Google Cloud

GCP Fundamentals: Core Infrastructure

Welcome

Facilities

Parking

Facilities

Food

Google Cloud

Course etiquette

Please silence your phone and take calls outside.

Recording this class is prohibited.

Ask questions interactively or via chat (online).

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Course Objectives

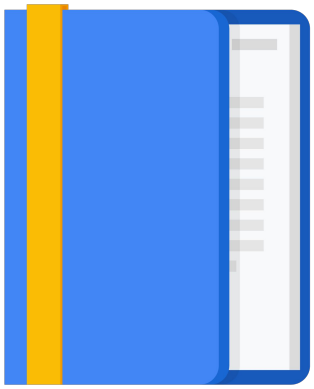
Identify the purpose and value of Google Cloud Platform products and services.

Interact with Google Cloud Platform services.

Use Google Cloud Platform application deployment environments.

Use Google Cloud Platform storage options.

Do automated deployment, monitoring, and data analysis on Google Cloud Platform.



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This 1 day instructor-led class provides an overview of Google Cloud Platform. Through a combination of presentations and hands-on labs, participants learn the value of Google Cloud Platform and how cloud solutions factor into business strategies.
The intended target audience consists of solutions developers, systems operations professionals, and solution architects planning to deploy applications and create application environments on Google Cloud Platform. The course will also help business decision makers evaluating Google Cloud Platform.
The course has no prerequisites, although familiarity with application development, Linux operating systems, systems operations, and data analytics/machine learning is helpful in understanding the technologies covered.

What's next in the Cloud Infrastructure track?

Cloud Infrastructure

This track is designed for IT professionals who are responsible for implementing, deploying, migrating, and maintaining applications in the cloud.

1. Google Cloud Platform Fundamentals: Core Infrastructure
2. Architecting with Google Cloud Platform: Infrastructure
3. Architecting with Google Cloud Platform: Design and Process

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What's next in the Application Development track?

Application Development

This track is designed for application programmers and software engineers who develop software programs in the cloud.

1. Google Cloud Platform Fundamentals: Core Infrastructure
2. Developing Applications with Google Cloud Platform

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Introductions

Your instructor

- Organization
- Background
- Course goals

You

- Name
- Organization
- Job role
- Course goals

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Audience and prerequisites

Target audiences

- Developers, DevOps and SysOps professionals, and solution architects planning to deploy applications and environments on GCP
- Decision-makers evaluating GCP

Prerequisites and pre-work

None (although familiarity with Linux is helpful, as well as with the technologies covered)

Agenda

Module		Lab
1	**Introducing Google Cloud Platform**	
2	**Getting Started with Google Cloud Platform**	Getting Started with Cloud Marketplace
3	**Virtual Machines in the Cloud**	Create virtual machines and connect between them
4	**Storage in the Cloud**	Use Google Cloud Storage and Google Cloud SQL

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Notes:

½ day each

Agenda

Module		Lab
5	**Containers in the Cloud**	Launch a containerized application
6	**Applications in the Cloud**	Explore and launch a custom application
7	**Development, Deployment, and Monitoring in the Cloud**	Use Google Cloud Deployment Manager and Stackdriver
8	**Big Data and Machine Learning in the Cloud**	Use BigQuery
9	**Summary and Review**	

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Notes:

½ day each

Lab Access

What you get

For each lab, Qwiklabs offers:

- A set of resources for a fixed amount of time at no additional charge
- A clean environment with permissions

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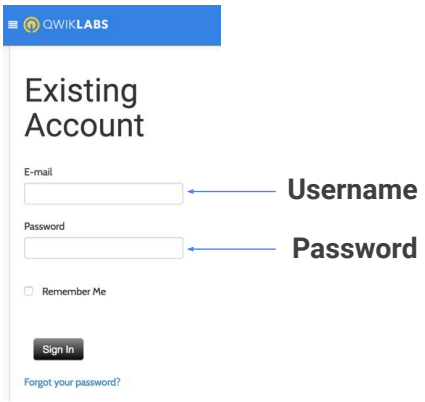
Open Qwiklabs

1. **Open an incognito window** (or private/anonymous window).
2. **Go** to the Qwiklabs URL your instructor provides.
3. **Sign in** (with credentials you used to register for the course) and launch the course.



This account may be different than your Gmail/G Suite account

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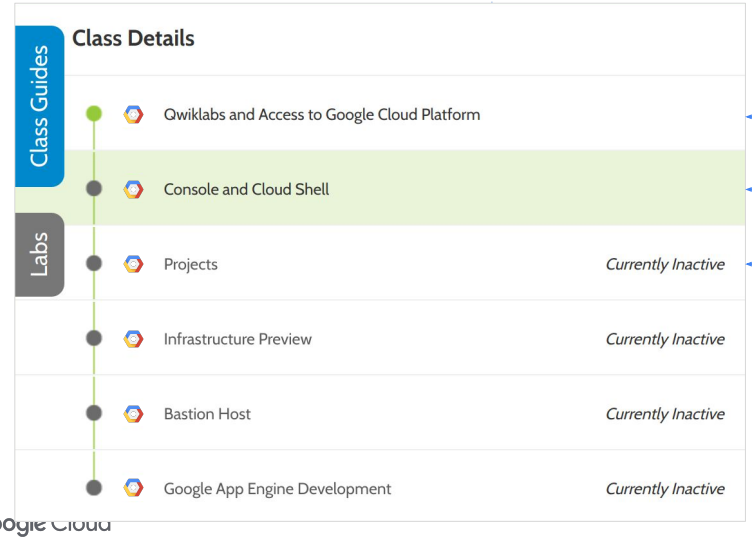
View your labs



