

# Course : Terraform for OpenStack management, develop your cloud infrastructure

*Practical course - 2d - 14h00 - Ref. TFV*

*Price : 1530 € E.T.*



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

### TEACHING AIDS AND TECHNICAL RESOURCES

- The main teaching aids and instructional methods used in the training are audiovisual aids, documentation and course material, hands-on application exercises and corrected exercises for practical training courses, case studies and coverage of real cases for training seminars.
- At the end of each course or seminar, ORSYS provides participants with a course evaluation questionnaire that is analysed by our instructional teams.
- A check-in sheet for each half-day of attendance is provided at the end of the training, along with a course completion certificate if the trainee attended the entire session.

### TERMS AND DEADLINES

Registration must be completed 24 hours before the start of the training.

### ACCESSIBILITY FOR PEOPLE WITH DISABILITIES

Do you need special accessibility accommodations? Contact Mrs. Fosse, Disability Manager, at psh-accueil@orsys.fr to review your request and its feasibility.

**REMOTE CLASS**

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

**PARIS LA DÉFENSE**

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