

HashiCorp Terraform Associate (004)

Write, test and maintain infrastructure as code with Terraform — and prepare for the Terraform Associate (004) exam.

DURATION

2 days · 16 hours

LEVEL

Intermediate

CURRICULUM

9 modules · 5 labs

DELIVERYLive online, Onsite,
Corporate

Course overview

Terraform has become the common language for provisioning cloud infrastructure across AWS, Azure, Google Cloud and hundreds of other platforms. Teams that use it well can review infrastructure changes like code, reproduce environments on demand and recover quickly from mistakes. This two-day course gives you that working fluency.

Day one starts with why infrastructure as code matters and how Terraform works: providers, resources, the core init, plan, apply and destroy workflow, variables, outputs, locals, data sources and expressions. You will write configuration from scratch, then refactor it with loops, conditionals and dynamic blocks, and learn to read plans carefully before applying them.

Day two focuses on what makes Terraform maintainable in a team: state and remote backends, locking, importing existing resources, moving and removing resources from state, building and versioning modules, and validating configuration with checks, preconditions and custom conditions. You will also use HCP Terraform for remote runs, workspaces, variable sets and policy, then finish with exam readiness.

All labs deploy real resources in a cloud sandbox, so you see exactly what Terraform does and what it costs to get things wrong.

This course is aligned to the HashiCorp Certified: Terraform Associate (004) exam, which has been the current version since 8 January 2026 and tests Terraform 1.12. Confirm current exam details on the HashiCorp certification site before booking.

Highlights

- 16 hours of live, trainer-led sessions
- Real cloud deployments in every lab
- State, modules and workspaces explained clearly
- HCP Terraform workflows and team collaboration
- Practice questions with review

What's included

- Cloud sandbox for real deployments
- Configuration written from scratch, then refactored
- Remote state, locking, import and refactoring labs
- Reusable module design and versioning
- HCP Terraform workspaces and remote runs
- Course completion certificate from Ace Skills Consulting
- Post-training doubt support

Who this course is for

Who should attend

- Cloud and infrastructure engineers
- DevOps and platform engineers
- System administrators moving to infrastructure as code
- Developers who provision their own environments

Prerequisites

- Basic familiarity with at least one public cloud
- Comfort with the command line and a code editor
- Version control basics with Git

Detailed curriculum — 2 days, 16 hours, 9 modules, 5 hands-on labs

Day 1 Terraform Fundamentals and Configuration

8 hours

1.1 Infrastructure as code

- Benefits of IaC
- Multi-cloud and provider-agnostic workflows
- Declarative vs imperative
- How Terraform works

1.2 Core workflow

- Providers and version constraints
- Reading a plan
- init, validate, plan, apply and destroy
- Formatting and the lock file

LAB Deploy a network and VM with the core workflow · 50 min

1.3 Writing configuration

- Variables, outputs and locals
- Expressions and functions
- Resource dependencies and lifecycle
- Data sources
- count, for_each and dynamic blocks

LAB Refactor a configuration with for_each and dynamic blocks · 55 min

1.4 Sensitive data

- Sensitive variables and outputs
- Keeping secrets out of code

Day 2 State, Modules, HCP Terraform and Exam Readiness

8 hours

2.1 State management

- Purpose of state
- Importing resources
- Drift and refresh-only plans
- Remote backends and locking
- moved and removed blocks

LAB Migrate to remote state and import an existing resource · 50 min

2.2 Modules

- Module structure and inputs
- Versioning modules
- Public and private registries
- Composing modules

LAB Build and version a reusable module · 45 min

2.3 Maintaining infrastructure

- Custom conditions, checks and validation
- Workspaces
- Debugging and logging

2.4 HCP Terraform

- Remote runs and workspaces
 - VCS-driven workflows
- Variable sets
 - Policy and governance overview

LAB Run a plan and apply through HCP Terraform · 35 min

2.5 Exam readiness

- Objective review
 - Practice questions with review
- Question styles

Skills and tools

Skills you will build

Infrastructure as code

Terraform CLI

HCL

Providers

Variables & outputs

Remote state

State import & refactoring

Modules

Custom conditions

HCP Terraform

Workspaces

Tools used in class

Terraform CLI

HCP Terraform

Terraform Registry

Visual Studio Code

Git

Cloud provider sandbox

Certification exam

This course is aligned to the exam below and prepares you for it. The exam itself is booked and taken with the vendor.

Exam	HashiCorp Certified: Terraform Associate (004)
Exam code	004
Duration	60 minutes
Delivery	Online proctored
Official page	https://developer.hashicorp.com/certifications/infrastructure-automation

Exam skill areas covered

Exam details are pending verification. Confirm the current exam code, format and fee on the official vendor page before booking.

Frequently asked questions

Which Terraform version does the exam test?

The Terraform Associate (004) exam, current since 8 January 2026, tests Terraform 1.12. We teach on a matching version.

How long is the exam and what does it cost?

It is a 60-minute exam with a fee of US\$70.50 plus applicable taxes, booked directly with HashiCorp.

Which cloud do the labs use?

Labs use a cloud sandbox we provide; the concepts transfer to any provider.

Is HCP Terraform covered?

Yes. You will run plans through HCP Terraform workspaces and learn where it fits in a team workflow.

Book a batch or talk to an advisor

Course page: aceskillsconsulting.com/course/terraform-associate-004-hashicorp · Email: info@aceskillsconsulting.com

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