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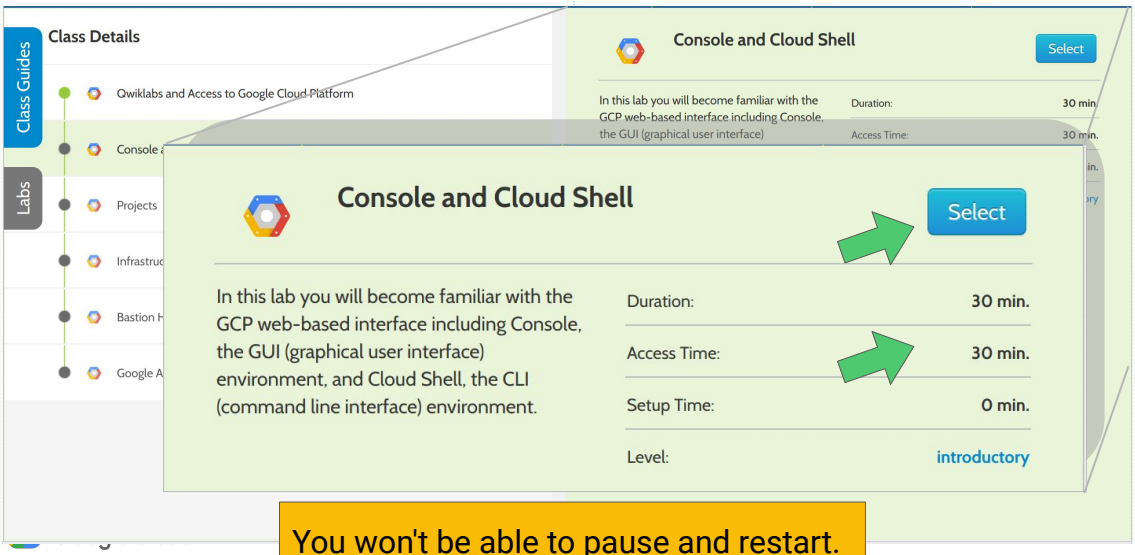
Select a lab



You won't be able to pause and restart.

Run a lab

1. Click Start Lab.
2. Note the username and password.
3. Click Open Google Console and sign in with these credentials.
4. Accept the terms and note the project ID.

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End a lab

1. Sign out of the GCP console.
2. Close the tab.
3. Click End in Qwiklabs to free your resources.

Some labs may require you to NOT end the lab

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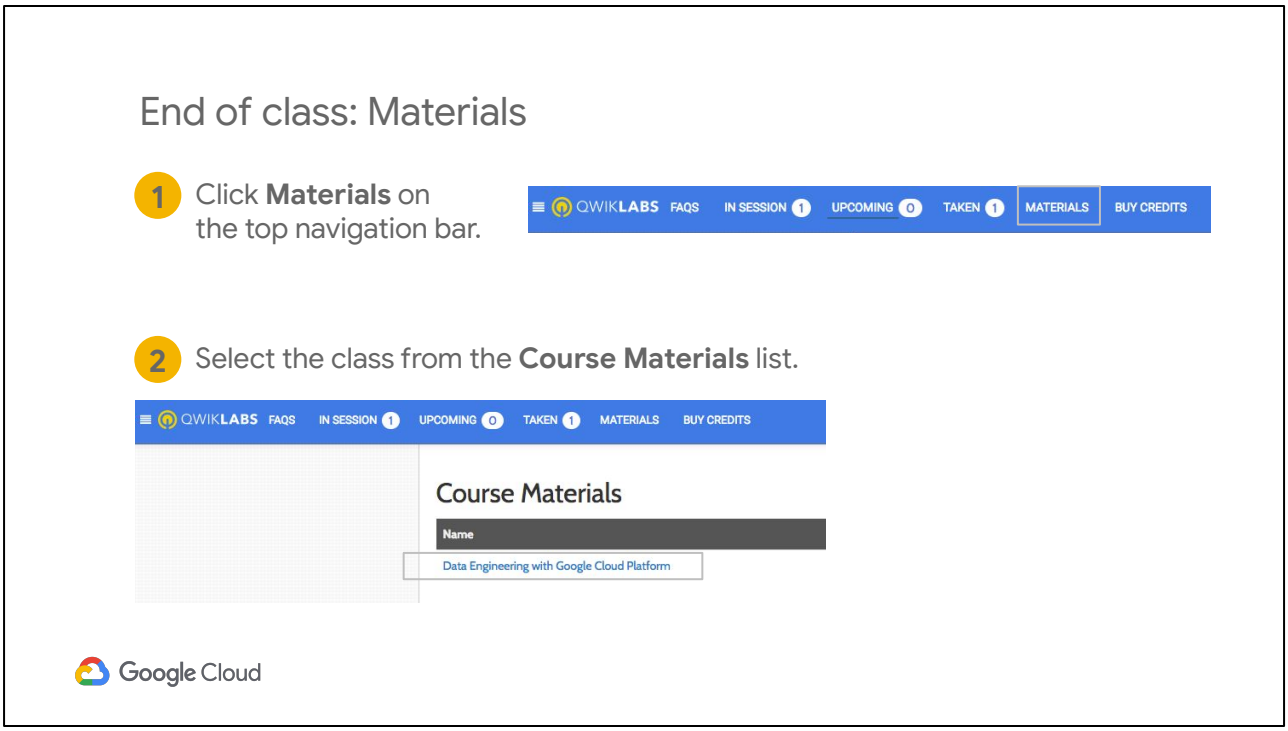

(1) Available for 2 years following the completion of a course.
(2) Labs currently available for reference. May not work outside of Qwiklabs environment. No support provided. Qwiklabs lab time not currently available for sale separate from the class.
(3) class material will appear only at the end of class, provided the student has completed at least one lab in the course.