

Terraform 102 - Managing Azure with Terraform

Price: 2195

Duration: 3 days

Delivery Methods: Virtual

Overview

About this Course

As enterprises seek to deploy and maintain increasingly complex Azure cloud infrastructure, there is a necessity to use “Infrastructure as Code” (IaC) tools, like Terraform. An open-source, state management tool developed by HashiCorp, Terraform allows developers to use a common coding interface to work through their various clouds safely and efficiently. Attendees will leave being able to write and understand Terraform code (HCL), have a clear understanding of Terraform’s various components and supporting tools, as well as when to reach for Terraform over another IaC tool, such as Ansible.

Audience Profile

- DevOps Engineers
- Software Developers
- Technical Managers and Leads
- System and Cloud Administrators
- Network Engineers and Developers

At Course Completion

- Writing Terraform HCL code for managing Azure
- Deploying into Azure
- Where Terraform fits in the Enterprise CI/CD model

- Differences between Terraform and Ansible
- Best practices
- Prepare for HashiCorp's Terraform Associate Certification
- AI LLM prompt engineering for Terraform snippets and jumpstarting solutions

Outline

AI LLM Toolkit

- Lecture + Lab: Large Language Model toolkit for AI Solution Assistance

Introduction to Terraform

- Lecture: Terraform Course Map
- Lecture: Introduction to Terraform

Software Control Management

- Lecture + Lab: SCM Option #1 - GitHub

Overview of Terraform

- Lecture + Lab: Terraform Install
- Lecture + Lab: gitignore for Terraform

Terraform

- Lecture: Managing Azure with Terraform
- Lecture: Terraform HCL Syntax
- Lecture + Lab: Azure and Terraform Resources
- Lecture: Terraform Variables
- Lecture + Lab: Azure and Terraform Variables
- Lecture: Terraform Locals
- Lecture + Lab: Output Values

Azure

- Lecture: Exploring Terraform Azure modules
- Lecture + Lab: Terraform and Azure
- Lecture + Lab: Building a Virtual Network
- Lecture + Lab: Creating A Windows VM
- Lecture: Microsoft Verified Modules
- Lecture + Lab: Azure Verified Modules for Terraform

Beyond Basics

- Lecture: Import pre-existing infrastructure
- Lecture + Lab: Data Sources and HTTP Provider
- Lecture + Lab: Dynamic Operations with Functions

- Lecture + Lab: Creating a Terraform Module
- Lecture + Lab: Dynamic Provisioning with tfvars Files

Loops

- Lecture: for_each
- Lecture + Lab: Looping Constructs - for_each

Provisioning

- Lecture + Lab: local-exec Provisioner

Dynamic Blocks

- Lecture + Lab: Dynamic Blocks

Azure Pipelines

- Lecture + Lab: Azure Pipelines for Terraform

Terraform Review

- Lecture: HashiCorp Terraform Study Guide

Prerequisites

Although not required, students with some experience programming, or pre-existing knowledge of Azure or other cloud architecture, will most appreciate the technical nature of this hands-on course.

Course Schedule

Date	Time	Price	Options
11/04/2026	09:00 AM - 05:00 PM CT	2,195.00	Buy Now Enroll
08/31/2026	09:00 AM - 05:00 PM CT	2,195.00	Buy Now Enroll
07/06/2026	09:00 AM - 05:00 PM CT	2,195.00	Buy Now Enroll
05/13/2026	09:00 AM - 05:00 PM CT	2,195.00	Buy Now Enroll

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FAQ

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