

Infrastructure as Code (IaC) with Terraform & Ansible

COURSE OVERVIEW

This course provides a detailed introduction to automating IT infrastructure provisioning, configuration, and management using two of the most widely adopted tools in the industry. The course covers Terraform for provisioning and managing cloud resources across providers (AWS, Azure, GCP), and Ansible for configuration management, orchestration, and application deployment. It also explores the principles of Infrastructure as Code, declarative vs. procedural approaches, and the benefits of automation in cloud and hybrid environments. By the end of the course, delegates will be equipped to build resilient, automated infrastructures aligned with DevOps best practices.

WHO SHOULD ATTEND?

This course is designed for DevOps engineers, cloud engineers, system administrators, IT infrastructure specialists, and software engineers who want to master automation and Infrastructure as Code practices. It is also suitable for IT managers, solution architects, and professionals seeking expertise in Terraform and Ansible for modern infrastructure management.

COURSE OUTCOMES

Delegates will gain the skills and knowledge to:

- Understand the principles and benefits of Infrastructure as Code (IaC).
- Use Terraform to provision, manage, and scale cloud infrastructure.
- Apply Ansible for configuration management and orchestration.
- Write, test, and version-control infrastructure code using Git.
- Integrate Terraform and Ansible into DevOps pipelines for automation.
- Implement security and compliance in automated infrastructure workflows.
- Troubleshoot, optimize, and monitor IaC deployments.
- Design and deploy reproducible, scalable, and resilient IT infrastructure.

KEY COURSE HIGHLIGHTS

At the end of the course, you will understand;

- The in-depth knowledge in Terraform for multi-cloud infrastructure provisioning.
- The practical application of Ansible for configuration and orchestration.
- IaC best practices, version control, and modular design.
- The integration of Terraform and Ansible into CI/CD workflows.
- Security, compliance, and monitoring in IaC environments.
- Case studies of enterprise IaC implementations and DevOps success stories.

All our courses are dual-certificate courses. At the end of the training, the delegates will receive two certificates.

1. A GTC end-of-course certificate
2. Continuing Professional Development (CPD) Certificate of completion with earned credits awarded.