

Google Cloud

Rania project

kub

Kubernetes Engine

Create a deployment

Containers

Workloads

Services & Ingress

Applications

Secrets and ConfigMaps

Storage

Object Browser

Migrate to Containers

Backup for GKE

Security posture

Config & Policy

Config

Policy

Container

Specify container

Existing container image

New container image

Image path *
nginx:latest

SELECT

Enter your image path or choose from the Google container registry. You can also try to deploy with an official nginx image nginx:latest.

Environment variables

+ ADD ENVIRONMENT VARIABLE

Initial command

Overrides the default endpoint of the container image.

CANCEL DONE

Select container image

CONTAINER REGISTRYARTIFACT REGISTRY

Project: rania-project-375711CHANGE

gcr.io/rania-project-375711/nginx

7fd1b0f925latest15 minutes ago

SELECTCANCEL

Analyser

ation policies

accounts

d Identity Federation

and security

Aware Proxy

gs

ventory

il contacts

resources

notes

VIEW BY PRINCIPALSVIEW BY ROLES

Filter Enter property name or value

Type	Principal	Name	Role	Security insights	Inheritance
<input type="checkbox"/>	813478841366-compute@developer.gserviceaccount.com	Compute Engine default service account	Editor	6399 /6400 excess permissions	
<input type="checkbox"/>	813478841366@cloudbuild.gserviceaccount.com	Cloud Build Service Account			
<input type="checkbox"/>	813478841366@cloudservices.gserviceaccount.com	Google APIs Service Agent	Editor	6386 /6400 excess permissions	
<input type="checkbox"/>	marwaahmed200126@gmail.com	Owner		7236 /7335 excess permissions	
<input checked="" type="checkbox"/>	my-first-serviceaccount@rania-project-375711.iam.gserviceaccount.com	sa	Storage Object Viewer		
<input type="checkbox"/>	rania-project-375711@appspot.gserviceaccount.com	App Engine default service account	Editor		
<input type="checkbox"/>	rania.amoubarakk@gmail.com	Rania Ashraf	Owner	7135 /7335 excess permissions	

Understanding roles

IAM roles that you can grant to identities to access Google Cloud resources.

Manage access to projects, folders, and organizations

Grant, change, and revoke access to project folders, and organizations.

Understanding allow policies

Use allow policies to grant access to Google Cloud resources.

Troubleshoot IAM permissions

Use Policy Troubleshooter to understand what a user has access to a resource.

Test role changes with Policy Simulator

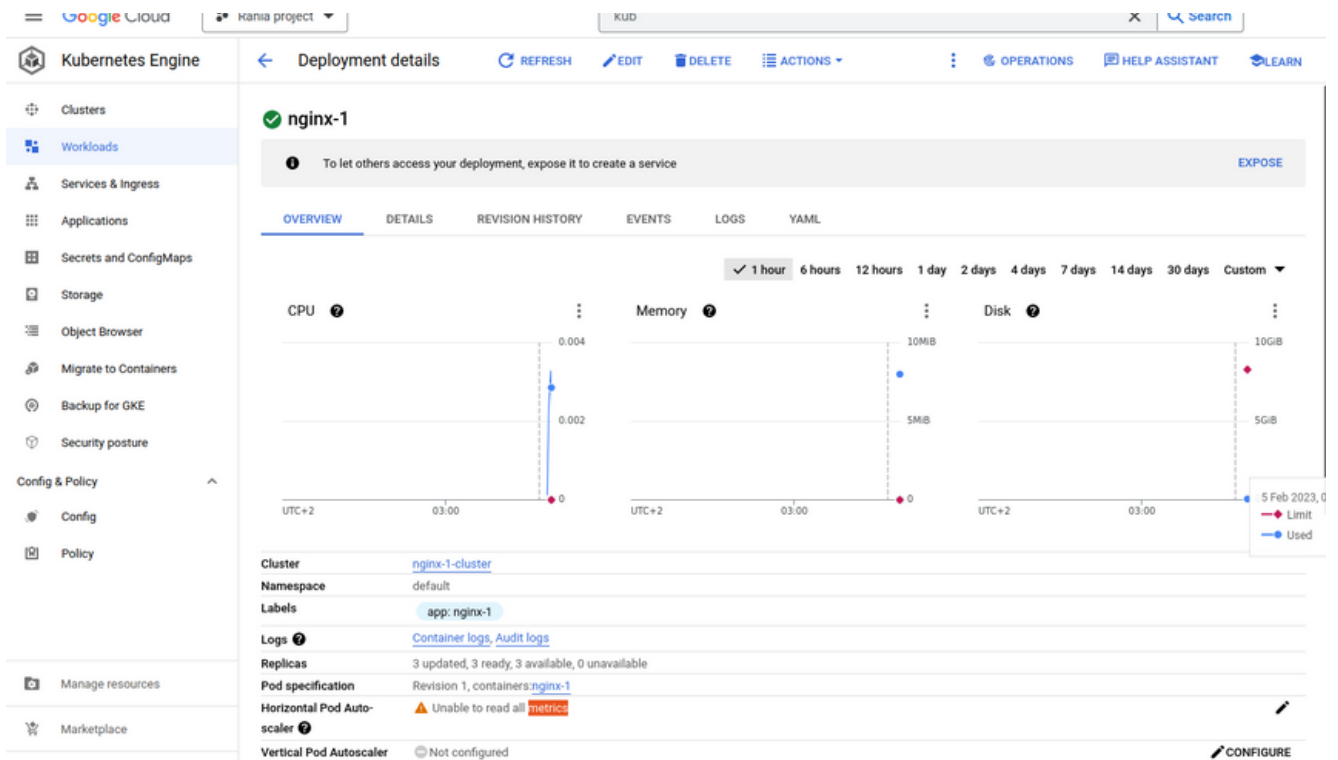
Simulate a change to an allow policy using Policy Simulator.

