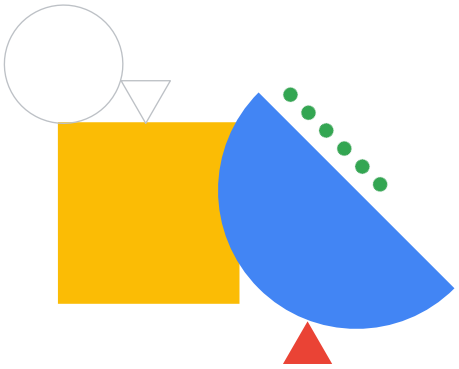
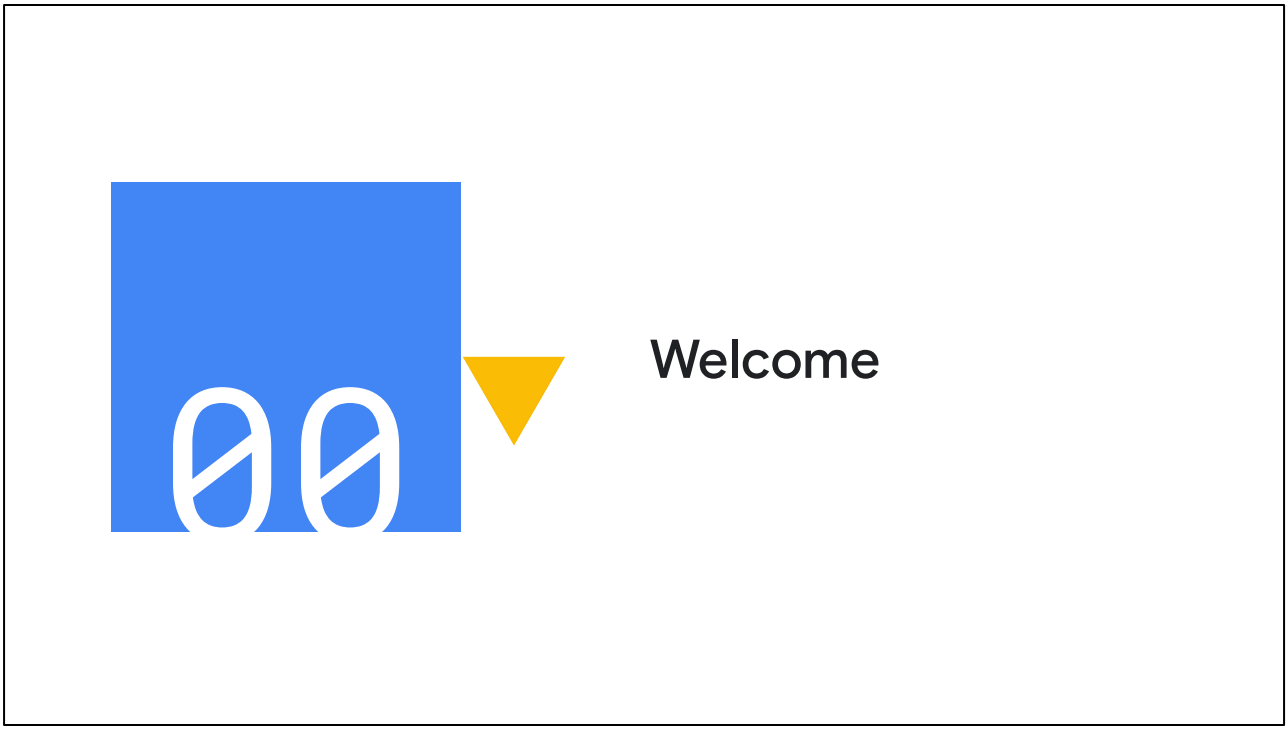
Google Cloud

Getting Started with Terraform for Google Cloud



Instructor-led training

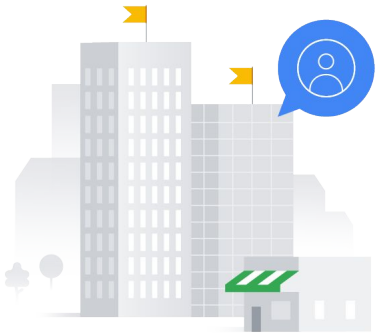


Hello and welcome to the Getting Started with Terraform for Google Cloud course.

