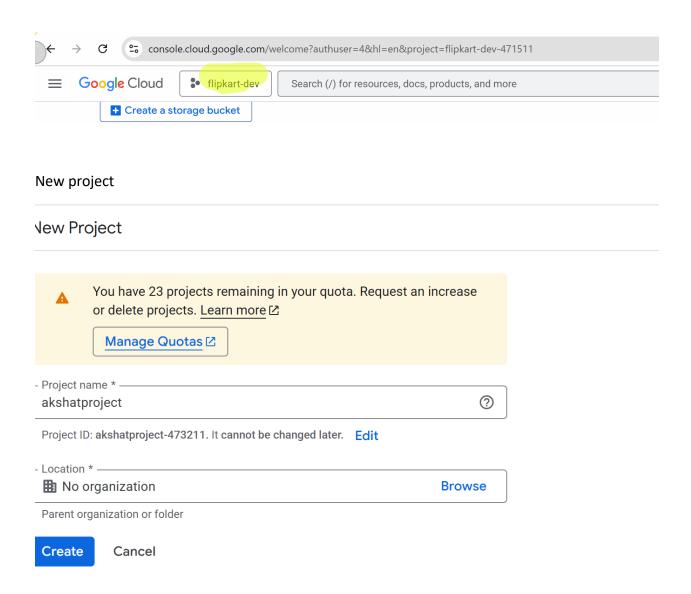
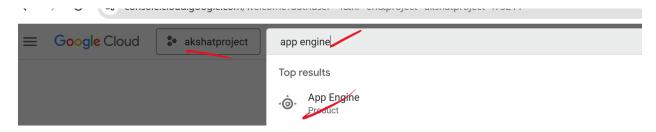
WORKING WITH APP ENGINE



Create



Create a application

Location: us-central

No other changes

Next

This the code we to deploy will use to deploy akshatproject app engine Dashboard Your App Engine application has been created. Choose the deployment method that works best for you Services 0 Versions Deploy with Google Cloud SDK Resources Instances Download the Cloud SDK ☑ Python 讍 Task queues ur SDK Ō Cron jobs • Standard Firewall rules \$ qcloud init Read App Engine Python Standard Environment Documentation 2. Visit Github [2] or Python Standard Environment code samples. Deploy to App Engine Memcache gcloud app deploy Search Settings Here you will find sample

Open cloud shell

Code which we will deploy in app engine : https://github.com/akshu20791/app-engine-standard-demo

```
flipkart-dev-4/1511-a3054c/463cb.json README-Cloudshell.txt
thecareerbeer@cloudshell:~$ git clone https://github.com/akshu20791/app-engine-standard-demo
Cloning into 'app-engine-standard-demo'...
remote: Enumerating objects: 18, done.
remote: Counting objects: 100% (18/18), done.
remote: Compressing objects: 100% (14/14), done.
remote: Total 18 (delta 1), reused 0 (delta 0), pack-reused 0 (from 0)
Receiving objects: 100% (18/18), 5.75 KiB | 1.92 MiB/s, done.
Resolving deltas: 100% (1/1), done.
thecareerbeer@cloudshell:~$ 1s
app-engine-standard-demo flipkart-dev-471511-a3054c7463cb.json README-cloudshell.txt
thecareerbeer@cloudshell:~$
```

git clone https://github.com/akshu20791/app-engine-standard-demo
cd app-engine-standard-demo
gcloud init

it will ask you reconfigure and select the new project which we created gcloud app deploy

ERROR !!!

```
theorearthes followinhall: /app-majors tandard-dome (Archatproject-173711) golowd app deploy coviding a value for extensite scaling analysances. Star w March, 2015, App Regime sets the automatic scaling maximum instances default for standard environment deployments to 20. This change doment apps. To override the default, specify the new max instances value in your app, van! (ile, and deploy a new version or radeploy over an existing version.)

Services to deploy:

Services to deploy:

[//www.fibecareacters/app-majors-tandard-domen/app-yanl.msiscaling_sleenets.]

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[//www.fibecareacter/app-majors-tandard-tandard-domen/app-yanl.msiscaling_sleenets.]

[//www.fibecareacter/app-majors-tandard-tandard-tandard-tandard-tandard-tandard-tandard-tandard-tandard-tandard-tandard-tandard-tandard
```

