

AK8S-02 Working with Cloud Build

Objectives

In this lab, you learn how to perform the following tasks:

- Use Cloud Build to build and push containers
- Use Container Registry to store and deploy containers

← AK8S-02 Working with Cloud Build

End Lab

00:43:26

Open Google Console

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.](#)

Username

student-04-7c6292cb9005@

Password

cF3QwR7g2xy

Marketplace

Name	Tags	Uploaded	Vulnerabilities
65c3149d13f	latest	2 minutes ago	...
62f26355f55	-	35 minutes ago	...

Two versions of `quickstart-image` are now in the list.

Click *Check my progress* to verify the objective.

✓

Build two Container images in Cloud Build.

Check my progress

Overview

Objectives

Task 0. Lab Setup

Task 1: Confirm that needed APIs are enabled


Task 2. Building Containers with DockerFile and Cloud Build

Task 3. Building Containers with a build configuration file and Cloud Build

Task 4. Building and Testing Containers with a build configuration file and Cloud Build

End your lab

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6. In the GCP Console, on the **Navigation menu** () , click **Cloud Build > History**.

← AK8S-02 Working with Cloud Build

End Lab

00:39:08

Open Google Console

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.](#)

Username

student-04-7c6292cb9005@

Password


cF3QwR7g2xy

GCP Project ID

qwiklabs-gcp-04-cad575bf

```
Container process caused "EXEC: /bin/zsh: executable file not found in $PATH": unknown "
-----
ERROR: (gcloud.builds.submit) build f3e94c28-fba4-4012-a419-48e98fca7491 completed with status "FAILURE"
```

4. Confirm that your command shell knows that the build failed:

echo \$? 

The command will reply with a non-zero value. If you had embedded this build in a script, your script would be able to act up on the build's failure.

Click *Check my progress* to verify the objective.

✓

Build and Test Containers with a build configuration file and Cloud Build

Check my progress

Overview

Objectives

Task 0. Lab Setup

Task 1: Confirm that needed APIs are enabled

Task 2. Building Containers with DockerFile and Cloud Build

Task 3. Building Containers with a build configuration file and Cloud Build

Task 4. Building and Testing Containers with a build configuration file and Cloud Build

End your lab

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AK8S-03 Creating a GKE Cluster via GCP Console

Objectives

In this lab, you learn how to perform the following tasks:

- Use the GCP Console to build and manipulate GKE clusters
- Use the GCP Console to deploy a Pod
- Use the GCP Console to examine the cluster and Pods

End Lab 00:56:46

Open Google Console

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.](#)

Username
student-03-399f2bcc5fcf@

Password
hpQ2XV5s69Lyh

GCP Project ID
qwiklabs-gcp-03-68c9a495

Kubernetes Engine

Kubernetes clusters

CREATE CLUSTER DEPLOY REFRESH DELETE

A Kubernetes cluster is a managed group of VM instances for running containerized applications. [Learn more](#)

Filter by label or name

Name	Location	Cluster size	Total nodes	Total memory	Notifications	Labels	Connect
standard-cluster-1	us-central1-a	3	3 vCPUs	11.25 GB			

Click *Check my progress* to verify the objective.

Deploy GKE cluster

Check my progress

5. Click the cluster name **standard-cluster-1** to view the cluster details

Google Cloud Platform

qwiklabs-gcp-ddeb083b1672285

Kubernetes Engine

Clusters

EDIT DELETE DEPLOY CONNECT

Clusters

standard-cluster-1

Workloads

Pods

Storage

Networks

Overview

Objectives

Task 0. Lab Setup

Task 1. Deploy GKE clusters

Task 2. Modify GKE clusters

Task 3. Deploy a sample workload

Task 4. View details about workloads in the GCP Console

End your lab

Chat

End Lab 00:42:38

Open Google Console

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.](#)

Username
student-03-399f2bcc5fcf@

Password
hpQ2XV5s69Lyh

GCP Project ID
qwiklabs-gcp-03-68c9a495

No data for this time interval

No data for this time interval

No data for this time interval

Cluster

standard-cluster-1

Networks

default

Labels

app: nginx-1

Logs

Container logs, Audit logs

Replicas

3 updated, 3 ready, 3 available, 0 unavailable

Pod specification

Revision 1, containers: nginx

Active revisions

Revision	Name	Status	Summary	Created on	Pod-running/Pods total
1	nginx-1-ed8a4098d2	OK	nginx service	Dec 14, 2016, 1:05:15 PM	3/3

Click *Check my progress* to verify the objective.

