

Exercise 1

```
PS C:\Users\aliha\Desktop\CloudAppDev\Assignment3\Exercise1> gcloud init
Welcome! This command will take you through the configuration of gcloud.

Settings from your current configuration [default] are:
accessibility:
  screen_reader: 'False'
core:
  account: alihanmurat11@gmail.com
  disable_usage_reporting: 'False'
  project: cloud-app-dev-31

Pick configuration to use:
[1] Re-initialize this configuration [default] with new settings
[2] Create a new configuration
Please enter your numeric choice: 1

Your current configuration has been set to: [default]

You can skip diagnostics next time by using the following flag:
gcloud init --skip-diagnostics

Network diagnostic detects and fixes local network connection issues.
Checking network connection...done.
Reachability Check passed.
Network diagnostic passed (1/1 checks passed).

Choose the account you want to use for this configuration.
To use a federated user account, exit this command and sign in to the gcloud CLI with your login configuration file, then run this command again.

Select an account:
[1] alihanmurat11@gmail.com
[2] Sign in with a new Google Account
[3] Skip this step
Please enter your numeric choice: 1
```

Initialize gcloud and authorize your account

```
You are signed in as: [alihanmurat11@gmail.com].

Pick cloud project to use:
[1] civic-meridian-435815-u4
[2] cloud-app-dev-31
[3] cloud-app-dev-midterm
[4] i-woodland-435815-e8
[5] Enter a project ID
[6] Create a new project
Please enter numeric choice or text value (must exactly match list item): 6

Enter a Project ID. Note that a Project ID CANNOT be changed later.
Project IDs must be 6-30 characters (lowercase ASCII, digits, or
hyphens) in length and start with a lowercase letter. cloud-app-dev-32
Waiting for [operations/cp.4810724047486278405] to finish...done.
Your current project has been set to: [cloud-app-dev-32].

Not setting default zone/region (this feature makes it easier to use
[gcloud compute] by setting an appropriate default value for the
--zone and --region flag).
See https://cloud.google.com/compute/docs/gcloud-compute section on how to set
default compute region and zone manually. If you would like [gcloud init] to be
able to do this for you the next time you run it, make sure the
Compute Engine API is enabled for your project on the
https://console.developers.google.com/apis page.

The Google Cloud CLI is configured and ready to use!

* Commands that require authentication will use alihanmurat11@gmail.com by default
```

create your project, set it to default and enable billing

```
PS C:\Users\aliha\Desktop\CloudAppDev\Assignment3\Exercise1> pip install flask
Requirement already satisfied: flask in c:\users\aliha\appdata\local\programs\python\python39-32\lib\site-packages (3.0.3)
Requirement already satisfied: Werkzeug>=3.0.0 in c:\users\aliha\appdata\local\programs\python\python39-32\lib\site-packages (from flask) (3.0.4)
Requirement already satisfied: Jinja2>=3.1.2 in c:\users\aliha\appdata\local\programs\python\python39-32\lib\site-packages (from flask) (3.1.4)
Requirement already satisfied: itsdangerous>=2.1.2 in c:\users\aliha\appdata\local\programs\python\python39-32\lib\site-packages (from flask) (2.2.0)
Requirement already satisfied: click>=8.1.3 in c:\users\aliha\appdata\local\programs\python\python39-32\lib\site-packages (from flask) (8.1.7)
Requirement already satisfied: blinker>=1.6.2 in c:\users\aliha\appdata\local\programs\python\python39-32\lib\site-packages (from flask) (1.8.2)
Requirement already satisfied: importlib-metadata>=3.6.0 in c:\users\aliha\appdata\local\programs\python\python39-32\lib\site-packages (from flask) (8.5.0)
Requirement already satisfied: colorama in c:\users\aliha\appdata\local\programs\python\python39-32\lib\site-packages (from click>=8.1.3->flask) (0.4.6)
Requirement already satisfied: zipp>=3.20 in c:\users\aliha\appdata\local\programs\python\python39-32\lib\site-packages (from importlib-metadata>=3.6.0->flask) (3.20.2)
Requirement already satisfied: MarkupSafe>=2.0 in c:\users\aliha\appdata\local\programs\python\python39-32\lib\site-packages (from Jinja2>=3.1.2->flask) (2.1.5)
```