ERROR MESSAGE

ERROR: (gcloud.app.deploy) Error Response: [13] Failed to create cloud build:

com.google.net.rpc3.client.RpcClientException: <eye3

title='/ArgoAdminNoCloudAudit.CreateBuild, FAILED PRECONDITION'/>

APPLICATION ERROR; google.devtools.cloudbuild.v1/ArgoAdminNoCloudAudit.CreateBuild; invali

d bucket "staging.akshatproject-473211.appspot.com"; service account akshatproject-

473211@appspot.gserviceaccount.com does not have access to the

bucket;AppErrorCode=9;StartTimeMs=1758800302287;unknown;ResFormat=uncompressed;ServerTimeSec=0.675018014;LogBytes=256;Non-

FailFast; EndUserCredsRequested; EffSecLevel=privacy_and_integrity; ReqFormat=uncompressed; ReqID=739501a35c56a5bb; GlobalID=0; Server=[2002:a05:6600:2744:b0:441:7527:6a57]:4001.

What does this error means:

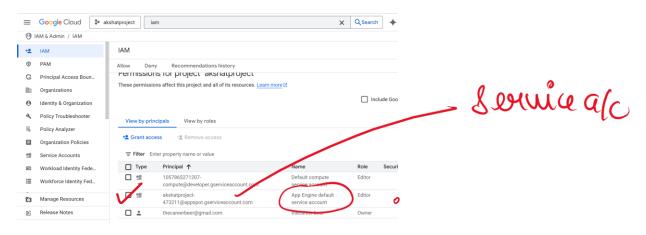
When you deploy to app engine standard, gcp uses cloud build on the background . Clould build stores files in staging bucket (staging. Project id.appspot.com)

In our case above the default app engine service account akshatproject-473211@appspot.gserviceaccount.com does not have correct permission

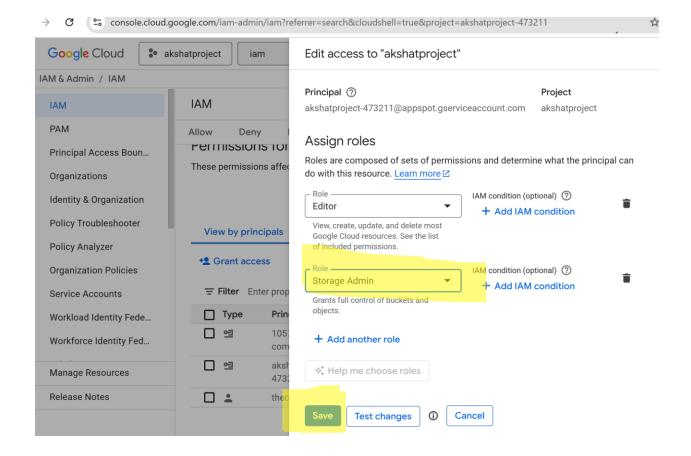
This is the reason why deployment is failing

