



Google Cloud Fundamentals: Core Infrastructure

Welcome

Facilities



Parking



Facilities



Food

Course etiquette



Please silence
your phone and
take calls outside.



Recording
this class
is prohibited.



Ask questions
interactively or
via chat (online).



Course Objectives

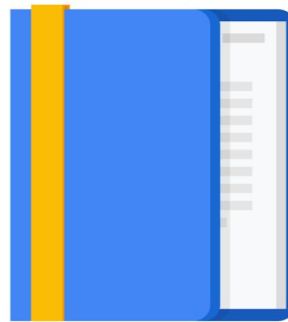
Identify the purpose and value of
Google Cloud products and services.

Interact with Google Cloud services.

Use Google Cloud application
deployment environments.

Use Google Cloud storage options.

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




This 1 day instructor-led class provides an overview of Google Cloud. Through a combination of presentations and hands-on labs, participants learn the value of Google Cloud 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. The course will also help business decision makers evaluating Google Cloud.

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 Fundamentals: Core Infrastructure
- 2 Architecting with Google Compute Engine
- 3 Architecting with Google Kubernetes Engine



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 Fundamentals: Core Infrastructure
- 2 Developing Applications with Google Cloud



Introductions

Your instructor

- Organization
- Background
- Course goals

You

- Name
- Organization
- Job role
- Course goals



Audience and prerequisites

Target audiences

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

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	
2 Getting Started with Google Cloud	Getting Started with Cloud Marketplace
3 Virtual Machines in the Cloud	Getting Started with Compute Engine
4 Storage in the Cloud	Getting Started with Cloud Storage and Cloud SQL
5 Containers in the Cloud	Getting Started with Google Kubernetes Engine



Notes:

½ day each

Agenda

Module	Lab
6 Applications in the Cloud	Getting Started with App Engine
7 Developing, Deploying, and Monitoring in the Cloud	Getting Started with Deployment Manager and Cloud Monitoring
8 Big Data and Machine Learning in the Cloud	Getting Started with BigQuery
9 Summary and Review	



Notes:

½ day each



Lab environment

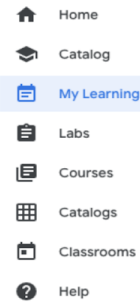
For each lab, Qwiklabs offers:

- A free set of resources for a fixed amount of time
- A clean environment with permissions



Open Qwiklabs

- 1 **Open an incognito window** (or private/anonymous window).
- 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 My Learning.**



View your labs

Labs		Lecture Notes
✓	Console and Cloud Shell v1.5	
○	Infrastructure Preview v1.5	
⚠	Virtual Networking v1.5	Lab Currently Disabled
⚠	Bastion Host v1.5	Lab Currently Disabled

- ← Lab Completed
- ← Active Lab
- ← Not yet available

Do NOT launch a lab until instructed to do so!



View lecture notes

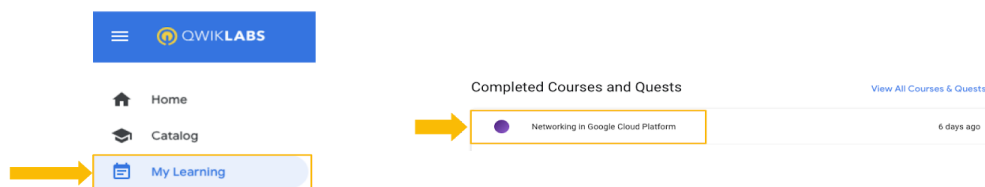
Labs	Lecture Notes
00 Course Intro	
01 Introduction to GCP	
02 Virtual Networks	
03 Virtual Machines	
04 Cloud IAM	



End of class: Materials

1 Click on **My Learning** in the left navigation pane.

2 Select the class from the **Completed Courses** list.



Materials are available for 2 years



