GCP:

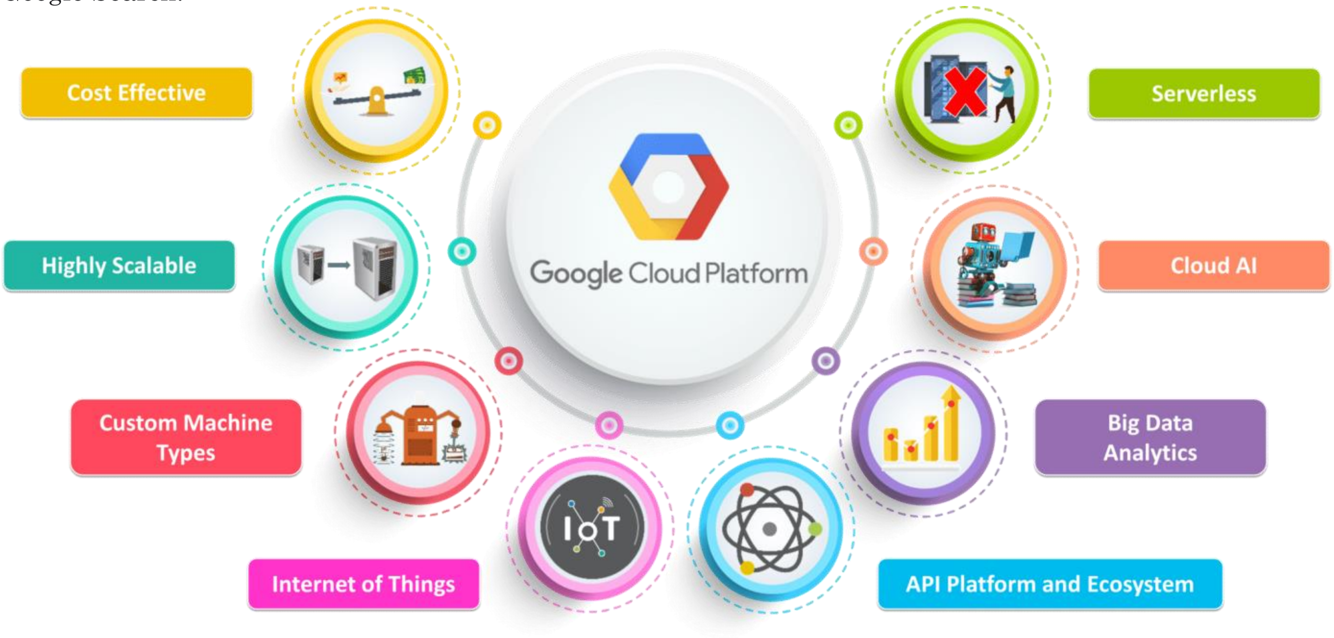
GCP is **a public cloud vendor that offers a suite of computing services to do everything from data management to delivering web and video over the web to AI and machine learning tools**. Customers are able to access computer resources housed in Google's data centres around the world for free or on a pay-per-use basis.

GCP meant by:

Google Cloud Platform is **a suite of public cloud computing services offered by Google**. The platform includes a range of hosted services for compute, storage and application development that run on Google hardware.

Why Google Cloud Platform?

Google Cloud Platform, is a suite of cloud computing services that run on the **same infrastructure that Google uses internally for its end-user products,** such as Google Search , Gmail, Google Photos and YouTube. We all Know how big is the database of Gmail, YouTube and Google Search.

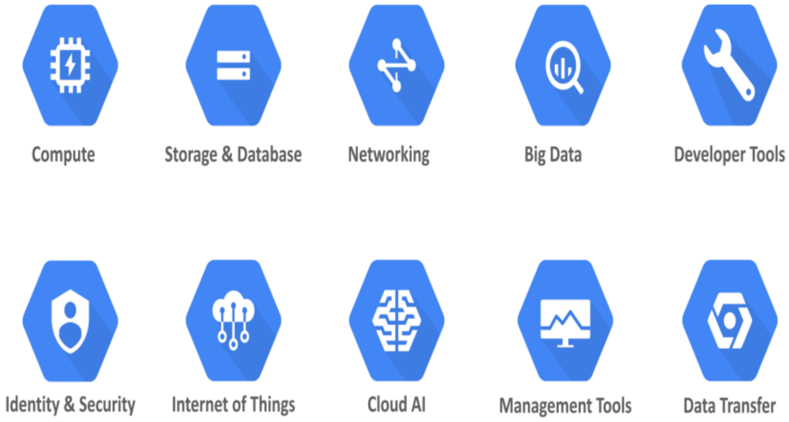


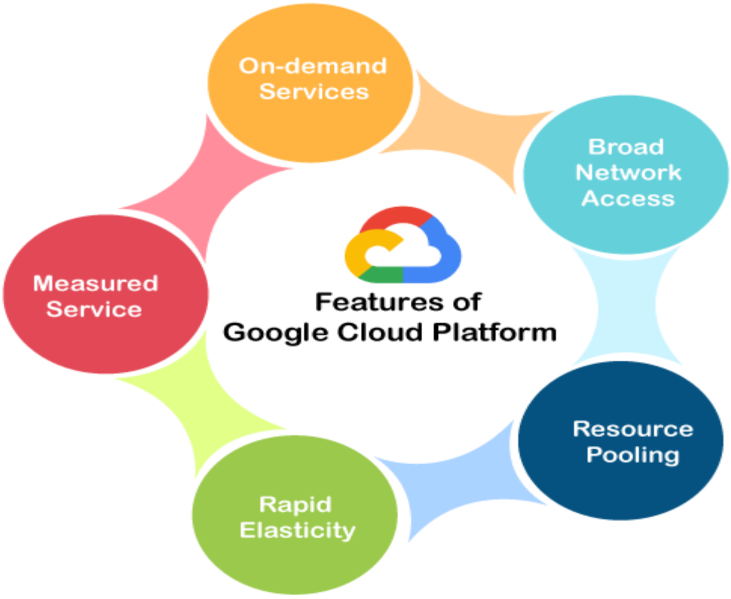
Google Cloud Platform Regions and Zones

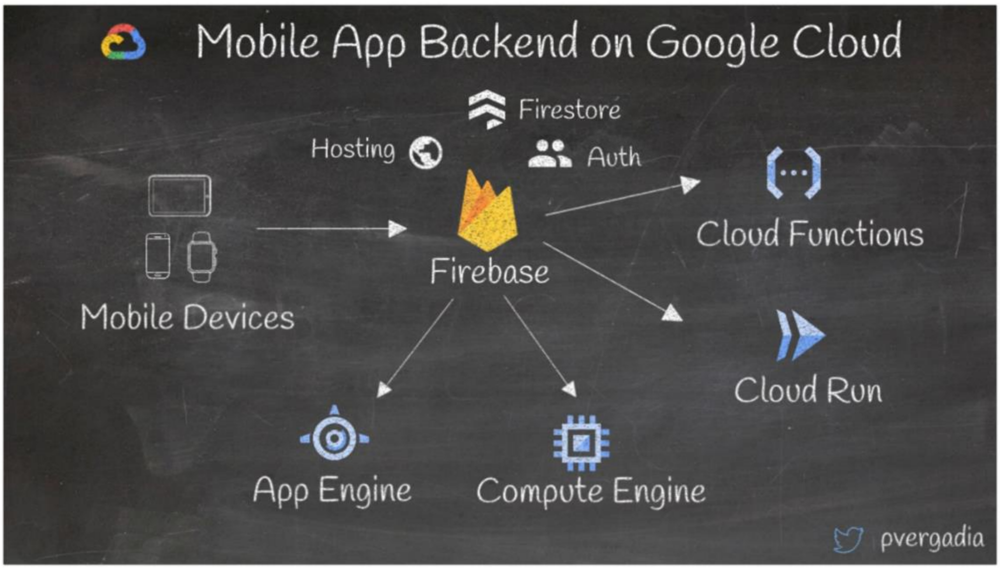
Google Cloud Platform services are available in various locations across North America, South America, Europe, Asia, and Australia. These locations are divided into regions and zones. You can choose where to locate your applications to meet your latency, availability and durability requirements.

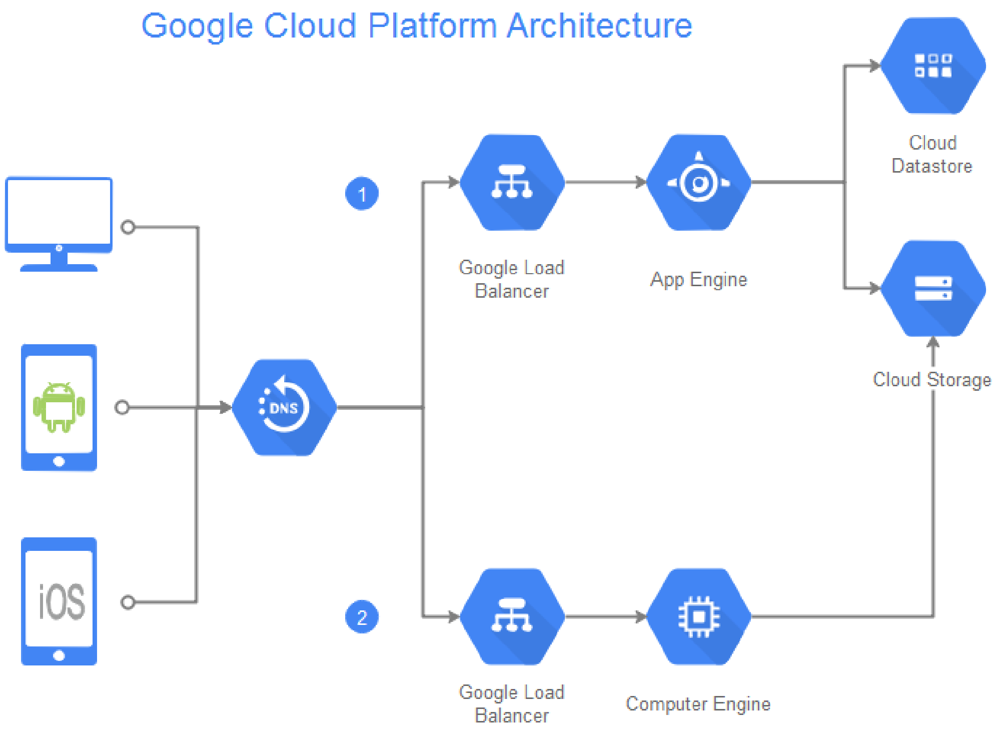
What are Google Cloud Platform (GCP) Services?

