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Terraform Associate (003)

Exam Prep Course - 2 days

FA-0436 · 2 days

DevOps, Cloud & Infrastructure

Introduction

This course is designed to prepare you for the Terraform Associate (003) certification exam, focusing on the essential skills and knowledge required to become a proficient Terraform practitioner. With the growing demand for Infrastructure as Code (IaC), mastering Terraform is crucial for automating infrastructure provisioning and management. This course covers all the exam objectives in detail, ensuring you're well-equipped to pass the exam and apply Terraform in real-world scenarios.

Learning outcomes

By the end of this course, participants will be able to:

- Understand the core concepts of Infrastructure as Code (IaC) and Terraform's role within it.
- Execute the Terraform workflow, including writing configuration files, initializing environments, and applying configurations.
- Manage Terraform state effectively and securely.
- Implement and understand the use of modules to modularize and reuse configurations.
- Integrate Terraform with cloud providers and manage their resources.
- Secure and manage Terraform configurations using advanced features like workspaces and version control.
- Troubleshoot and resolve common Terraform issues.
- Prepare confidently for the Terraform Associate (003) exam.

Prerequisites

- Basic understanding of cloud computing concepts
- Familiarity with command-line interfaces

- Knowledge of any programming language (preferred but not required)
- Access to a cloud provider account for hands-on practice

Training outline

1. Introduction to Infrastructure as Code (IaC)

- Definition and benefits of IaC
- Overview of Terraform and its use cases

2. Getting Started with Terraform

- Installation and setup
- Understanding the Terraform workflow
- Writing basic Terraform configurations

3. Terraform CLI and Core Workflow

- Initializing a Terraform working directory
- Planning and applying changes
- Understanding the execution plan
- Destroying infrastructure

4. Terraform State Management

- Importance of Terraform state
- Managing state files
- Remote state management
- Locking and securing state

5. Terraform Configuration Language

- Syntax and structure of HCL (HashiCorp Configuration Language)
- Variables and outputs
- Data sources and their use cases
- Resource addressing and manipulation

6. Modules in Terraform

- Creating and using modules
- Best practices for module design
- Sharing and versioning modules

7. Terraform and Cloud Providers

- Configuring providers
- Understanding provider versions
- Managing resources in AWS, Azure, and GCP
- Working with provider-specific features

8. Terraform Workspaces

- Introduction to workspaces
- Using workspaces for environment separation
- Managing multiple environments with workspaces

9. Advanced Terraform Features

- Dependency management
- Terraform loops and conditionals
- Provisioners and when to use them
- Using Terraform with CI/CD pipelines

10. Security in Terraform

- Managing sensitive data
- Secure state management
- Best practices for securing Terraform configurations

11. Troubleshooting and Debugging

- Common errors and solutions
- Using Terraform logs for troubleshooting
- Debugging with the Terraform console

12. Preparing for the Terraform Associate Exam

- Overview of the exam format
- Review of key topics and objectives
- Practice questions and mock exams
- Tips for exam day

This course, led by an instructor with over 30 years of industry experience, ensures you receive real-world, practical knowledge that goes beyond academic learning.

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