Your instructor + You

- Background
- Position
- Organization

Target audience



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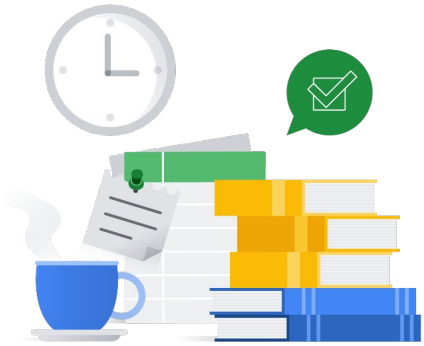
- DevOps Engineers
- Cloud Architects
- Cloud Engineers

The intended target audience of today's course consists of DevOps Engineers, Cloud Architects, and Cloud Engineers. It is also useful anyone looking to use Terraform for Google Cloud.



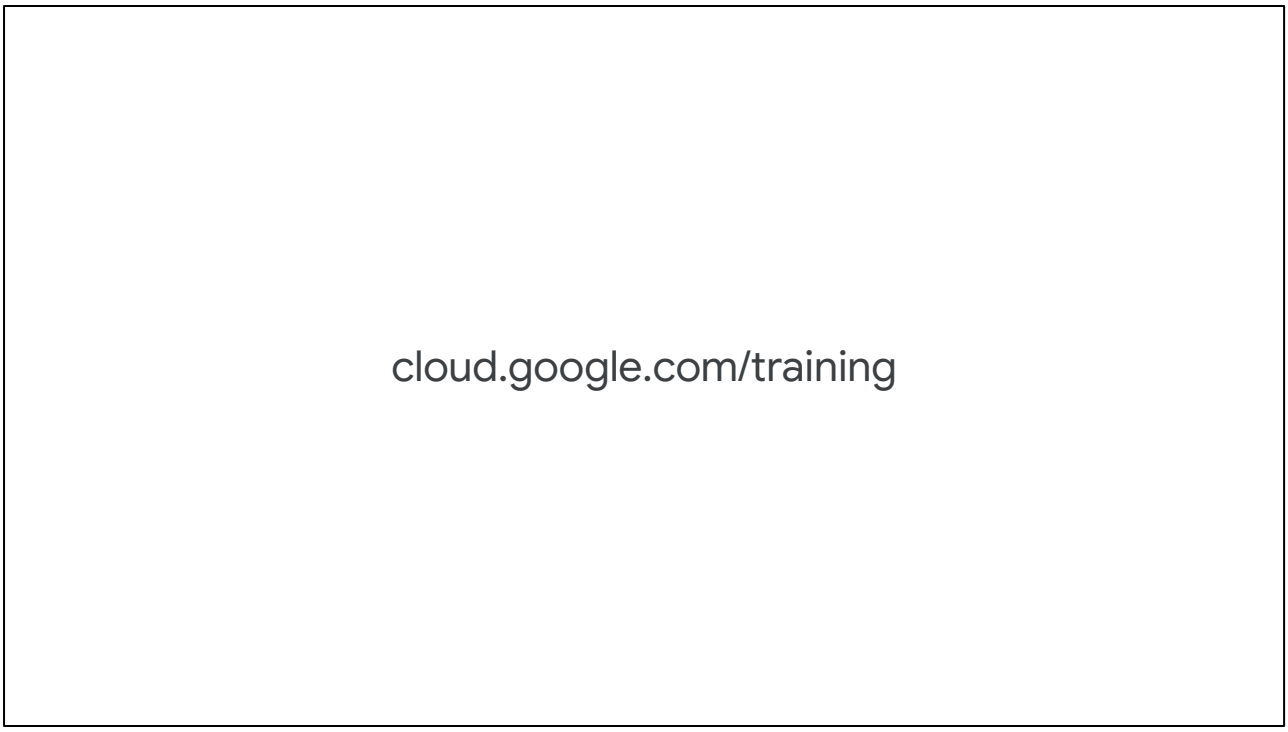
Prerequisites

- Google Cloud Fundamentals: Core Infrastructure

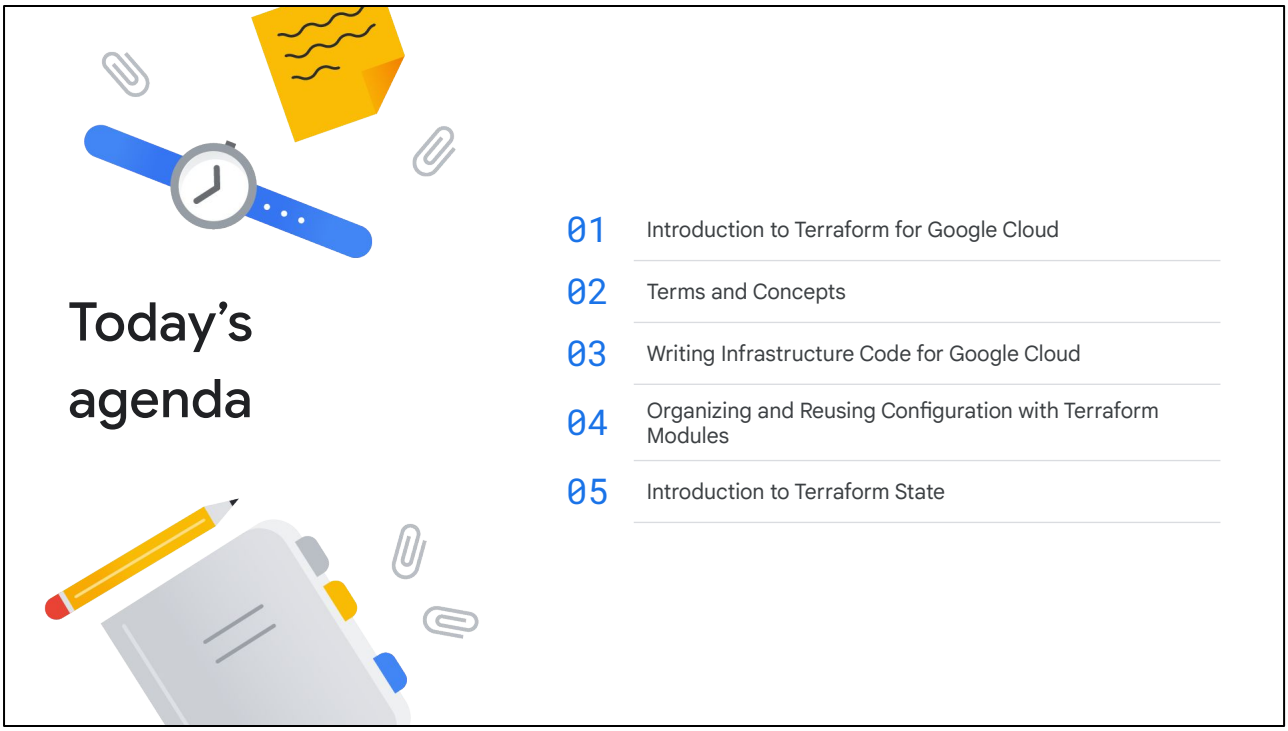
Helpful to **be familiar with**

- Basic programming skills
- CLI and Google Cloud

The prerequisite for this course is Google Cloud Fundamentals: Core Infrastructure. You'll also need to have basic programming skills, familiarity with using CLI and general familiarity with Google Cloud.



You can learn more about where this course fits into the learning path for your specific role, and all the training courses offered by Google Cloud, by heading to *cloud.google.com/training*. At the end of today's course we'll speak a little more about the different learning paths offered for each role.



There are 5 modules in today's course, rounded off with a short summary and review session.