Google offers a wide range of Services. Following are the major Google Cloud Services:


Compute
Storage & Database
Networking
Big Data
Developer Tools
Identity & Security
Internet of Things
Cloud AI
Management Tools
Data Transfer


Features of
Google Cloud Platform
On-demand Services
Broad Network Access
Resource Pooling
Rapid Elasticity
Measured Service


Mobile App Backend on Google Cloud
Firestore
Hosting
Auth
Mobile Devices
Firebase
Cloud Functions
Cloud Run
App Engine
Compute Engine
pvergadia



Compute:

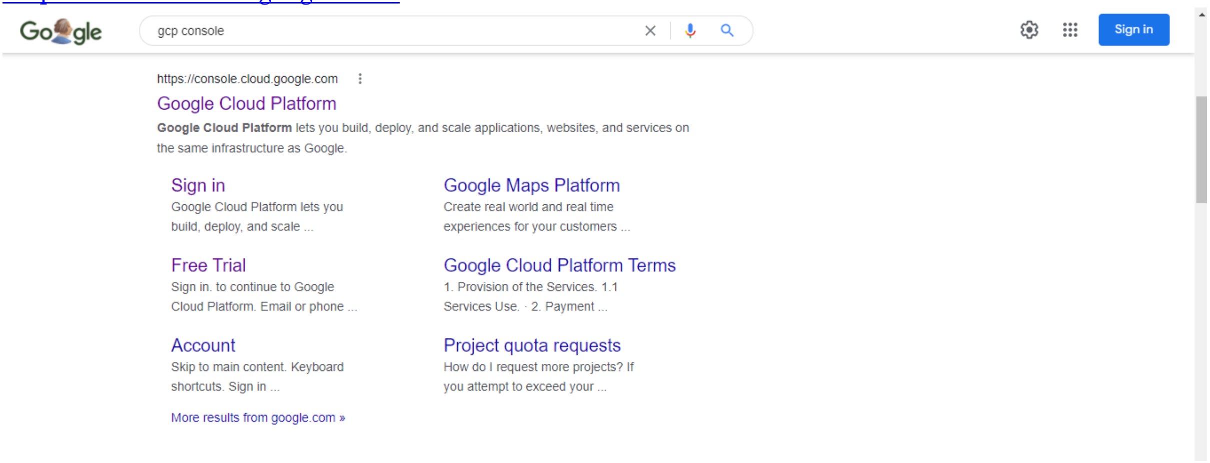
- App Engine - Platform as a Service to deploy Java, PHP, Node.js, Python, C#, .Net, Ruby and Go applications.
- Compute Engine - Infrastructure as a Service to run Microsoft Windows and Linux virtual machines.
- Google Kubernetes Engine (GKE) or GKE on-prem offered as part of Anthos platform - Containers as a Service based on Kubernetes.
- Cloud Functions - Functions as a Service to run event-driven code written in Node.js, Java, Python, or Go.
- Cloud Run - Compute execution environment based on Knative. Offered as Cloud Run (fully managed) or as Cloud Run for Anthos. Currently supports GCP, AWS and VMware management.

Steps to follow for deploy our source in GCP:

Steps to create Billing account.

Step 1:- Login to the below link

https://console.cloud.google.com/



gcp console

Sign in

https://console.cloud.google.com

Google Cloud Platform

Google Cloud Platform lets you build, deploy, and scale applications, websites, and services on the same infrastructure as Google.

Sign in
Google Cloud Platform lets you build, deploy, and scale ...

Google Maps Platform
Create real world and real time experiences for your customers ...

Free Trial
Sign in. to continue to Google Cloud Platform. Email or phone ...

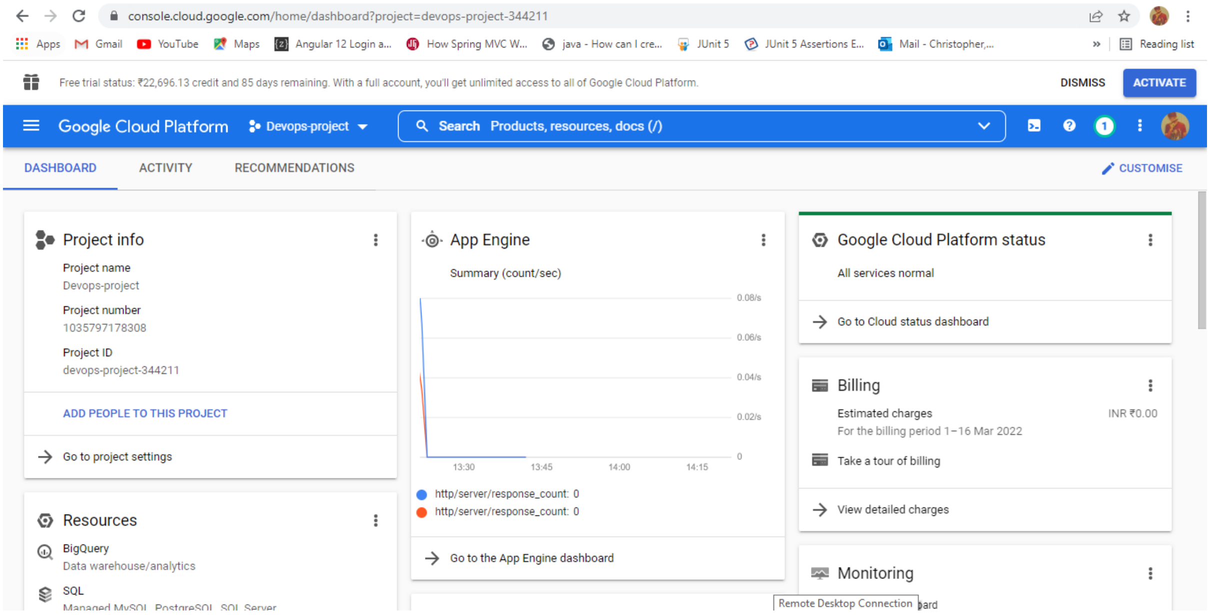
Google Cloud Platform Terms
1. Provision of the Services. 1.1 Services Use. · 2. Payment ...

Account
Skip to main content. Keyboard shortcuts. Sign in ...

Project quota requests
How do I request more projects? If you attempt to exceed your ...

More results from google.com »

Step 2:- After login, go to GCP Dashboard.



console.cloud.google.com/home/dashboard?project=devops-project-344211

Apps · Gmail · YouTube · Maps · Angular 12 Login a... · How Spring MVC W... · java - How can I cre... · JUnit 5 · JUnit 5 Assertions E... · Mail - Christopher,... · Reading list

Free trial status: ₹22,696.13 credit and 85 days remaining. With a full account, you'll get unlimited access to all of Google Cloud Platform. DISMISS ACTIVATE

Google Cloud Platform · Devops-project · Search Products, resources, docs (/)

DASHBOARD · ACTIVITY · RECOMMENDATIONS · CUSTOMISE

Project info
Project name: Devops-project
Project number: 1035797178308
Project ID: devops-project-344211
ADD PEOPLE TO THIS PROJECT
Go to project settings

App Engine
Summary (count/sec)

http/server/response_count: 0
http/server/response_count: 0
Go to the App Engine dashboard

Google Cloud Platform status
All services normal
Go to Cloud status dashboard

Billing
Estimated charges INR ₹0.00
For the billing period 1–16 Mar 2022
Take a tour of billing
View detailed charges

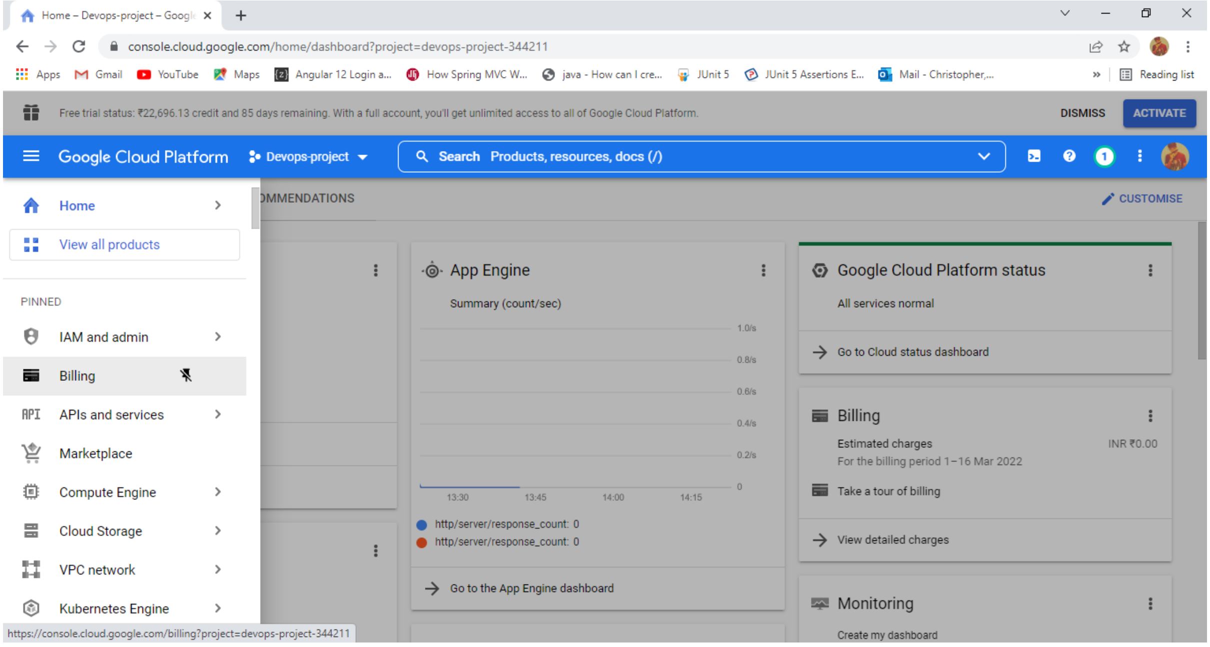
Resources
BigQuery
Data warehouse/analytics
SQL
Managed MySQL, PostgreSQL, SQL Server

Monitoring

Remote Desktop Connection

Step 3:- In Dashboard We will find a Home -> Billing

Click **Billing** to create the account.



Free trial status: ₹22,696.13 credit and 85 days remaining. With a full account, you'll get unlimited access to all of Google Cloud Platform.

