

Qwiklabs

Getting Started with Cloud Shell and gcloud.

The presentation starts the Qwiklab, works through the Qwiklab and deals with reporting successful completion.

Preuss

3/25/2021

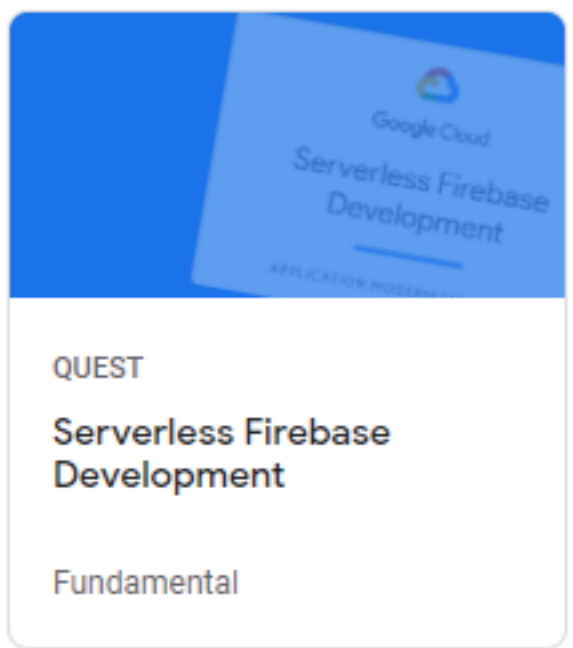
The presentation navigates to the Qwiklab web site.

The presentation selects "Sign in".

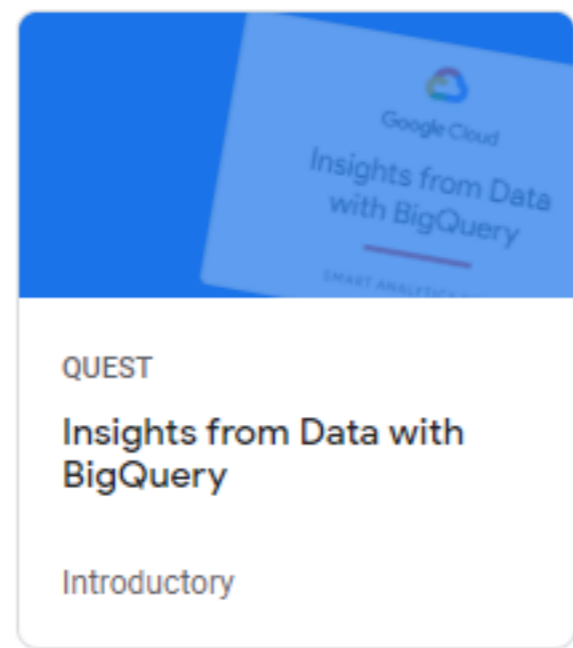
Become a cloud expert with hands-on training.

We give you temporary credentials to Google Cloud Platform and Amazon Web Services to access the cloud using the real thing – no simulations. From 30-minute individual labs to multi-day courses at introductory level to expert, instructor-led or self-paced, with topics like machine learning, security, infrastructure, app dev, and more, we've got you covered.

