Practical-4 To Demonstrate Platform as a Service using Googleapp Engine/ IBM BlueMix/ tSuru

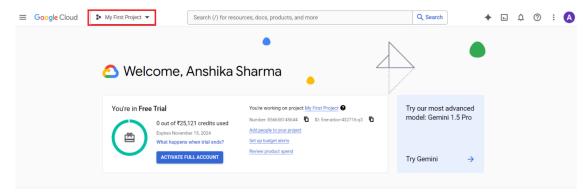
Name: Anshika Sharma SAP ID: 86062300034

Roll No: A061

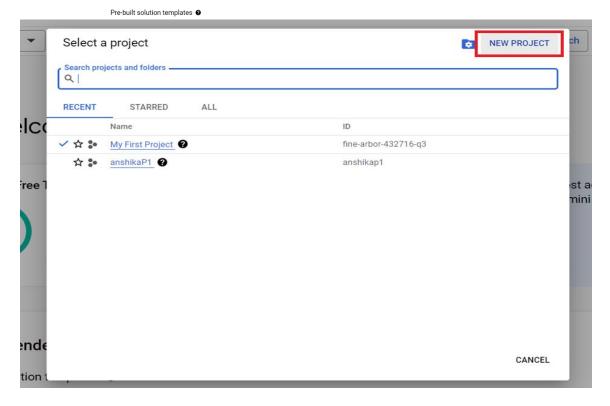
1. Firstly, Create an account with Google Cloud Platform.

After being signed up, a page like below appears.

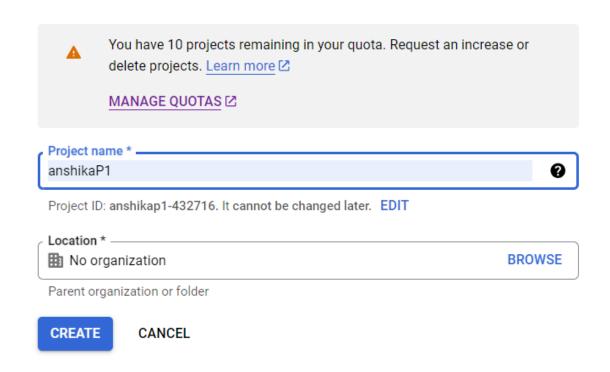
Click on My First Project and then NEW PROJECT.



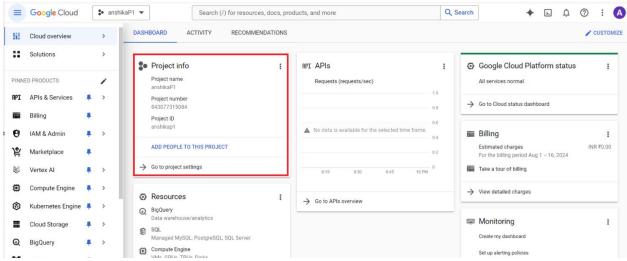
Recommended based on your interest in Web, Mobile, Game, Storage



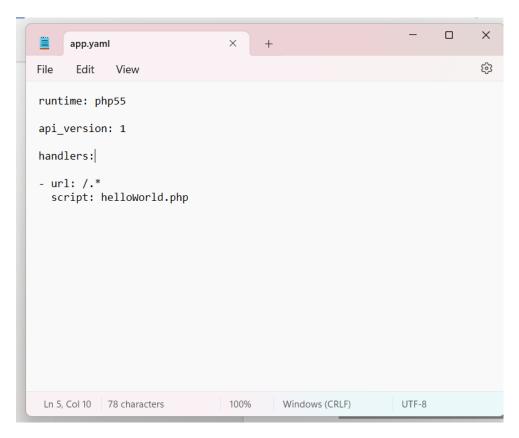
Provide Project name, this part will be unique. Location can be No organizationNew Project



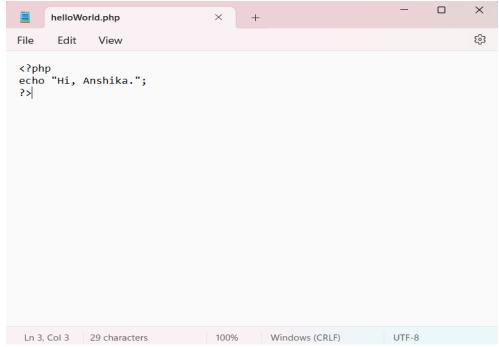
3. After Google cloud creates new project as per name specified in previous step, it opens up project home, showing dashboard. Highlighted part will be unique.