Install Flask

```

app.py > ...
1  from flask import Flask, jsonify
2
3  app = Flask(__name__)
4
5  @app.route('/api/hello', methods=['GET'])
6  def hello():
7      return jsonify({'message': 'Hello, World!'})
8
9  if __name__ == '__main__':
10     app.run(host='0.0.0.0', port=8080, debug=True)
11

```

Create a python file and write the following code

```

! openapi.yaml
1  openapi: 3.0.0
2  info:
3      title: Hello World API
4      description: A simple API to say hello
5      version: 1.0.0
6  paths:
7      /api/hello:
8          get:
9              summary: Returns a hello message
10             responses:
11                 '200':
12                     description: A hello message
13                     content:
14                         application/json:
15                             schema:
16                                 type: object
17                                 properties:
18                                     message:
19                                         type: string
20                                         example: Hello, World!
21

```

Create a YAML file and write the following code

```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS

PS C:\Users\aliha\Desktop\CloudAppDev\Assignment3\Exercise1> gcloud endpoints services deploy openapi.yaml
ERROR: (gcloud.endpoints.services.deploy) Unable to parse Open API, or Google Service Configuration specification from openapi.yaml
PS C:\Users\aliha\Desktop\CloudAppDev\Assignment3\Exercise1> gcloud endpoints services deploy openapi.yaml
ERROR: (gcloud.endpoints.services.deploy) Unable to parse Open API, or Google Service Configuration specification from openapi.yaml
PS C:\Users\aliha\Desktop\CloudAppDev\Assignment3\Exercise1> 
```

Deploy

This Error shows up due to a problem with swagger or openapi(maybe, I tried to change code, instal packages however still got same error.)

Exercise 2

```
PS C:\Users\aliha\Desktop\CloudAppDev\Assignment3\Exercise2> gcloud init
Welcome! This command will take you through the configuration of gcloud.

Settings from your current configuration [default] are:
accessibility:
  screen_reader: 'False'
core:
  account: alihanmurat11@gmail.com
  disable_usage_reporting: 'False'
  project: cloud-app-dev-31

Pick configuration to use:
[1] Re-initialize this configuration [default] with new settings
[2] Create a new configuration
Please enter your numeric choice: 1

Your current configuration has been set to: [default]

You can skip diagnostics next time by using the following flag:
  gcloud init --skip-diagnostics

Network diagnostic detects and fixes local network connection issues.
Checking network connection...done.
Reachability Check passed.
Network diagnostic passed (1/1 checks passed).

Choose the account you want to use for this configuration.
To use a federated user account, exit this command and sign in to the gcloud CLI with your login configuration file, then run this command again.
```

