

## Terraform Foundations

Duration: 3 Days Course Code: 8H500G

### Overview:

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

### 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 modules and manage multiple environments using workspaces.
- Automate Terraform execution and integrate with CI/CD pipelines.
- Adopt best practices for designing, securing, and sharing Terraform configurations.

### Prerequisites:

Basic understanding of IT, Storage, Workflows.

### Content:

- Introduction to Infrastructure as Code (IaC)
- Terraform Basics
- Terraform Resources and Providers
- Variables and Outputs
- State Management
- Modules and Workspaces
- Terraform Workflows
- Best Practices
- Hands-On Labs
- Course Summary

### Additional Information:

Official course book provided to participants.

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## Further Information:

For More information, or to book your course, please call us on 0800/84.009

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