![orsys TRAINING 50 YEARS]

Course : Terraform for OpenStack management, develop your cloud infrastructure

Practical course - 2d - 14h00 - Ref. TFV
Price : 1530 € E.T.

★★★★½ **4,3 / 5**

BEST

Terraform permet d'automatiser la création d'une infrastructure virtuelle (réseau et serveurs) dans un cloud. Ce cours permet de prendre Terraform en main et de comprendre son utilité dans un contexte de production DevOps avec déploiement continu.

🎯 Teaching objectives

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

- ✓ Orchestrate infrastructure deployments with Terraform
- ✓ Using Terraform to comply with Infrastructure as Code standards
- ✓ Structure their projects for efficient re-use
- ✓ Organize their teams to work together on Terraform
- ✓ Take over an existing AWS infrastructure and scale it up with Terraform
- ✓ Identify the benefits of orchestration and automation solutions

Intended audience
System administrators, production engineers, developers and architects.

Prerequisites
Basic knowledge of Linux/Unix administration and Cloud architectures.

PARTICIPANTS
System administrators, production engineers, developers and architects.

PREREQUISITES
Basic knowledge of Linux/Unix administration and Cloud architectures.

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.

Practical details

Hands-on work

Alternating theoretical presentations and practical exercises.

Teaching methods

Building a load-balancing web server architecture in an OpenStack cloud.

Course schedule

1 Infrastructure as Code solutions

- Infrastructure as Code concepts and constraints.
- Infrastructure as Code (IaC) solutions.

2 Terraform as Infrastructure as Code

- Terraform within the various Infrastructure as Code solutions.
- The Terraform command line.

Hands-on work

Discover the Terraform command line.

3 Infrastructure in OpenStack

- Getting to grips with OpenStack.
- VM/network deployment with Terraform on OpenStack.

Hands-on work

Creating a simple OpenStack infrastructure with Terraform.

4 Infrastructure in the AWS cloud

- Amazon Web Service basics.
- Using Terraform with AWS.

Hands-on work

Creating a simple infrastructure on AWS with Terraform.

5 A software production infrastructure

- Modularization of Terraform code.
- Life cycle of Terraform states.

Hands-on work

Creation of a production web infrastructure with Terraform.

6 Going deeper with Terraform

- Infrastructure segmentation to limit operational perimeters.
- Team organization and areas of responsibility.

Hands-on work

Takeover of existing infrastructure by import into Terraform.

Dates and locations

REMOTE CLASS
2026 : 23 Mar., 18 May, 27 July, 28 Sep., 2 Nov.

PARIS LA DÉFENSE
2026 : 23 Mar., 18 May, 27 July, 28 Sep., 2 Nov.