Initialize gcloud and authorize your account

```
You are signed in as: [alihanmurat11@gmail.com].

Pick cloud project to use:
[1] civic-meridian-435815-u4
[2] cloud-app-dev-31
[3] cloud-app-dev-midterm
[4] i-woodland-435815-e8
[5] Enter a project ID
[6] Create a new project
Please enter numeric choice or text value (must exactly match list item): 6

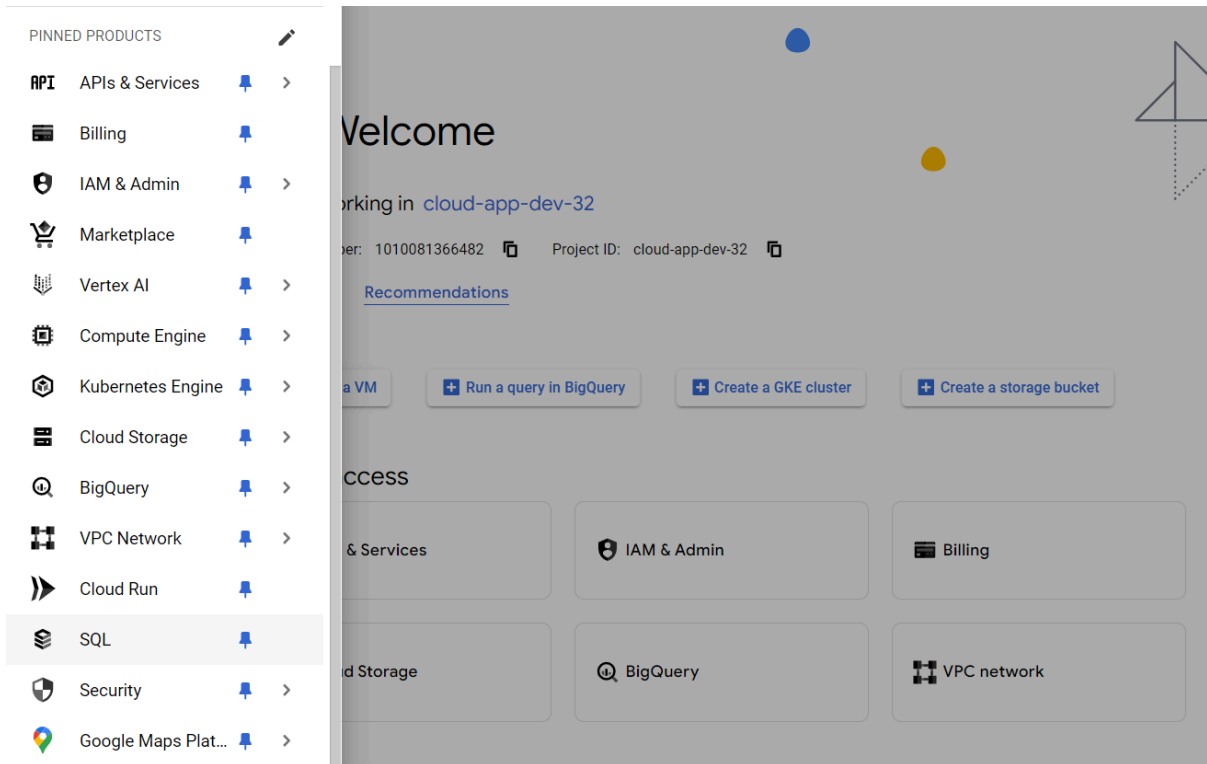
Enter a Project ID. Note that a Project ID CANNOT be changed later.
Project IDs must be 6-30 characters (lowercase ASCII, digits, or
hyphens) in length and start with a lowercase letter. cloud-app-dev-32
Waiting for [operations/cp.4810724047486278405] to finish...done.
Your current project has been set to: [cloud-app-dev-32].

Not setting default zone/region (this feature makes it easier to use
[gcloud compute] by setting an appropriate default value for the
--zone and --region flag).
See https://cloud.google.com/compute/docs/gcloud-compute section on how to set
default compute region and zone manually. If you would like [gcloud init] to be
able to do this for you the next time you run it, make sure the
Compute Engine API is enabled for your project on the
https://console.developers.google.com/apis page.

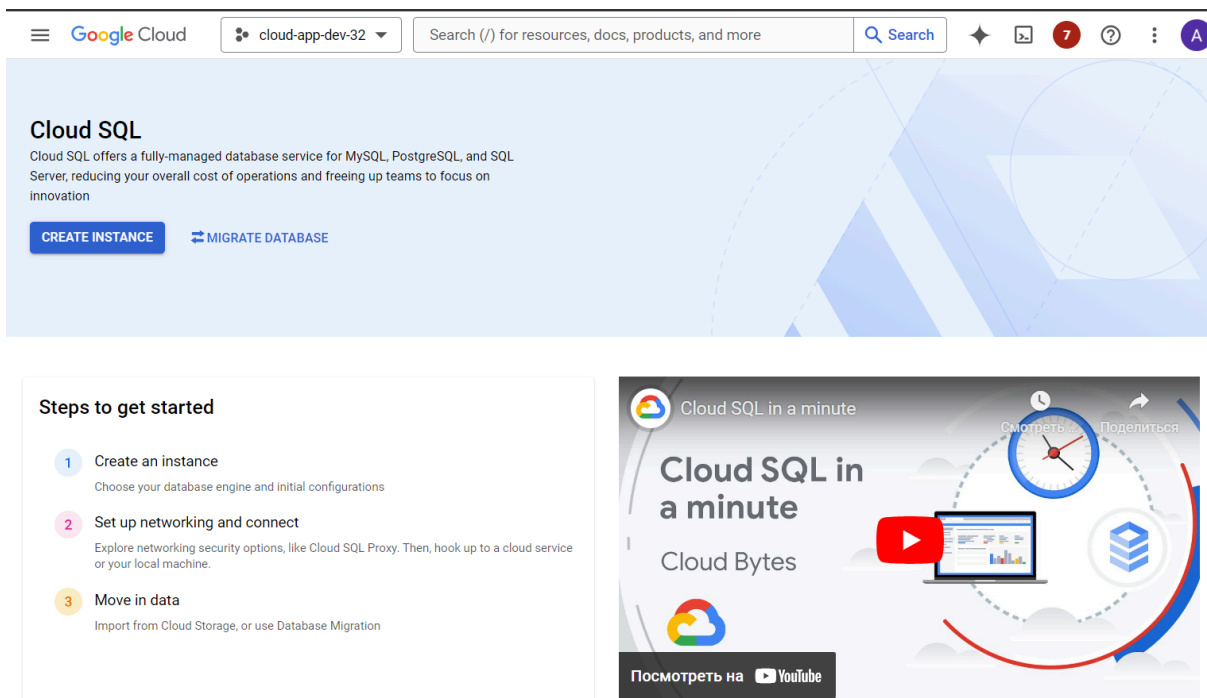
The Google Cloud CLI is configured and ready to use!

* Commands that require authentication will use alihanmurat11@gmail.com by default
```