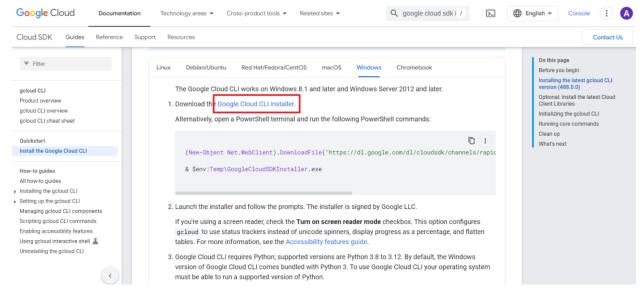
4. Create a new configuration file app.yaml. yaml file contains information about your app's code, such as the runtime and the latest version identifier. Each service in your app has its own app. yaml file, which acts as a descriptor for its deployment.



5. Create a PHP code to upload and run.



6. In order to deploy and run the PHP code on Google cloud platform download latest Google Cloud SDK and install it.

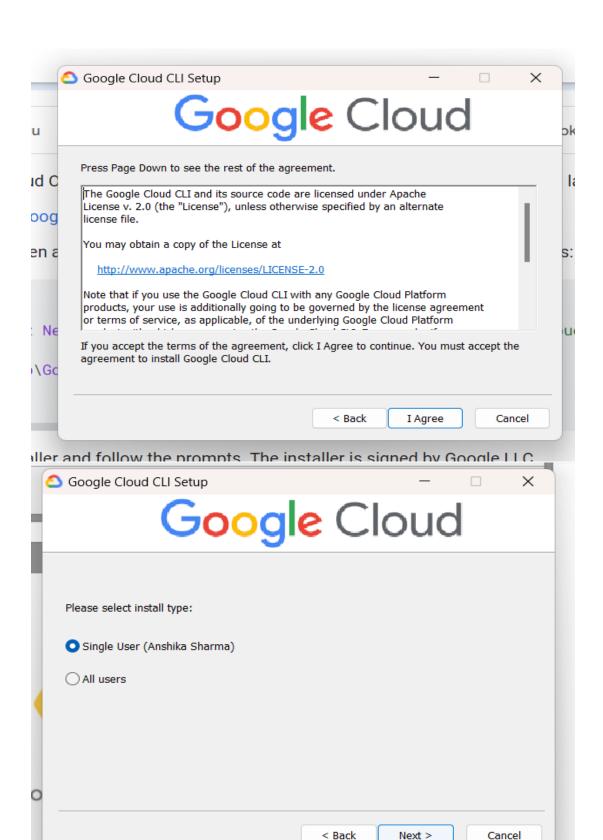


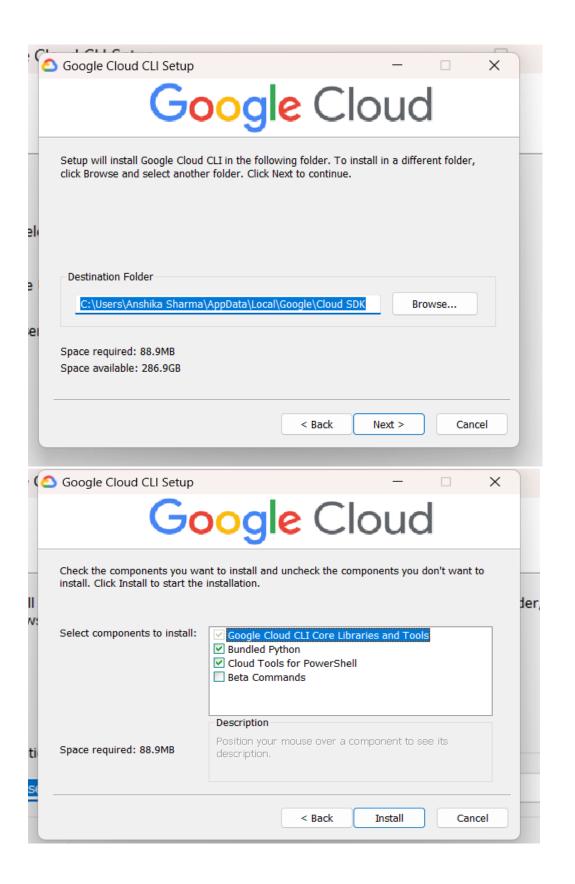
7. After installation of PHP, open Google cloud SDK installer. It will take some time to download and install SDK from Google Server. At end of installation check Start Google Cloud SDK Shell and Run 'gcloud init' to configure the Cloud SDK.