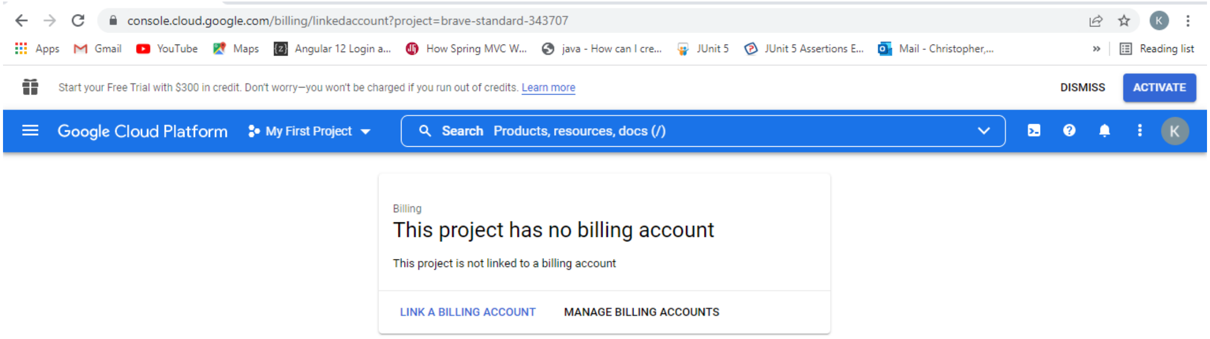
App Engine: Summary (count/sec) — http/server/response_count: 0; http/server/response_count: 0

Google Cloud Platform status: All services normal

Billing: Estimated charges INR ₹0.00 — For the billing period 1–16 Mar 2022

https://console.cloud.google.com/billing?project=devops-project-344211

Step 4:- Here we need to Link the billing account.



Start your Free Trial with $300 in credit. Don't worry—you won't be charged if you run out of credits. Learn more

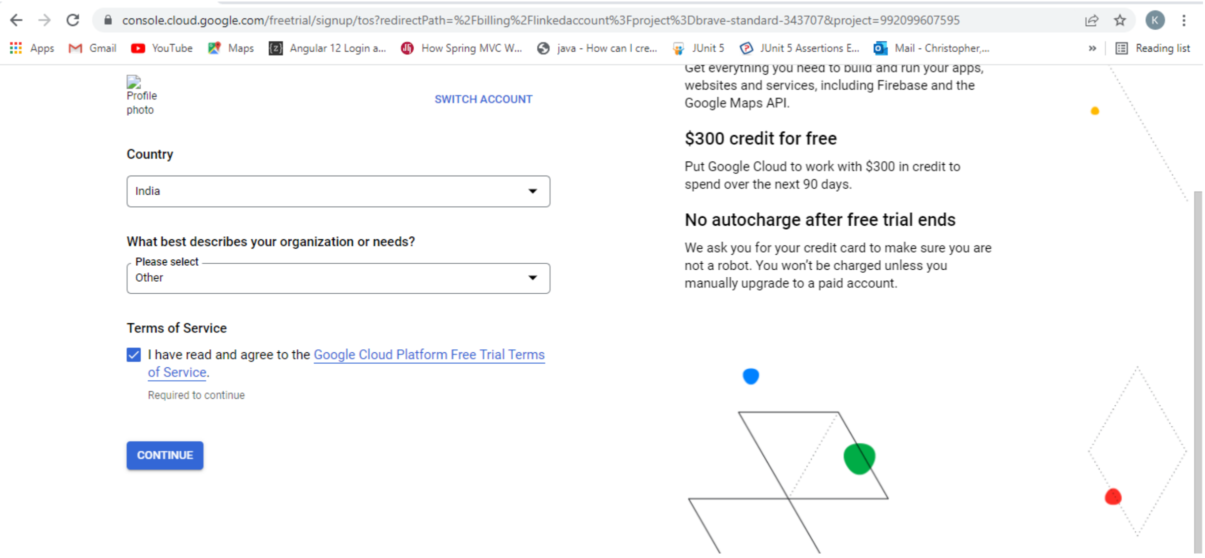
Billing

This project has no billing account

This project is not linked to a billing account

Step 5:- After Clicking the Link a Billing account, It will navigate to billing window for creating billing account. Once Window open

Select country→India and **click Continue**.



Get everything you need to build and run your apps, websites and services, including Firebase and the Google Maps API.

$300 credit for free

Put Google Cloud to work with $300 in credit to spend over the next 90 days.

No autocharge after free trial ends

We ask you for your credit card to make sure you are not a robot. You won't be charged unless you manually upgrade to a paid account.

Country

India

What best describes your organization or needs?

Please select
Other

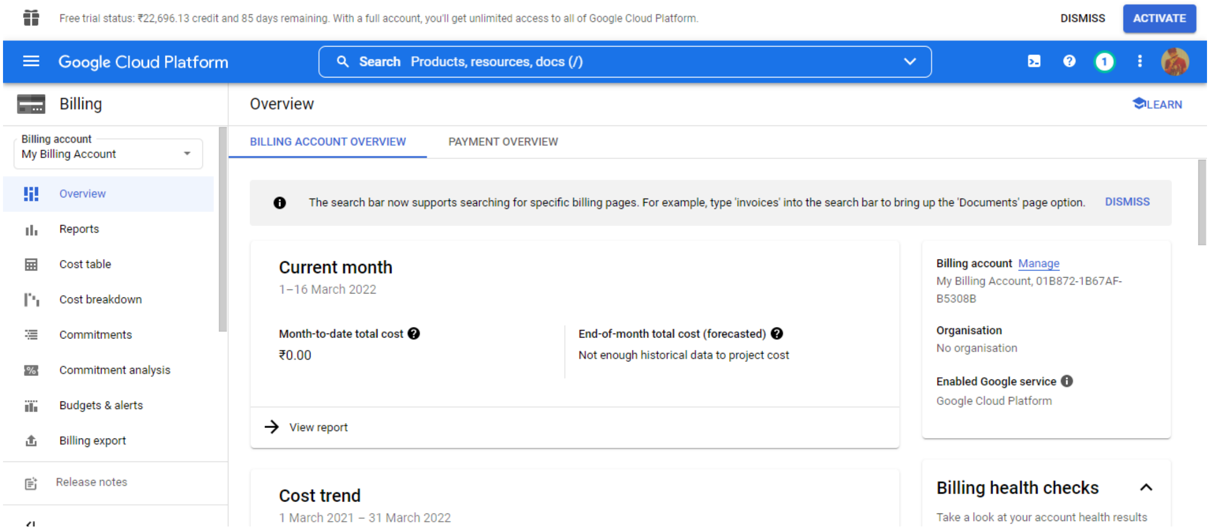
Terms of Service

☑ I have read and agree to the Google Cloud Platform Free Trial Terms of Service.

Required to continue

CONTINUE

Step 6:- Once billing account created, your billing account dashboard looks like this.


Free trial status: ₹22,696.13 credit and 85 days remaining. With a full account, you'll get unlimited access to all of Google Cloud Platform.

Overview

The search bar now supports searching for specific billing pages. For example, type 'invoices' into the search bar to bring up the 'Documents' page option. DISMISS

Current month

1–16 March 2022

Month-to-date total cost
₹0.00

End-of-month total cost (forecasted)
Not enough historical data to project cost

View report

Billing account Manage
My Billing Account, 01B872-1B67AF-B5308B

Organisation
No organisation

Enabled Google service
Google Cloud Platform

Cost trend
1 March 2021 – 31 March 2022

Billing health checks
Take a look at your account health results

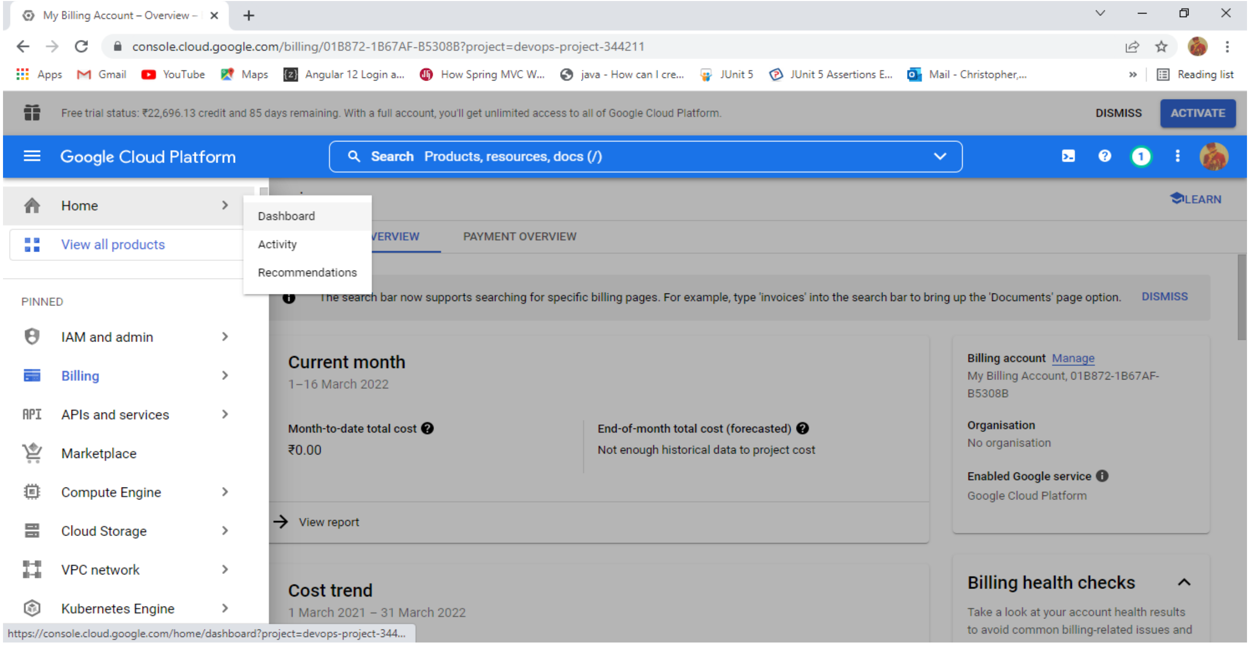
2. Setup and requirements:

Self-paced environment Setup:

Sign in to **Cloud Console** and create a new project or reuse an existing one. If you don't already have a Gmail or Google Workspace account, you must **create one**.

Steps to create New Project in GCP:

Step 7:-In order to create a project go to Home -> Dashboard and top Right corner **Click →New Project** as show in the below image.



Free trial status: ₹22,696.13 credit and 85 days remaining. With a full account, you'll get unlimited access to all of Google Cloud Platform.

