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Updated on 25/08/2025

Sign up

Introduction to Linux

1 day (7 hours)

PRESENTATION

Our Introduction to Linux training course will enable you to take your first steps with Linux. During this course, you will be guided step-by-step through the Linux environment, its essential commands and its integration into modern DevOps workflows (Docker, Ansible, CI/CD).

Over the course of this course, you'll develop an in-depth understanding of the Linux environment and its uses in a professional and DevOps context. You'll discover the architecture of a Linux system, its essential components (kernel, distributions, shell), and the conventions of its file hierarchy.

Gradually, you'll also discover the essential notions of networking, automation and scripting, to prepare a Linux environment ready for modern tools like Docker, Ansible or GitLab Runner.

At the end of the course, you'll be able to work efficiently in a Linux system, manage it on a day-to-day basis and lay the foundations for a move towards the Cloud and DevOps.

OBJECTIVES

- Understand the architecture and fundamentals of a Linux system
- Master the essential terminal commands for manipulating files
- Manage processes, services and packages on a Linux system
- Automate simple tasks and prepare a Linux environment suitable for DevOps.

TARGET AUDIENCE

- Developers

- Network administrators
- Up-and-coming DevOps engineers

Prerequisites

- Basic computer skills (use of an OS, notions of files and directories).

Our Introduction to Linux training program

Discover the Linux environment

- Understanding Linux system architecture (kernel, distributions, shell)
- Using the terminal and navigating the file system
- Basic commands
- Managing files and directories
- Understanding the Filesystem Hierarchy Standard
- Practical exercises :
  - Navigating the tree and identifying key files
  - Creating and organizing a project tree

Handling and managing files

- Viewing and searching files
- Editing with a command-line editor
- Managing user rights and permissions
- Introduction to users and groups
- Understanding sudo and administrative privileges
- Practical exercises :
  - Creating and modifying a configuration file
  - Managing file permissions to restrict/open access

Processes, services and system management

- Understanding processes and their management
- Starting and stopping services with systemctl
- Introduction to package management
- Using environment variables
- Disk space management and basic system monitoring
- Practical exercises :
  - Installing and launching a package
  - Starting/stopping a service and checking its status

Linux in a DevOps context

- Network management
- Introduction to redirects and pipes
- Managing archives and transfers
- Basic automation with simple shell scripts
- Preparing a Linux environment for Docker/Ansible/GitLab Runner
- Practical exercises :
  - Write a bash script to install a package and configure a service
  - Check connectivity between two Linux servers

Companies concerned

This course is aimed at both individuals and companies, large or small, wishing to train their teams in a new advanced IT technology, or to acquire specific business knowledge or modern methods.

Positioning on entry to training

Positioning at the start of training complies with Qualiopi quality criteria. As soon as registration is finalized, the learner receives a self-assessment questionnaire which enables us to assess his or her estimated level of proficiency in different types of technology, as well as his or her expectations and personal objectives for the training to come, within the limits imposed by the selected format. This questionnaire also enables us to anticipate any connection or security difficulties within the company (intra-company or virtual classroom) which could be problematic for the follow-up and smooth running of the training session.

Teaching methods

Practical training: 60% hands-on, 40% theory. Training material distributed in digital format to all participants.

Organization

The course alternates theoretical input from the trainer, supported by examples, with brainstorming sessions and group work.

Validation

At the end of the session, a multiple-choice questionnaire verifies the correct acquisition of skills.

Certification

A certificate will be awarded to each trainee who has completed the entire course.

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