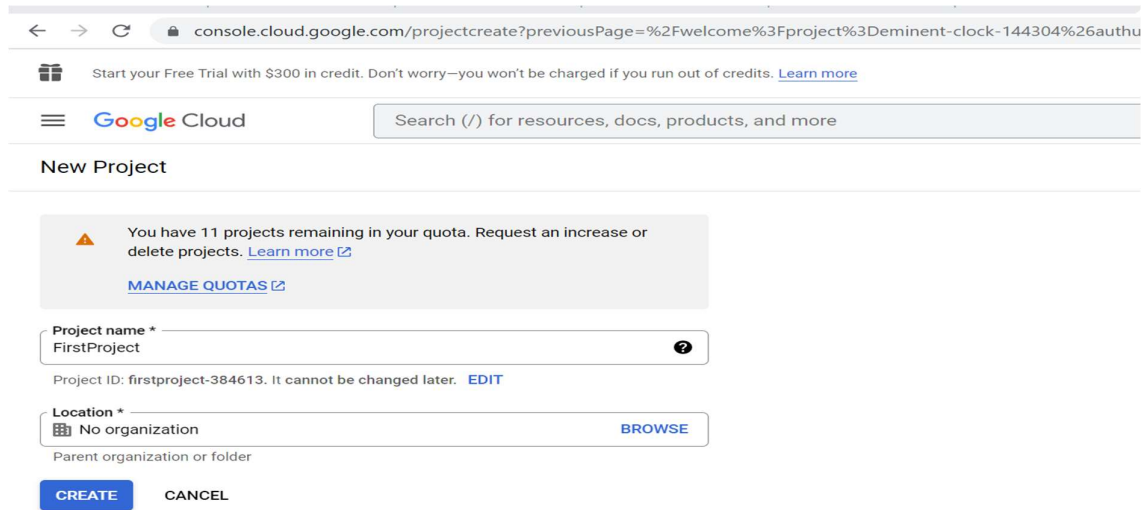


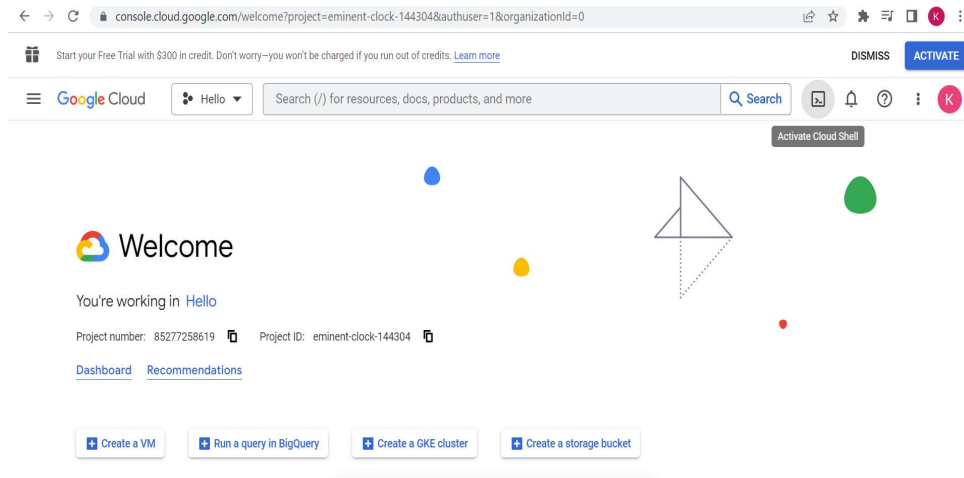
Deploying Applications on Google Cloud

1. Create a New Project

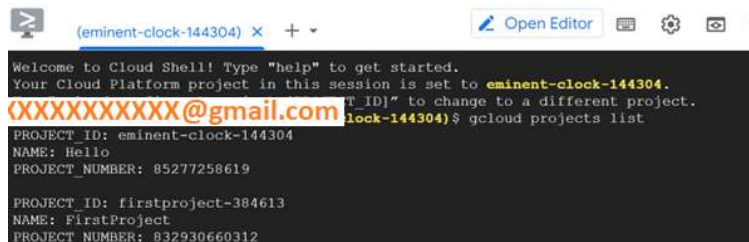


The screenshot shows the Google Cloud console's 'New Project' page. At the top, there's a navigation bar with the Google Cloud logo and a search bar. Below it, a message states: 'You have 11 projects remaining in your quota. Request an increase or delete projects. [Learn more](#)' with a 'MANAGE QUOTAS' link. The main form has two sections: 'Project name' with a text input containing 'FirstProject' and a 'Project ID' field showing 'firstproject-384613' with an 'EDIT' link; and 'Location' with a dropdown set to 'No organization' and a 'BROWSE' button. At the bottom are 'CREATE' and 'CANCEL' buttons.