Create your project, set project to default and enable **Billing**



On Google Cloud Console click to **SQL** section



Click to **CREATE INSTANCE** and choose **Database Engine**

Google Cloud

cloud-app-dev-32

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

Search

Create a PostgreSQL instance

COMPARE EDITION PRESETS

Instance info

Database version *

PostgreSQL 16

Instance ID *

cad-assignment3

Password *

.....

GENERATE

PASSWORD POLICY

Choose region and zonal availability

Region

europa-west3 (Frankfurt)

Zonal availability

Single zone

In case of outage, no failover. Not recommended for production.

Multiple zones (Highly available)

Automatic failover to another zone within your selected region. Recommended for production instances. Increases cost.

DB Version

PostgreSQL 16

vCPUs

8 vCPU

RAM

64 GB

Data Cache

Enabled (375 GB)

Storage

250 GB

Connections

Public IP

Backup

Automated

Availability

Multiple zones (Highly available)

Point-in-time recovery

Enabled

Network throughput (MB/s)

2,000 of 2,000

IOPS

Read: 7,500 of 15,000

Write: 7,500 of 15,000

Disk throughput (MB/s)

Read: 120.0 of 800.0

Write: 120.0 of 800.0

Pricing estimate (without discounts)

These items represent Cloud SQL compute, memory and storage resources only, and reflect how you configured your instance so far. Discounts not included in estimate. [Learn more](#)

Item	Hourly cost (estimate)
8 vCPU (\$0.064 per vCPU/hour)	\$0.52
64 GiB RAM (\$0.011 per GiB/hour)	\$0.70
250 GiB SSD (\$0.03 per GiB/month)	\$0.01
375 GiB data cache (\$0.19 per GiB/month)	\$0.10
Standby VM (high availability)	\$1.32

Fill everything according to your project

```

alihanmurat11@cloudshell:~ (cloud-app-dev-32)$ gcloud sql connect cad-assignment-3 --user=root
Allwlisting your IP for incoming connection for 5 minutes...done.
Connecting to database with SQL user [root].Enter password:
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 88
Server version: 8.0.31-google (Google)

Copyright (c) 2000, 2024, Oracle and/or its affiliates.

Oracle is a registered trademark of Oracle Corporation and/or its
affiliates. Other names may be trademarks of their respective
owners.

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

```

Activate Cloud Shell and connect to your instance

```

mysql> CREATE DATABASE sample_db;
Query OK, 1 row affected (0.21 sec)

mysql> USE sample_db;
Database changed
mysql>
mysql> CREATE TABLE users (
  ->   id INT AUTO_INCREMENT PRIMARY KEY,
  ->   name VARCHAR(100) NOT NULL,
  ->   email VARCHAR(100) NOT NULL
  -> );
Query OK, 0 rows affected (0.22 sec)

mysql>
mysql> INSERT INTO users (name, email) VALUES ('Alice', 'alice@example.com');
Query OK, 1 row affected (0.21 sec)

mysql> INSERT INTO users (name, email) VALUES ('Bob', 'bob@example.com');
Query OK, 1 row affected (0.21 sec)

```

Create table

```
* Run `gcloud cheat-sheet` to see a roster of go-to `gcloud` pip install mysql-connector-python
>> C:\Users\aliha\Desktop\CloudAppDev\Assignment3\Exercise2>
Collecting mysql-connector-python
  Downloading mysql_connector_python-9.1.0-py2.py3-none-any.whl.metadata (6.0 kB)
  Downloading mysql_connector_python-9.1.0-py2.py3-none-any.whl (381 kB)
Installing collected packages: mysql-connector-python
Successfully installed mysql-connector-python-9.1.0
```

