CLOUD COMPUTING

PRACTICAL 4:To Demonstrate Platform as a Service using Google app <u>Engine</u>

Shriomi Gite

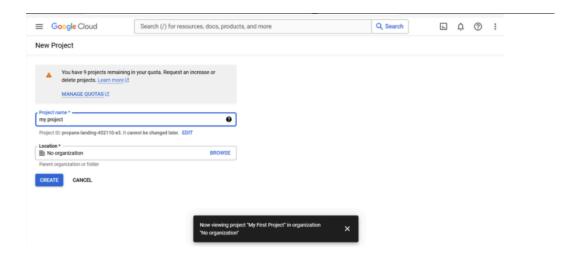
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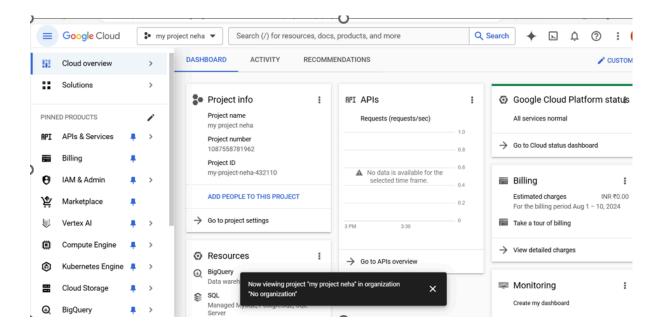
1. Create an account with Google Cloud Platform and Click on My First Project and then NEW PROJECT.



2. Provide Project name "my project". Location can be No organization.



2. After Google cloud creates new project as per name specified in previous step, it opens up project home, showing dashboard.



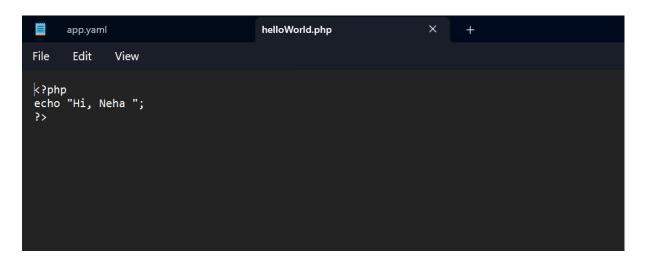
4. Create a new configuration file app.yaml. yaml file contains information about your app's code, such as the runtime and the latest version identifier. Each service in your app has its own app. yaml file, which acts as a descriptor for its deployment.

```
app.yaml × +

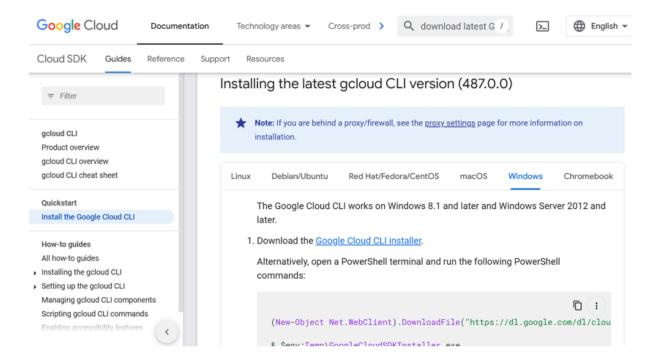
File Edit View

runtime:php55
api_version:1
handlers:
- url: /.*
  script: helloWorld.php
```

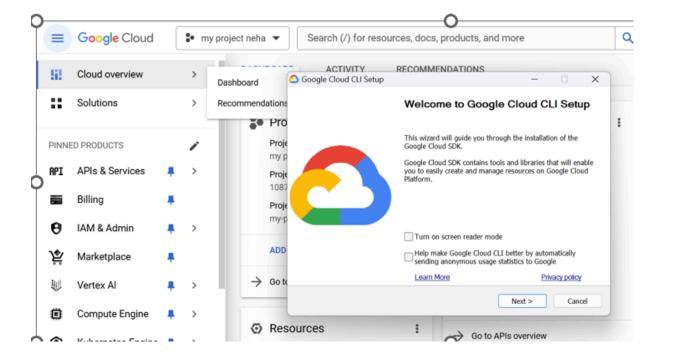
5. Create a PHP code to upload and run and save it as "helloWorld.php"