2. Click on Activate Cloud Shell



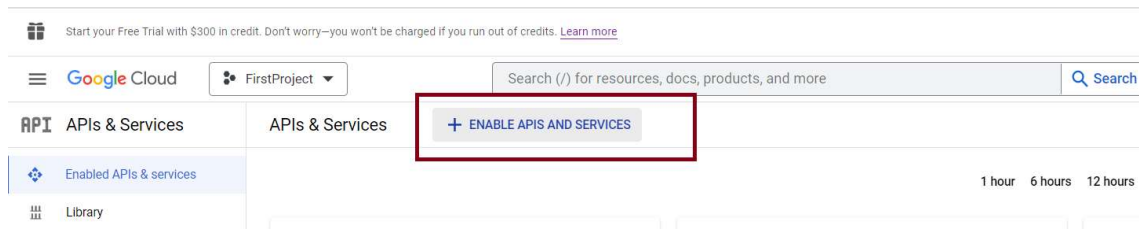
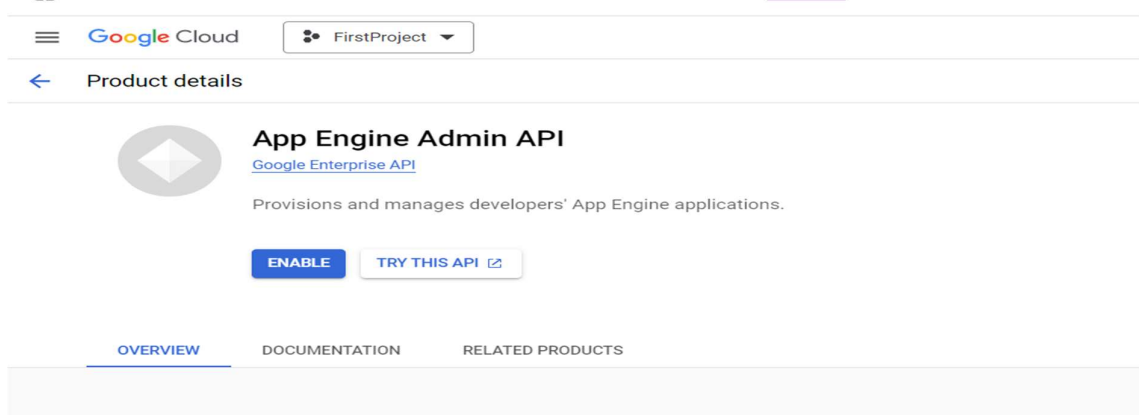
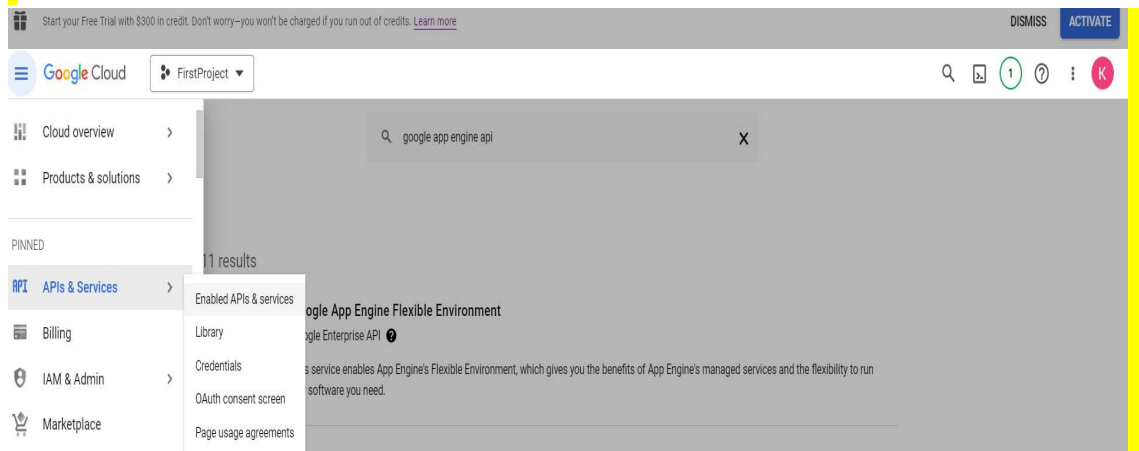
3. In the Cloud Shell, use command `gcloud projects list` for list of projects list.

