KOENIG SOLUTIONS · COURSE OUTLINE

Terraform Cloud

Learn to set up, manage and secure infrastructure deployments using Terraform Cloud, from workspaces to policy as code.

3 Days	9	11	23
8 HOURS A DAY	MODULES	TOPICS	HANDS-ON LABS

COURSE OVERVIEW

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

WHO THIS COURSE IS FOR

DevOps Engineers | **Infrastructure Engineers** | **Cloud Engineers** | **Platform Engineers** | **System Administrators**

PREREQUISITES

- Terraform Certified Associate course.

TOOLS AND REQUIREMENTS

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

LEARNING OBJECTIVES

- Explain infrastructure as code concepts and Terraform Cloud basics
- Configure Terraform Cloud organizations and authentication
- Manage Terraform Cloud workspaces for local and remote execution
- Secure sensitive data using Terraform Cloud variables
- Implement GitOps workflows connecting Terraform Cloud to GitHub
- Configure the Terraform Cloud private registry and teams
- Apply policy as code using Sentinel and OPA
- Plan migration of existing projects to Terraform Cloud

COURSE SYLLABUS

9 Modules, 11 Topics

01

Introduction

TOPICS

- Introduction to Infrastructure as Code and Terraform Cloud
- Demo on Terraform Cloud

02 — 2 Labs

Terraform Cloud Setup

TOPICS

Terraform Cloud Organizations · Authenticating to Terraform Cloud

03 — 3 Labs

Terraform Cloud Workspaces

TOPICS

Terraform Cloud Workspaces

04 — Lab

Securing Variables with Terraform Cloud

TOPICS

Terraform Cloud Variables

05 — 3 Labs

Terraform Cloud Workflows

TOPICS

Introducing Terraform Cloud Workflows

06 — Lab

Terraform Cloud Private Registry

TOPICS

Terraform Cloud Private Registry

07 — Lab

Terraform Cloud Private Teams

TOPICS

Terraform Cloud – Teams

08 — Lab

Migrating to Terraform Cloud

TOPICS

Migrating to Terraform Cloud

09 — 2 Labs

Policy as Code – Sentinel and OPA

TOPICS

Policy as Code

Terraform Cloud Operations — 5 Labs

Terraform Cloud Advanced

4 Labs

NOTES

- Important: Using Copy/Paste in Labs

HANDS-ON LABS

Practise What You Learn

#	MODULE	ACTIVITY
02	**Terraform Cloud Setup**	■ Interacting with Terraform Cloud ■ Terraform Cloud Sign Up & Setup
03	**Terraform Cloud Workspaces**	■ Terraform Cloud Workspaces - Local Execution ■ Terraform Cloud Workspaces - Remote Execution ■ Terraform Cloud Workspaces - Approval State locking
04	**Securing Variables with Terraform Cloud**	Terraform Cloud Variables
05	**Terraform Cloud Workflows**	■ Connecting Terraform Cloud to Your GitHub Account ■ Version Control Branching and Workspaces ■ GitOps Workflow using Terraform Cloud
06	**Terraform Cloud Private Registry**	Private Registry
07	**Terraform Cloud Private Teams**	Terraform Cloud – Teams
08	**Migrating to Terraform Cloud**	Migrating to Terraform Cloud
09	**Policy as Code – Sentinel and OPA**	■ Terraform Cloud Sentinel Policy ■ Terraform Cloud Open Policy Agent (OPA)
10	**Terraform Cloud Operations**	■ Version Compatibility ■ Cost Estimation ■ Notifications ■ Drift Detection ■ Automating Terraform Cloud
11	**Terraform Cloud Advanced**	■ State Isolation and Run Triggers ■ Terraform Cloud Run Agents ■ Targeting Resource for Replacement with Terraform Cloud ■ Terraform Cloud API

WHAT IS INCLUDED

Everything You Need to Succeed

- Koenig course material for every module
- Delivery by certified instructors and subject matter experts
- Hands-on exercises throughout the course
- Course completion certificate from Koenig

ABOUT KOENIG

Who We Are

Established in 1993, Koenig Solutions is a globally recognised training provider with 35+ technology partnerships, 5,000+ training programmes and a network of certified instructors and subject matter experts, supporting individuals and enterprise teams worldwide.

FLEXIBLE DELIVERY

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