

**Google Cloud Platform Hands-On experience in Google Qwiklab.**

```

@ student-03-15f9581c10ec@lampstack-2-vm: /opt/bitnami - Google Chrome
ssh.cloud.google.com/projects/qwiklabs-gcp-04-d8de77b5f79a/zones/asia-southeast1-a/instances/lampstack-2-vm?authuser=1&hl=en_US&projectNumber=781309834361&nonAdminProxySessionReason=1&troubleshoot4005Enabled=tr...
Connected, host fingerprint: ssh-rsa 0 69:48:35:1A:93:68:C6:F2:D7:9E:74:2D:C2:41
307C1E817E133C5:68:50:18:AC768:CA:A1:36:96:4F05E1CF
Linux lampstack-2-vm 4.19.0-18-cloud-amd64 #1 SMP Debian 4.19.208-1 (2021-09-29)
x86_64

The programs included with the Debian GNU/Linux system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

Debian GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent
permitted by applicable law.

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 | |_|_| _ _ _ _ _

*** Welcome to the LAMP packaged by Bitnami 7.4.27-18 ***
*** Documentation: https://docs.bitnami.com/google/infrastructure/lamp/ ***
*** https://docs.bitnami.com/google/ ***
*** Bitnami Forums: https://community.bitnami.com/ ***
Creating directory /home/student-03-15f9581c10ec'.
student-03-15f9581c10ec@lampstack-2-vm:~$ cd /opt/bitnami
student-03-15f9581c10ec@lampstack-2-vm:~$ cd /opt/bitnami$

@ student-03-15f9581c10ec@lampstack-2-vm: /opt/bitnami - Google Chrome
ssh.cloud.google.com/projects/qwiklabs-gcp-04-d8de77b5f79a/zones/asia-southeast1-a/instances/lampstack-2-vm?authuser=1&hl=en_US&projectNumber=781309834361&nonAdminProxySessionReason=1&troubleshoot4005Enabled=tr...
Connected, host fingerprint: ssh-rsa 0 69:48:35:1A:93:68:C6:F2:D7:9E:74:2D:C2:41
307C1E817E133C5:68:50:18:AC768:CA:A1:36:96:4F05E1CF
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 | |_|_| _ _ _ _ _

*** Welcome to the LAMP packaged by Bitnami 7.4.27-18 ***
*** Documentation: https://docs.bitnami.com/google/infrastructure/lamp/ ***
*** https://docs.bitnami.com/google/ ***
*** Bitnami Forums: https://community.bitnami.com/ ***
Creating directory /home/student-03-15f9581c10ec'.
student-03-15f9581c10ec@lampstack-2-vm:~$ cd /opt/bitnami
student-03-15f9581c10ec@lampstack-2-vm:~$ cd /opt/bitnami$ sudo sh -c 'echo "<?php phpinfo(); ?>" > apac
he2/htdocs/phpinfo.php'
student-03-15f9581c10ec@lampstack-2-vm:~$ cd /opt/bitnami$ exit