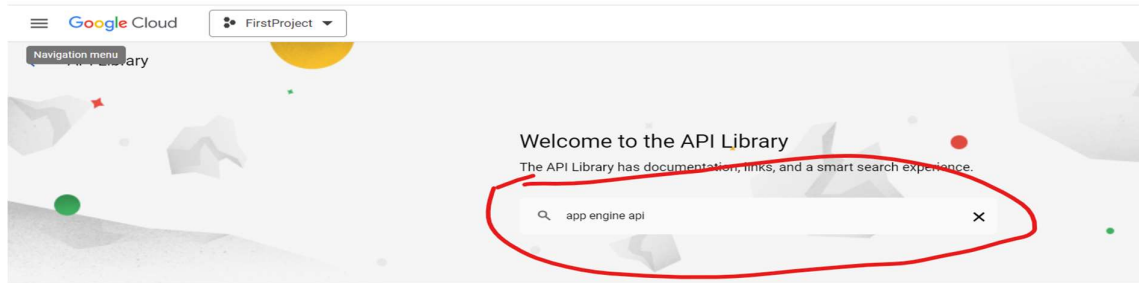


```
(eminent-clock-144304) x + v Open Editor
Welcome to Cloud Shell! Type "help" to get started.
Your Cloud Platform project in this session is set to eminent-clock-144304.
(XXXXXXXXXX@gmail.com) (eminent-clock-144304) $ gcloud projects list
PROJECT_ID: eminent-clock-144304
NAME: Hello
PROJECT_NUMBER: 85277258619

PROJECT_ID: firstproject-384613
NAME: FirstProject
PROJECT_NUMBER: 832930660312
```

4. Enable App Engine Admin API





Maps

app engine api

11 results



App Engine Admin API

Google Enterprise API

Provisions and manages developers' App Engine applications.



Google App Engine Flexible Environment

Google Enterprise API

This service enables App Engine's Flexible Environment, which gives you the benefits of App Engine's managed services and the flexibility to run any software you need.

Product details



App Engine Admin API

[Google Enterprise API](#)

Provisions and manages developers' App Engine applications.

ENABLE

TRY THIS API

5. Change the project to new project using the new project id.

```
PROJECT_ID: eminent-clock-144304
NAME: Hello
PROJECT_NUMBER: 85277258619

PROJECT_ID: firstproject-384613
NAME: FirstProject
PROJECT_NUMBER: 832930660312

XXXXXXXXXXXXXXXX@cloudshell:~ (eminent-clock-144304)$ gcloud config set project firstproject-384613
Updated property [core/project].

XXXXXXXXXXXXXXXX@cloudshell:~ (firstproject-384613)$
```