Deploy a sample nginx workload

Check my progress

We're having trouble checking your progress. Try again later.

Overview

Objectives

Task 0. Lab Setup

Task 1. Deploy GKE clusters

Task 2. Modify GKE clusters

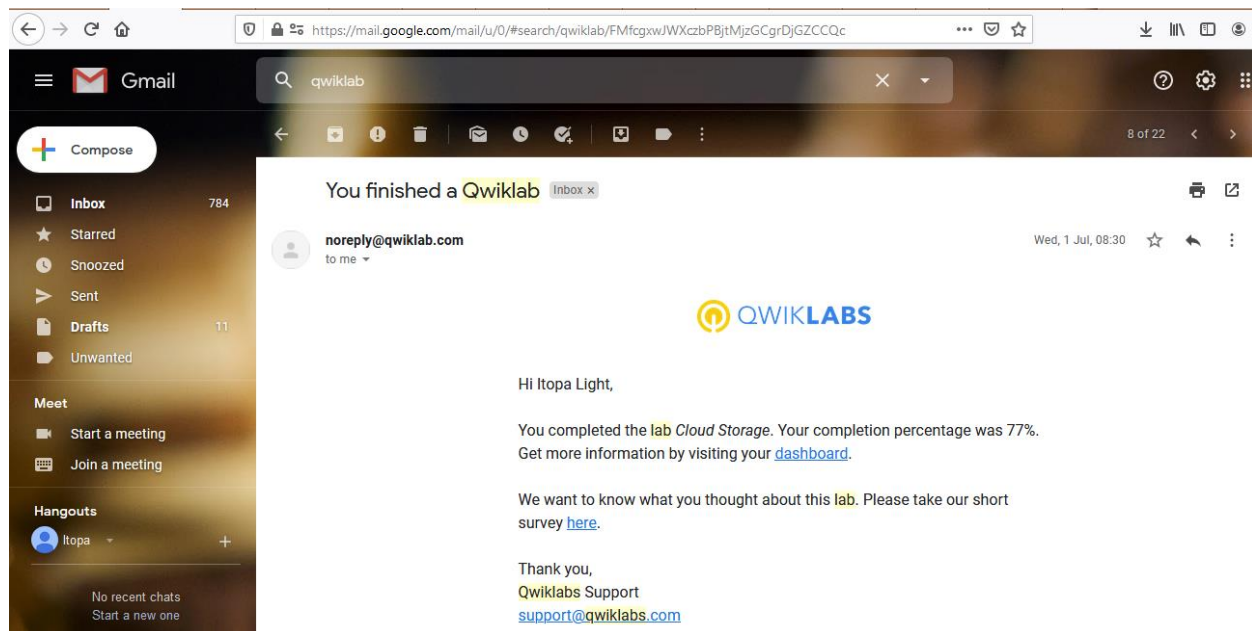
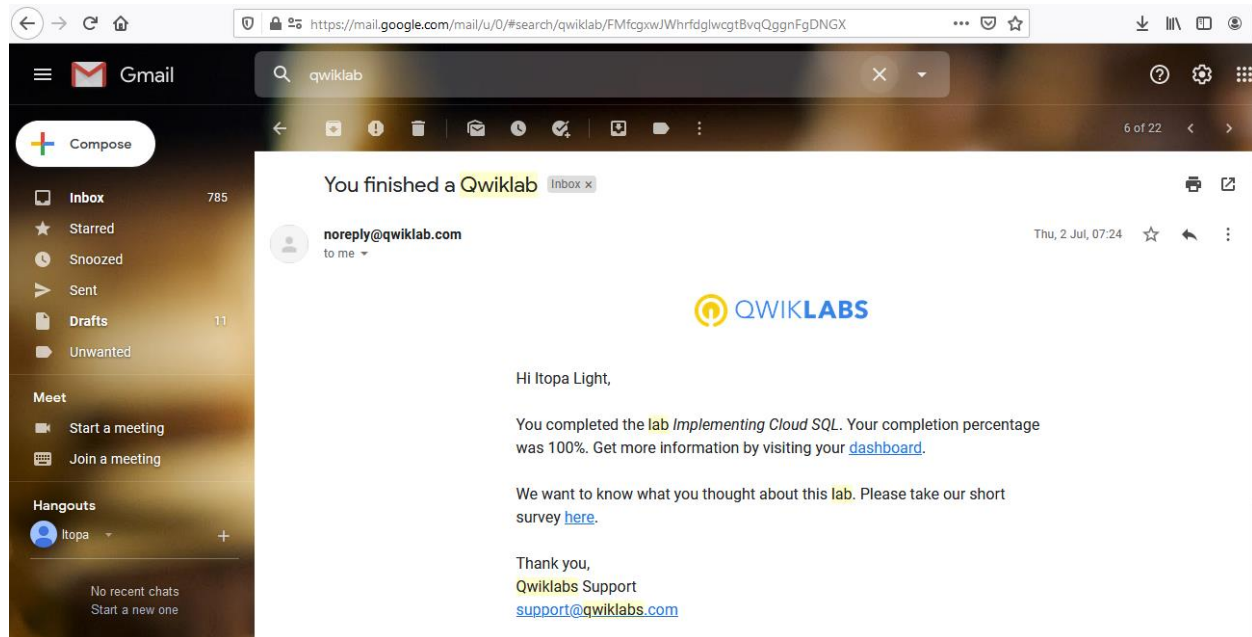
Task 3. Deploy a sample workload