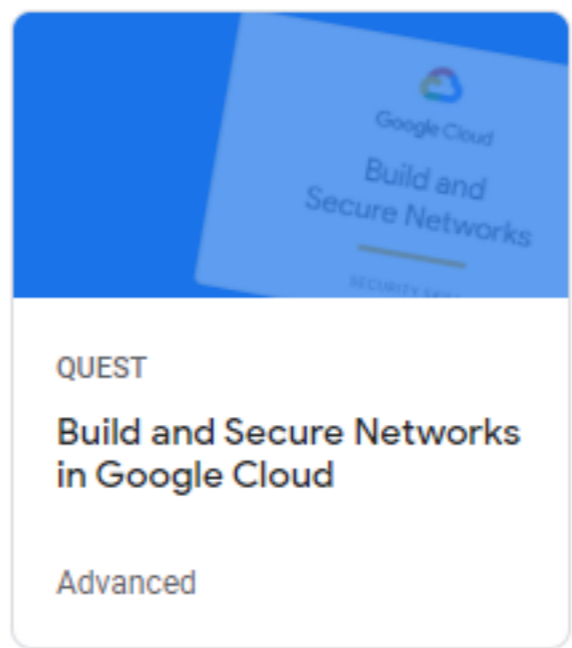
Featured Learning



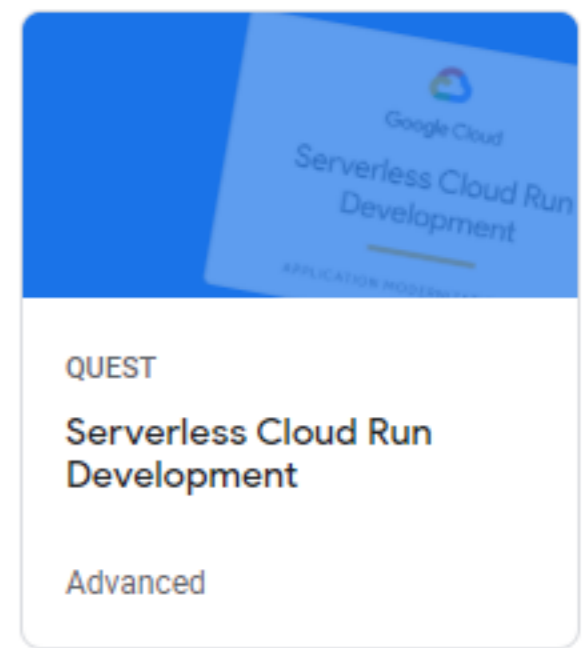
Google Cloud
Serverless Firebase Development
QUEST
Serverless Firebase Development
Fundamental



Google Cloud
Insights from Data with BigQuery
QUEST
Insights from Data with BigQuery
Introductory




Google Cloud
Build and Secure Networks in Google Cloud
QUEST
Build and Secure Networks in Google Cloud
Advanced



Google Cloud
Serverless Cloud Run Development
QUEST
Serverless Cloud Run Development
Advanced



Sign in

 Sign in with Google

or

Email

Password

[Forgot password](#)

Remember me

[Create account](#)

[Sign in](#)

The Qwiklab credits are assigned to your login name. Your login name is your email address the credits were sent.

You may need to create a login/password for Qwiklabs using your email as your login name.

This site is protected by reCAPTCHA and the Google [Privacy Policy](#) and [Terms of Service](#) apply.

- Home
- Catalog
- My Learning

2 results

Quest

Create and Manage Cloud Resources

Earn a skill badge by completing the Create and Manage Cloud Resources quest, where you learn how to do the following: Write gcloud commands and use Cloud Shell, create and deploy virtual machines in Compute Engine, run containerized applications on Google Kubernetes Engine, and configure network and HTTP load bal...

5 hours Introductory 14 Credits On-demand available

Lab

Getting Started with Cloud Shell and gcloud

In this hands-on lab you will learn how to connect to computing resources hosted on Google Cloud Platform via the web. You will also learn how to use Cloud Shell and the Cloud SDK gcloud command. For a preview, watch the short video Get Started with Cloud Shell, GCP Essentials.

★★★★★ 45 minutes Introductory 1 Credit

Filter

Cloud Environment

Format

- Any format
- Hands-On Lab
- Quest
- Course
- External Course
- Certification

The presentation selects the lab to start.



Getting Started with Cloud Shell and gcloud



Start Lab



The presentation reads the material on the screen. Then the presentation selects "Start Lab" to begin.

- Student Resources
- Get Started with Cloud Shell Essentials

Getting Started with Cloud Shell and gcloud

-/100

- GSP002
- Overview
- Setup
- Task 1: Configure your environment
- Task 2: Install a new component
- Task 3: Connect to your VM instance with SSH
- Task 4: Use the Home directory
- Test your understanding
- Congratulations!

45 minutes 1 Credit ★★★★★

GSP002

Getting Started with Cloud Shell and gcloud

Start Lab 00:45:00

Getting Started with Cloud Shell

- GSP002
- Overview
- Setup
- Task 1: Configure your environment
- Task 2: Install a new component

-/100

The presentation selects "Launch with 1 Credit". This will use one credit given to the class.



Launch with 1 Credit

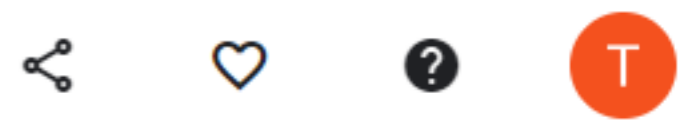
Enter Lab Access Code:

12: 12: 12: 12:

Launch with Access Code

GSP002

Getting Started with Cloud Shell and gcloud



End Lab 00:43:03

Caution: When you are in the console, do not deviate from the lab instructions. Doing so may cause your account to be blocked. [Learn more.](#)

[Open Google Console](#)

Username
student-01-1c1494 Copied!

