

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:

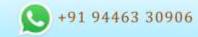
- 1. Introduction to Terraform State
- 2. Purpose of State
- 3. Terraform State Considerations

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)