The search bar now supports searching for specific billing pages. For example, type 'invoices' into the search bar to bring up the 'Documents' page option. DISMISS

Current month
1–16 March 2022

Month-to-date total cost
₹0.00

End-of-month total cost (forecasted)
Not enough historical data to project cost

Billing account Manage
My Billing Account, 01B872-1B67AF-B5308B

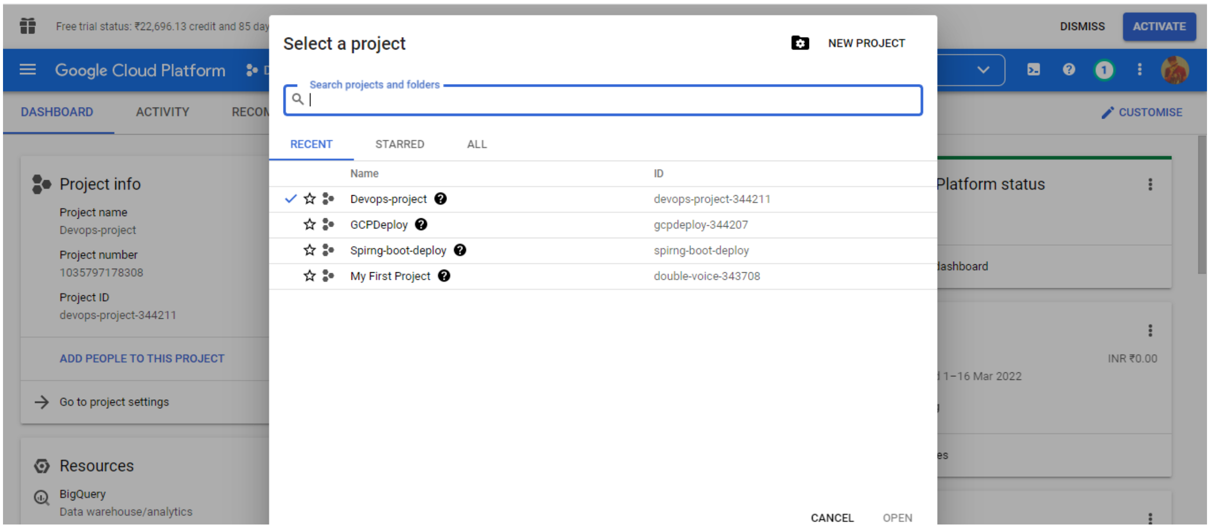
Organisation
No organisation

Enabled Google service
Google Cloud Platform

Cost trend
1 March 2021 – 31 March 2022

Billing health checks
Take a look at your account health results to avoid common billing-related issues and

Click →New Project

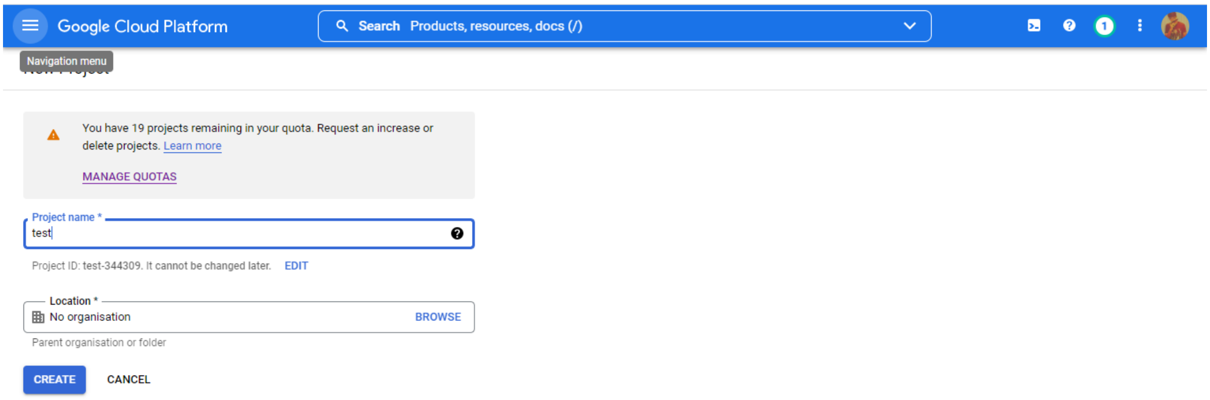


Project info
Project name
Devops-project
Project number
1035797178308
Project ID
devops-project-344211

Resources
BigQuery
Data warehouse/analytics

Name	ID
✓ Devops-project	devops-project-344211
GCPDeploy	gcpdeploy-344207
Spirng-boot-deploy	spirng-boot-deploy
My First Project	double-voice-343708

Step 8:- Enter the project name shown in the image:



You have 19 projects remaining in your quota. Request an increase or delete projects. Learn more

MANAGE QUOTAS

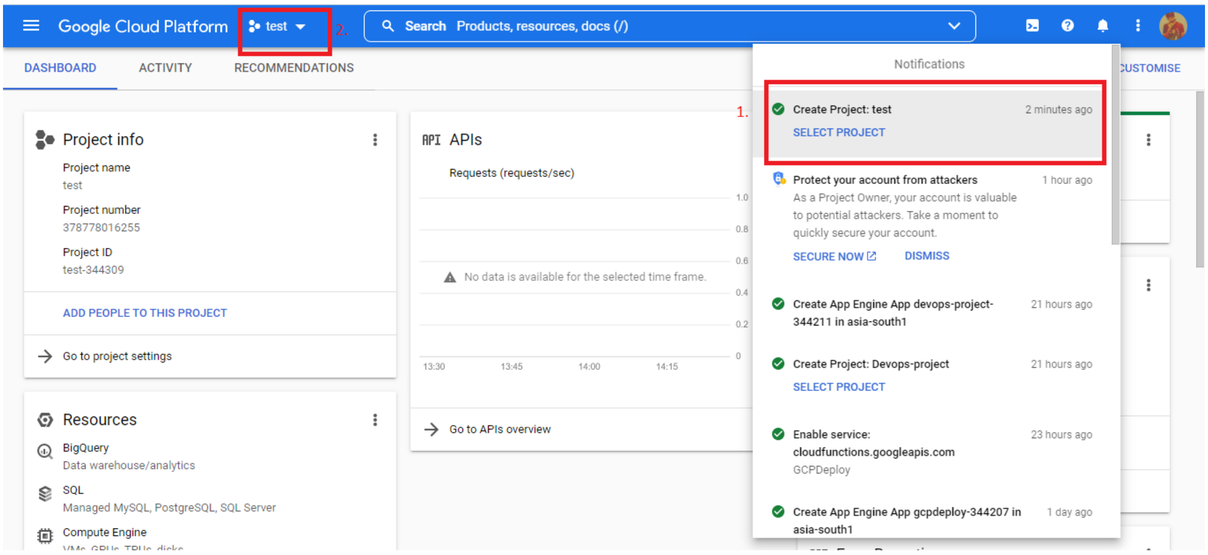
Project name *
test

Project ID: test-344309. It cannot be changed later. EDIT

Location *
No organisation BROWSE

Parent organisation or folder

Once Project is created, our created project will looks likes this.



Create Project: test — 2 minutes ago — SELECT PROJECT

Protect your account from attackers — 1 hour ago
As a Project Owner, your account is valuable to potential attackers. Take a moment to quickly secure your account.
SECURE NOW DISMISS

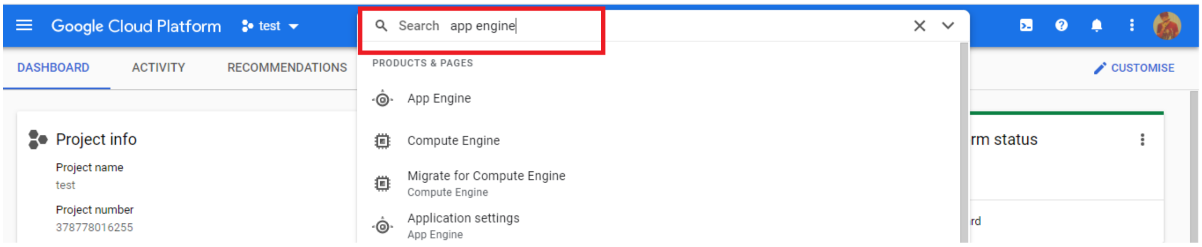
Create App Engine App devops-project-344211 in asia-south1 — 21 hours ago

Create Project: Devops-project — 21 hours ago — SELECT PROJECT

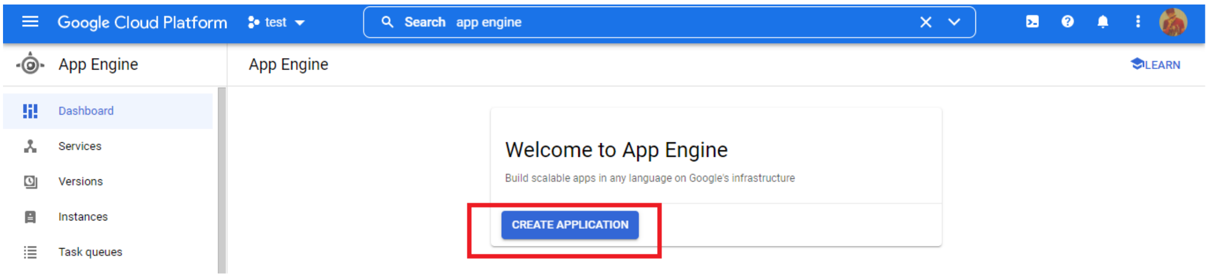
Enable service: cloudfunctions.googleapis.com — 23 hours ago
GCPDeploy

Create App Engine App gcpdeploy-344207 in asia-south1 — 1 day ago

Step 9:- In search bar type **App engine** and select the engine:



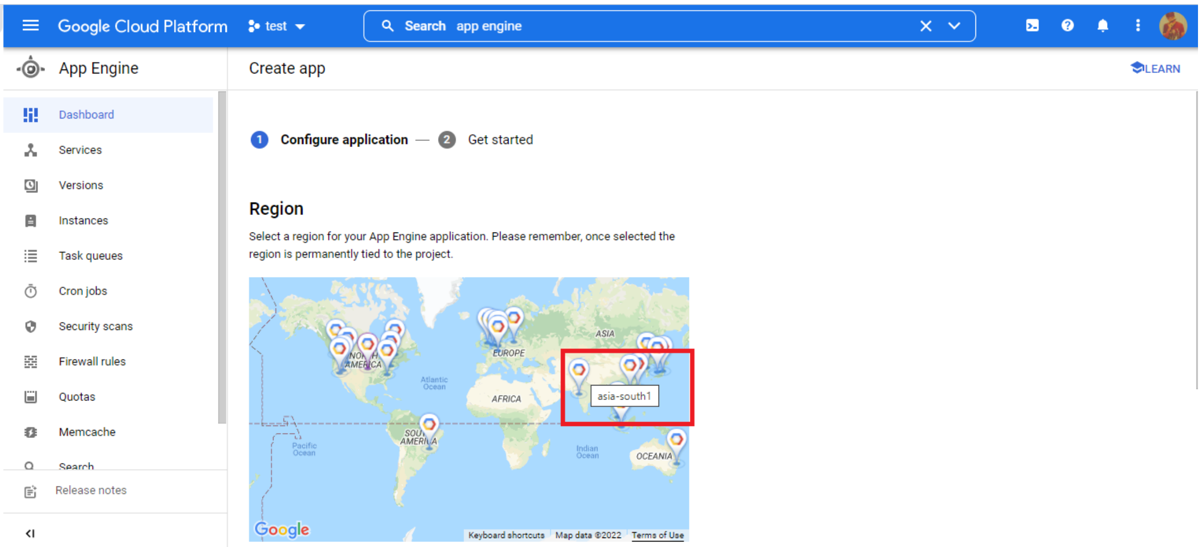
Once App Engine is selected **click→ Create Application**



