



TechSolutions™

Terraform

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Introduction :

1. Introduction to Infrastructure as Code
2. Challenges with Traditional IT Infrastructure
3. Types of IAC Tools
4. Why Terraform?

Getting Started with Terraform :

1. Installing Terraform
2. HashiCorp Configuration Language (HCL) Basics
3. Update and Destroy Infrastructure

Terraform Basics :

1. Terraform Providers
2. Configuration Directory
3. Multiple Providers
4. Using Input Variables
5. Understanding the Variable Block
6. Using Variables in Terraform
7. Resource Attributes
8. Resource Dependencies
9. Output Variables

Terraform State :

1. Introduction to Terraform State
2. Purpose of State
3. Terraform State Considerations

Working with Terraform :

1. Terraform Commands
2. Mutable vs Immutable Infrastructure
3. LifeCycle Rules
4. Datasources
5. Meta-Arguments
6. Count
7. Version Constraints

Terraform with AWS :

1. Getting Started with AWS
2. Demo Setup an AWS Account
3. Introduction to IAM
4. AWS IAM with Terraform
5. IAM Policies with Terraform
6. Introduction to AWS S3
7. S3 with Terraform
8. Introduction to DynamoDB
9. Demo Dynamodb
10. DynamoDB with Terraform

Remote State :

1. What is Remote State and State Locking?
2. Remote Backends with S3
3. Terraform State Commands

Terraform Provisioners :

1. AWS EC2 with Terraform
2. Terraform Provisioners
3. Provisioner Behaviour
4. Considerations with Provisioners

Terraform Import, Tainting Resources and Debugging

1. Terraform Taint
2. Debugging
3. Terraform Import

Terraform Modules:

1. What are modules?
2. Creating and Using a Module
3. Using Modules from the Registry

Terraform Functions and Conditional Expressions

1. More Terraform Functions
2. Conditional Expressions
3. Terraform Workspaces (OSS)