Task 4. View details about workloads in the GCP Console

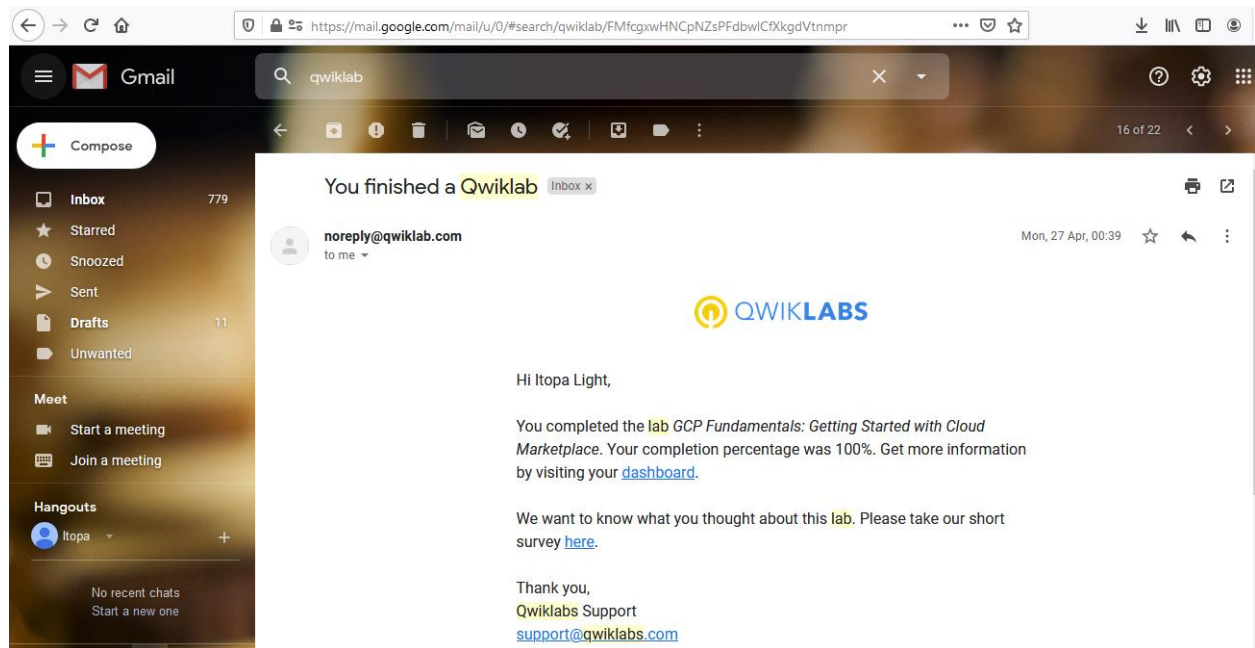
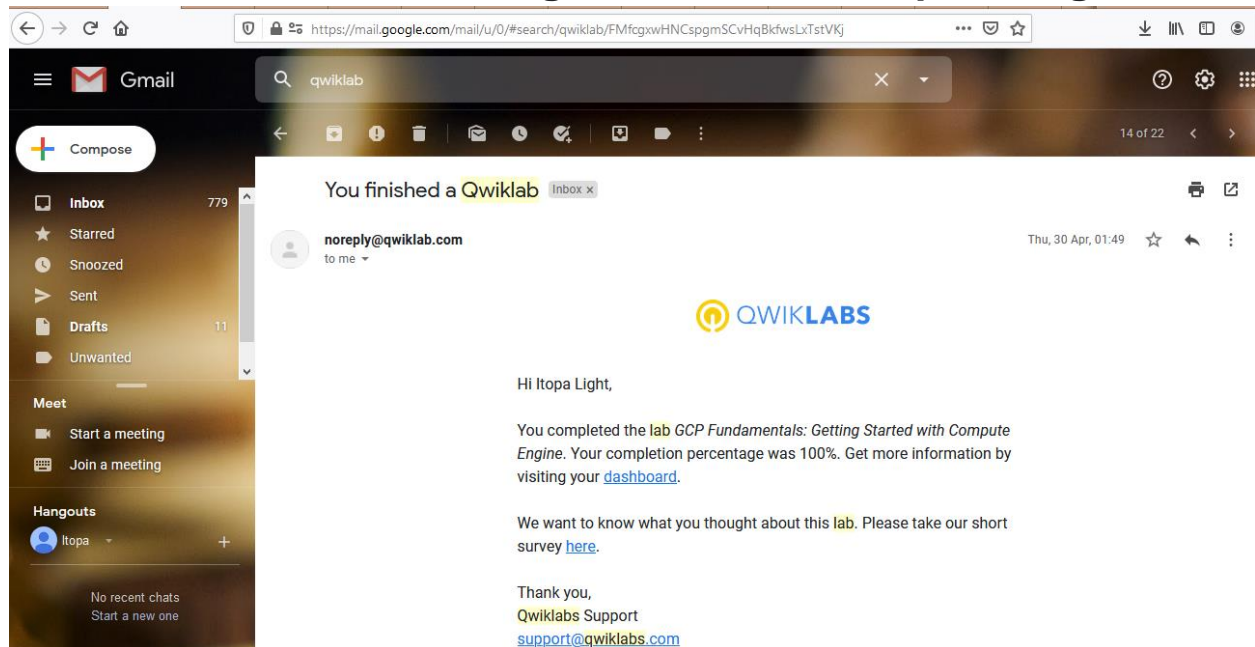
End your lab