Welcome to App Engine

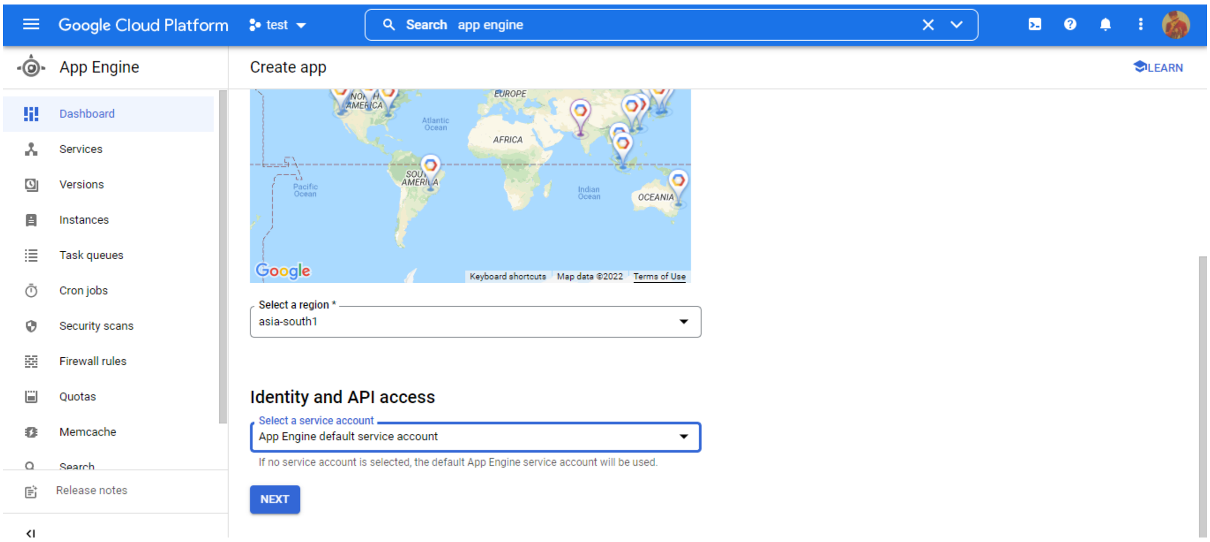
Build scalable apps in any language on Google's infrastructure

Then create app window will open in that **select region as Asia- south1** which let as We are in India South.



Region

Select a region for your App Engine application. Please remember, once selected the region is permanently tied to the project.



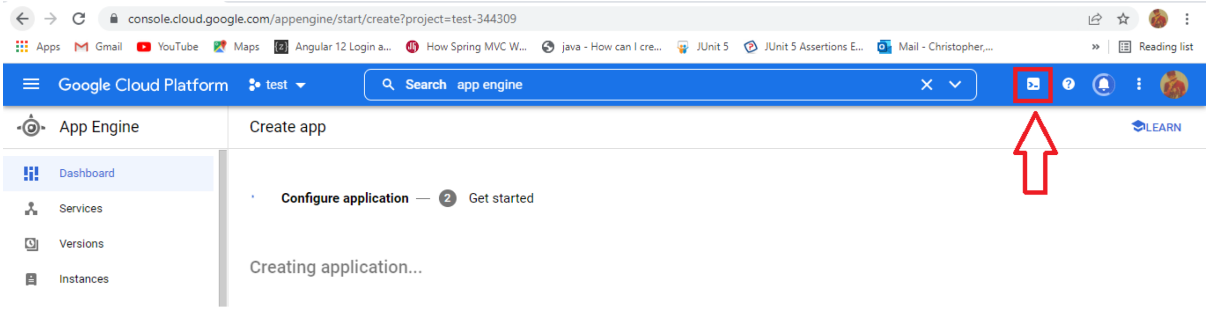
Select a region * asia-south1

Identity and API access

Select a service account: App Engine default service account

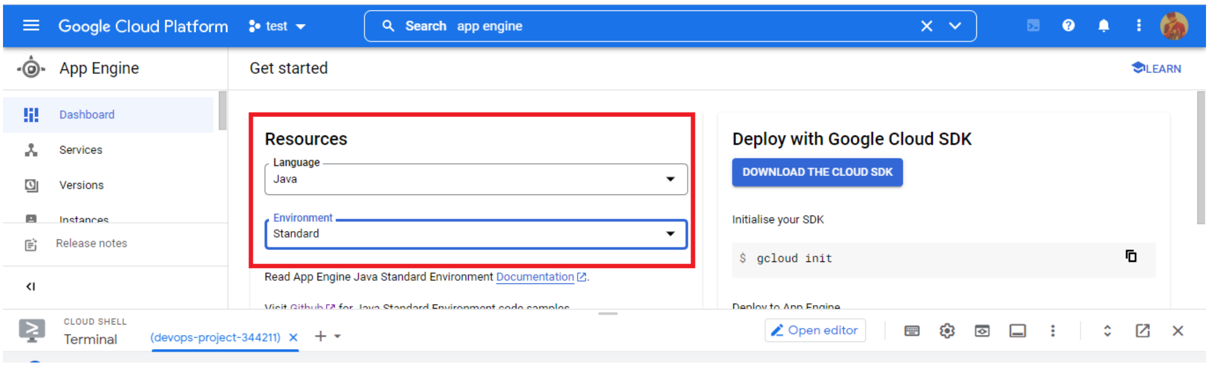
If no service account is selected, the default App Engine service account will be used.

Step 10:- After creating all these steps we need to click the Cloud Shell to run our commands (like Command Promote).



Creating application...

To Get Start we need to select languages as Java and environment as Standard.



Language: Java

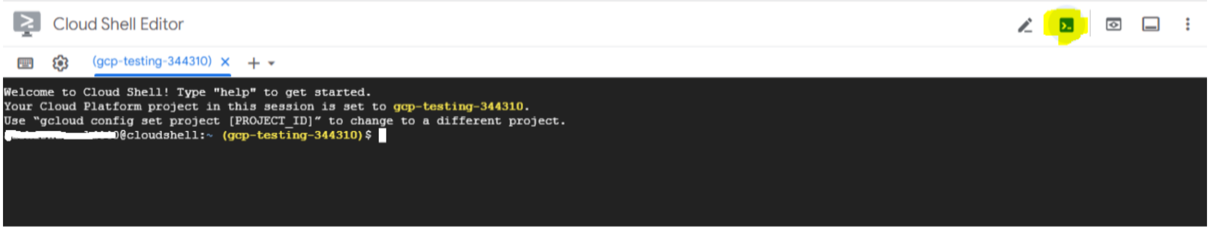
Environment: Standard

Read App Engine Java Standard Environment Documentation.

Initialise your SDK

```
$ gcloud init
```

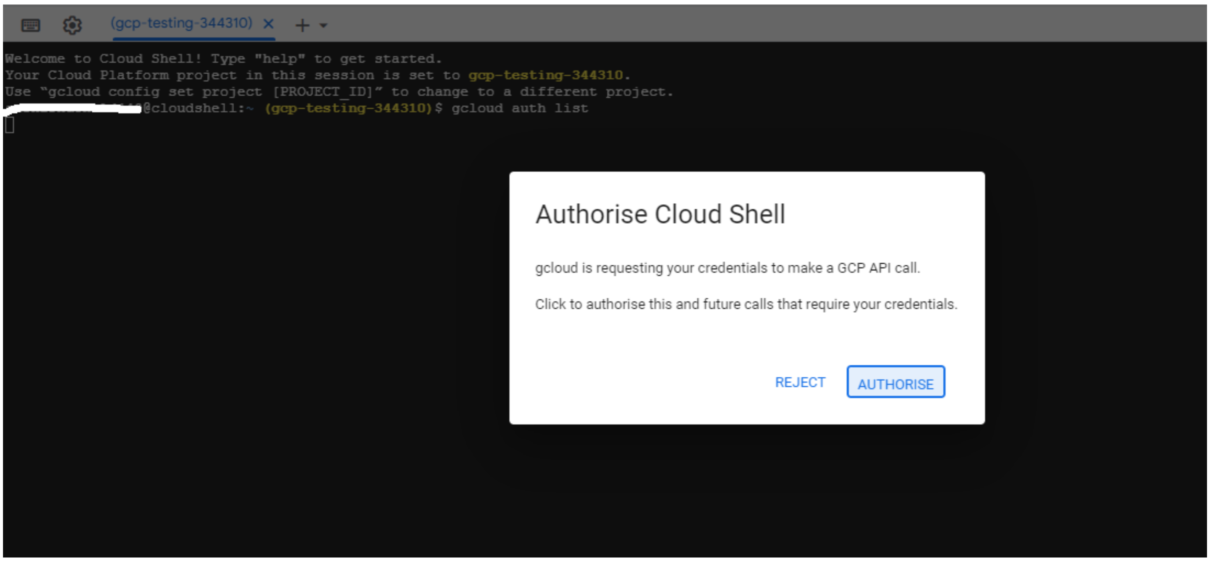
Step 11:- Once the shell is open it looks like this.



```
Welcome to Cloud Shell! Type "help" to get started.
Your Cloud Platform project in this session is set to gcp-testing-344310.
Use "gcloud config set project [PROJECT_ID]" to change to a different project.
[redacted]0@cloudshell:~ (gcp-testing-344310)$
```

Run the following command in Cloud Shell to confirm that you are authenticated:

Step 12:- Run the following command in cloud shell to confirm you're you are authenticated.→**gcloud auth list** to authenticated. It will give the authorised username and essential details.

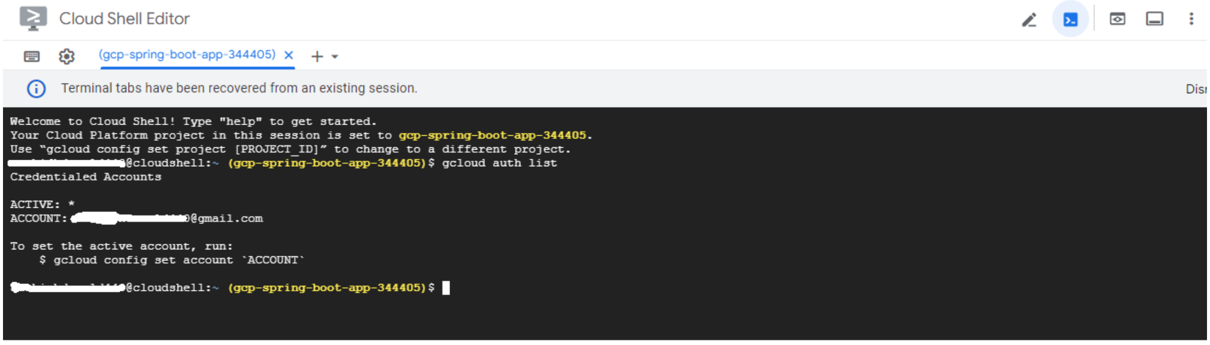


```
Welcome to Cloud Shell! Type "help" to get started.
Your Cloud Platform project in this session is set to gcp-testing-344310.
Use "gcloud config set project [PROJECT_ID]" to change to a different project.
[redacted]@cloudshell:~ (gcp-testing-344310)$ gcloud auth list
```

Authorise Cloud Shell

gcloud is requesting your credentials to make a GCP API call.

