Terraform Foundations

Duration: 2 Days Course Code: 8H500G

Overview:

The course introduces the principles and benefits of IaC and guides learners through the fundamentals of using Terraform to automate infrastructure management across various cloud platforms.

This course will cover the following topics :
- Introduction to Infrastructure as Code (IaC)
- Terraform Basics
- Terraform Resources and Providers
- Variables and Outputs
- State Management
- Modules and Workspaces
- Terraform Workflows
- Best Practices and Hands-On Labs

Updated April 2026

Target Audience:

- IT Infrastructure Engineers
- DevOps Engineers
- Cloud Architects
- Site Reliability Engineers (SREs)
- IT Managers
- Consultants

Objectives:

- **After this course participants should be able to:**
- Understand the principles and benefits of Infrastructure as Code (IaC)
- Install and configure Terraform.
- Write and interpret Terraform configuration files. (.tf)
- Define and manage infrastructure resources using providers.
- Implement dynamic configuration with variables and extract output values.
- Manage Terraform code with modeules and manage multiples environments using workspaces.
- Automate Terraform execution and integrate with CI/CD pipelines.
- Adopt best practices for designing, seguring, and sharing Terraform configurations.

Prerequisites:

Participants should have notions of system and storage concepts.

Testing and Certification

This course helps preparing Terraform Associate Certification

Follow-on-Courses:

- 8H503G Advanced HCP Terraform

Content:

Day 1

- Introduction to Infrastructure as Code (IaC)
- Introduction to Terraform
- Command line client
- Language basics

Day 2

- Providers
- Cloud Authentication
- Modules and Workspaces
- Intermediate Language

Day 3

- Templates
- Provisioners
- Testing
- Recommended Patterns
- Best Practices

Additional Information:

Official course book provided to participants

Further Information:

For More information, or to book your course, please call us on Head Office Tel.: +974 40316639

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