```

## PHP Version 7.4.27



System	Linux lampstack-2-vm 4.19.0-18-cloud-amd64 #1 SMP Debian 4.19.208-1 (2021-09-29) x86_64
Build Date	Jan 12 2022 06:26:40
Configure Command	'/bitnami/blacksmith-sandbox/php-7.4.27/configure' '--prefix=/opt/bitnami/php' '--with-imap=/bitnami/blacksmith-sandbox/imap-2007.0.0' '--with-imap-ssl' '--with-zlib-dir' '--with-zlib' '--with-libxml-dir=/usr' '--enable-soap' '--disable-gd' '--enable-inline-optimization' '--with-bz2' '--enable-sockets' '--enable-openssl' '--enable-xml' '--enable-xmlrpc' '--with-pdo-mysql=mysqlnd' '--with-mysql=mysqlnd' '--with-png-dir=/usr' '--with-openssl' '--with-libdir=libx86_64-linux-gnu' '--enable-ftp' '--enable-calendar' '--with-gettext' '--with-xmlrpc' '--with-xsl' '--enable-fpm' '--with-fpm-user=daemon' '--with-fpm-group=daemon' '--enable-mbstring' '--enable-curl' '--enable-curl' '--enable-session' '--enable-mysqlnd' '--enable-intl' '--with-iconv' '--with-pdo_sqlite' '--with-sqlite3' '--with-readline' '--with-gmp' '--with-curl' '--with-pdo-pgsql=shared' '--with-pgsql=shared' '--with-config-file-scan-dir=/opt/bitnami/php/etc/conf.d' '--enable-simplexml' '--with-sodium' '--enable-gd' '--with-pear' '--with-freeze' '--with-jpeg' '--with-welp' '--with-zip' '--with-pdo-dblib=shared' '--with-tidy' '--with-ldap=/usr' '--enable-apcu=shared' 'PKG_CONFIG_PATH=/opt/bitnami/common/lib/pkgconfig'
Server API	FPM/FastCGI
Virtual Directory Support	disabled
Configuration File (php.ini) Path	/opt/bitnami/php/lib
Loaded Configuration File	/opt/bitnami/php/etc/php.ini
Scan this dir for additional .ini files	/opt/bitnami/php/etc/conf.d
Additional .ini files parsed	(none)
PHP API	20190902
PHP Extension	20190902
Zend Extension	320190902
Zend Extension Build	API320190902.NTS
PHP Extension Build	API20190902.NTS
Debug Build	no
Thread Safety	disabled
Zend Signal Handling	enabled
Zend Memory Manager	enabled
Zend Multibyte Support	provided by mbstring
IPv6 Support	enabled
DTrace Support	disabled

## ← Google Cloud Fundamentals: Getting Started with Cloud Marketplace

End Lab 00:00:43

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-03-15f9581c10e

### Password

TUDPJiIIVKGI

### GCP Project ID

qwiklabs-gcp-04-d8de77

### Region

us-central1

### Zone

us-central1-a

Click [Check my progress](#) to verify the objective.



Use Cloud Marketplace to deploy a LAMP stack

[Check my progress](#)

### Checkpoints

Use Cloud Marketplace to deploy a LAMP stack

[Check my progress](#)

10 / 10

## Task 3: Verify your deployment

- When the deployment is complete, click the **Site address** link in the right pane. (If the website is not responding, wait 30 seconds and try again.) If you see a redirection notice, click on that link to view your new site.

Alternatively, you can click **Visit the site** in the **Get started with LAMP Packaged by Bitnami** section of the page. A new browser tab displays a congratulations message. This page confirms that, as part of the LAMP stack, the Apache HTTP Server is running.

- Close the congratulations browser tab.

### LAMP stack

Task 3: Verify your deployment

Congratulations!

End your lab

More resources

VM Instances - Compute Engine

console.cloud.google.com/compute/instances?authuser=2&project=qwiklabs-gcp-04-1f2a96e36275

Google Cloud Platform

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Cloud Shell

Terminal (qwiklabs-gcp-04-1f2a96e36275)

Welcome to Cloud Shell! Type "help" to get started.

Your Cloud Platform project in this session is set to **qwiklabs-gcp-04-1f2a96e36275**.

Use "gcloud config set project [PROJECT\_ID]" to change to a different project.

student\_02\_4c1d833ba844@cloudshell:~ (qwiklabs-gcp-04-1f2a96e36275) \$ export MY\_ZONE=us-central1-a

student\_02\_4c1d833ba844@cloudshell:~ (qwiklabs-gcp-04-1f2a96e36275) \$ gcloud container clusters create webfrontend --zone \$MY\_ZONE --num-nodes 2

WARNING: Starting in January 2021, clusters will use the Regular release channel by default when "--cluster-version", "--release-channel", "--no-enable-autoupgrade", and "--no-enable-autorepair" flags are not specified.

WARNING: Currently VPC-native is the default mode during cluster creation for versions greater than 1.21.0-gke.1500. To create advanced routes based cluster, please pass the "--no-enable-ip-alias" flag.

WARNING: Starting with version 1.18, clusters will have shielded GKE nodes by default.

WARNING: Your Pod address range ("--cluster-ip4-cidr") can accommodate at most 1008 nodes(s).