Click to authorise this and future calls that require your credentials.

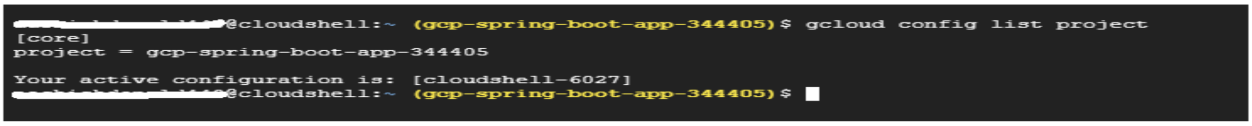


Terminal tabs have been recovered from an existing session.

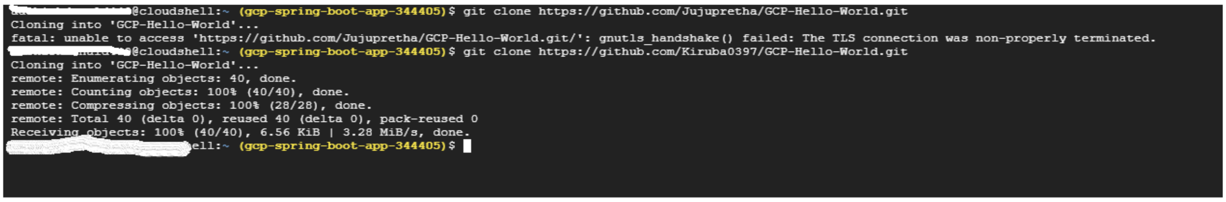
```
Welcome to Cloud Shell! Type "help" to get started.
Your Cloud Platform project in this session is set to gcp-spring-boot-app-344405.
Use "gcloud config set project [PROJECT_ID]" to change to a different project.
[redacted]@cloudshell:~ (gcp-spring-boot-app-344405)$ gcloud auth list
Credentialed Accounts

ACTIVE: *
ACCOUNT: [redacted]@gmail.com

To set the active account, run:
    $ gcloud config set account `ACCOUNT`

[redacted]@cloudshell:~ (gcp-spring-boot-app-344405)$
```

Step 13:- Run the following command in Cloud Shell to confirm that the gcloud command knows about your project:

gcloud config list project



```
[redacted]@cloudshell:~ (gcp-spring-boot-app-344405)$ gcloud config list project
[core]
project = gcp-spring-boot-app-344405

Your active configuration is: [cloudshell-6027]
[redacted]@cloudshell:~ (gcp-spring-boot-app-344405)$
```



```
[redacted]@cloudshell:~ (gcp-spring-boot-app-344405)$ git clone https://github.com/Jujupretha/GCP-Hello-World.git
Cloning into 'GCP-Hello-World'...
fatal: unable to access 'https://github.com/Jujupretha/GCP-Hello-World.git/': gnutls_handshake() failed: The TLS connection was non-properly terminated.
[redacted]@cloudshell:~ (gcp-spring-boot-app-344405)$ git clone https://github.com/Kiruba0397/GCP-Hello-World.git
Cloning into 'GCP-Hello-World'...
remote: Enumerating objects: 40, done.
remote: Counting objects: 100% (40/40), done.
remote: Compressing objects: 100% (28/28), done.
remote: Total 40 (delta 0), reused 40 (delta 0), pack-reused 0
Receiving objects: 100% (40/40), 6.56 KiB | 3.28 MiB/s, done.
[redacted]ell:~ (gcp-spring-boot-app-344405)$
```

Steps to create spring boot Application:

Here we have given the simple hello world program to deploy in GCP.

Create a new Spring Boot App

Create basic program and do the following steps.

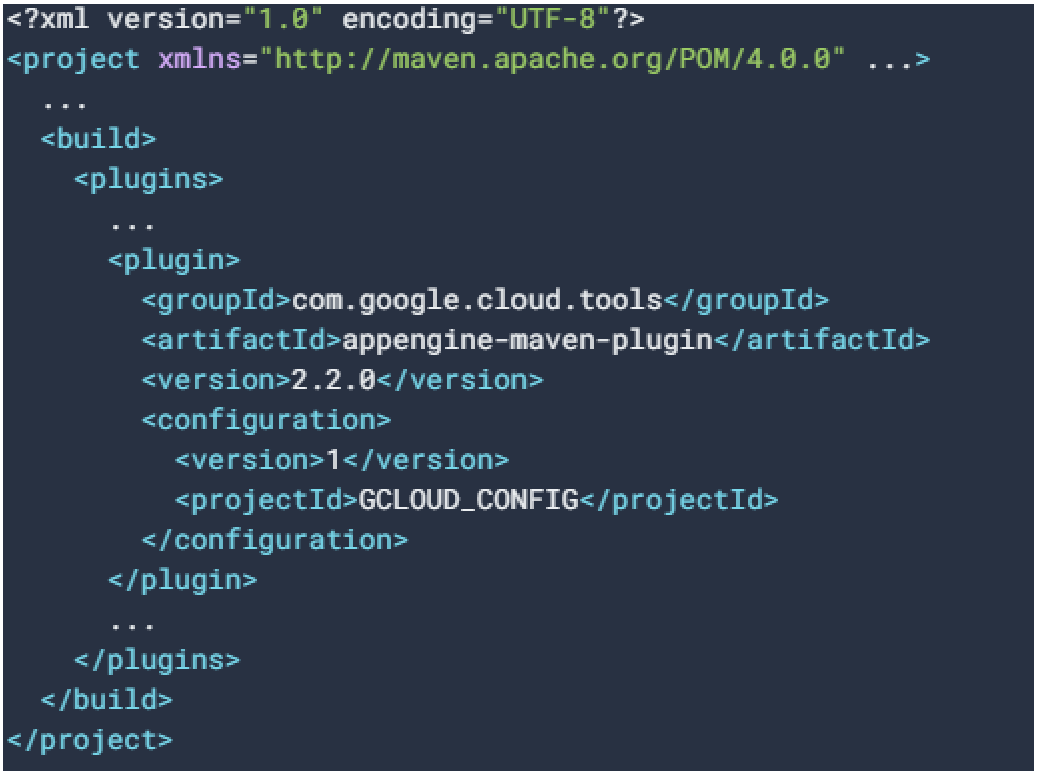
Update Maven pom.xml

There are two ways to deploy a Java server app – either by using Maven App Engine Plugin or Gradle App Engine Plugin, or by deploying the War package directory. You'll use Maven App Engine Plugin to deploy the app.

Add Maven App Engine Plugin

Update pom.xml to include a Google Cloud Plugin that simplifies the deployment process.

pom.xml

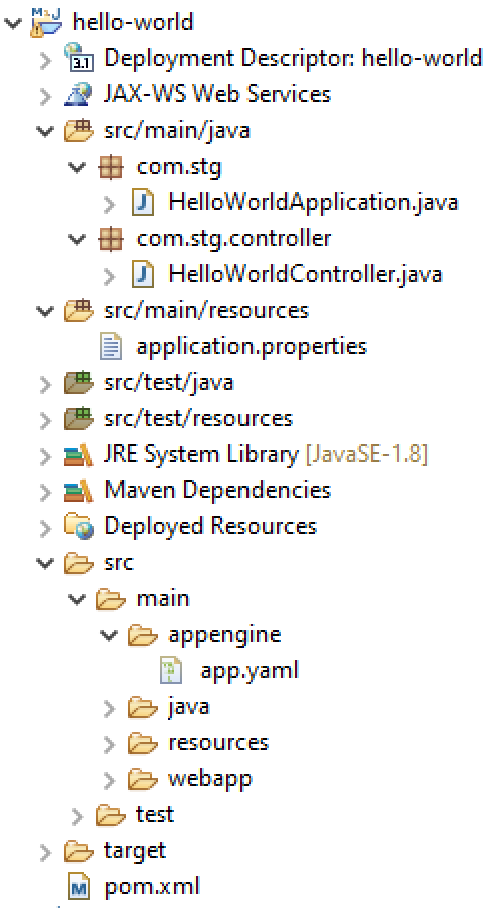


```xml
<?xml version="1.0" encoding="UTF-8"?>
<project xmlns="http://maven.apache.org/POM/4.0.0" ...>
  ...
  <build>
    <plugins>
      ...
      <plugin>
        <groupId>com.google.cloud.tools</groupId>
        <artifactId>appengine-maven-plugin</artifactId>
        <version>2.2.0</version>
        <configuration>
          <version>1</version>
          <projectId>GCLOUD_CONFIG</projectId>
        </configuration>
      </plugin>
      ...
    </plugins>
  </build>
</project>
```

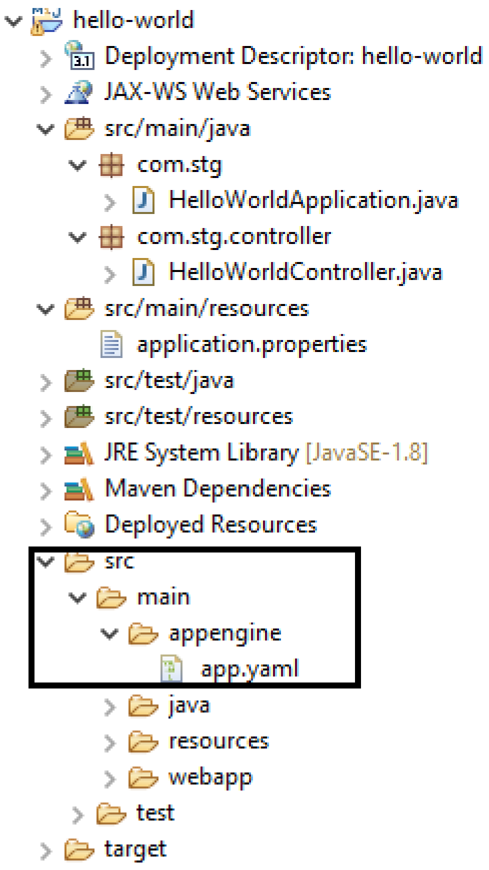
Add App Engine descriptor

To deploy the app to App Engine standard environment, you must create a new src/main/appengine/app.yaml descriptor file.