6. Create an application using:

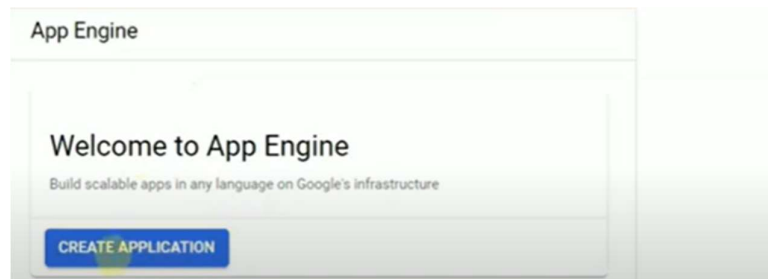
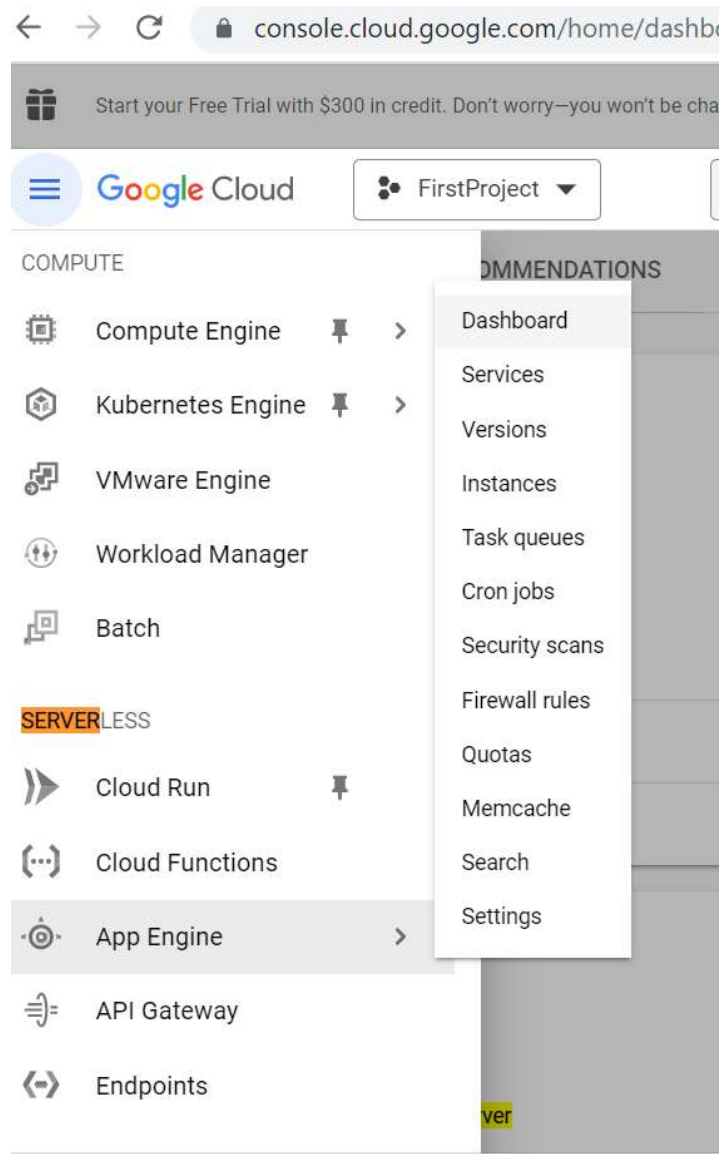
- a) gcloud app create

```
XXXXXXXXXXXXXXXX@cloudshell:~ (firstproject-384613)$ gcloud app create
You are creating an app for project [firstproject-384613].
WARNING: Creating an App Engine application for a project is irreversible and the region
cannot be changed. More information about regions is at
<https://cloud.google.com/appengine/docs/locations>.

Please choose the region where you want your App Engine application located:

[1] asia-east1      (supports standard and flexible)
[2] asia-east2      (supports standard and flexible and search_api)
[3] asia-northeast1 (supports standard and flexible and search_api)
[4] asia-northeast2 (supports standard and flexible and search_api)
[5] asia-northeast3 (supports standard and flexible and search_api)
[6] asia-south1     (supports standard and flexible and search_api)
[7] asia-southeast1 (supports standard and flexible)
[8] asia-southeast2 (supports standard and flexible and search_api)
[9] australia-southeast1 (supports standard and flexible and search_api)
[10] europe-central2 (supports standard and flexible)
[11] europe-west     (supports standard and flexible and search_api)
[12] europe-west2    (supports standard and flexible and search_api)
[13] europe-west3    (supports standard and flexible and search_api)
[14] europe-west6    (supports standard and flexible and search_api)
[15] northamerica-northeast1 (supports standard and flexible and search_api)
[16] southamerica-east1 (supports standard and flexible and search_api)
[17] us-central      (supports standard and flexible and search_api)
[18] us-east1        (supports standard and flexible and search_api)
[19] us-east4        (supports standard and flexible and search_api)
[20] us-west1        (supports standard and flexible)
[21] us-west2        (supports standard and flexible and search_api)
[22] us-west3        (supports standard and flexible and search_api)
[23] us-west4        (supports standard and flexible and search_api)
```