Overview of IAM conditions

Use IAM Conditions to define and enforce conditional, attribute-based access control on Google Cloud resources.

Service agents

Learn about Google-managed service accounts which allow Google Cloud services to access your Google Cloud resources.



jenkins/jenkin x How to provis x test-pipeline x General-20230 x jenkins_lab - C x RaniiaAshraf/ x Join my proje x Load balancer x WhatsApp x 34.120.241.16

hello gcp

Load balancing

Cloud DNS

Cloud CDN


Cloud NAT

Traffic Director

Service Directory

Cloud Domains

Private Service Connect



Get real-time analytics with Network Intelligence Center

Use Network Intelligence Center for comprehensive monitoring and troubleshooting. [Learn more](#)

- ✓ Visualise your network resources
- ✓ Diagnose and prevent connectivity issues
- ✓ View packet loss and latency metrics
- ✓ Keep your firewall rules strict and efficient

[GO TO NETWORK INTELLIGENCE CENTER](#)

[REMIND ME LATER](#)

LOAD BALANCERS

BACKENDS

FRONTENDS

Filter

Enter property name or value

?

<input type="checkbox"/>	Name	Load balancer type	Protocols	Region	Backends	
<input type="checkbox"/>	http-loadbalancer	HTTP(S)	HTTP		1 backend bucket	

To view or delete load balancing resources like forwarding rules and target proxies, go to the [load balancing components view](#).

Buckets

Monitoring

Settings

bucket_7_8

Public to Internet: This bucket is publicly accessible because allUsers or allAuthenticatedUsers have one or more permissions. Remove these principals to stop public access.

[EDIT ACCESS](#)

[DISMISS](#)

Location

Storage class

Public access

Protection

us (multiple regions in United States)