Password
ngG3Cp2Yh9x

GCP Project ID
qwiklabs-gcp-01-58f6257d

Student Resources
[Get Started with Cloud Shell, GCP Essentials](#)

Cloud Console

1. Click the **Start Lab** button. If you need to pay for the lab, a pop-up opens for you to select your payment method. On the left is a panel populated with the temporary credentials that you must use for this lab.

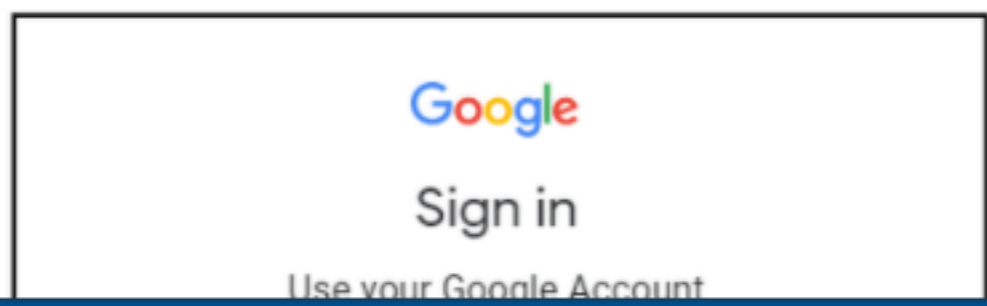
[Open Google Console](#)


The presentation copies the "username" to login to the Google Cloud.










2. Copy the username, and then click **Open Google Console**. The lab spins up resources, and then opens another tab that shows the **Sign in** page.

GSP002 0/100

- Overview
- Setup
- Task 1: Configure your environment
- Task 2: Install a new component
- Task 3: Connect to your VM instance with SSH
- Task 4: Use the Home directory
- Test your understanding
- Congratulations!




Choose an account

	Tim Preuss tim.preuss02@gmail.com	
	student 6053e102 student-02-a18c64847881@qwiklabs.net	Signed out
	student cb4fefbd student-00-63344fb08a97@qwiklabs.net	Signed out
	@qwiklabs.net	Signed out
	@qwiklabs.net	Signed out
	@qwiklabs.net	Signed out
	@qwiklabs.net	Signed out
	student-02-74a8cd...20@qwiklabs.net	Signed out
	Use another account	

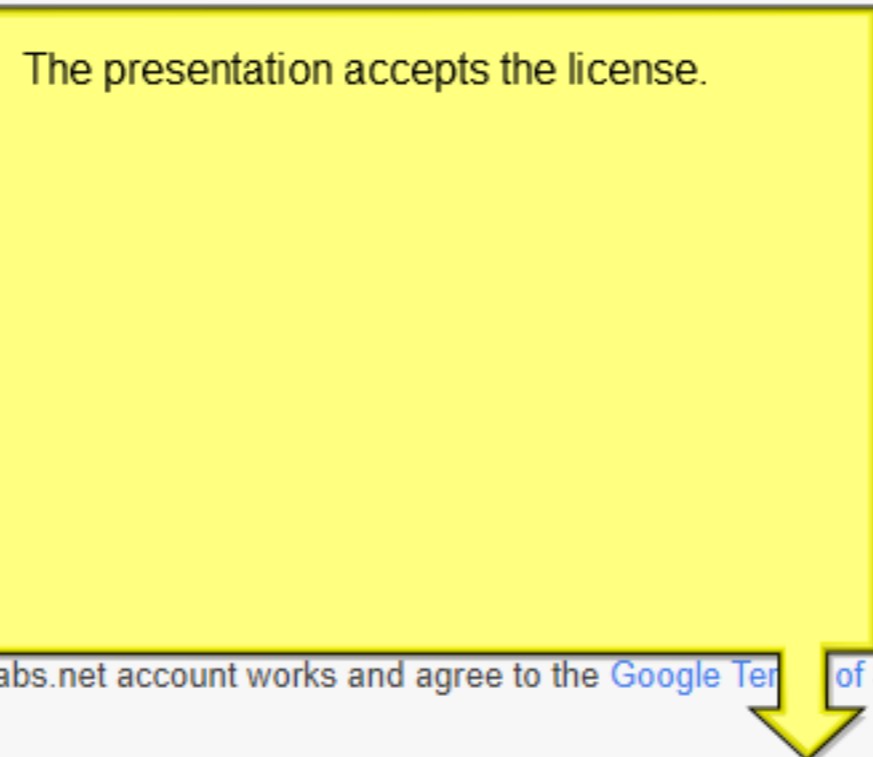
Each time the presentation starts a Qwiklab, the presentation selects "Use another account" to enter the Google Cloud.