Or



7. Clone your project.

git clone <project_url>

<https://github.com/GoogleCloudPlatform/python-docs-samples>

8. Go to the project.

```
Cloud Shell
Terminal (firstproject-384613) x +
Open Editor

dhingrakomal07@cloudshell:~ (firstproject-384613)$ ls
python-docs-samples  README-cloudshell.txt
dhingrakomal07@cloudshell:~ (firstproject-384613)$ cd python-docs-samples
dhingrakomal07@cloudshell:~/python-docs-samples (firstproject-384613)$ ls
appengine      cloud-sql      datalabeling    eventarc        LICENSE          opencensus      run              talent
asset           cloud-tasks    dataproc         favicon.ico      logging           optimization    scheduler        testing
auth            CODE-OF-CONDUCT.md  data-science-onramp  firestore        MAC-SETUP.md     people-and-planet-ai  scripts          texttospeech
AUTHORING_GUIDE.md  composer       datastore        functions        media             privateca        secretmanager    trace
automl           compute        dialogflow       healthcare       media_cdn         profiler         securitycenter   translate
batch            contact-center-insights  dialogflow-cx       iam              mediatranslation  pubsub           SECURITY.md       video
bigquery         container       dip              iap              memorystore       pubsublite       servicedirectory  vision
bigquery_storage  containeranalysis  dns              iot              ml_engine          pytest.ini       spanner           webrisk
billing           contentwarehouse  documentai       jobs             monitoring         README.md        speech            workflows
blog             CONTRIBUTING.md   endpoints        kms              notebooks          nokfile.config.py renovate.json     storage
cdn              datacatalog      enterpriseknowledgegraph  kubernetes_engine  noxfile-template.py  retail           storagetransfer
cloudbuild       dataflow         error-reporting   language
dhingrakomal07@cloudshell:~/python-docs-samples (firstproject-384613)$ cd appengine
dhingrakomal07@cloudshell:~/python-docs-samples/appengine (firstproject-384613)$ ls
flexible  flexible_python3_and_earlier  standard  standard_python3
dhingrakomal07@cloudshell:~/python-docs-samples/appengine (firstproject-384613)$ cd standard_python3
dhingrakomal07@cloudshell:~/python-docs-samples/appengine/standard_python3 (firstproject-384613)$ ls
bigquery  building-an-app  bundled-services  cloud-debugger  cloudsql  custom-server  django  hello_world  migration  pubsub  redis  spanner  warmup
dhingrakomal07@cloudshell:~/python-docs-samples/appengine/standard_python3 (firstproject-384613)$ cd
^C
dhingrakomal07@cloudshell:~/python-docs-samples/appengine/standard_python3 (firstproject-384613)$ cd
^C
dhingrakomal07@cloudshell:~/python-docs-samples/appengine/standard_python3 (firstproject-384613)$ cd hello_world
dhingrakomal07@cloudshell:~/python-docs-samples/appengine/standard_python3/hello_world (firstproject-384613)$
```

9. Open app.yml to configure your app.

```
dhingrakomal07@cloudshell:~/python-docs-samples/appengine/standard_python3/hello_world (firstproject-384613)$ cat app.yaml
# Copyright 2021 Google LLC
#
# Licensed under the Apache License, Version 2.0 (the "License");
# you may not use this file except in compliance with the License.
# You may obtain a copy of the License at
#
#     http://www.apache.org/licenses/LICENSE-2.0
#
# Unless required by applicable law or agreed to in writing, software
# distributed under the License is distributed on an "AS IS" BASIS,
# WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
# See the License for the specific language governing permissions and
# limitations under the License.
runtime: python39
```

10. Run your python project using python3 <filename.py>

```
dhingrakomal07@cloudshell:~/python-docs-samples/appengine/standard_python3/hello_world (firstproject-384613)$ python3 main.py
* 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: 143-079-865
127.0.0.1 - - [23/Apr/2023 16:59:25] "GET /?authuser=1 HTTP/1.1" 200 -
```

11. Click on Web Preview and click on Preview on port 8080.

The screenshot shows the Google Cloud Shell interface. At the top, there's a Google Cloud logo and a search bar. Below that, the 'CLOUD SHELL' header is visible, along with a terminal icon and a tab labeled '(firstproject-384613)'. A dropdown menu is open, showing options: 'Preview on port 8080', 'Change port', and 'About web preview'. The terminal window displays the following content:

```
# See the License for the specific language governing permissions and
# limitations under the License.

runtime: python39
dhingrakomal07@cloudshell:~/python-docs-samples/appengine/standard_python3/hello_world (firstproject-384613)$ cat app.y
# Copyright 2021 Google LLC
#
# Licensed under the Apache License, Version 2.0 (the "License");
# you may not use this file except in compliance with the License.
# You may obtain a copy of the License at
#
#     http://www.apache.org/licenses/LICENSE-2.0
#
# Unless required by applicable law or agreed to in writing, software
# distributed under the License is distributed on an "AS IS" BASIS,
# WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
# See the License for the specific language governing permissions and
# limitations under the License.

runtime: python39
dhingrakomal07@cloudshell:~/python-docs-samples/appengine/standard_python3/hello_world (firstproject-384613)$ vi app.yaml
dhingrakomal07@cloudshell:~/python-docs-samples/appengine/standard_python3/hello_world (firstproject-384613)$ python3 main.py
* 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: 143-079-865
127.0.0.1 - - [23/Apr/2023 16:59:25] "GET /?authuser=1 HTTP/1.1" 200 -
```

At the bottom of the interface, there's a browser address bar showing the URL: `8080-cs-844d58b5-ae7-4296-ba8b-420fc3107ac6.cs-asia-southeast1-b00l.cloudshell.dev/?authuser=1`. Below the address bar, the text 'cloud lab' is visible.