Terraform Cloud

Duration: 3 Days(8hrs/day)

Prerequisites: Terraform Certified Associate course.

Course Objective: By achieving these objectives, participants will be well-equipped to utilize Terraform Cloud for efficient, collaborative, and secure infrastructure management.

Cloud Platform: Microsoft Azure, Terraform Version: Latest Lab Requirement: Participant Azure Trial Account Required

Module 1 – Introduction

Introduction to Infrastructure as Code and Terraform Cloud

Demo on Terraform Cloud

Module 2 – Terraform Cloud Setup

Terraform Cloud Organizations

Authenticating to Terraform Cloud

Lab: Interacting with Terraform Cloud

IMPORTANT: Using Copy/Paste in Labs

Lab: Terraform Cloud Sign Up & Setup

Module 3 – Terraform Cloud Workspaces

Terraform Cloud Workspaces

Lab: Terraform Cloud Workspaces - Local Execution

Lab: Terraform Cloud Workspaces - Remote Execution

Lab: Terraform Cloud Workspaces - Approval State locking

Module 4 – Securing Variables with Terraform Cloud

Terraform Cloud Variables

Lab: Terraform Cloud Variables

Module 5 – Terraform Cloud Workflows

Introducing Terraform Cloud Workflows

Lab: Connecting Terraform Cloud to Your GitHub Account

Lab: Version Control Branching and Workspaces

Lab: GitOps Workflow using Terraform Cloud

Module 6 – Terraform Cloud Private Registry

Terraform Cloud Private Registry

Lab: Private Registry

Module 7 – Terraform Cloud Private Teams

Terraform Cloud – Teams

Lab: Terraform Cloud – Teams

Module 8 – Migrating to Terraform Cloud

Migrating to Terraform Cloud

Lab: Migrating to Terraform Cloud

Module 9 – Policy as Code – Sentinel and OPA

Policy as Code

Lab: Terraform Cloud Sentinel Policy

Lab: Terraform Cloud Open Policy Agent (OPA)

Module 10 – Terraform Cloud Operations

Lab: Version Compatibility

Lab: Cost Estimation

Lab: Notifications

Lab: Drift Detection

Lab: Automating Terraform Cloud

Module 11 – Terraform Cloud Advanced

Lab: State Isolation and Run Triggers

Lab: Terraform Cloud Run Agents

Lab: Targeting Resource for Replacement with Terraform Cloud

Lab: Terraform Cloud API