Intermediate Terraform Cloud Automation Training

Duration: **2 Day**

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This 2-day intermediate-level Terraform course is designed for cloud professionals who want to master Infrastructure as Code (IaC) and automate cloud deployments across AWS, Azure, or Google Cloud.

Choose Your Cloud – Each delegate will select their preferred cloud platform (AWS, Azure, or Google Cloud) for hands-on labs, ensuring they gain practical, applicable skills in the cloud environment they use most.

Prerequisites

This course assumes familiarity with AWS, Azure, or Google Cloud services. It is not a beginner's cloud course but focuses on Terraform's automation capabilities, security best practices, validation techniques, and real-world cloud deployments.

Target Audience

- DevOps Engineers looking to streamline Terraform automation
- Cloud Engineers managing AWS, Azure, or Google Cloud environments
- System Administrators transitioning to Infrastructure as Code (IaC)
- Developers integrating Terraform into CI/CD pipelines
- IT Professionals who have basic Terraform experience and want to advance their skills

What You Will Learn

- Deploy and manage cloud infrastructure using Terraform in AWS, Azure, or Google Cloud
- Write, structure, and optimize Terraform configurations for efficiency and scalability
- Implement secure authentication using IAM Roles, Service Principals, and Managed Identities for your chosen cloud
- Create and use reusable Terraform modules to simplify deployments and promote code reuse
- Understand and apply Terraform JSON syntax, converting between HCL and JSON for automation
- Use validation and compliance enforcement tools to ensure security and policy adherence
- Leverage Terraform expressions and dynamic blocks to build flexible, parameterized configurations
- Automate cloud object storage management for AWS S3, Azure Blob Storage, or Google Cloud Storage
- Provision and manage relational databases (AWS RDS, Azure SQL, Google Cloud SQL) using Terraform
- Deploy Kubernetes clusters and workloads in EKS (AWS), AKS (Azure), or GKE (Google Cloud) using Terraform
- Apply best practices for Terraform state management, remote backends, and workspace isolation
- Troubleshoot common Terraform issues and optimize performance for production environments