Welcome to your new account

Welcome to your new account: student-01-1c149479a8a8@qwiklabs.net. Your account is compatible with many [Google services](#), but your qwiklabs.net administrator decides which services you may access using your account. For tips about using your new account, visit the [Google Help Center](#).

When you use Google 1c149479a8a8@qwiklabs.net with this account in Google services. You agree to our privacy policy, if one exists. You can choose to use any Google services, including email. If you have an existing account you use with Google services and services, your use of those other Google services help you ensure that your use of those other Google services



If your organization provides services is governed by your administrator and the [Google Terms of Service](#) and the [Google Terms of Service](#). Your use of any applicable service-specific

Click "Accept" below to activate your student-01-1c149479a8a8@qwiklabs.net account works and agree to the [Google Terms of Service](#) and the [Google Privacy Policy](#).

Accept



Protect your account

student-01-1c149479a8a8@qwiklabs.net



The presentation selects "confirm" to continue.

God
or if
Rec
No
Rec
No

UPDATE

CONFIRM



- Home
- Marketplace
- Billing
- APIs & Services
- Support
- IAM & Admin
- Getting started
- Compliance
- Security
- Anthos
- COMPUTE
- App Engine
- Compute Engine
- Kubernetes Engine
- Cloud Functions
- Cloud Run
- VMware Engine

DASHBOARD ACTIVITY RECOMMENDATIONS

The presentation verifies the country and accepts "Terms of Service". The presentation selects "Agree and Continue".

Country
United States

Terms of Service
 I agree to the [Google Cloud Platform Terms of Service](#), and the terms of service of [any applicable services and APIs](#).

AGREE AND CONTINUE

DISMISS

Google Cloud Platform
All services normal
Go to Cloud status dashboard

Billing
Estimated charges
For the billing period Mar 1 - 2
Take a tour of billing
View detailed charges

Monitoring
Create my dashboard
Set up alerting policies
Create uptime checks
View all dashboards

- Home
- Marketplace
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- IAM & Admin
- Getting started
- Compliance
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- Kubernetes Engine
- Cloud Functions
- Cloud Run
- VMware Engine

DASHBOARD | ACTIVITY | RECOMMENDATIONS

How Google Cloud is helping during the COVID-19 pandemic

Project info

- Project name: qwiklabs-gcp-01-58f6257d1ed5
- Project ID: qwiklabs-gcp-01-58f6257d1ed5
- Project number: 44715694

project settings

Resources

APIs & Services

Google Cloud Platform

Services normal


Cloud status dashboard

Billing

- Estimated charges
- For the billing period Mar 1 - 2
- Take a tour of billing


No data is available for the selected time frame.

The directions told the presentation to start gshell by selecting this icon.

 **Cloud Shell**

Manage your infrastructure and develop your applications from any browser with Cloud Shell.

Cloud Shell comes with Cloud SDK gcloud, Cloud Code, an online Code Editor and other utilities pre-installed, fully authenticated and up-to-date. [Learn more](#)

 Cloud Shell is free for all users.

[Continue](#)

- Home
- Marketplace
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- APIs & Services
- Support
- IAM & Admin
- Getting started
- Compliance
- Security
- Anthos
- COMPUTE
- App Engine
- Compute Engine
- Kubernetes Engine
- Cloud Functions
- Cloud Run
- VMware Engine