Make sure that you installed sql connector

The screenshot shows the Google Cloud SQL console interface. At the top, there's a header with the Google Cloud logo, a dropdown menu showing 'cloud-app-dev-32', and a search bar. Below the header, the 'SQL' section is active, with a sidebar on the left containing various navigation options: Overview (selected), Cloud SQL Studio, System insights, Query insights, Connections, Users, Databases, Backups, Replicas, and Operations. The main content area displays the 'Overview' page for the instance 'cloud-app-dev-32'. It shows a 'No issues found' message and a 'Connect to this instance' section. This section includes a 'Public IP address' field with the value '34.159.126.90' and a 'Connection name' field with the value 'cloud-app-dev-32:eu-west3:cad-assignment-3'. Below these fields, there's a 'Need help connecting?' section with links to 'Learn more', 'OPEN CLOUD SHELL', and 'START TUTORIAL'.

From cloud SQL copy your Public IP address

```

connect.py > [?] cnx
1  import mysql.connector
2
3  cnx = mysql.connector.connect(
4      user='root', # or your username
5      password='alihan11', # replace with your root password
6      host='34.159.126.90', # replace with your Cloud SQL public IP
7      database='sample_db'
8  )
9
10 cursor = cnx.cursor()
11 cursor.execute('SELECT * FROM users')
12
13 for row in cursor:
14     print(row)
15
16 cursor.close()
17 cnx.close()
18

```

Create python file and write the following code

```

PS C:\Users\aliha\Desktop\CloudAppDev\Assignment3\Exercise2> python connect.py
>>
(1, 'Alice', 'alice@example.com')
(2, 'Bob', 'bob@example.com')

```

Run your code

Exercise 3

```
PS C:\Users\aliha\Desktop\CloudAppDev\Assignment3\Exercise2> gcloud init
Welcome! This command will take you through the configuration of gcloud.

Settings from your current configuration [default] are:
accessibility:
  screen_reader: 'False'
core:
  account: alihanmurat11@gmail.com
  disable_usage_reporting: 'False'
  project: cloud-app-dev-31

Pick configuration to use:
[1] Re-initialize this configuration [default] with new settings
[2] Create a new configuration
Please enter your numeric choice: 1

Your current configuration has been set to: [default]

You can skip diagnostics next time by using the following flag:
  gcloud init --skip-diagnostics

Network diagnostic detects and fixes local network connection issues.
Checking network connection...done.
Reachability Check passed.
Network diagnostic passed (1/1 checks passed).

Choose the account you want to use for this configuration.
To use a federated user account, exit this command and sign in to the gcloud CLI with your login configuration file, then run this command again.
```

Initialize gcloud and authorize your account

```
You are signed in as: [alihanmurat11@gmail.com].

Pick cloud project to use:
[1] civic-meridian-435815-u4
[2] cloud-app-dev-31
[3] cloud-app-dev-midterm
[4] i-woodland-435815-e8
[5] Enter a project ID
[6] Create a new project
Please enter numeric choice or text value (must exactly match list item): 6

Enter a Project ID. Note that a Project ID CANNOT be changed later.
Project IDs must be 6-30 characters (lowercase ASCII, digits, or
hyphens) in length and start with a lowercase letter. cloud-app-dev-32
Waiting for [operations/cp.4810724047486278405] to finish...done.
Your current project has been set to: [cloud-app-dev-32].

Not setting default zone/region (this feature makes it easier to use
[gcloud compute] by setting an appropriate default value for the
--zone and --region flag).
See https://cloud.google.com/compute/docs/gcloud-compute section on how to set
default compute region and zone manually. If you would like [gcloud init] to be
able to do this for you the next time you run it, make sure the
Compute Engine API is enabled for your project on the
https://console.developers.google.com/apis page.

The Google Cloud CLI is configured and ready to use!

* Commands that require authentication will use alihanmurat11@gmail.com by default
```