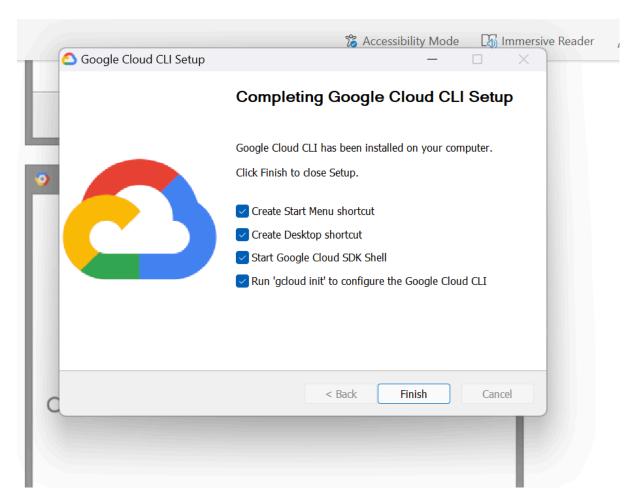


6:In order to deploy and run the PHP code on Google cloud platform, visit https://cloud.google.com/sdk/docs to download latest Google Cloud SDK and to know how to install it.

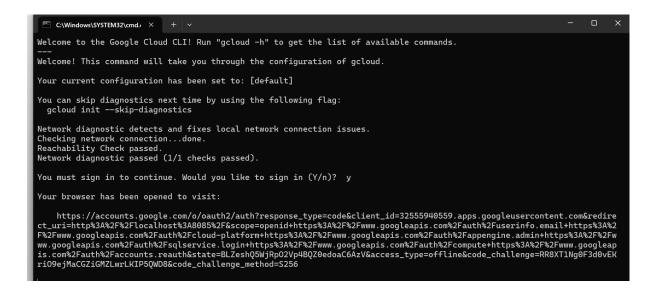


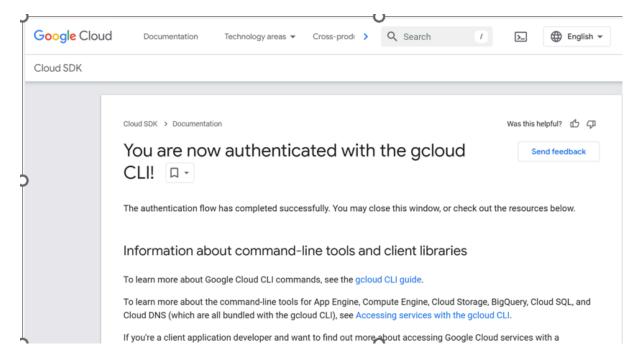
7.open Google cloud SDK installer. It will take some time to download and install SDK from Google Server. At end of installation check Start Google Cloud SDK Shell and Run 'gcloud init' to configure the Cloud SDK.



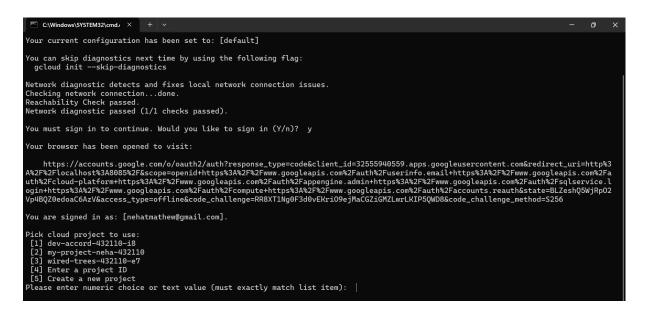


8. Previous step will open up command prompt with gcloud init command running automatically. It will ask you to login using Google account on which you have joined Google Cloud Platform. After successful login web browser page of cloud.google.com will show You are now authenticated with Google Cloud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