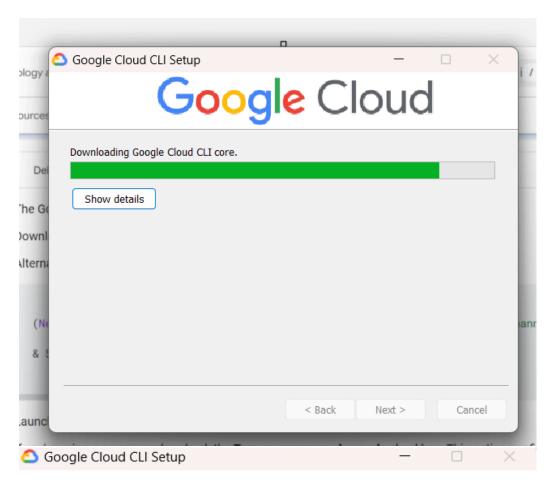


nch the installer and follow the prompts. The installer is signed by Google LLC.

u're using a screen reader, check the **Turn on screen reader mode** checkbox. This option configure







Completing Google Cloud CLI Setup

Google Cloud CLI has been installed on your computer.

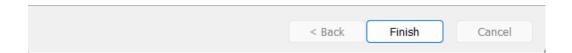
Click Finish to close Setup.

Create Start Menu shortcut

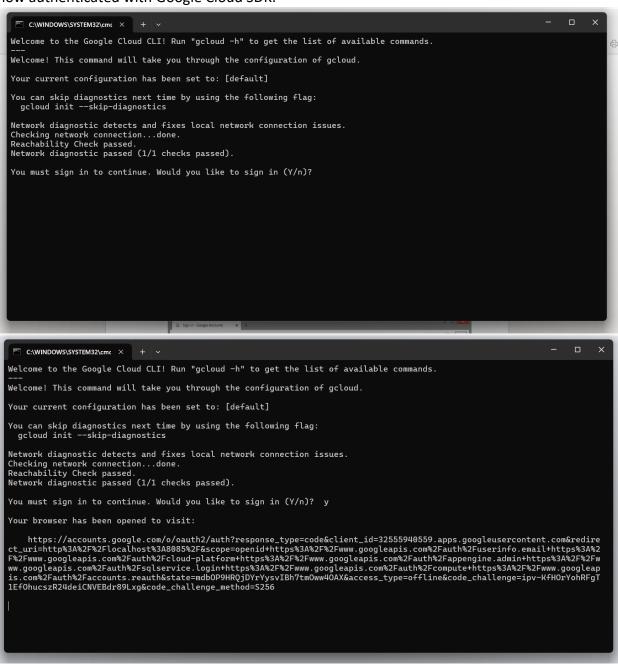
Create Desktop shortcut

Start Google Cloud SDK Shell

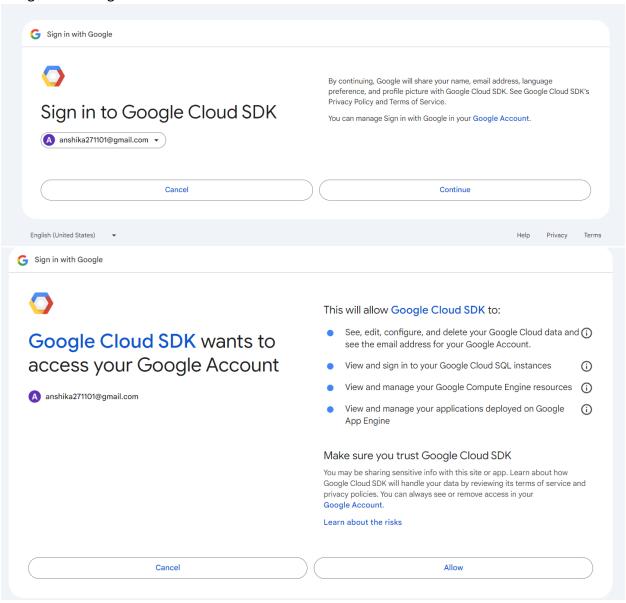
Run 'gcloud init' to configure the Google Cloud CLI



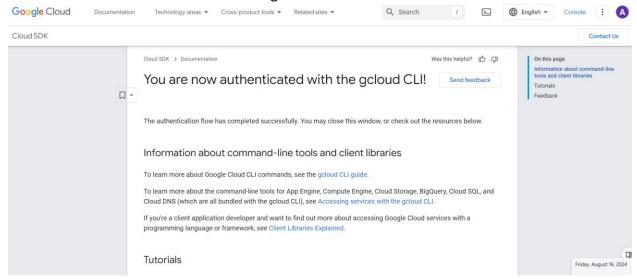
8. Previous step will open up command prompt with gcloud init command running automatically. It will ask you to login using Google account on which you have joined Google Cloud Platform. After successful login web browser page of cloud.google.com will show You are now authenticated with Google Cloud SDK.