Here's our agenda:

1. Introduction to Terraform for Google Cloud
2. Terms and Concepts
3. Writing Infrastructure Code for Google Cloud
4. Organizing and Reusing Configuration with Terraform Modules
5. Introduction to Terraform State

Objectives

01 Define the business need for infrastructure as code and the benefits of using it in your environment.

02 Explain the features and functionalities of Terraform.

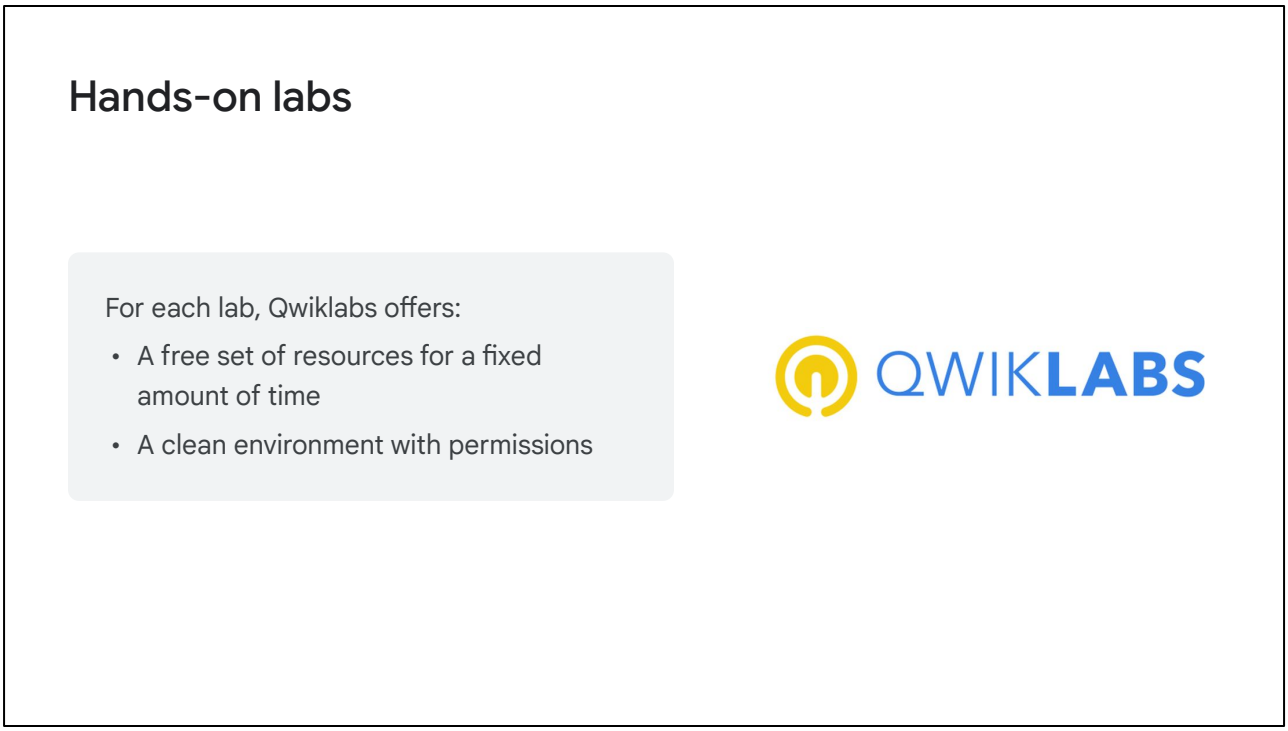
03 Use Terraform resources, variables, and output values to create Google Cloud infrastructure resources.