WARNING: Starting with version 1.19, newly created clusters and node-pools will have COS\_CONTAINERD as the default node image when no image type is specified.

Creating cluster webfrontend in us-central1-a...done.

Created [https://container.googleapis.com/v1/projects/qwiklabs-gcp-04-1f2a96e36275/zones/us-central1-a/clusters/webfrontend].

To inspect the contents of your cluster, go to: [https://console.cloud.google.com/kubernetes/workload/\\_gcloud/us-central1-a/webfrontend?project=qwiklabs-gcp-04-1f2a96e36275](https://console.cloud.google.com/kubernetes/workload/_gcloud/us-central1-a/webfrontend?project=qwiklabs-gcp-04-1f2a96e36275)

kubeconfig entry generated for webfrontend.

NAME: webfrontend

LOCATION: us-central1-a

MASTER\_VERSION: 1.21.5-gke.1302

MASTER\_IP: 35.224.7.233

MACHINE\_TYPE: n2-medium

NODE\_VERSION: 1.21.5-gke.1302

NUM\_NODES: 2

STATUS: RUNNING

student\_02\_4c1d833ba844@cloudshell:~ (qwiklabs-gcp-04-1f2a96e36275) \$ kubectl version

Client Version: version.Info{Major:"1", Minor:"22", GitVersion:"v1.22.4", GitCommit:"7b695d79d4f967c403a9e986f1750a35eb75e75f1", GitTreeState:"clean", BuildDate:"2021-11-17T15:48:33Z", GoVersion:"go1.16.10", Compiler:"gc", Platform:"linux/amd64"}

Server Version: version.Info{Major:"1", Minor:"21", GitVersion:"v1.21.5-gke.1302", GitCommit:"639f3a74abf258418493e9b75f2f9a08da29733", GitTreeState:"clean", BuildDate:"2021-10-21T21:35:40Z", GoVersion:"go1.16.7b7", Compiler:"gc", Platform:"linux/amd64"}

student\_02\_4c1d833ba844@cloudshell:~ (qwiklabs-gcp-04-1f2a96e36275) \$ kubectl create deployment nginx --image=nginx:1.17.10

deployment.apps/nginx created

student\_02\_4c1d833ba844@cloudshell:~ (qwiklabs-gcp-04-1f2a96e36275) \$ kubectl get pods

NAME READY STATUS RESTARTS AGE

nginx-674c77bcb-7t7hj 1/1 Running 0 13s

student\_02\_4c1d833ba844@cloudshell:~ (qwiklabs-gcp-04-1f2a96e36275) \$ kubectl expose deployment nginx --port 80 --type LoadBalancer

VM Instances - Compute Engine

console.cloud.google.com/compute/instances?authuser=2&project=qwiklabs-gcp-04-1f2a96e36275

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Compute Engine

VM instances

CREATE INSTANCE

OPERATIONS

HELP ASSISTANT

HIDE INFO PANEL

Google infrastructure. [Learn more](#)

Filter Enter property name or value

Status	Name	Zone	Connect
<input type="checkbox"/>	gke-webfrontend-default-pool-2576569e-jjxm	us-central1-a	SSH
<input type="checkbox"/>	gke-webfrontend-default-pool-2576569e-p600	us-central1-a	SSH

Select an instance

PERMISSIONS LABELS MONITORING

Please select at least one resource.

Cloud Shell

Terminal (qwiklabs-gcp-04-1f2a96e36275)

NUM\_NODES: 2

STATUS: RUNNING

student\_02\_4c1d833ba844@cloudshell:~ (qwiklabs-gcp-04-1f2a96e36275) \$ kubectl version

Client Version: version.Info{Major:"1", Minor:"22", GitVersion:"v1.22.4", GitCommit:"7b695d79d4f967c403a9e986f1750a35eb75e75f1", GitTreeState:"clean", BuildDate:"2021-11-17T15:48:33Z", GoVersion:"go1.16.10", Compiler:"gc", Platform:"linux/amd64"}