create your project, set it to default and enable billing

```
PS C:\Users\aliha\Desktop\CloudAppDev\Assignment3\Exercise3> pip install --upgrade https://storage.googleapis.com/tensorflow/mac/cpu/tensorflow-0.12.0-py3-none-any.whl
1
Collecting tensorflow==0.12.0
  Using cached https://storage.googleapis.com/tensorflow/mac/cpu/tensorflow-0.12.0-py3-none-any.whl (38.4 MB)
Collecting numpy>=1.11.0 (from tensorflow==0.12.0)
  Using cached numpy-2.0.2-cp39-cp39-win32.whl.metadata (59 kB)
  Using cached protobuf-3.1.0-py2.py3-none-any.whl.metadata (761 bytes)
Collecting six>=1.10.0 (from tensorflow==0.12.0)
Requirement already satisfied: wheel>=0.26 in c:\users\aliha\appdata\local\programs\python\python39-32\lib\site-packages (from tensorflow==0.12.0) (0.44.0)
Requirement already satisfied: setuptools in c:\users\aliha\appdata\local\programs\python\python39-32\lib\site-packages (from protobuf==3.1.0->tensorflow==0.12.0) (49.2.1)
  Using cached protobuf-3.1.0-py2.py3-none-any.whl (339 kB)
  Using cached numpy-2.0.2-cp39-cp39-win32.whl (6.5 MB)
  Using cached six-1.16.0-py2.py3-none-any.whl (11 kB)
Installing collected packages: six, numpy, protobuf, tensorflow
Successfully installed numpy-2.0.2 protobuf-3.1.0 six-1.16.0 tensorflow-0.12.0
```

install tensorflow

Google Cloud cloud-app-dev-33 Search (/) for resources, docs, products, and more Search

Cloud Storage Create a bucket

Overview NEW Buckets Monitoring Settings

Get Started

Pick a globally unique, permanent name. [Naming guidelines](#)

Ex: 'example', 'example_bucket-1', or 'example.com'

Tip: Don't include any sensitive information

Optimize storage for data-intensive workloads

Labels (optional)

CONTINUE

Good to know

Location pricing

Storage rates vary depending on the storage class of your data and location of your bucket. [Pricing details](#)

Current configuration: Multi-region / Standard

Item	Cost
us (multiple regions in United States)	\$0.026 per GB-month
With default replication	\$0.020 per GB written

ESTIMATE YOUR MONTHLY COST

Choose where to store your data

Location: us (multiple regions in United States)
Location type: Multi-region

Choose a storage class for your data

Default storage class: Standard

Choose how to control access to objects

Public access prevention: On
Access control: Uniform

Choose how to protect object data

Marketplace Release Notes

From Cloud Storage click to “Create Bucket”

cad-assignment3-1

Location Storage class Public access Protection Hierarchical namespace

europa-west3 (Frankfurt) Standard Not public Soft Delete Enabled

OBJECTS CONFIGURATION PERMISSIONS PROTECTION LIFECYCLE OBSERVABILITY INVENTORY REPORTING

Folder browser

cad-assignment3-1

Buckets > cad-assignment3-1

CREATE FOLDER UPLOAD TRANSFER DATA

Filter by name prefix only Filter Filter objects and folders Show Live objects only

	Name	Size	Type	
	data.csv	58 B	application/vnd.ms-excel	Download

←








Bucket details

GO TO PATH



REFRESH

LEARN


Overview

Created	October 29, 2024 at 1:37:07 PM GMT+5
Updated	October 29, 2024 at 1:37:07 PM GMT+5
Hierarchical namespace	Enabled
Location type	Region
Location	europe-west3 (Frankfurt)
Replication	—
Cross-bucket replication	Not enabled 
Default storage class	Standard 
Requester Pays	 OFF
Tags	None 
Labels	None 
Cloud Console URL	https://console.cloud.google.com/storage/browser/cad-assignment3-1 
gsutil URI	gs://cad-assignment3-1 

Permissions

Access control	Uniform
Public access prevention 	Enabled via bucket setting
Public access status 	Not public

