Google managed platform to run your app. Since it is a managed service, you should Oldest service Platform Only fours on the application & grogle will manage launched in as a service the resource requied to run the application 2008. Application on app engine jun across multiple servers. which is created & moneyed by

Key features 1) felly managed : Google handles servers, networking, scaling, patching belowing. - App-engine makes deployment, maintenance, Scalability, Surity easy- so that user con focus on Innovation Multiple Languages Python Java, Node is, 90, PHP, Ruby, NET & custom Runtim using Docker. Automatic scaling: you app scales up t down automatically braved m.

## How it works:

- 1) you write your application code.
- 2) you define configurations in app. yant
- 3) Deploy using CLI > gloud app deploy
- 4) GAE (google appengine) automatically provisiones resources hardles traffic, and manages scalability.

U supposed the SAE will wester the Infra & deploy apposed for you for you

Intra is managed by

Gup & you will

I not he any com hol

App engine standard

Services > Environment

Appengine features

Infra is managed by

GCP

1 but accomible

App engune finible environment

> completely abstracted - yo

- → completely abstracted you don't get any visibility or control own underlying VM.
- → Google runs your app on Sandborred environment
- you deploy the code, Google takes
  Cared Rest.
- you will not able to see Intra on which your app is deployed

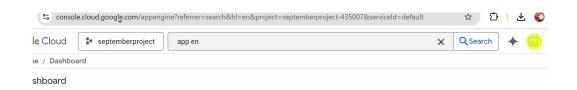
- you can acus
- > jou can see the VM3 in compute engine section.
- → you cannot fully manage the Intra but most port you can manage.

features	Standard	Henible
Instanu Startup	Sec	ninulis
SSH	NO	yes .
Neud of VPC	No No	yes
Pricing	After free daily use pay per Instance class, automatic shutdown (pay only when app is accord)	Pay for resources/hour.
Scale to zow	yes	min 1 Instance

H In a single project, only one app engine can be deployed.

App engine is designed to have only one app engine application per GCP project because it defines a "region and several backend settlings at a project level not at a resource level.

- 1) Create a new project
- 2) open cloud shell



- 3) git clone https://github.com/akshu20791/app-engine-standard-demo/
- 4) cd app-engine-standard-demo
- 5) Is

you will be able to see all the files

6) gcloud app deploy

Now error u might get in here::

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; invalid bucket "staging.septemberproject-43 5007.appspot.com"; service account septemberproject-435007@appspot.com"; service account septemberproject-435007@appspot.gerviceaccount.com does not have access to the bucket; AppErrorCode=9; StartTimeMs=174572227911 2; unknown; ResFormat=uncompressed; ServerTimeSec=1.439622379; LogBytes=256; Non-FailFast; EndUserCredsRequested; EffSecLevel=privacy\_and\_integrity; ReqFormat=uncompressed; ReqID=683eee7leee0b50c; GlobalID=0; Server=[2002:a05:730a:4718:b0:517:598e:b4cb]: 4001.

Go to iam -> find the service account like project\_id@appspot.gserviceaccount.com ....edit permission-> add another role-> storage admin -> save

and go back to cli gcloud app deploy