Chat

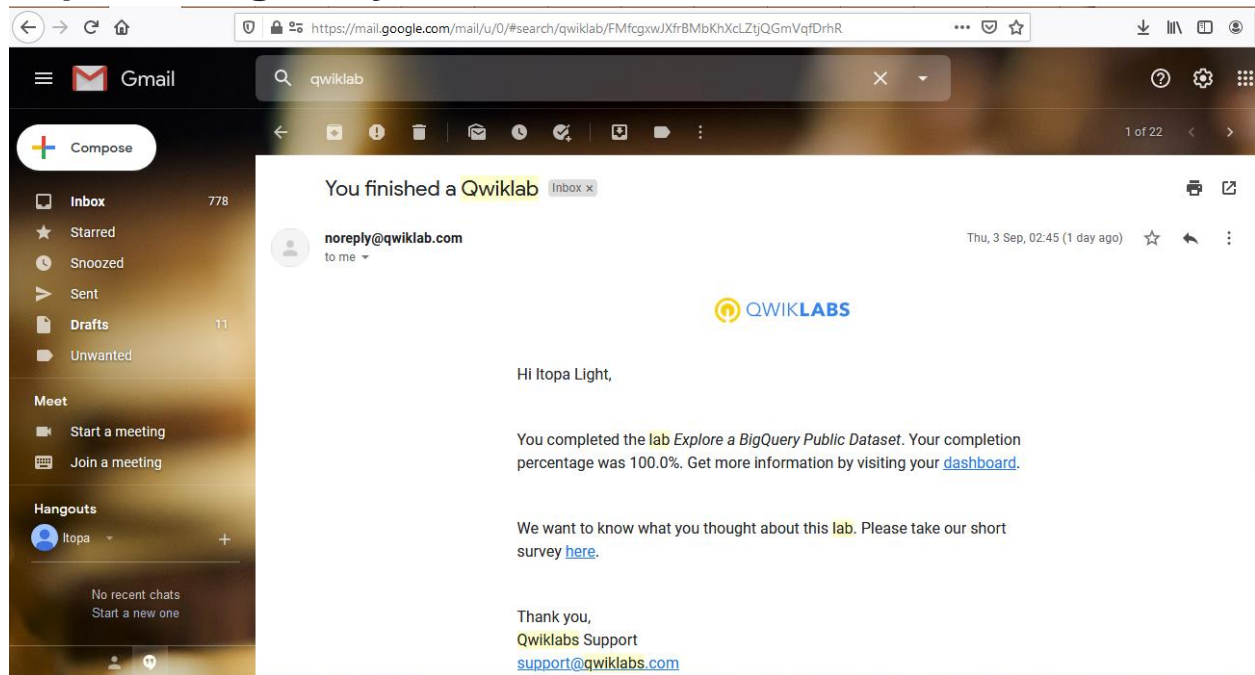
Implementing Cloud SQL



GCP Fundamentals: Getting Started with Compute Engine



Explore a BigQuery Public Dataset



Google Cloud Fundamentals: Getting Started with Cloud Storage and Cloud SQL Objectives

In this lab, you learn how to perform the following tasks:

- Create a Cloud Storage bucket and place an image into it.
- Create a Cloud SQL instance and configure it.
- Connect to the Cloud SQL instance from a web server.
- Use the image in the Cloud Storage bucket on a web page.

← → ↺ googlepluralsight.qwiklabs.com/focusee/23632

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← Google Cloud Fundamentals: Getting Started with Cloud Storage and Cloud SQL

End Lab 00:43:42

Open Google Console

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.](#)

Username student-00-63b7f1b22e000

Password 4TG7DMjjk6

GCP Project ID qwiklabs-gcp-00-9d53d62e

Region us-central1

Zone us-central1-a

Instance can take about two minutes to launch and be fully available for use.

12. On the **VM instances** page, copy the **bloghost** VM instance's internal and external IP addresses to a text editor for use later in this lab.

Click *Check my progress* to verify the objective.

✓

Deploy a web server VM instance

Check my progress

Task 3: Create a Cloud Storage bucket using the gsutil command line

All Cloud Storage bucket names must be globally unique. To ensure that your bucket

Overview

Objectives

Task 1: Sign in to the Google Cloud Platform (GCP) Console

Task 2: Deploy a web server VM instance

Task 3: Create a Cloud Storage bucket using the gsutil command line

Task 4: Create the Cloud SQL instance

Task 5: Configure an application in a Compute Engine instance to use Cloud SQL

Task 6: Configure an application in a Compute Engine instance to use a Cloud Storage object

Congratulations!

End your lab

More resources

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Chat

← → ↺ console.cloud.google.com/compute/instances?project=qwiklabs-gcp-00-9d53d62e9702&instancesize=500&cloudshell=true

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Google Cloud Platform qwiklabs-gcp-00-9d53d62e9702 Search products and resources

Compute Engine

VM instances

Instance groups

Instance templates

Sole-tenant nodes

Filter VM instances

Columns

Name	Zone	Recommendation	In use by	Internal IP	External IP	Connect
bloghost	us-central1-a			10.128.0.2 (nic0)	34.122.163.88	SSH

CLOUD SHELL

Terminal (qwiklabs-gcp-00-9d53d62e9702)