- Dashboard
- Activity
- Recommendations

ACTIVITY

RECOMMENDATIONS

Project info

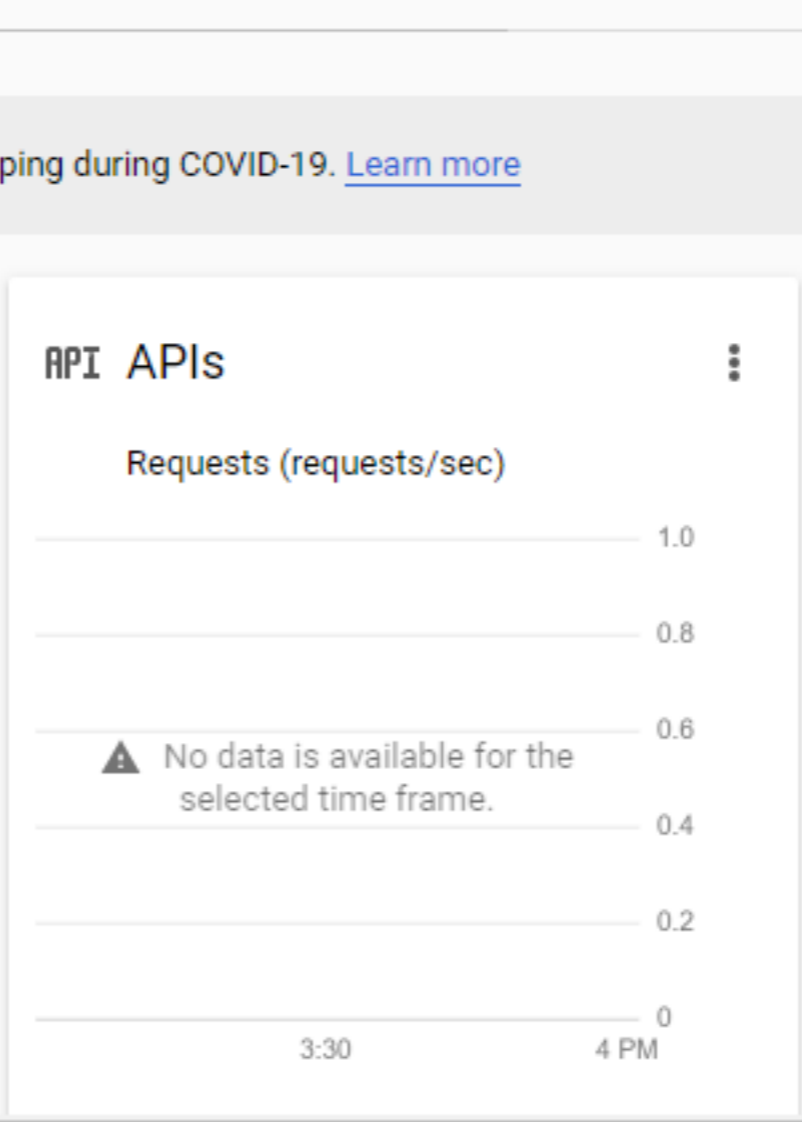
Project name
qwiklabs-gcp-01-58f6257d1ed5

Project ID
qwiklabs-gcp-01-58f6257d1ed5

Project number
44715694

project settings

resources



Google Cloud Platform

All services normal

Go to Cloud status dashboard

Billing

Estimated charges
For the billing period Mar 1 - 2

Take a tour of billing

```
CLOUD SHELL
Terminal (qwiklabs-... x) + Open Editor
Welcome to Cloud Shell! Type "help" to get started.
Your Cloud Platform project in this session is set to qwiklabs-gcp-01-58f6257d1ed5.
Use "gcloud config set project [PROJECT_ID]" to change to a different project.
student_01_1c149479a8a8@cloudshell:~ (qwiklabs-gcp-01-58f6257d1ed5) $ gcloud auth list
Credentialed Accounts
ACTIVE ACCOUNT
* student-01-1c149479a8a8@qwiklabs.net
To set the active account, run:
$ gcloud config set account `ACCOUNT`
student_01_1c149479a8a8@cloudshell:~ (qwiklabs-gcp-01-58f6257d1ed5) $
```

- Home
- Marketplace
- Billing
- APIs & Services
- Support
- IAM & Admin
- Getting started
- Compliance
- Security
- Anthos
- COMPUTE
- App Engine
- Compute Engine
- Kubernetes Engine
- Cloud Functions
- Cloud Run
- VMware Engine

