



MFE-IT

Reference: 2B/EN/L1

Linux Administration Training Course

Installation, Service Management and Basic Administration

Duration: 4 Days | Hours: 28 h

Remote · Sessions guaranteed from 1 registrant · 60% hands-on practice

DESCRIPTION

Linux is ubiquitous in modern information systems: servers, containers, cloud, cybersecurity, DevOps. Behind every major web platform, every CI/CD pipeline and most of the cloud services you use daily, there is a Linux system that someone has to install, configure and keep running.

This training course guides you through the first steps of system administration under Linux: installation, service management, monitoring, user management and shell scripts. The approach is practical, with VM-based labs and real-world business scenarios — preparing you to take on first-line Linux server responsibilities or to progress to advanced administration.

LEARNING OBJECTIVES

By the end of this training course, participants will be able to:

- Install and configure a Linux server distribution (Debian, Ubuntu, Red Hat)
- Administer users, groups, permissions and processes
- Manage system services, volumes and logging
- Automate common tasks with shell scripts
- Understand package management and updates
- Diagnose and fix basic system problems

PREREQUISITES

- Completion of the 'Linux/Unix Getting Started' training course or equivalent experience
- Basic knowledge of the terminal, navigation and file handling
- Comfortable with technical environments

Because each participant is unique, a personalised interview is systematically organised in advance with our expert to design a training programme perfectly aligned with their objectives, level and professional challenges.

TARGET AUDIENCE

IT technicians, junior system administrators and developers wishing to gain autonomy in the Linux server environment.

DETAILED PROGRAMME

The training alternates between theoretical input and hands-on practice (approximately 60% of the time). Modules are built around practical exercises based on real-world business use cases.

Module 1 – Command Line Reminders and Linux Architecture

- Navigation and system tree
- Shells, sudo and permissions
- Linux architecture overview

Module 2 – Installing and Configuring a Linux System

- Choosing a distribution
- Installing in a VM and partitioning
- Initial network configurations

Module 3 – User and Permission Management

- Creation, modification, deletion of users and groups
- Management of access rights
- PAM and sudoers basics

Module 4 – System Services and Processes

- Starting and stopping services with systemd
- Monitoring with ps, top, htop, journalctl
- Logs and process management

Module 5 – Package Management and Updates

- Using apt, yum, dnf and zypper
- Repository management
- Automatic updates and patching strategy

Module 6 – Automation and Shell Scripts

- Simple scripting: variables, tests, loops
- Task automation with cron and at
- Simple backup scripts and log rotation

TEACHING METHODS

Format and Delivery

The training is delivered remotely via an interactive virtual classroom. It can also be delivered on-site, with content customised to match the needs of your professional project. The theory/practice split is approximately 40%/60%.

MFE-IT Ultra-Personalised Format

Each session accommodates between 1 and 3 participants, ensuring highly individualised support. A preliminary interview allows us to tailor the content to each participant's profile. Inter-company sessions are guaranteed from just 1 registrant (except in cases of force majeure).

Skills Assessment

Throughout the training, the trainer assesses participant progress through multiple-choice questions, role-playing exercises and hands-on work. At the end, a certificate of achievement is issued to each participant.

Post-Training Support

For one month following the training, each participant can contact MFE-IT trainers with questions about implementing acquired knowledge. A response is provided by email or telephone within 48 working hours.

Accessibility

MFE-IT is committed to welcoming people with disabilities. Contact: contact@mfe-it.com.

PRACTICAL INFORMATION

Trainer Resources

- Structured demonstrations aligned with the detailed programme
- Exercise briefs and solutions throughout the training
- A ready-to-use technical environment for practical workshops
- Trainer validation of acquired knowledge at the end of each workshop
- Digital reference documents

Certification and Validation

At the end of the training, a certificate is sent by email specifying the objectives, nature, duration and assessment results. A completion certificate can also be provided on request.

Benefits for Participants

- Train from your workplace or home, with no travel required
- Benefit from an expert trainer-consultant on the subject
- Enjoy an ultra-personalised format (1 to 3 participants)
- Continue training even in the event of unforeseen circumstances

Benefits for the Organisation

- Optimise the training budget by reducing travel and accommodation costs
- Offer quality training to all employees, regardless of location
- Reduce absence time linked to travel
- Support team upskilling in all contexts