Server Version: version.Info{Major:"1", Minor:"21", GitVersion:"v1.21.5-gke.1302", GitCommit:"639f3a74abf258418493e9b75f2f9a08da29733", GitTreeState:"clean", BuildDate:"2021-10-21T21:35:40Z", GoVersion:"go1.16.7b7", Compiler:"gc", Platform:"linux/amd64"}

student\_02\_4c1d833ba844@cloudshell:~ (qwiklabs-gcp-04-1f2a96e36275) \$ kubectl create deployment nginx --image=nginx:1.17.10

deployment.apps/nginx created

student\_02\_4c1d833ba844@cloudshell:~ (qwiklabs-gcp-04-1f2a96e36275) \$ kubectl get pods

NAME READY STATUS RESTARTS AGE

nginx-674c77bcb-7t7hj 1/1 Running 0 13s

student\_02\_4c1d833ba844@cloudshell:~ (qwiklabs-gcp-04-1f2a96e36275) \$ kubectl expose deployment nginx --port 80 --type LoadBalancer

← Google Cloud Fundamentals: Getting Started with GKE

End Lab

00:20:04

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-02-4c1d833ba84

Password

WvnG8C4f2aXJ

GCP Project ID

qwiklabs-gcp-04-1f2a96

Region

us-central1

Zone

us-central1-a

Click *Check my progress* to verify the objective.

Start a Kubernetes Engine cluster

Check my progress

Checkpoints

Start a Kubernetes Engine cluster

Check my progress

5 / 5

Run and deploy a container

Check my progress

5 / 5

Task 3: Start a Kubernetes Engine cluster

Task 4: Run and deploy a container

Congratulations!

End your lab

Task 4: Run and deploy a container

1. From your Cloud Shell prompt, launch a single instance of the nginx container. (Nginx is a popular web server.)

kubectl create deploy nginx --image=nginx:1.17.10

In Kubernetes, all containers run in pods. This use of the `kubectl create` command caused Kubernetes to create a deployment consisting of a single pod containing the nginx container. A Kubernetes deployment keeps a given number of pods up and running even in the event of failures among the nodes on which they run. In this

**End Lab** 00:19:59

**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-02-4c1d833ba84

**Password**  
Wvng8C4f2aXJ

**GCP Project ID**  
qwiklabs-gcp-04-1f2a96

**Region**  
us-central1

**Zone**  
us-central1-a

## Congratulations!

In this lab, you configured a Kubernetes cluster in Kubernetes Engine. You populated the cluster with several pods containing an application, exposed the application, and ran the application.

## End your lab

When you have completed your lab, click **End Lab**. Qwiklabs removes the resources you've used and cleans the account for you.

You will be given an opportunity to rate the lab experience. Select the applicable number of stars, type a comment, and then click **Submit**.

The number of stars indicates the following:

### Checkpoints

Start a Kubernetes Engine cluster

[Check my progress](#) 5 / 5

Run and deploy a container

[Check my progress](#) 5 / 5

Task 3: Start a Kubernetes Engine cluster

Task 4: Run and deploy a container

Congratulations!

End your lab

console.cloud.google.com/appengine/settings?authuser=4&project=qwiklabs-gcp-02-51618664ca76

Google Cloud Platform **qwiklabs-gcp-02-51618664ca76** Search products and resources

**App Engine** Settings

**APPLICATION SETTINGS** CUSTOM DOMAINS SSL CERTIFICATES EMAIL SENDERS

Google login cookie expiration Default (1 day)

Referrers Google Accounts API

[Edit Application Settings](#)

**Enable application**

This application is disabled. Serving requests has been stopped, but all the data and state have been saved.