- Dashboard
- Activity
- Recommendations

Project info

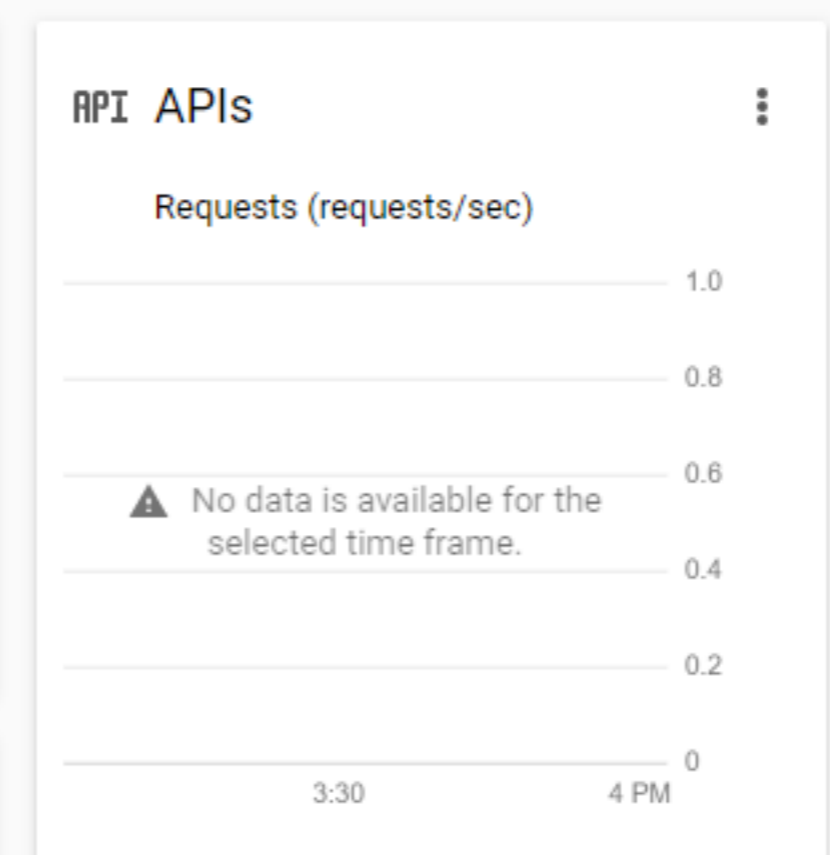
Project name
qwiklabs-gcp-01-58f6257d1ed5

Project ID
qwiklabs-gcp-01-58f6257d1ed5

Project number
44715694

project settings

Resources



Google Cloud Platform

All services normal

Go to Cloud status dashboard

Billing

Estimated charges
For the billing period Mar 1 - 2

Take a tour of billing

```
student_01_1c149479a8a8@cloudshell:~ (qwiklabs-gcp-01-58f6257d1ed5) $ gcloud auth list
Credentialed Accounts
ACTIVE ACCOUNT
* student-01-1c149479a8a8@qwiklabs.net

To set the active account, run:
$ gcloud config set account `ACCOUNT`

student_01_1c149479a8a8@cloudshell:~ (qwiklabs-gcp-01-58f6257d1ed5) $ gcloud config list project
[core]
project = qwiklabs-gcp-01-58f6257d1ed5

Your active configuration is: [cloudshell-25911]
student_01_1c149479a8a8@cloudshell:~ (qwiklabs-gcp-01-58f6257d1ed5) $
```

How Google Cloud is helping during COVID-19. [Learn more](#) DISMISS

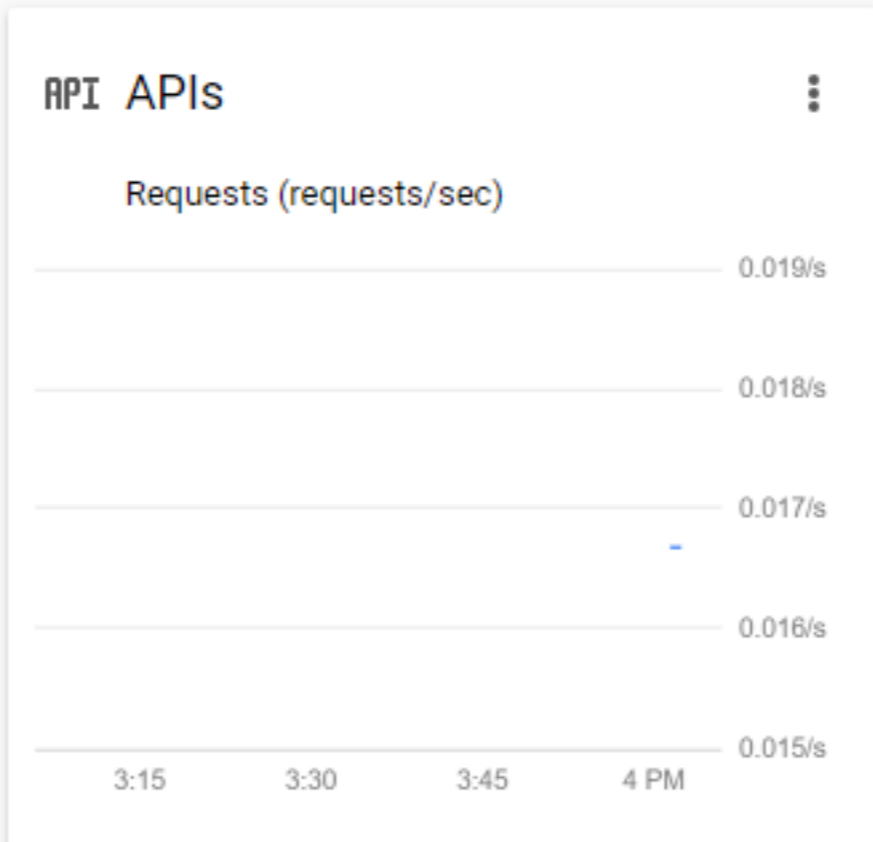
Project info

Project name
qwiklabs-gcp-01-58f6257d1ed5

Project ID
qwiklabs-gcp-01-58f6257d1ed5

Project number
544744715694

[Go to project settings](#)