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



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

```
Commands that require authentication will use nehatmathew@gmail.com by default
     ommands will reference project `my-project-neha-432110` by defaul
`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 pro
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 gclo
* Run `gcloud topic --help` to learn about advanced features of the CLI like arg files and output formatting
* Run `gcloud cheat-sheet` to see a roster of go-to `gcloud` commands.
C:\Users\Neha Mathew\AppData\Local\Google\Cloud SDK>dir
Volume in drive C has no label.
Volume Serial Number is 0051-EE9C
 Directory of C:\Users\Neha Mathew\AppData\Local\Google\Cloud SDK
10-08-2024
10-08-2024
10-08-2024
10-08-2024
                16:20
16:16
16:17
16:18
16:20
                                       275 cloud_env.bat
google-cloud-sdk
1 install_mode
1,150 supercloud-16x16.ico
63,591 uninstaller.exe
                             <DIR>
10-08-2024
12-06-2024
                00:00
                    4 File(s) 65,017 bytes
3 Dir(s) 11,566,944,256 bytes free
C:\Users\Neha Mathew\AppData\Local\Google\Cloud SDK>
```

11. Type gcloud app deploy and select region of Google Data Center where you want to deploy your app, press 5 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 browse

```
WARNING: Creating an App Engine application for a project is irreversible and the region cannot be changed. More information about regions is at <a href="https://cloud.google.com/appengine/docs/locations">https://cloud.google.com/appengine/docs/locations</a>.

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-southeast3 (supports standard and flexible and search_api)
[6] asia-southeast1 (supports standard and flexible and search_api)
[7] asia-southeast2 (supports standard and flexible and search_api)
[8] australia-southeast1 (supports standard and flexible and search_api)
[9] australia-southeast1 (supports standard and flexible and search_api)
[10] europe-west2 (supports standard and flexible and search_api)
[11] europe-west3 (supports standard and flexible and search_api)
[12] europe-west3 (supports standard and flexible and search_api)
[13] europe-west3 (supports standard and flexible and search_api)
[14] europe-west3 (supports standard and flexible and search_api)
[15] northamerica-northeast1 (supports standard and flexible and search_api)
[16] southamerica-aest1 (supports standard and flexible and search_api)
[17] us-central (supports standard and flexible and search_api)
[18] us-east4 (supports standard and flexible and search_api)
[19] us-east4 (supports standard and flexible and search_api)
[20] us-west3 (supports standard and flexible and search_api)
[21] us-west4 (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)
[24] cancel

Please enter your numeric choice: 5

Creating App Engine application in project [my-project-neha-432110] and region [asia-northeast3]....\
```

```
[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-northeast1 (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-west1 (supports standard and flexible and search_api)
[20] us-west1 (supports standard and flexible and search_api)
[21] us-west2 (supports standard and flexible and search_api)
[22] us-west3 (supports standard and flexible and search_api)
[22] us-west4 (supports standard and flexible and search_api)
[22] us-west5 (supports standard and flexible and search_api)
[24] cancel
[Please enter your numeric choice: 5

Creating App Engine application in project [my-project-neha-432110] and region [asia-northeast3]...done.

Services to deploy:

descriptor: [C:\Users\Neha Mathew\app.yaml]
surce: [C:\Users\Neha Mathew\app.yaml]
target project: [my-project-neha-432110]
target service: [default]
target service: [default]
target vervice: [default]
target vervice: [flexible in the interval in the
```

```
Google Cloud SDK Shell - gck × + v
#=
Command killed by keyboard interrupt
 Terminate batch job (Y/N)? y
C:\Users\Neha Mathew\AppData\Local\Google\Cloud SDK>cd..
C:\Users\Neha Mathew\AppData\Local\Google>cd Cloud SDK
C:\Users\Neha Mathew\AppData\Local\Google\Cloud SDK>cd cc
\label{localGoogleCloud} $$C:\Spin_a \mathbb C^2\left(Spin_a \right) : C:\Spin_a \mathbb C^2\left(Spin_a \right) $$ deploy Services to deploy:
                                            [C:\Users\Neha Mathew\AppData\Local\Google\Cloud SDK\cc\app.yaml]
[C:\Users\Neha Mathew\AppData\Local\Google\Cloud SDK\cc]
[my-project-neha-432110]
[default]
[20240817t140855]
 descriptor:
source:
target project:
target service:
target version:
target url:
target service account:
                                           [https://my-project-neha-432110.du.r.appspot.com]
[my-project-neha-432110@appspot.gserviceaccount.com]
Do you want to continue (Y/n)? y
Beginning deployment of service [default]...
Created .gcloudignore file. See `gcloud topic gcloudignore` for details.
#= Uploading 2 files to Google Cloud Storage
#=====
File upload done.
Updating service [default]...\
```