DEVOPS INTERMEDIATE 5 DAYS

Terraform with Azure

Build a strong foundation in Infrastructure as Code using Terraform with Azure to manage cloud resources programmatically. Learn Terraform core concepts, configuration syntax, and modules to create, modify, and manage scalable Azure infrastructure efficiently.

Why Terraform on Azure?

Infrastructure as Code

Terraform with Azure enables teams to define infrastructure as code, which allows for creating, modifying, and managing infrastructure using code.

Cost Savings

Terraform with Azure helps reduce costs by enabling the provision and de-provision of resources based on demand, allowing one to pay only for what one needs.

Flexibility

This flexible tool can be used to manage infrastructure in Azure, as well as other cloud platforms, such as AWS and Google Cloud, thus reducing the complexity of managing multiple tools and platforms.

What you'll be able to do

- ✓ Understanding Terraform and its capabilities
- ✓ Understanding Azure infrastructure and how to use Terraform to create, modify, and manage Azure resources
- ✓ A deep understanding of the basic concepts and constructs of Terraform
- ✓ Understanding of Terraform configuration syntax
- ✓ Understanding how to use Terraform to manage Azure resources
- ✓ Understanding how to use Terraform modules to manage complex infrastructure

Who this is for

- DevOps Engineers
- System Administrators
- Cloud Engineers
- Developers
- Security Professionals
- Database Administrators
- Network Engineers
- Container Engineers
- Software Engineers/IT Professionals

Curriculum

01 IaC and Terraform Foundations

- Apply iac and terraform foundations with Terraform on Azure in practical DevOps workflows
- Complete hands-on labs with realistic scenarios
- Validate outcomes, logs, and failure modes
- Capture reusable patterns for team standards

02 Azure and Provider Basics

- Apply azure and provider basics with Terraform on Azure in practical DevOps workflows
- Complete hands-on labs with realistic scenarios
- Validate outcomes, logs, and failure modes
- Capture reusable patterns for team standards

03 HCL Essentials

- Apply hcl essentials with Terraform on Azure in practical DevOps workflows
- Complete hands-on labs with realistic scenarios
- Validate outcomes, logs, and failure modes
- Capture reusable patterns for team standards

04 Setup and Authentication

- Apply setup and authentication with Terraform on Azure in practical DevOps workflows
- Complete hands-on labs with realistic scenarios
- Validate outcomes, logs, and failure modes
- Capture reusable patterns for team standards

05 Provision Azure Resources

- Apply provision azure resources with Terraform on Azure in practical DevOps workflows
- Complete hands-on labs with realistic scenarios
- Validate outcomes, logs, and failure modes
- Capture reusable patterns for team standards

06 State Management

- Apply state management with Terraform on Azure in practical DevOps workflows
- Complete hands-on labs with realistic scenarios
- Validate outcomes, logs, and failure modes
- Capture reusable patterns for team standards

07 Modules and Reuse

- Apply modules and reuse with Terraform on Azure in practical DevOps workflows
- Complete hands-on labs with realistic scenarios
- Validate outcomes, logs, and failure modes
- Capture reusable patterns for team standards

08 ARM Template Interop

- Apply arm template interop with Terraform on Azure in practical DevOps workflows
- Complete hands-on labs with realistic scenarios
- Validate outcomes, logs, and failure modes
- Capture reusable patterns for team standards

09 Terraform Cloud Deployments

- Apply terraform cloud deployments with Terraform on Azure in practical DevOps workflows
- Complete hands-on labs with realistic scenarios
- Validate outcomes, logs, and failure modes
- Capture reusable patterns for team standards

10 Troubleshooting

- Apply troubleshooting with Terraform on Azure in practical DevOps workflows
- Complete hands-on labs with realistic scenarios
- Validate outcomes, logs, and failure modes
- Capture reusable patterns for team standards

11 Security and Governance Basics

- Apply security and governance basics with Terraform on Azure in practical DevOps workflows
- Complete hands-on labs with realistic scenarios
- Validate outcomes, logs, and failure modes
- Capture reusable patterns for team standards

12 Best Practices

- Apply best practices with Terraform on Azure in practical DevOps workflows
- Complete hands-on labs with realistic scenarios
- Validate outcomes, logs, and failure modes
- Capture reusable patterns for team standards