Standard

Public to Internet

None

OBJECTS

CONFIGURATION

PERMISSION

PROTECTION

LIFECYCLE

OBSERVABILITY

NEW

Buckets

>

bucket_7_8

UPLOAD FILES

UPLOAD FOLDER

CREATE FOLDER

TRANSFER DATA

MANAGE HOLDS

DOWNLOAD

DELETE

Filter by name prefix only

Filter

Filter objects and folders

Show deleted data

<input type="checkbox"/>	Name	Size	Type	Created	Storage class	Last modified	Public access	Version history	Encryption	Retention expiry date		
<input type="checkbox"/>	index.html	20 B	text/html	4 Feb 2023, 23:55:17	Standard	4 Feb 2023, 23:55:17	Public to Internet	Copy URL	—	Google-managed key	—	

```
https://ssh.cloud.google.com/v2/ssh/projects/rania-project-375711/zones/us-central1-a/instances/instance-1?...
ssh.cloud.google.com/v2/ssh/projects/rania-project-375711/zones/us-central1-a/instances/instance-1?authuser=0&hl=en_GB&projec...
SSH-in-browser
UPLOAD FILE
DOWNLOAD FILE
Setting up libhtml-template-perl (2.97-1.1) ...
Setting up libcgi-fast-perl (1:2.15-1) ...
Processing triggers for man-db (2.9.4-2) ...
Processing triggers for libc-bin (2.31-13+deb11u5) ...
rania_amoubarakk@instance-1:~$ mysql -h 10.117.64.2 -u root -p
Enter password:
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MySQL connection id is 104
Server version: 8.0.26-google (Google)

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MySQL [(none)]> CREATE DATABASE mydb
-> CREATE DATABASE mydb ;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'CREATE DATABASE mydb' at line 2
MySQL [(none)]> CREATE DATABASE mydb;
Query OK, 1 row affected (0.012 sec)

MySQL [(none)]> sho databases
-> show databases;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'sho databases' at line 1
MySQL [(none)]> show databases;
+-----+
| Database |
+-----+
| information_schema |
| mydb |
| mysql |
| performance_schema |
| sys |
+-----+
5 rows in set (0.003 sec)

MySQL [(none)]> █
```

SQL Instances + CREATE INSTANCE MIGRATE DATA

Filter Enter property name or value

<input type="checkbox"/>	Instance ID	Type	Public IP address	Private IP address	Instance connection name	High availability	Location	Storage used
<input type="checkbox"/>	cloudmysqlprivate	MySQL 8.0		10.117.64.2	rania-project-375711:us-central1:cloudmysqlprivate	ENABLED	us-central1-b	<div></div> 1 GB of 100

Hello World!

h \$300 in credit. Don't worry – you won't be charged if you run out of credit. [Learn more](#)

DISMISS

ACTIVATE

Rania project

Search (/) for resources, docs, products and more

Search

Function details

EDITDELETECOPY

LEARN

gen (Deployed at 5 Feb 2023, 01:14:11) URL: <https://function-1-qmxvogwnka-uc.a.run.app>

Powered by Cloud Run

- SOURCE
- VARIABLES
- TRIGGER
- PERMISSIONS
- LOGS
- TESTING

tion

5 February 2023 at 01:14:11 GMT+2

us-central1

256 MiB

167 millis

60 seconds

0

100

1

[813478841366-compute@developer.gserviceaccount.com](#)

—

[9f664991-17f3-4f21-b16c-0c9b6f1a8a16](#)

Networking settings

Ingress settings	Allow all traffic
VPC connector	—
VPC connector egress routing	—

It's running!

Congratulations, you successfully deployed a container image to Cloud Run

This created the revision `hello-00001-peg` of the Cloud Run service `hello` in `us-central1` in the GCP project `rania-project-375711`.

💡 You can deploy any container to Cloud Run that listens for HTTP requests on the port defined by the `PORT` environment variable. Cloud Run will scale automatically based on requests and you never have to worry about infrastructure.

What's next?

Follow the Quickstart tutorial to build a "Hello World" application in your favorite language into a container image, and then deploy it to Cloud Run.

[BUILD AND DEPLOY QUICKSTART](#)[VIEW IN CLOUD CONSOLE](#)

Start your free trial with \$300 in credit. Don't worry - you won't be charged if you run out of credit. [Learn more](#)

Filter revisions				
Name	Traffic	Deployed ↓	Revision URLs (tags) ?	Actions
hello-00001-peg	100% (to latest)	Just now	+	⋮

hello-00001-peg

Deployed by rania.amoubarakk@gmail.com using Cloud Console

General

CPU allocation	CPU is only allocated during request processing
Startup CPU boost	Disabled
Concurrency	80
Request timeout	300 seconds
Execution environment	First generation (default)