Google Cloud Platform status

All services normal

[Go to Cloud status dashboard](#)

Resources

Billing

Estimated charges USD \$0.00
For the billing period Mar 1 - 25, 2021

[Take a tour of billing](#)

```
- limit: 10.0
metric: PUBLIC_DELEGATED_PREFIXES
usage: 0.0
- limit: 128.0
metric: STATIC_BYOIP_ADDRESSES
usage: 0.0
- limit: 15.0
metric: INTERNAL_TRAFFIC_DIRECTOR_FORWARDING_RULES
usage: 0.0
selfLink: https://www.googleapis.com/compute/v1/projects/qwiklabs-gcp-01-58f6257d1ed5
xpnProjectStatus: UNSPECIFIED_XPN_PROJECT_STATUS
student_01_1c149479a8a8@cloudshell:~ (qwiklabs-gcp-01-58f6257d1ed5) $ export PROJECT_ID=qwiklabs-gcp-01-58f6257d1ed5
student_01_1c149479a8a8@cloudshell:~ (qwiklabs-gcp-01-58f6257d1ed5) $ export ZONE=qwiklabs-gcp-01-58f6257d1ed5
student_01_1c149479a8a8@cloudshell:~ (qwiklabs-gcp-01-58f6257d1ed5) $
```

How Google Cloud is helping during COVID-19. [Learn more](#) DISMISS

Project info

Project name
qwiklabs-gcp-01-58f6257d1ed5

Project ID
qwiklabs-gcp-01-58f6257d1ed5

API APIs

Requests (requests/sec)

0.06/s

0.05/s

Google Cloud Platform status

All services normal

Go to Cloud status dashboard

The presentation found part of the directions difficult. After running the command "gcloud compute project-info --project <your project>", the presentation needed to find a zone listing. Once the command is run, go up the screen until you find the header "google-compute-zone". Under the header is your zone to copy. The presentation zone is "us-central1-a"

The presentation creates the variable "export ZONE=us-central1-a"

charges USD \$0.00

period Mar 1 - 25, 2021

billing

```
usage: 0.0
selfLink: https://www.googleapis.com/compute/v1/projects/qwiklabs-gcp-01-58f6257d1ed5
xpnProjectStatus: UNSPECIFIED_XPN_PROJECT_STATUS
student_01_1c149479a8a8@cloudshell:~ (qwiklabs-gcp-01-58f6257d1ed5) $ gcloud compute project-info describe --project qwiklabs-gcp-01-58f6257d1ed5 | grep zone
- key: google-compute-default-zone
student_01_1c149479a8a8@cloudshell:~ (qwiklabs-gcp-01-58f6257d1ed5) $ export ZONE=us-central1-a
student_01_1c149479a8a8@cloudshell:~ (qwiklabs-gcp-01-58f6257d1ed5) $ gcloud compute instances create gcelab2 --machine-type n1-standard-2 --zone $ZONE
Created [https://www.googleapis.com/compute/v1/projects/qwiklabs-gcp-01-58f6257d1ed5/zones/us-central1-a/instances/gcelab2].
NAME        ZONE           MACHINE_TYPE  PREEMPTIBLE  INTERNAL_IP  EXTERNAL_IP  STATUS
gcelab2    us-central1-a  n1-standard-2               10.128.0.2   35.222.28.32  RUNNING
student_01_1c149479a8a8@cloudshell:~ (qwiklabs-gcp-01-58f6257d1ed5) $
```