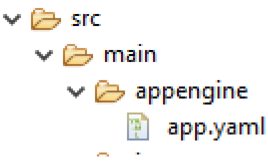
Project Structure Looks as shown in below image:



```
hello-world
  Deployment Descriptor: hello-world
  JAX-WS Web Services
  src/main/java
    com.stg
      HelloWorldApplication.java
    com.stg.controller
      HelloWorldController.java
  src/main/resources
    application.properties
  src/test/java
  src/test/resources
  JRE System Library [JavaSE-1.8]
  Maven Dependencies
  Deployed Resources
  src
    main
      appengine
        app.yaml
      java
      resources
      webapp
    test
  target
  pom.xml
```

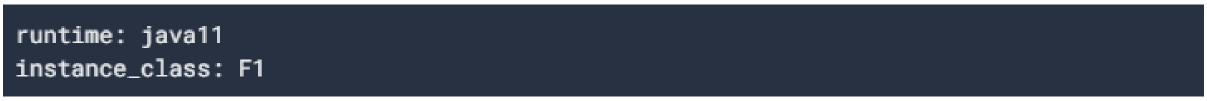


```
hello-world
  Deployment Descriptor: hello-world
  JAX-WS Web Services
  src/main/java
    com.stg
      HelloWorldApplication.java
    com.stg.controller
      HelloWorldController.java
  src/main/resources
    application.properties
  src/test/java
  src/test/resources
  JRE System Library [JavaSE-1.8]
  Maven Dependencies
  Deployed Resources
  src
    main
      appengine
        app.yaml
      java
      resources
      webapp
    test
  target
```



Edit the src/main/appengine/app.yaml file and add the following content:

src/main/appengine/app.yaml

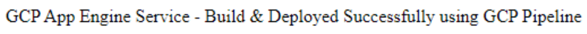


```
runtime: java11
instance_class: F1
```

Add a controller

Add a new controller that returns "GCP App Engine Service - Build & Deployed Successfully using GCP Pipeline" in GcpApplication.java.

Once all done Start your application run and see the Output locally.



GCP App Engine Service - Build & Deployed Successfully using GCP Pipeline

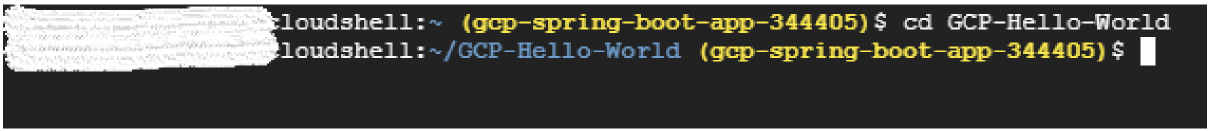
After doing all the steps push your code in Git.

To check and ref use the below Repository:

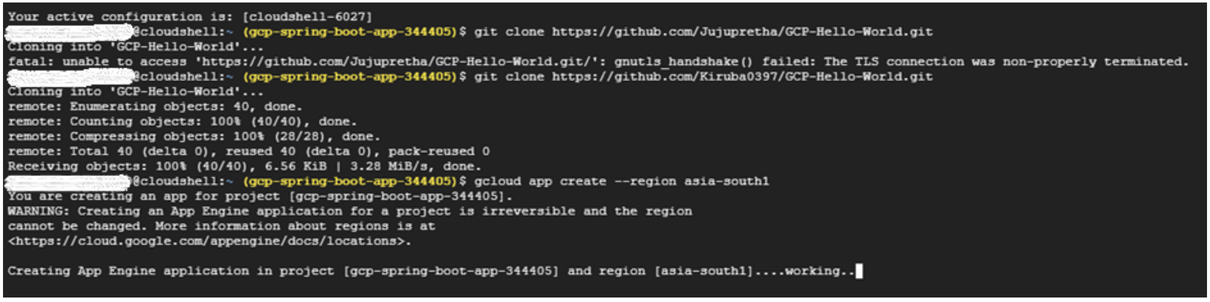
https://github.com/Kiruba0397/testgcp.git

Deploy the app to App Engine

First, initialize the project to be able to run App Engine apps. Also, initialize the project to run in the central region of the US.

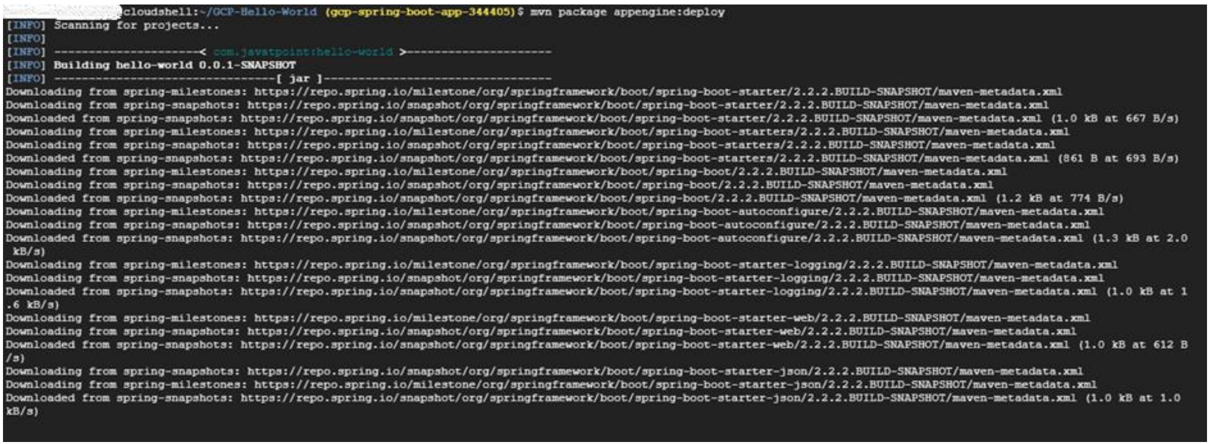


```
[redacted]loudshell:~ (gcp-spring-boot-app-344405)$ cd GCP-Hello-World
loudshell:~/GCP-Hello-World (gcp-spring-boot-app-344405)$ 
```

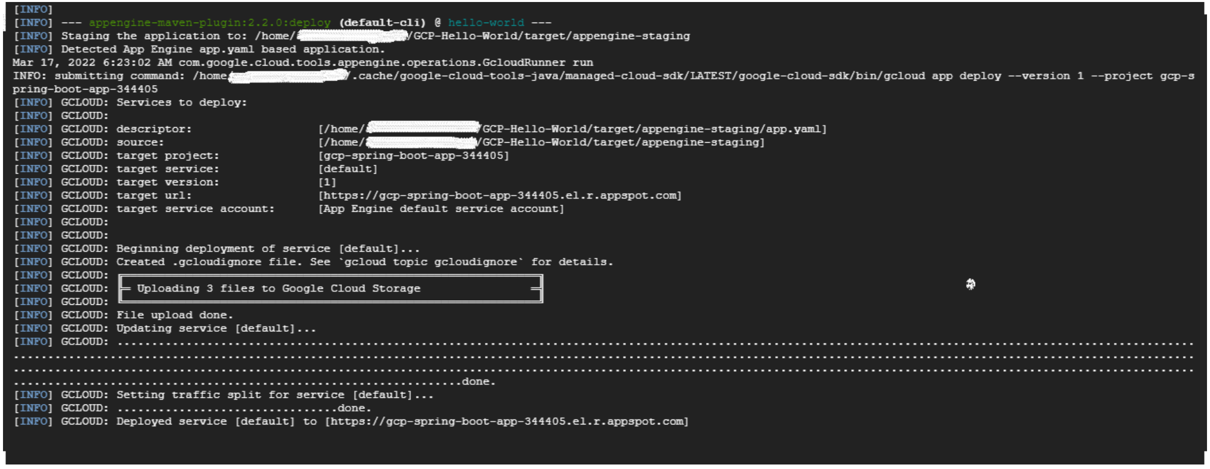


```
Your active configuration is: [cloudshell-6027]
[redacted]@cloudshell:~ (gcp-spring-boot-app-344405)$ git clone https://github.com/Jujupretha/GCP-Hello-World.git
Cloning into 'GCP-Hello-World'...
fatal: unable to access 'https://github.com/Jujupretha/GCP-Hello-World.git/': gnutls_handshake() failed: The TLS connection was non-properly terminated.
[redacted]@cloudshell:~ (gcp-spring-boot-app-344405)$ git clone https://github.com/Kiruba0397/GCP-Hello-World.git
Cloning into 'GCP-Hello-World'...
remote: Enumerating objects: 40, done.
remote: Counting objects: 100% (40/40), done.
remote: Compressing objects: 100% (28/28), done.
remote: Total 40 (delta 0), reused 40 (delta 0), pack-reused 0
Receiving objects: 100% (40/40), 6.56 KiB | 3.28 MiB/s, done.
[redacted]@cloudshell:~ (gcp-spring-boot-app-344405)$ gcloud app create --region asia-south1
You are creating an app for project [gcp-spring-boot-app-344405].
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>.

Creating App Engine application in project [gcp-spring-boot-app-344405] and region [asia-south1]....working..
```

Then, deploy your app to App Engine standard environment by running mvn appengine:deploy

