes, routing and host accessibility.
- Link, routing and name problems.

Hands-on work

Full configuration of addressing, routing and name resolution elements to be able to diagnose potential problems at each level.

4 Solve disk space and filesystem problems

- Boot-sector, MBR and partition table.
- Check file system integrity.
- Repair a corrupt file system.
- System and disk image backups.

Hands-on work

Integrity check and file system extension after saturation.

5 Detect bottlenecks and calibrate the system

- Monitor memory and swap usage.
- I/O and disk performance.
- Priority management and CPU load.
- Important kernel parameters.
- Performance analysis tools.

Hands-on work

Identify bottlenecks. Cause a system crash due to memory saturation.

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.

6 Logs and alerts

- Read and understand error messages.
- Centralize system logs and escalate alerts.

Hands-on work

Implementation of an alert escalation system.

7 Consider setting up a cluster-HA

- High availability and fault tolerance.
- High availability mechanisms under Linux.

Dates and locations

REMOTE CLASS

2026 : 31 Mar., 9 June, 20 Oct.

PARIS LA DÉFENSE

2026 : 31 Mar., 9 June, 20 Oct.