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

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.

(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 : 9 June, 20 Oct.

PARIS LA DÉFENSE
2026 : 9 June, 20 Oct.