Auto-scaling

Max. instances	100
----------------	-----

```
ps@os-Lenovo-Ideapad-330-15IK8:~/Desktop$ mkdir helloworld
ps@os-Lenovo-Ideapad-330-15IK8:~/Desktop$ cd helloworld
ps@os-Lenovo-Ideapad-330-15IK8:~/Desktop/helloworld$ touch main.py
ps@os-Lenovo-Ideapad-330-15IK8:~/Desktop/helloworld$ touch requirements.txt
ps@os-Lenovo-Ideapad-330-15IK8:~/Desktop/helloworld$ touch Dockerfile
ps@os-Lenovo-Ideapad-330-15IK8:~/Desktop/helloworld$ touch .dockerignore
ps@os-Lenovo-Ideapad-330-15IK8:~/Desktop/helloworld$ gcloud run deploy
Deploying from source. To deploy a container use [--image]. See https://cloud.google.com/run/docs/deploying-source-code for more details.
Source code location (/home/os/Desktop/helloworld):
Next time, use 'gcloud run deploy --source .' to deploy the current directory.
```

```
Service name (helloworld):
Please specify a region:
[1] asia-east1
[2] asia-east2
[3] asia-northeast1
[4] asia-northeast2
[5] asia-northeast3
[6] asia-south1
[7] asia-south2
[8] asia-southeast1
[9] asia-southeast2
[10] australia-southeast1
[11] australia-southeast2
[12] europe-central2
[13] europe-north1
[14] europe-southwest1
[15] europe-west1
[16] europe-west2
[17] europe-west3
[18] europe-west4
[19] europe-west6
[20] europe-west8
[21] europe-west9
[22] me-west1
[23] northamerica-northeast1
[24] northamerica-northeast2
[25] southamerica-east1
[26] southamerica-west1
[27] us-central1
[28] us-east1
[29] us-east4
[30] us-east5
[31] us-south1
```

```
[29] us-east4
[30] us-east5
[31] us-south1
[32] us-west1
[33] us-west2
[34] us-west3
[35] us-west4
[36] cancel
```

Please enter your numeric choice: y

Please enter a value between 1 and 36: 27

To make this the default region, run 'gcloud config set run/region us-central1'.

Deploying from source requires an Artifact Registry Docker repository to store built containers. A repository named [cloud-run-source-deploy] in region [us-central1] will be created.

Do you want to continue (Y/n)? y

This command is equivalent to running 'gcloud builds submit --tag [IMAGE] /home/os/Desktop/helloworld' and 'gcloud run deploy'.

Allow unauthenticated invocations to [helloworld] (y/N)? y

Building using Dockerfile and deploying container to Cloud Run service [helloworld] in project [rania-project-375711] region [us-central1].

✓ Building and deploying new service... Done.

✓ Creating Container Repository...

✓ Uploading sources...

✓ Building Container... Logs are available at [https://console.cloud.google.com/cloud-build/builds/492c7a14-0551-48cf-96b1-08397fe73b36?project=813478841366].

✓ Creating Revision... Revision deployment finished. Checking container health.

✓ Routing traffic...

✓ Setting IAM Policy...

Done.

Hello World!

```
bigquery.storage      contact-center-insights  dialogflow      healthcare      media      people-and-planet-ai  scripts      testing
billing              container                dlp              iam              media_cdn    privateca            secretmanager
blog                 containeranalysis        dns              iap              media_cdn     media-translation    securitycenter
cdn                  contentwarehouse         documentai       iot              memystore    pubsub
rania.amoubarakk@cloudshell:~/python-docs-samples/appengine (rania-project-375711)$ cd appengine
rania.amoubarakk@cloudshell:~/python-docs-samples/appengine (rania-project-375711)$ ls
flexible  standard  standard.python3
rania.amoubarakk@cloudshell:~/python-docs-samples/appengine (rania-project-375711)$ cd standard.python3
rania.amoubarakk@cloudshell:~/python-docs-samples/appengine/standard.python3 (rania-project-375711)$ ls
bigquery  building-an-app  bundled-services  cloud.debugger  cloudsql  custom-server  django  hello.world  migration  pubsub  redis  spanner  warmup
rania.amoubarakk@cloudshell:~/python-docs-samples/appengine/standard.python3 (rania-project-375711)$ cd hello.world
app.yaml  main.py  main.test.py  requirements-test.txt  requirements.txt
rania.amoubarakk@cloudshell:~/python-docs-samples/appengine/standard.python3/hello.world (rania-project-375711)$ ls
* Serving Flask app 'main'
* Debug mode: on
WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.
* Running on http://127.0.0.1:8080
Press CTRL+C to quit
* Restarting with stat
* Debugger is active!
* Debugger PIN: 116-980-185
127.0.0.1 - - [04/Feb/2023 23:55:07] "GET /?authuser=0&redirectedPreviously=true HTTP/1.1" 200 -
127.0.0.1 - - [04/Feb/2023 23:55:08] "GET /favicon.ico HTTP/1.1" 404 -
```

Click here to see details about your Cloud Shell session and usage quota

Got it!

How instances are managed

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

app.yaml configuration file

Configure your App Engine app's settings in the app.yaml file.

Runtime environment

Guide to the stack responsible for installing your web service's code and its dependencies and for running your service.

Testing and deploying your app

Learn how to run your application locally, deploy it and test on App Engine.

All product documentation