

Terraform: Solution use

Duration: 2 days

Audience: Professionnel TI

Who is this training for?

- Developers and Administrators
- DevOps Engineers

Training objectives

- Understand the positioning of the Terraform tool
- Master the basic concepts of Infrastructure as Code
- Use best practices and understand their interest
- Create and organize an infrastructure project with Terraform

Summary

Master the fundamentals of Infrastructure as Code (IaC) with Terraform, one of the most widely used tools in DevOps to automate and standardize cloud infrastructure management. This training will allow you to understand how Terraform works and create repeatable, secure and scalable environments. Through a hands-on approach, you'll learn how to structure your projects and apply best practices to effectively manage your multi-cloud infrastructures.

Course outline

Overview and Principles

Implementation

- Installation
- Terraform CLI

Basic Concepts

- Providers
- Resources

- Data sources
- Input variables
- Backend
- Provisioners

Make Code Reusable

- Local Values
- Outputs
- Modules
- Workspaces

Utilities

- Templates
- Functions

Approach and methodology

This training favours a progressive approach combining targeted theory and practical workshops.

Participants manipulate Terraform through real-world exercises to create and manage infrastructure, applying Infrastructure as Code concepts. Learning is reinforced by demonstrations, role-playing and the creation of reusable configurations inspired by professional contexts.

Prerequisites

Linux system administration basics or equivalent content. Knowledge of Docker or equivalent content.

Recommendations

- Notions of virtualization, containerization or cloud (AWS, Azure, GCP – an asset)
- Basic knowledge of command lines (CLI)
- Knowledge of Docker or similar technologies (asset)