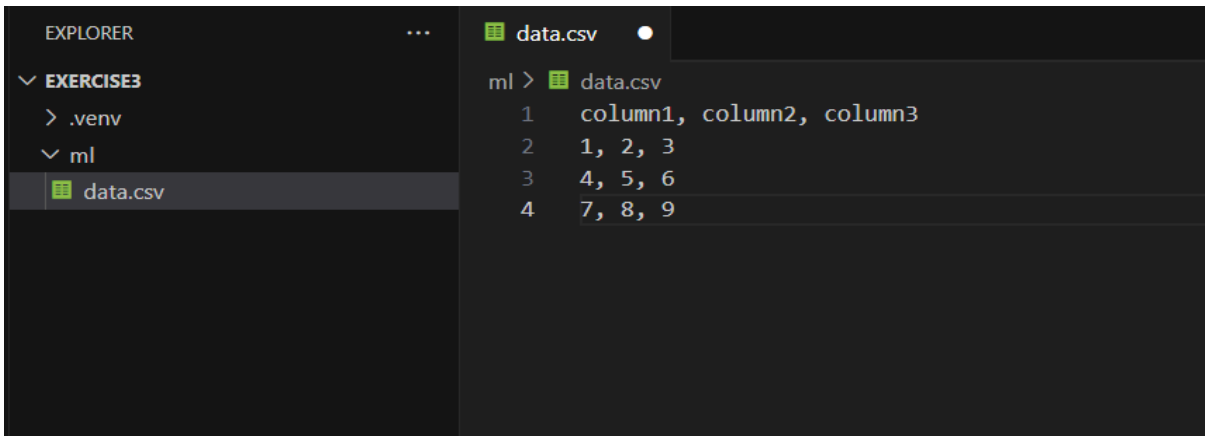
Protection

Soft delete policy	7 days
Object versioning	Off
Bucket retention policy	None
Object retention	Disabled
Encryption type	Google-managed 

Object lifecycle

Lifecycle rules	None
-----------------	------

Copy your gsutil URI



```

ml > data.csv
1  column1, column2, column3
2  1, 2, 3
3  4, 5, 6
4  7, 8, 9

```

Create data.csv

```

PS C:\Users\aliha\Desktop\CloudAppDev\Assignment3\Exercise3> gsutil cp data/data.csv gs://cad-assignment3-1
Copying file:///data/data.csv [Content-Type=application/vnd.ms-excel]...
\ [1 files][ 58.0 B/ 58.0 B]

```

upload your data to your bucket

```

train.py > create_model
1  import pandas as pd
2  import tensorflow as tf
3
4  def load_data():
5      df = pd.read_csv('gs://cad-assignment3-1/data.csv')
6      X_train = df[['feature1', 'feature2']].values
7      y_train = df['label'].values
8      return X_train, y_train
9
10 def create_model():
11     model = tf.keras.Sequential([
12         tf.keras.layers.Dense(10, activation='relu', input_shape=(2,)),
13         tf.keras.layers.Dense(1, activation='sigmoid')
14     ])
15     model.compile(optimizer='adam', loss='binary_crossentropy', metrics=['accuracy'])
16     return model
17
18 def main():
19     X_train, y_train = load_data()
20
21     model = create_model()
22     train_data = tf.data.Dataset.from_tensor_slices((X_train, y_train)).batch(32)
23     model.fit(train_data, epochs=5)
24
25     model.save('gs://cad-assignment3-1/model')
26
27 if __name__ == '__main__':
28     main()
29

```

Write the following code

```

PS C:\Users\Valiha\Desktop\CloudAppDev\Assignment3\Exercise3> gcloud ai custom-jobs create --region=europe-west3 --display-name=ml_job --python-package-uri=gs://cad-assignment3-1/train.py --python-module=train --container-image-uri=gcr.io/cloud-aiplatform/training/tf-cpu.2-4:latest
ERROR: (gcloud.ai.custom-jobs.create) unrecognized arguments:
--python-module=train

