



GOOGLE CLOUD TRAINING

Terraform Gcp Course

Deploy and manage Google Cloud resources with Terraform. Automate infrastructure as code for scalable GCP solutions.

DURATION

2 hours

LEVEL

Intermediate

FORMAT

Instructor-Led

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- Globally Recognized Certification
 - Expert-Led Hands-On Training
 - Flexible Scheduling

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COURSE OVERVIEW

Unlock the power of automated cloud infrastructure deployment and management with our specialized Terraform GCP Course. This intermediate-level program is meticulously designed for IT professionals seeking to master Infrastructure-as-Code (IaC) principles within the Google Cloud Platform ecosystem. You will dive deep into Terraform's declarative language, learning how to provision, update, and destroy GCP resources efficiently and repeatably. The course focuses on practical application, enabling you to build scalable, reliable, and secure cloud environments with unprecedented speed and consistency. Beyond merely understanding syntax, you will gain hands-on experience configuring essential GCP services like Compute Engine, VPC networks, Cloud Storage, and Cloud SQL using Terraform.

By completing this 2-hour intensive course, you will acquire invaluable skills that are highly sought after in today's cloud-centric job market. You'll learn to manage infrastructure state, collaborate effectively using remote backends, and implement best practices for secure and maintainable Terraform configurations. The professional benefits extend to significantly improving deployment times, reducing human error, and ensuring compliance across your GCP projects. This expertise will not only enhance your current role but also position you as a critical asset in any organization leveraging Google Cloud, paving the way for advanced career opportunities in cloud automation and DevOps.

Duration	2 hours
Level	Intermediate
Vendor	Google Cloud

COURSE CURRICULUM

01 Module 1: Introduction to Terraform and Google Cloud Fundamentals

- Understanding Infrastructure as Code (IaC) principles
- Overview of Terraform's architecture and workflow
- Introduction to Google Cloud Platform (GCP) core services
- Setting up your GCP project and billing account
- Installing and configuring Terraform CLI
- Terraform providers and the GCP provider

02 Module 2: Provisioning Core GCP Resources with Terraform

- Writing your first Terraform configuration for GCP
- Creating and managing Google Compute Engine instances
- Configuring Virtual Private Cloud (VPC) networks and subnets
- Deploying Cloud Storage buckets and access controls
- Managing Cloud SQL instances and databases
- Understanding Terraform resource dependencies and explicit ordering

03 Module 3: Terraform State Management and Collaboration

- Understanding Terraform state and its importance
- Local state vs. remote state backends (Cloud Storage)
- Locking state for collaborative environments
- Using Terraform workspaces for environment isolation
- Data sources for importing existing GCP resources
- Terraform output values for cross-configuration data sharing

Module 4: Advanced Terraform Features for GCP

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- Leveraging Terraform modules for reusability and abstraction
 - Creating custom Terraform modules for GCP patterns
 - Using variables and input parameters for flexible configurations
 - Conditional expressions and loops in Terraform HCL
 - Dynamic blocks for complex resource configurations
 - Targeting specific resources with 'terraform target'

05 **Module 5: Integrating Terraform with GCP Best Practices**

- Implementing Terraform for CI/CD pipelines on GCP (e.g., Cloud Build)
- Securing Terraform configurations and sensitive data (e.g., Secret Manager)
- Adopting naming conventions and tagging strategies for GCP resources
- Error handling and debugging Terraform configurations
- Destroying infrastructure safely and managing resource lifecycles
- Monitoring Terraform deployments and GCP resource health

CAREER PATHWAYS

Graduates of this program are prepared for the following roles:

- > **GCP Cloud Automation Engineer**
- > **DevOps Specialist (Google Cloud Focus)**
- > **Site Reliability Engineer (SRE) with IaC Expertise**

FREQUENTLY ASKED QUESTIONS

Q: What specific hands-on skills will I gain that are immediately applicable to my job as a Cloud Engineer?

Upon completing this course, you will be proficient in writing, planning, and applying Terraform configurations to deploy and manage a range of Google Cloud services, including Compute Engine VMs, VPC networks, Cloud Storage, and Cloud SQL. You'll gain hands-on experience with state management using remote backends, module development for reusability, and integrating Terraform into CI/CD pipelines on GCP, enabling you to automate and scale your cloud infrastructure with confidence.

Q: What are the recommended prerequisites for someone to get the most out of this Intermediate Terraform GCP Course?

To fully benefit from this course, we recommend having a foundational understanding of Google Cloud Platform services (e.g., familiarity with the console, basic networking concepts), and some prior exposure to command-line interfaces. While not strictly required, a basic understanding of scripting or programming concepts will also be beneficial. This course is designed for those looking to move beyond manual configuration to infrastructure automation.

Q: How will mastering Terraform on GCP enhance my career trajectory towards a DevOps or SRE role?

Mastering Terraform on GCP is crucial for DevOps and SRE roles as it provides the core competency for Infrastructure-as-Code. This course will equip you with the ability to define, provision, and manage GCP infrastructure in a repeatable, version-controlled manner. This skill set is essential for implementing continuous delivery, ensuring infrastructure consistency, reducing deployment risks, and contributing to the reliability and scalability of cloud-native applications, making you a highly valuable candidate for advanced positions in these fields.

ABOUT COMPUTER PRIDE



East Africa's Premier IT Training Center

With over 15 years of excellence, Computer Pride delivers globally recognized certification programs from leading technology vendors. Located on Kenyatta Avenue in Nairobi's CBD, our state-of-the-art facilities and expert instructors have empowered thousands of professionals across East Africa.

15+

Years of Excellence

10,000+

Professionals Trained

50+

Vendor Certifications

READY TO ENROL?

Take the next step in your technology career.

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