04 Use Terraform modules to build reusable configurations.

05 Explain Terraform state and its importance.

Through covering these modules, there are five key learning objectives that we're hoping to achieve today, and they are to:

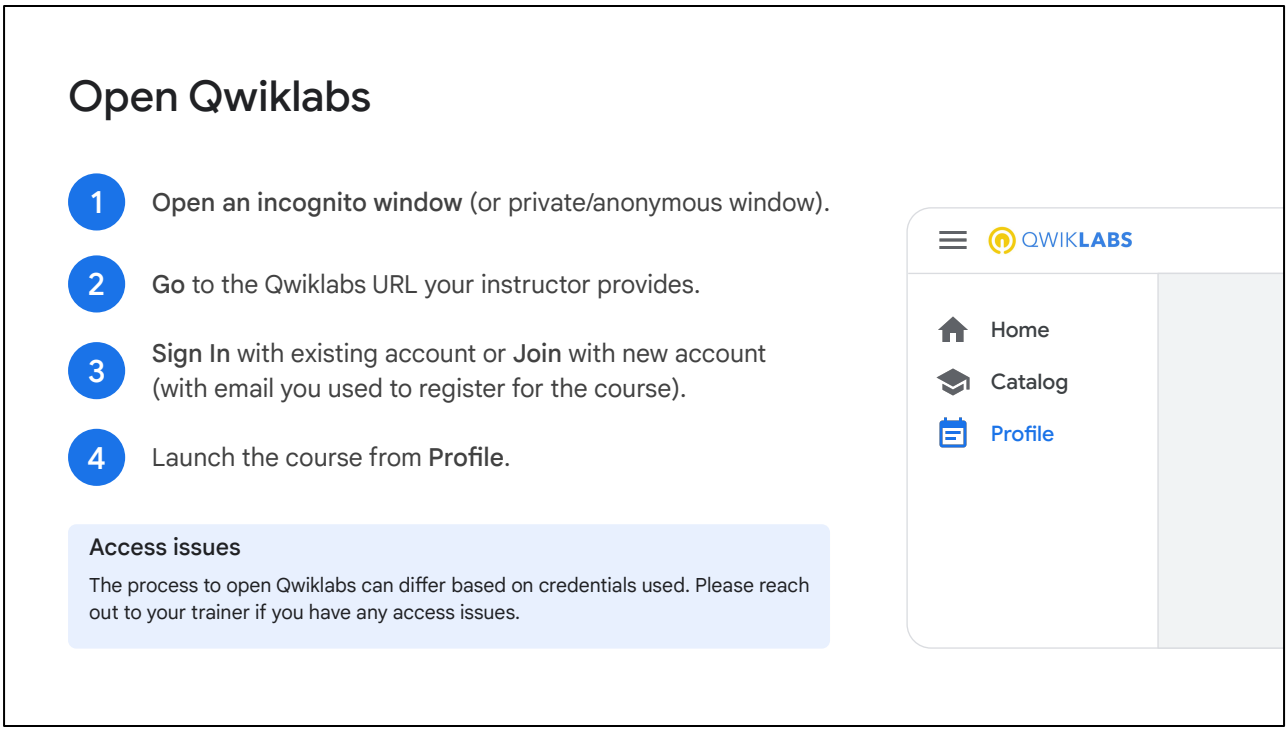
1. Define the business need for infrastructure as code and the benefits of using it in your environment.
2. Explain the features and functionalities of Terraform.
3. Use Terraform resources, variables, and output values to create Google Cloud infrastructure resources.
4. Use Terraform modules to build reusable configuration.
5. Explain Terraform state and its importance.



During each module today we'll be putting what we've learned into practice through hands-on labs. These are run through Google's QwikLabs platform. For each lab, Qwiklabs offers a free set of resources for a fixed amount of time and a clean environment with permissions.

I'll let you know when it's time to launch a lab. Once you start a lab, you won't be able to pause and restart it, so you'll need a continuous block of time to complete the work.

For those of you who aren't familiar with labs, we'll explain more about them when we reach one in the course.



Let's go ahead an open Qwiklabs:

1. **Open an incognito window** (or private/anonymous window). Use of an incognito browser window reduces the risk that you will accidentally do the labs using your own Google Cloud account rather than Qwiklabs'.
2. **Go** to the Qwiklabs URL your instructor provides.
3. **Sign** In with existing account or **Join** with new account (with email you used to register for the course).
4. Launch the course from **Profile**.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