To solve this error,

Go to iam and admin



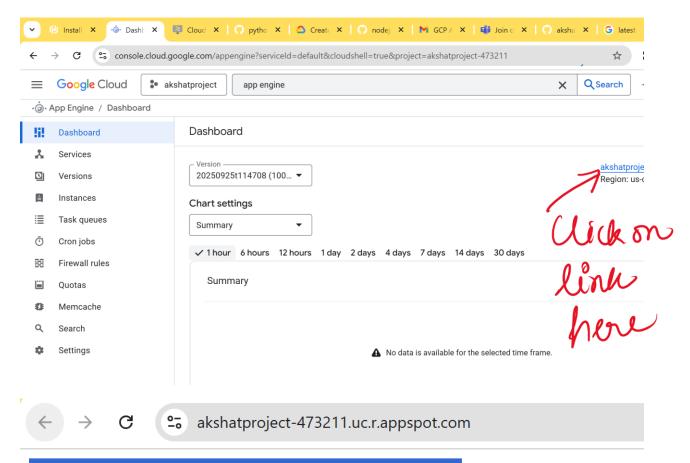
Edit thès some alc



Again go to cloud shell and run gcloud app deploy

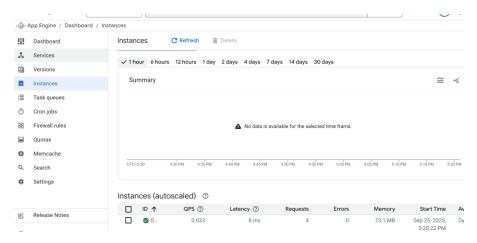
You will see that it is success now.

Go to app engine in gui



Lets learn GCP with Akshat

Quickly refresh you app link and check the instances (whenever there is request you will see instances)



we can see the list of instances via cloud shell as well

```
thecareerbeer@cloudshell:~/app-engine-standard-demo (akshatproject-473211) $ gcloud app instances list SERVICE: default VERSION: 20250925t114708 ID: 006907a988763e5164fe07b103db42f8f3ef4cdabbdf01702fda5607413e11c8d526ddadb14d4d798c9ddd7a42c9b0fa9c0bd411d34c4fc1639013a240ede337f645 VM_STATUS: N/A VM_LIVENESS: DEBUG_MODE: thecareerbeer@cloudshell:~/app-engine-standard-demo (akshatproject-473211) $
```

gcloud app instances list

lets see if autoscaling is happening (the machine automatically increase) by sending 10000 request via below command

ab -c 1000 -n 10000 http://<your app id>.appspot.com/

here

-c 1000: concurrency level = 1000 that means 1000 requests at the same time

-n 10000 -> total nymber of request 10000

http://youappid .appspot.com -> replace with your actual app engine url

so this command sends 10,000 requests total, with upto 1,000 simultaneous request at momey

You might get ab command not found error:

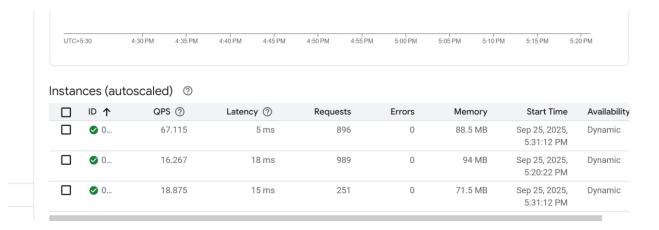
Solution:

sudo apt update

sudo apt install apache2-utils -y

Then test:----→ ab -V

in message some warning of ssh will be there ignore



lets create a new version of the app (version 2)



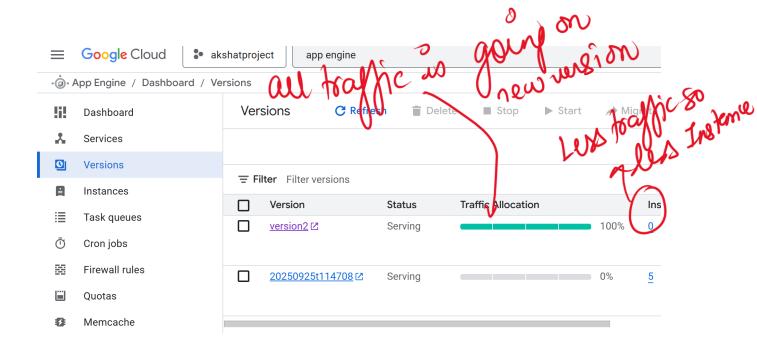
vi server.js

content is edile # Is **(2)** (akshatproject-473211) X ♦ Gemini CLI X var http = require('http'); var handleRequest = function(request, response) response.writeHead(200); response.end(' var www = http.createServer(handleRequest); www.listen(8080);

gcloud app deploy -v version2



Lets learn GCP together



to delete app engine you need to delete the whole project...

but we can disable the app engine