```

Submit the following command

```

❖ ERROR: (gcloud.ai.custom-jobs.create) unrecognized arguments: --disp (did you mean '--display-name'?)

To search the help text of gcloud commands, run:
  gcloud help -- SEARCH_TERMS
PS C:\Users\aliha\Desktop\CloudAppDev\Assignment3\Exercise3> gcloud ai custom-jobs create --region=europe-west3 --display-name=ml-job --python-package-uri=gs://cad-a
ssignment3-1/train.py --python-module=train --container-image-uri=gcr.io/cloud-aiplatform/training/tf-cpu.2-4:latest
❖ ERROR: (gcloud.ai.custom-jobs.create) unrecognized arguments:
  --python-module=train
  --container-image-uri=gcr.io/cloud-aiplatform/training/tf-cpu.2-4:latest
To search the help text of gcloud commands, run:
  gcloud help -- SEARCH_TERMS
PS C:\Users\aliha\Desktop\CloudAppDev\Assignment3\Exercise3> gcloud ai custom-jobs create --region=europe-west3 --display-name=ml-job --python-package-uri=gs://cad-a
ssignment3-1/train.py --python-module=train --container-image-uri=gcr.io/cloud-aiplatform/training/tf-cpu.2-4:latest
❖ ERROR: (gcloud.ai.custom-jobs.create) unrecognized arguments:
  --python-module=train
  --container-image-uri=gcr.io/cloud-aiplatform/training/tf-cpu.2-4:latest
To search the help text of gcloud commands, run:
  gcloud help -- SEARCH_TERMS
PS C:\Users\aliha\Desktop\CloudAppDev\Assignment3\Exercise3> gcloud ai custom-jobs create --region=europe-west3 --display-name=ml-job --worker-pool-spec=machine-spec=
machine-type=e2-standard-4,replica-count=1 --python-package-uri=gs://cad-assignment3-1/train.py --python-module=train --container-image-uri=gcr.io/cloud-aiplatform/t
raining/tf-cpu.2-4:latest
>>
❖ ERROR: (gcloud.ai.custom-jobs.create) argument --worker-pool-spec: valid keys are [accelerator-count, accelerator-type, container-image-uri, executor-image-uri, extra-
dirs, extra-packages, local-package-path, machine-type, output-image-uri, python-module, replica-count, requirements, script]; received: machine-spec
Usage: gcloud ai custom-jobs create --display-name=DISPLAY_NAME [--config=CONFIG --worker-pool-spec=[WORKER_POOL_SPEC,...]] [optional flags]
optional flags may be
  --args | --command | --config |
  --enable-dashboard-access | --enable-web-access |
  --help | --kms-key | --kms-keyring | --kms-location |
  --kms-project | --labels | --network |
  --region | --service-account | --worker-pool-spec

For detailed information on this command and its flags, run:

```

```

Отсутствует выражение после унарного оператора "...".
Выданы сообщения не обо всех ошибках синтаксического анализа. Исправьте перечисленные в сообщениях ошибки и повторите попытку.
+ CategoryInfo          : ParserError: (:) [], ParentContainsErrorRecordException
+ FullyQualifiedErrorId : MissingExpressionAfterOperator

❖ PS C:\Users\aliha\Desktop\CloudAppDev\Assignment3\Exercise3> gcloud ai custom-jobs create --region=europe-west3 --display-name=ml-job --worker-pool-spec=machine-type=
e2-standard-4,replica-count=1,container-image-uri=gcr.io/cloud-aiplatform/training/tf-cpu.2-4:latest --python-package-uri=gs://cad-assignment3-1/train.py --python-mo
dule=train
>>
-1/train.py --python-module=train\x0a;6949e379-298f-4b5e-9ff3-a922230976fb❖ ERROR: (gcloud.ai.custom-jobs.create) unrecognized arguments: --python-module=train

  gcloud help -- SEARCH_TERMS
PS C:\Users\aliha\Desktop\CloudAppDev\Assignment3\Exercise3> gcloud ai custom-jobs create --region=europe-west3 --display-name=ml-job --worker-pool-spec=machine-type=
e2-standard-4,replica-count=1,container-image-uri=gcr.io/cloud-aiplatform/training/tf-cpu.2-4:latest,python-module=train,python-package-uri=gs://cad-assignment3-1/tr
ain.py
>>
Using endpoint [https://europe-west3-aiplatform.googleapis.com/]
❖ ERROR: (gcloud.ai.custom-jobs.create) Invalid value for [--worker-pool-spec]: Exactly one of keys [executor-image-uri, container-image-uri] is required.
PS C:\Users\aliha\Desktop\CloudAppDev\Assignment3\Exercise3> gcloud ai custom-jobs create --region=europe-west3 --display-name=ml-job --worker-pool-spec=machine-type=
e2-standard-4,replica-count=1,container-image-uri=gcr.io/cloud-aiplatform/training/tf-cpu.2-4:latest --python-package-uri=gs://cad-assignment3-1/train.py --python-mo
dule=train
>>
❖ ERROR: (gcloud.ai.custom-jobs.create) unrecognized arguments: --python-module=train

To search the help text of gcloud commands, run:
  gcloud help -- SEARCH_TERMS
PS C:\Users\aliha\Desktop\CloudAppDev\Assignment3\Exercise3> gcloud ai custom-jobs create \
>> --region=europe-west3 \
>> --display-name=ml-job \
>> --worker-pool-spec=machine-type=e2-standard-4,replica-count=1,container-image-uri=gcr.io/cloud-aiplatform/training/tf-cpu.2-4:latest,python-module=train,python-p

```

(Tried to debug it, however I keep getting error)