[Enable application](#)

**CLOUD SHELL**

Terminal (qwiklabs-gcp-02-51618664ca76) [Open Editor](#)

```
File upload done.
ERROR: (gcloud.app.deploy) NOT_FOUND: Unable to retrieve P48A: [service-412735166350@gcp-gae-service.iam.gserviceaccount.com] from GAIA. Could be GAIA propagation delay or request from deleted apps.
(venv) student_04_52cee3309cb9@cloudshell:~/python-docs-samples/appengine/standard/python3/hello_world (qwiklabs-gcp-02-51618664ca76) $ ^C
(venv) student_04_52cee3309cb9@cloudshell:~/python-docs-samples/appengine/standard/python3/hello_world (qwiklabs-gcp-02-51618664ca76) $ gcloud app browse
Did not detect your browser. Go to this link to view your app:
https://qwiklabs-gcp-02-51618664ca76.uc.r.appspot.com
(venv) student_04_52cee3309cb9@cloudshell:~/python-docs-samples/appengine/standard/python3/hello_world (qwiklabs-gcp-02-51618664ca76) $ ^C
(venv) student_04_52cee3309cb9@cloudshell:~/python-docs-samples/appengine/standard/python3/hello_world (qwiklabs-gcp-02-51618664ca76) $ ^C
(venv) student_04_52cee3309cb9@cloudshell:~/python-docs-samples/appengine/standard/python3/hello_world (qwiklabs-gcp-02-51618664ca76) $ gcloud app browse
Did not detect your browser. Go to this link to view your app:
(venv) student_04_52cee3309cb9@cloudshell:~/python-docs-samples/appengine/standard/python3/hello_world (qwiklabs-gcp-02-51618664ca76) $
```

**Recommended for you**

[Mapping custom domains](#)

Map a custom domain to your app and update DNS records at your domain registrar.

[Securing custom domains with SSL](#)

Serve your app securely, reliably, and quickly with globally-distributed SSL endpoints and built-in load balancing.

[How requests are routed](#)

Understand how HTTP requests from users reach the appropriate version of a service.

[dispatch.yaml configuration file](#)

Override routing rules and send incoming requests to a specific service based on the path or hostname in the URL.

[Using Cloud Storage with App Engine](#)

Need to read/write files during runtime, or serve files such as movies, images, or static content? Try Cloud Storage.

[How requests are handled](#)

Understand how your App Engine app receives requests and sends responses.

[How instances are managed](#)


Understand instance scaling types, how dynamic instances are scaled, and the life-cycle of an instance.

Google Cloud Fundamentals: Ge...

mydeploy.yaml

5/10

When the deployment operation is complete, the **gcloud** command displays a list of the resources named in the template and their current state.

8. Confirm that the deployment was successful. In the GCP Console, on the **Navigation menu** (  ), click **Compute Engine > VM instances**. You will see that a VM instance called **my-vm** has been created, as specified by the template.

9. Click on the VM instance's name to open its VM instance details screen.

10. Scroll down to the **Custom metadata** section. Confirm that the startup script you specified in your Deployment Manager template has been installed.

Click *Check my progress* to verify the objective.

Create a Deployment Manager

Google Cloud Platform

Compute Engine

VM instances


SHOW INFO PANEL

INSTANCES

INSTANCE SCHEDULE

VM instances are highly configurable virtual machines for running workloads on Google infrastructure. [Learn more](#)

Filter Enter property name or value

Status	Name	Zone	Connect
	my-vm	us-central1-a	SSH

This instance is running

CLOUD SHELL

Terminal

(qwiklabs-gcp-03-1575ed9d7cef)

Open Editor

```
- key: replacement_suggestion
  value: A suggested replacement is 'projects/debian-cloud/global/images/debian-9-stretch-v20210122'.
message: The resource 'projects/debian-cloud/global/images/debian-9-stretch-v20210122' is deprecated. A suggested replacement is 'projects/debian-cloud/global/images/debian-9-stretch-v20210122'.

NAME: my-vm
TYPE: compute.v1.instance
STATE: COMPLETED
ERRORS: []
EVENT:
student_02_4e21aa87ff69@cloudshell:~ (qwiklabs-gcp-03-1575ed9d7cef) $
```

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successfully.

10/10

6. In the GCP console, on the **Navigation menu** (  ), click **Compute Engine > VM instances**.

7. Click on the **my-vm** VM instance's name to open its **VM instance details** pane.

8. Scroll down to the **Custom metadata** section. Confirm that the startup script has been updated to the value you declared in your Deployment Manager template.

Click *Check my progress* to verify the objective.