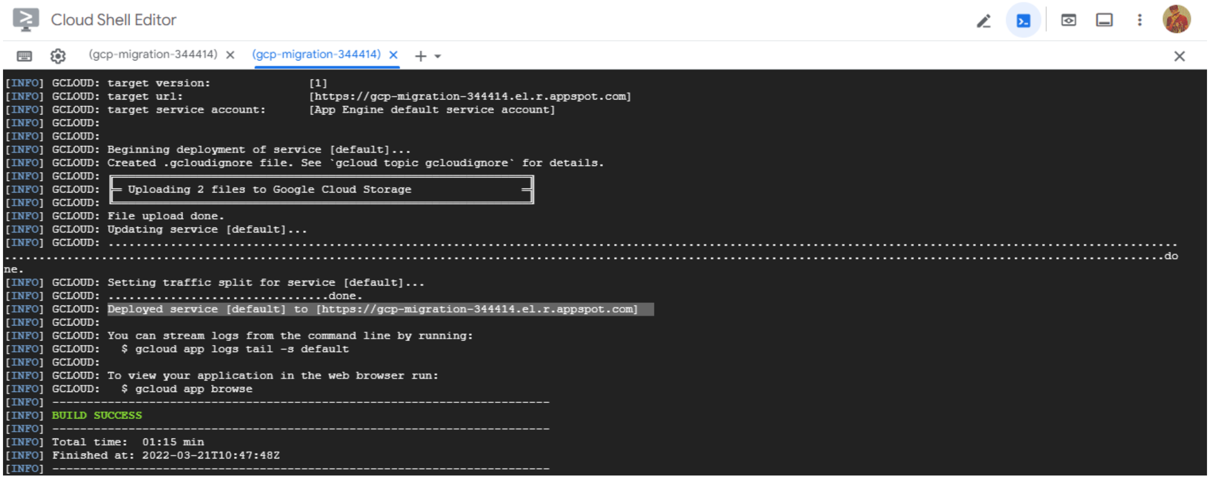


```
[redacted]cloudshell:~/GCP-Hello-World (gcp-spring-boot-app-344405)$ mvn package appengine:deploy
[INFO] Scanning for projects...
[INFO]
[INFO] -------------------< com.javatpoint:hello-world >--------------------
[INFO] Building hello-world 0.0.1-SNAPSHOT
[INFO] --------------------------------[ jar ]---------------------------------
Downloading from spring-milestones: https://repo.spring.io/milestone/org/springframework/boot/spring-boot-starter/2.2.2.BUILD-SNAPSHOT/maven-metadata.xml
Downloading from spring-snapshots: https://repo.spring.io/snapshot/org/springframework/boot/spring-boot-starter/2.2.2.BUILD-SNAPSHOT/maven-metadata.xml
Downloaded from spring-snapshots: https://repo.spring.io/snapshot/org/springframework/boot/spring-boot-starter/2.2.2.BUILD-SNAPSHOT/maven-metadata.xml (1.0 kB at 667 B/s)
Downloading from spring-milestones: https://repo.spring.io/milestone/org/springframework/boot/spring-boot-starters/2.2.2.BUILD-SNAPSHOT/maven-metadata.xml
Downloading from spring-snapshots: https://repo.spring.io/snapshot/org/springframework/boot/spring-boot-starters/2.2.2.BUILD-SNAPSHOT/maven-metadata.xml
Downloaded from spring-snapshots: https://repo.spring.io/snapshot/org/springframework/boot/spring-boot-starters/2.2.2.BUILD-SNAPSHOT/maven-metadata.xml (861 B at 693 B/s)
Downloading from spring-milestones: https://repo.spring.io/milestone/org/springframework/boot/spring-boot/2.2.2.BUILD-SNAPSHOT/maven-metadata.xml
Downloading from spring-snapshots: https://repo.spring.io/snapshot/org/springframework/boot/spring-boot/2.2.2.BUILD-SNAPSHOT/maven-metadata.xml
Downloaded from spring-snapshots: https://repo.spring.io/snapshot/org/springframework/boot/spring-boot/2.2.2.BUILD-SNAPSHOT/maven-metadata.xml (1.2 kB at 774 B/s)
Downloading from spring-milestones: https://repo.spring.io/milestone/org/springframework/boot/spring-boot-autoconfigure/2.2.2.BUILD-SNAPSHOT/maven-metadata.xml
Downloading from spring-snapshots: https://repo.spring.io/snapshot/org/springframework/boot/spring-boot-autoconfigure/2.2.2.BUILD-SNAPSHOT/maven-metadata.xml
Downloaded from spring-snapshots: https://repo.spring.io/snapshot/org/springframework/boot/spring-boot-autoconfigure/2.2.2.BUILD-SNAPSHOT/maven-metadata.xml (1.3 kB at 2.0
 kB/s)
Downloading from spring-milestones: https://repo.spring.io/milestone/org/springframework/boot/spring-boot-starter-logging/2.2.2.BUILD-SNAPSHOT/maven-metadata.xml
Downloading from spring-snapshots: https://repo.spring.io/snapshot/org/springframework/boot/spring-boot-starter-logging/2.2.2.BUILD-SNAPSHOT/maven-metadata.xml
Downloaded from spring-snapshots: https://repo.spring.io/snapshot/org/springframework/boot/spring-boot-starter-logging/2.2.2.BUILD-SNAPSHOT/maven-metadata.xml (1.0 kB at 1
.6 kB/s)
Downloading from spring-milestones: https://repo.spring.io/milestone/org/springframework/boot/spring-boot-starter-web/2.2.2.BUILD-SNAPSHOT/maven-metadata.xml
Downloading from spring-snapshots: https://repo.spring.io/snapshot/org/springframework/boot/spring-boot-starter-web/2.2.2.BUILD-SNAPSHOT/maven-metadata.xml
Downloaded from spring-snapshots: https://repo.spring.io/snapshot/org/springframework/boot/spring-boot-starter-web/2.2.2.BUILD-SNAPSHOT/maven-metadata.xml (1.0 kB at 612 B
/s)
Downloading from spring-snapshots: https://repo.spring.io/snapshot/org/springframework/boot/spring-boot-starter-json/2.2.2.BUILD-SNAPSHOT/maven-metadata.xml
Downloading from spring-milestones: https://repo.spring.io/milestone/org/springframework/boot/spring-boot-starter-json/2.2.2.BUILD-SNAPSHOT/maven-metadata.xml
Downloaded from spring-snapshots: https://repo.spring.io/snapshot/org/springframework/boot/spring-boot-starter-json/2.2.2.BUILD-SNAPSHOT/maven-metadata.xml (1.0 kB at 1.0
kB/s)
```



```
[INFO]
[INFO] --- appengine-maven-plugin:2.2.0:deploy (default-cli) @ hello-world ---
[INFO] Staging the application to: /home/[redacted]/GCP-Hello-World/target/appengine-staging
[INFO] Detected App Engine app.yaml based application.
Mar 17, 2022 6:23:02 AM com.google.cloud.tools.appengine.operations.GcloudRunner run
INFO: submitting command: /home[redacted]/.cache/google-cloud-tools-java/managed-cloud-sdk/LATEST/google-cloud-sdk/bin/gcloud app deploy --version 1 --project gcp-s
pring-boot-app-344405
[INFO] GCLOUD: Services to deploy:
[INFO] GCLOUD:
[INFO] GCLOUD: descriptor:                [/home/[redacted]/GCP-Hello-World/target/appengine-staging/app.yaml]
[INFO] GCLOUD: source:                    [/home/[redacted]/GCP-Hello-World/target/appengine-staging]
[INFO] GCLOUD: target project:            [gcp-spring-boot-app-344405]
[INFO] GCLOUD: target service:            [default]
[INFO] GCLOUD: target version:            [1]
[INFO] GCLOUD: target url:                [https://gcp-spring-boot-app-344405.el.r.appspot.com]
[INFO] GCLOUD: target service account:    [App Engine default service account]
[INFO] GCLOUD:
[INFO] GCLOUD:
[INFO] GCLOUD: Beginning deployment of service [default]...
[INFO] GCLOUD: Created .gcloudignore file. See `gcloud topic gcloudignore` for details.
[INFO] GCLOUD: ╔════════════════════════════════════════════════════════════╗
[INFO] GCLOUD: ╠═ Uploading 3 files to Google Cloud Storage                 ═╣
[INFO] GCLOUD: ╚════════════════════════════════════════════════════════════╝
[INFO] GCLOUD: File upload done.
[INFO] GCLOUD: Updating service [default]...
[INFO] GCLOUD: ..............................................................................................................................................
..................................................................................................................................................................
..................................................................................................................................................................
.................................................................done.
[INFO] GCLOUD: Setting traffic split for service [default]...
[INFO] GCLOUD: ...............................done.
[INFO] GCLOUD: Deployed service [default] to [https://gcp-spring-boot-app-344405.el.r.appspot.com]
```

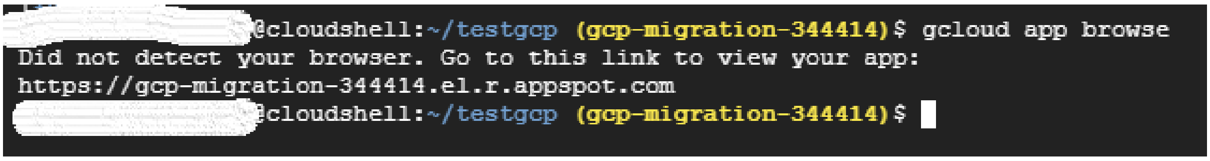
It will load for some time and at last it will show Build success.



```
[INFO] GCLOUD: target version:            [1]
[INFO] GCLOUD: target url:                [https://gcp-migration-344414.el.r.appspot.com]
[INFO] GCLOUD: target service account:    [App Engine default service account]
[INFO] GCLOUD:
[INFO] GCLOUD:
[INFO] GCLOUD: Beginning deployment of service [default]...
[INFO] GCLOUD: Created .gcloudignore file. See `gcloud topic gcloudignore` for details.
[INFO] GCLOUD: ╔════════════════════════════════════════════════════════════╗
[INFO] GCLOUD: ╠═ Uploading 2 files to Google Cloud Storage                 ═╣
[INFO] GCLOUD: ╚════════════════════════════════════════════════════════════╝
[INFO] GCLOUD: File upload done.
[INFO] GCLOUD: Updating service [default]...
[INFO] GCLOUD: ................................................................................................................................................
...............................................................................................................................................................do
ne.
[INFO] GCLOUD: Setting traffic split for service [default]...
[INFO] GCLOUD: ...............................done.
[INFO] GCLOUD: Deployed service [default] to [https://gcp-migration-344414.el.r.appspot.com]
[INFO] GCLOUD:
[INFO] GCLOUD: You can stream logs from the command line by running:
[INFO] GCLOUD:   $ gcloud app logs tail -s default
[INFO] GCLOUD:
[INFO] GCLOUD: To view your application in the web browser run:
[INFO] GCLOUD:   $ gcloud app browse
[INFO] ------------------------------------------------------------------------
[INFO] BUILD SUCCESS
[INFO] ------------------------------------------------------------------------
[INFO] Total time:  01:15 min
[INFO] Finished at: 2022-03-21T10:47:48Z
[INFO] ------------------------------------------------------------------------
```

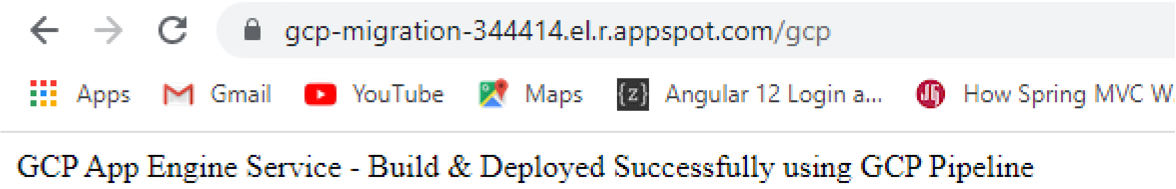
After the app is deployed, you can visit it by opening http://<project-id>.appspot.com in your web browser or use the following command in Cloud Shell:

Here we get the URL that is deployed in the GCP.



```
[redacted]@cloudshell:~/testgcp (gcp-migration-344414)$ gcloud app browse
Did not detect your browser. Go to this link to view your app:
https://gcp-migration-344414.el.r.appspot.com
[redacted]@cloudshell:~/testgcp (gcp-migration-344414)$
```

OutPut in GCP:



GCP App Engine Service - Build & Deployed Successfully using GCP Pipeline

The URL is: “https://gcp-migration-344414.el.r.appspot.com/gcp"