

TERRAFORM

CURRICULUM

- 1 Getting Started & Setting Up Labs**
 - Choosing a right Infrastructure as Code Tool
 - Installing Terraform - Windows Users
 - Installing Terraform - Mac OS and Linux Users
 - Choosing Right IDE for Terraform IAC development
 - Setting up AWS account
- 2 Deploying Infrastructure with Terraform**
 - Creating first EC2 instance with Terraform
 - Understanding Resources & Providers
 - Destroying Infrastructure with Terraform
 - Understanding Terraform State files
 - Understanding Desired & Current States
 - Challenges with the current state on computed values
 - Terraform Provider Versioning
 - Types of Terraform Providers
- 3 Read, Generate, Modify Configurations**
 - Understanding Attributes and Output Values in Terraform

Referencing Cross-Account Resource Attributes
Terraform Variables
Approaches for Variable Assignment
Data Types for Variables
Fetching Data from Maps and List in Variable
Count and Count Index
Conditional Expressions
Local Values
Terraform Functions
Data Sources
Debugging in Terraform
Terraform Format
Validating Terraform
Configuration Files
Load Order & Semantics
Dynamic Blocks
Tainting Resources
Splat Expressions
Terraform Graph
Saving Terraform Plan to File

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Terraform Provisioners

Understanding Provisioners in Terraform
Types of Provisioners
Implementing remote-exec provisioners

Implementing local-exec provisioners

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Terraform Modules & Workspaces

Understanding DRY principle

Implementing EC2 module with Terraform

Variables and Terraform Modules Terraform Registry

Terraform Workspace

Implementing Terraform Workspace

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Remote State Management

Integrating with GIT for team management

Security Challenges in Committing TFState to GIT

Remote State Management with Terraform

Implementing S3 Backend

Challenges with State File locking

Integrating DynamoDB with S3 for state locking

Terraform State Management

Importing Existing Resources with Terraform Import

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Security Primer

Handling Access & Secret Keys the Right

Way in Providers

Terraform Provider Use Case - Resources in

Multiple Regions

Handling Multiple AWS Profiles with Terraform Providers
Terraform & Assume Role with AWS STS
Sensitive Parameter

8 Placement Guide

Tips to clear an Interview

Common Interview questions and answers

Terraform Interview Questions and Answers

Resume Building Guide

Attempt for the related Global Certification Exam

Earn Credentials and Start applying for Jobs



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