Update the Deployment Manager deployment

Check my progress

Google Cloud Platform

Compute Engine

my-vm

HELP ASSISTANT

DETAILS

OBSERVABILITY

OS INFO

On (Recommended)

Metadata

Value
apt-get update; apt-get install nginx-light -y

ST

CLOUD SHELL

Terminal

(qwiklabs-gcp-03-1575ed9d7cef)

Open Editor

```
student_02_4e21aa87ff69@cloudshell:~ (qwiklabs-gcp-03-1575ed9d7cef) $ nano mydeploy.yaml
student_02_4e21aa87ff69@cloudshell:~ (qwiklabs-gcp-03-1575ed9d7cef) $ gcloud deployment-man
ager deployments update my-first-depl --config mydeploy.yaml
The fingerprint of the deployment is b'7rck10AUDfh1teNC2q9A=='.
Waiting for update [operation-1642234383658-5d59a7d136e13-8627fda2-de59fb8d]...done.
Update operation 1642234383658-5d59a7d136e13-8627fda2-de59fb8d completed success
fully.

NAME: my-vm
TYPE: compute.v1.instance
STATE: COMPLETED
ERRORS: []
EVENT:
student_02_4e21aa87ff69@cloudshell:~ (qwiklabs-gcp-03-1575ed9d7cef) $
```

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VM instances

[Concepts](#)

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[Connecting to instances using advanced methods](#)

[Transferring files to instances](#)

[Managing SSH keys in metadata](#)

[Assigning an external IP address to an existing instance](#)

[Sending email from an instance](#)

Explore tools and APIs:

[gcloud reference](#)

API reference

Explore related services

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[Cloud Logging](#)

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[Google Cloud Storage](#)

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Apps CPU cache - Wikip... Reading list

← Google Cloud Fundamentals: Ge...

2. Select the checkbox for **my-vm** and click on **STOP**.

3. Click on **STOP** again to confirm.

4. Click on the VM instance's name to open its VM instance details screen.

5. Click on **EDIT** (pencil icon).

6. Scroll down to the bottom of the page and select **Compute Engine default service account** from Service account dropdown.

7. Select **Allow full access to all Cloud APIs** for Access scopes.

8. Click on **Save**.

9. Now, restart the VM by clicking on **Start** at the top of the VM instance details screen page.

10. Click on **START** again to confirm.

11. In the GCP Console, on the **Navigation menu** /

← → ↻ console.cloud.google.com/compute/instancesEdit/zones/us-central1-a/instances/my-vm?authuser=5&proj...

Apps CPU cache - Wikip... How to Overlock Y... 32-bit and 64-bit W... 64-bit computing ~... Supplemental Read... Reading list

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Compute Engine VM instance details EDIT RESET

Virtual machines

VM instances

Instance templates

Sole-tenant nodes

Marketplace

Release Notes

SSH Keys

Block project-wide SSH keys

When checked, project-wide SSH keys cannot access this instance. [Learn more](#)

You have 0 SSH keys

Show and edit

Service account

Compute Engine default service account

Access scopes

Allow default access

Allow full access to all Cloud APIs

Set access for each API

Save Cancel

CLOUD SHELL Terminal (qwiklabs-gcp-03-1575ed9d7cef) Open Editor

INVENT:  
student\_02\_4e21aa87ff69@cloudshell:~ (qwiklabs-gcp-03-1575ed9d7cef) \$ nano mydeploy.yaml  
student\_02\_4e21aa87ff69@cloudshell:~ (qwiklabs-gcp-03-1575ed9d7cef) \$ gcloud deployment-manager deployments update my-first-depl -  
--config mydeploy.yaml  
The fingerprint of the deployment is b'7rkcLOAUDFhLiteNCzqD9A=='  
Waiting for update [operation-1642234383658-5d59a7d136e13-8627fda2-de59fb8d]...done.  
Update operation-1642234383658-5d59a7d136e13-8627fda2-de59fb8d completed successfully.  
NAME: my-vm  
TYPE: compute.v1.Instance  
STATUS: Updating instance 'my-vm'...  
ERRC  
INVT  
student\_02\_4e21aa87ff69@cloudshell:~ (qwiklabs-gcp-03-1575ed9d7cef) \$