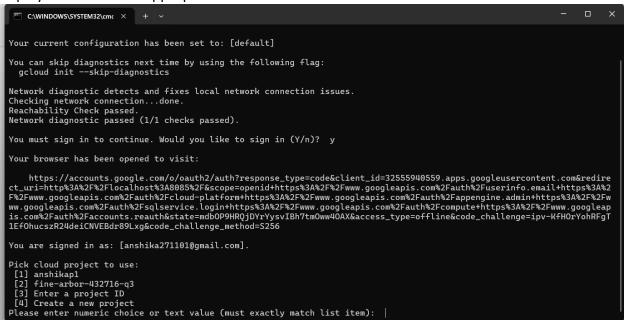
9. Sign in to Google Cloud SDK



10. You are now authenticated with Google Cloud CLI



11. In command prompt, running in background will ask you to select project you want to deploy and run. Enter appropriate number and hit enter.



```
[4] Create a new project
Please enter numeric choice or text value (must exactly match list item): 1

Your current project has been set to: [anshikap1].

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.

Error creating a default .boto configuration file. Please run [gsutil config -n] if you would like to create this file.
The Google Cloud CLI is configured and ready to use!

* Commands that require authentication will use anshika271101@gmail.com by default
* Commands will reference project 'anshikap1' by default
Run 'gcloud help config' to learn how to change individual settings

This gcloud configuration is called [default]. You can create additional configurations if you work with multiple accounts and/or projects.

Run 'gcloud topic configurations' to learn more.

Some things to try next:

* Run 'gcloud --help' to see the Cloud Platform services you can interact with. And run 'gcloud help COMMAND' to get help on any gcloud command.

* Run 'gcloud topic --help' to see the Cloud Platform services you can interact with. And run 'gcloud help COMMAND' to get help on any gcloud command.
```

12. Change directory to folder where PHP and YAML file is residing.

```
C:\Users\Anshika Sharma\AppData\Local\Google\Cloud SDK>dir
 Volume in drive C is Windows-SSD
 Volume Serial Number is BCA3-1502
 Directory of C:\Users\Anshika Sharma\AppData\Local\Google\Cloud SDK
08/16/2024 11:11 PM
                          <DIR>
08/16/2024
             10:45 PM
                         <DIR>
08/16/2024
                                      85 app.yaml
            10:28 PM
08/16/2024
             10:46 PM
                                     281 cloud_env.bat
08/16/2024
            10:47 PM
                          <DIR>
                                         google-cloud-sdk
                                      31 helloWorld.php
08/16/2024
             10:32 PM
08/16/2024
            10:51 PM
                                       1 install_mode
                                  1,150 supercloud-16x16.ico
63,591 uninstaller.exe
65,139 bytes
06/12/2024
            12:00 AM
08/16/2024
             10:51 PM
                6 File(s)
                3 Dir(s) 306,784,690,176 bytes free
C:\Users\Anshika Sharma\AppData\Local\Google\Cloud SDK>
```

13. Type gcloud app deploy and select region of Google Data Center where you want to deploy your app, press 6 and press Enter for asia-south1, i.e. Mumbai. Press Y to continue with deployment. Result will show URL to launch your GoogleApp. Alternatively you can type gcloud app browse to open your App in browser. Further you can make change in PHP code, or add

more PHP code and repeat step 13.

```
C:\Users\Anshika Sharma\AppData\Local\Google\Cloud SDK>gcloud app deploy
You are creating an app for project [anshikapl].

MARNIMG: Creating an App Engine application for a project is irreversible and the region
cannot be changed. More information about regions is at
chttps://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-south1 (supports standard and flexible and search_api)
[6] asia-southseast3 (supports standard and flexible and search_api)
[9] austalia-southeast4 (supports standard and flexible and search_api)
[10] europe-west (supports standard and flexible and search_api)
[11] europe-west (supports standard and flexible)
[12] europe-west2 (supports standard and flexible)
[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)
```

14. Your 2 files will get uploaded to Google Cloud Storage.