Welcome to Google Cloud Platform Fundamentals: Core Infrastructure

Who should take this course?

This course is aimed at IT professionals who are tasked with building and managing solutions in the cloud. If you are a system administrator, system operator, cloud solution architect, or software developer (or want to become one), this course is a great place for you to start.

If you are a data analyst, data engineer, or data scientist (or want to become one), consider starting instead with [Google Cloud Platform Big Data and Machine Learning Fundamentals](https://www.coursera.org/learn/gcp-big-data-ml-fundamentals/home/welcome).

Prerequisites

To succeed in this course, you should be familiar with IT concepts such as operating systems and networks. It also helps to be familiar with the Linux command line, web servers, and text editors. If you do not have these skills, consider starting with the [Google IT Support Professional](https://www.coursera.org/specializations/google-it-support) certificate program available through Coursera.

The hands-on lab activities embedded in the course require the use of a desktop or laptop computer, a recent web browser, and an Internet connection. Auditing the course can be completed with a mobile device, but auditors do not earn a course completion certificate.

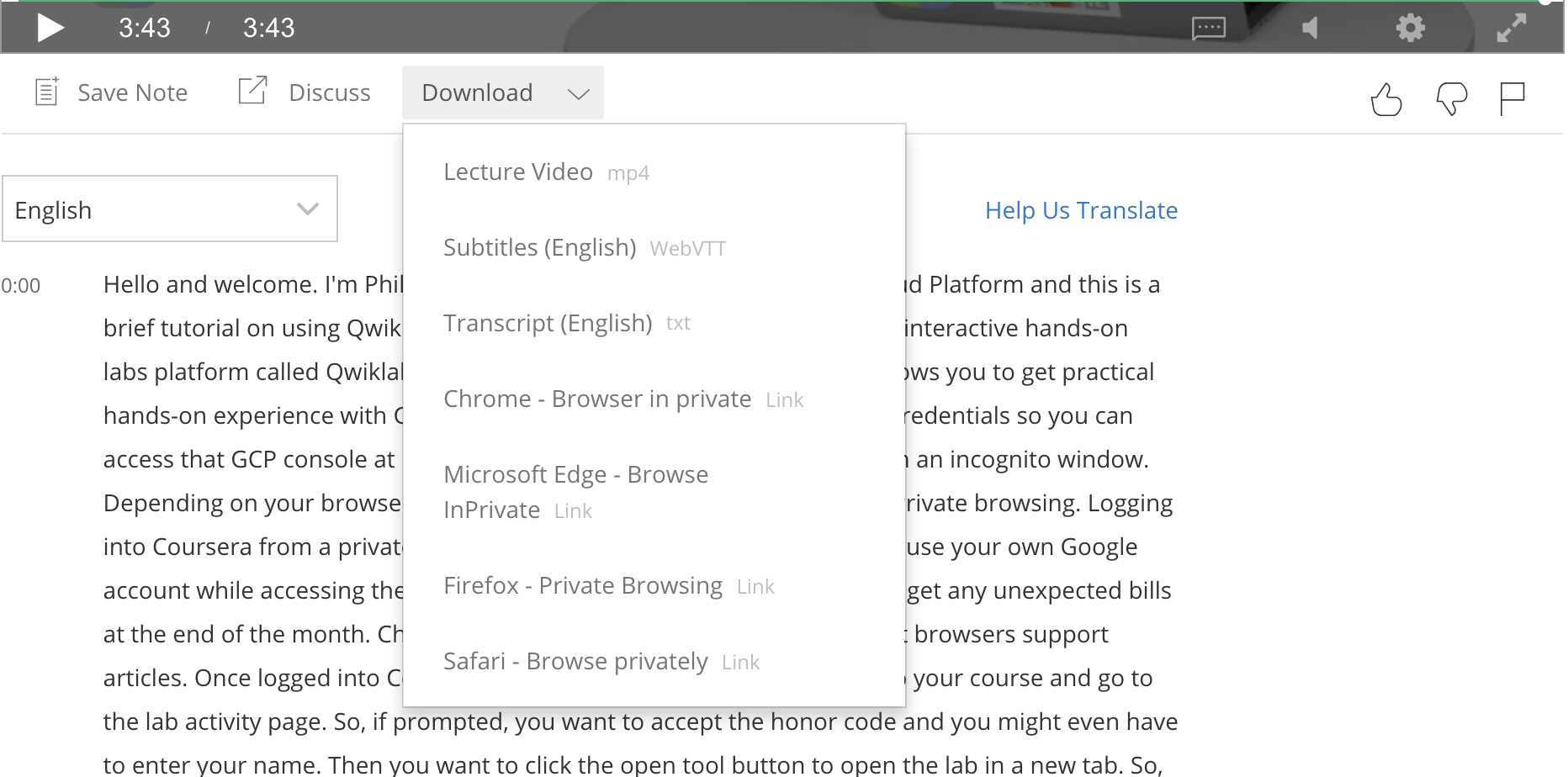
How this course teaches real-world skills

In addition to lectures and quizzes, this course contains hands-on labs in which you perform real-world tasks directly on Google Cloud Platform. Because these hands-on labs are provided to you through Google Cloud's Qwiklabs platform, there is no need for you to provide separate credentials or to incur Google Cloud Platform billing charges. Coursera will log you directly into Qwiklabs when you are ready to do a lab.

This course can be a part of your preparation for a job as a cloud solution architect, a cloud system administrator or operator, a cloud DevOps specialist, or a back-end software developer. Google Cloud Platform offers [professional certifications](https://cloud.google.com/certification/) to let you show the world that you can design, develop, manage and administer application infrastructure and data solutions on Google Cloud technology.

## How to download course resources

We encourage you to check out the downloadable resources for videos. Some of our videos reference external links or files that are available in the Resources section. On video player pages, Coursera has moved Video Resource files and links to the Download dropdown menu alongside video, caption, and transcript downloads. See the screenshot below for an example of the new Download menu.



 Complete

## Getting Started with Cloud Marketplace (formerly Cloud Launcher)

In this lab, you use Cloud Marketplace to quickly and easily deploy a LAMP stack on a Compute Engine instance.

# **Tips for Course Labs**

Get the most out of Coursera and Qwiklabs by trying our tips below.

## Avoid account confusion with private browsing

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4. Close the Qwiklabs browser window or tab.

**Passed** 100%

This course uses a third-party tool, Getting Started with Cloud Marketplace (formerly Cloud Launcher), to enhance your learning experience. The tool will reference basic information like your name, email, and Coursera ID.

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## Getting Started with Compute Engine

In this lab you will create virtual machine (VM) instances and connect to them. You will also connect between both instances.

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## Getting Started with Cloud Storage and Cloud SQL

In this lab you will create a Cloud Storage bucket and place an image in it. You also configure an application running in Compute Engine to use a database managed by Cloud SQL and to reference the image in the Cloud Storage bucket.

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## Qwiklabs – Getting Started with Kubernetes Engine

In this lab you create a Kubernetes Engine cluster containing several containers, each containing a web server. You place a load balancer in front of the cluster and view its contents.

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4. Close the Qwiklabs browser window or tab.

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## Getting Started with App Engine

In this lab you will create a simple App Engine application using the Cloud Shell local development environment and then deploy it to App Engine.

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## Getting Started with Deployment Manager and Stackdriver

In this lab you will create a deployment using Cloud Deployment Manager and use it to maintain a consistent state of your deployment. You will also view resource usage in a VM instance using Google Stackdriver.

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## Getting Started with BigQuery

In this lab you will load server log data into BigQuery and perform SQL queries on it.

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