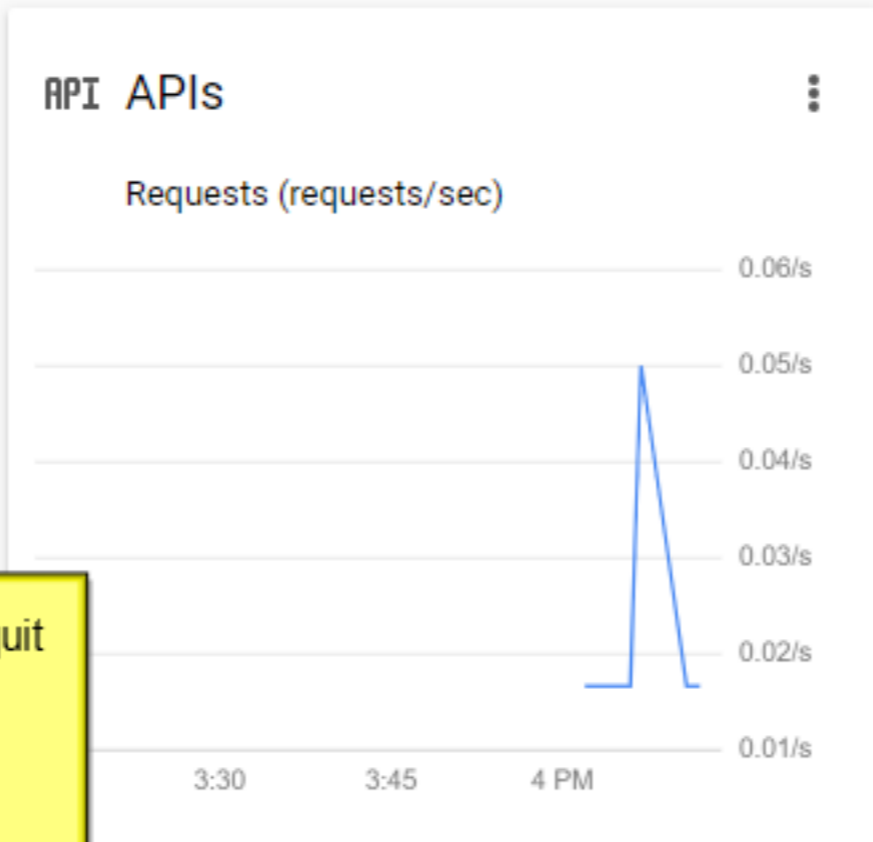

How Google Cloud is helping during COVID-19. [Learn more](#) DISMISS

Project info

Project name
qwiklabs-gcp-01-58f6257d1ed5

Project ID
qwiklabs-gcp-01-58f6257d1ed5

Project number
544744715694



Google Cloud Platform status

All services normal

Go to Cloud status dashboard

Billing

Estimated charges USD \$0.00
For the billing period Mar 1 - 25, 2021

Take a tour of billing

The presentation enters the letter "q" to quit the program displaying text.

```
NAME
gcl...ties

SYNOPSIS
gcl...G ...]

DESCRIPTION
The gcloud config command group lets you view and unset properties
used by Cloud SDK.

A configuration is a set of properties that govern the behavior of gcloud
and other Cloud SDK tools. The initial default configuration is set when
gcloud init is run. You can create additional named configurations using
```

Getting Started with Cloud Shell and gcloud



End Lab 00:23:02

Caution: When you are in the console, do not deviate from the lab instructions. Doing so may cause your account to be blocked. [Learn more.](#)

[Open Google Console](#)

Username
student-01-1c149479a8a8@

Password
ngG3Cp2Yh9x

GCP Project ID
qwiklabs-gcp-01-58f6257d


Student Resources

[Get Started with Cloud Shell, GCP Essentials](#)

Test your understanding

The following multiple-choice question should reinforce your understanding of this lab's concepts.

Three basic ways to interact with Google Cloud services and resources are:



The presentation takes a screen shot showing successful completion of the Qwiklab.

GSP002 100/100

- Overview
- Setup
- Task 1: Configure your environment
- Task 2: Install a new component
- Task 3: Connect to your VM instance with SSH
- Task 4: Use the Home directory
- Test your understanding
- Congratulations!

Getting Started with Cloud Shell

End Lab 00:22:53

Caution: When you are in the console, do not deviate from the lab instructions. Doing so may cause your account to be blocked. [Learn more.](#)

[Open Google Console](#)

Username
student-01-1c149479a8a8@

Password
ngG3Cp2Yh9x

GCP Project ID
qwiklabs-gcp-01-58f6257d

Student Resources

[Get Started with Cloud Shell, GCP Essentials](#)

www.qwiklabs.com says

All done? If you end this lab, you will lose all your work. You may not be able to restart the lab if there is a quota limit. Are you sure you want to end this lab?

OK Cancel

reinforce your understanding of this lab's concepts

The presentation ends the lab.

Client libraries

GStreamer

Submit

GSP002 100/100

Overview

Setup

Task 1: Configure your environment

Task 2: Install a new component

Task 3: Connect to your VM instance with SSH

Task 4: Use the Home directory

Test your understanding

Congratulations!