Open Editor

```
Welcome to Cloud Shell! Type "help" to get started.
Your Cloud Platform project in this session is set to qwiklabs-gcp-00-9d53d62e9702.
Use "gcloud config set project [PROJECT_ID]" to change to a different project.
student_00_63b7f1b22e00@cloudshell:~ (qwiklabs-gcp-00-9d53d62e9702) $ export LOCATION=US
student_00_63b7f1b22e00@cloudshell:~ (qwiklabs-gcp-00-9d53d62e9702) $ export DEVSHIELD_PROJECT_ID=qwiklabs-gcp-00-9d53d62e9702
student_00_63b7f1b22e00@cloudshell:~ (qwiklabs-gcp-00-9d53d62e9702) $ gsutil mb -l $LOCATION gs://$DEVSHIELD_PROJECT_ID
Creating gs://qwiklabs-gcp-00-9d53d62e9702/...
student_00_63b7f1b22e00@cloudshell:~ (qwiklabs-gcp-00-9d53d62e9702) $ gsutil cp gs://cloud-training/gcpfci/my-excellent-blog.png my-excellent-blog.png
Copying gs://cloud-training/gcpfci/my-excellent-blog.png...
/ [1 files] [ 8.2 KiB/ 8.2 KiB]
Operation completed over 1 objects/8.2 KiB.
student_00_63b7f1b22e00@cloudshell:~ (qwiklabs-gcp-00-9d53d62e9702) $ gsutil cp my-excellent-blog.png gs://$DEVSHIELD_PROJECT_ID/my-excellent-blog.png
Copying file://my-excellent-blog.png [Content-Type=image/png]...
/ [1 files] [ 8.2 KiB/ 8.2 KiB]
Operation completed over 1 objects/8.2 KiB.
student_00_63b7f1b22e00@cloudshell:~ (qwiklabs-gcp-00-9d53d62e9702) $ gsutil acl ch -u allUsers:R gs://$DEVSHIELD_PROJECT_ID/my-excellent-blog.png
Updated ACL on gs://qwiklabs-gcp-00-9d53d62e9702/my-excellent-blog.png
student_00_63b7f1b22e00@cloudshell:~ (qwiklabs-gcp-00-9d53d62e9702) $
```

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← Google Cloud Fundamentals: Getting Started with Cloud Storage and Cloud SQL

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End Lab

00:38:19

Open Google Console

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Username

student-00-63b7f1b22e00@

Password

4TG7DMj jk6

GCP Project ID

qwiklabs-gcp-00-9d53d62e

Region

us-central1

Zone

us-central1-a

5. Copy the banner image to your newly created Cloud Storage bucket:

```
gsutil cp my-excellent-blog.png gs://$DEVSHHELL_PROJECT_ID/my-excellent-blog.png
```

6. Modify the Access Control List of the object you just created so that it is readable by everyone:

```
gsutil acl ch -u allUsers:R gs://$DEVSHHELL_PROJECT_ID/my-excellent-blog.png
```

Click *Check my progress* to verify the objective.

✓

Create a Cloud Storage bucket using the gsutil command line

Check my progress

Overview

Objectives

Task 1: Sign in to the Google Cloud Platform (GCP) Console

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Task 5: Configure an application in a Compute Engine instance to use Cloud SQL

Task 6: Configure an application in a Compute Engine instance to use a Cloud Storage object

Congratulations!

End your lab

More resources

10/15

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← Google Cloud Fundamentals: Getting Started with Cloud Storage and Cloud SQL

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End Lab

00:27:00

Open Google Console

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.](#)

Username

student-00-63b7f1b22e00@

Password

4TG7DMj jk6

GCP Project ID

qwiklabs-gcp-00-9d53d62e

Region

us-central1

Zone

us-central1-a

35.192.288.2/32

Be sure to use the external IP address of your VM instance followed by /32. Do not use the VM instance's internal IP address. Do not use the sample IP address shown here.

16. Click **Done** to finish defining the authorized network.

17. Click **Save** to save the configuration change.

Click *Check my progress* to verify the objective.

✓

Create the Cloud SQL instance

Check my progress

Overview

Objectives

Task 1: Sign in to the Google Cloud Platform (GCP) Console

Task 2: Deploy a web server VM instance

Task 3: Create a Cloud Storage bucket using the gsutil command line

Task 4: Create the Cloud SQL instance

Task 5: Configure an application in a Compute Engine instance to use Cloud SQL

Task 6: Configure an application in a Compute Engine instance to use a Cloud Storage object

Congratulations!

End your lab

More resources

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