

Aim:

To Deploy an App in Google Cloud Platform using Qwiklabs interface.

Concept:

Writing Cloud Shell commands and deploying your first virtual machine, to running applications on Kubernetes Engine or with load balancing, Google Cloud Essentials is a prime introduction to the platform's basic features.

Process /Procedure:

Go to <https://www.qwiklabs.com/focuses/2794?parent=catalog> - Start lab

1. Enable App Engine in a Cloud project
 - Select a project, or create a new one.
 - qwiklabs-gcp-02-f315b3ef540d
 - To open Cloud Shell, click Cloud Shell. Show me
 - Enable App Engine:
 - gcloud app create
 - If an authorization window appears, click Authorize.
 - When prompted, choose a region that's closest to we.
 - The process is complete when we get this message:
 - Success! The app is now created.
2. Clone a sample app
 - Instead of creating a new app, clone the sample "Hello, world" app from GitHub:
 - `git clone \`
 - `https://github.com/GoogleCloudPlatform/golang-samples`
 - To explore the app's source files, open the app's directory in the Cloud Shell Editor:
 - `cloudshell workspace \`
 - `golang-samples/appengine/gol1x/helloworld`
 - The app consists of:
 - `helloworld.go`, a Go file with the function that responds to requests with "Hello, World!"
 - `helloworld_test.go`, a file for tests
 - `go.mod`, a module file
 - `app.yaml`, an App Engine configuration file with the minimum required settings
3. Test the app before deploying it
 - To open a shell in Cloud Shell Editor, click the Terminal menu and select **New Terminal**.
 - To run the app, use the following command:
 - `go run .`
 - When the app is running, the output in Cloud Shell shows the following lines:
 - `[timestamp] Defaulting to port 8080`
 - `[timestamp] Listening on port 8080`
 - In the Console, click Web preview and choose **Preview on port 8080**.
 - The app's tab displays "Hello, World!".
 - To stop the app, in Cloud Shell enter Ctrl+C.

4. Deploy the app

- Now that we know our app is running correctly, deploy it to App Engine:
- In Cloud Shell, configure gcloud to use our project:
- `gcloud config set project \`
- `qwiklabs-gcp-02-f315b3ef540d`
- The App Engine plugin uses gcloud to deploy our app, and gcloud needs to know which project to deploy our app to.
- `gcloud app deploy`
- If we are prompted, "Do we want to continue?", type **Y**.
- When this process is finished, the output shows the following:
- Deployed service [default] to `https://qwiklabs-gcp-02-f315b3ef540d.appspot.com`
- If we get a NOT_FOUND: Unable to retrieve P4SA error after running the deploy command, try waiting 60 seconds then run the gcloud app deploy command again.

5. View and monitor the app

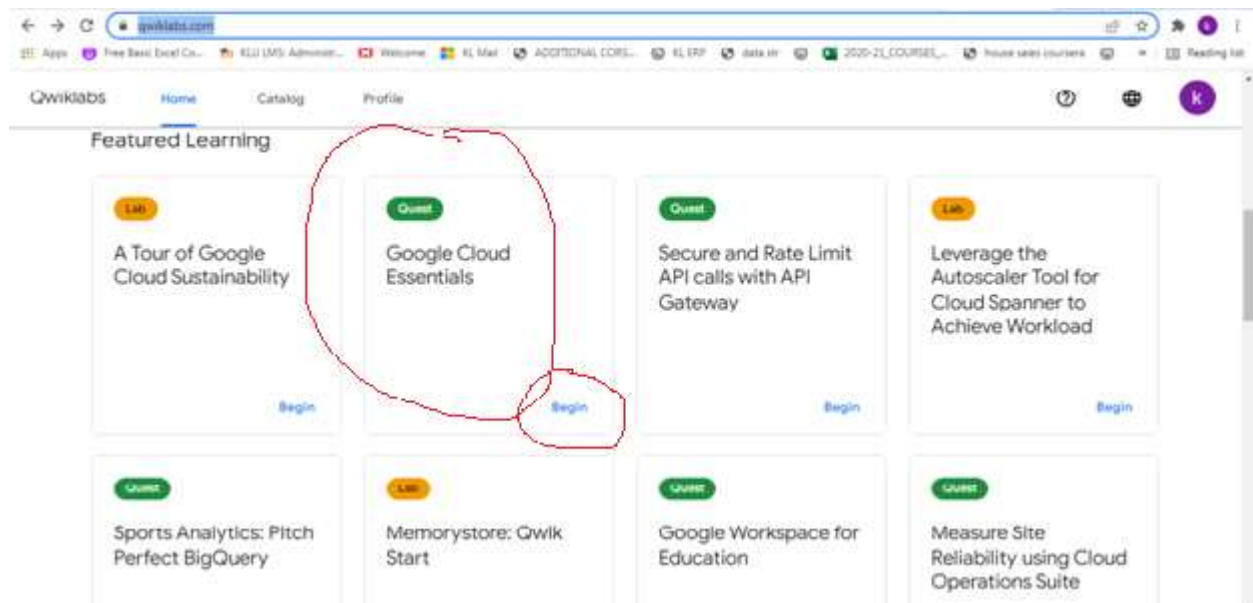
- Visit the deployed app at its default URL: `qwiklabs-gcp-02-f315b3ef540d.appspot.com`.
- To view the App Engine dashboard, in the Cloud Console navigation menu select App Engine

6. Clean up

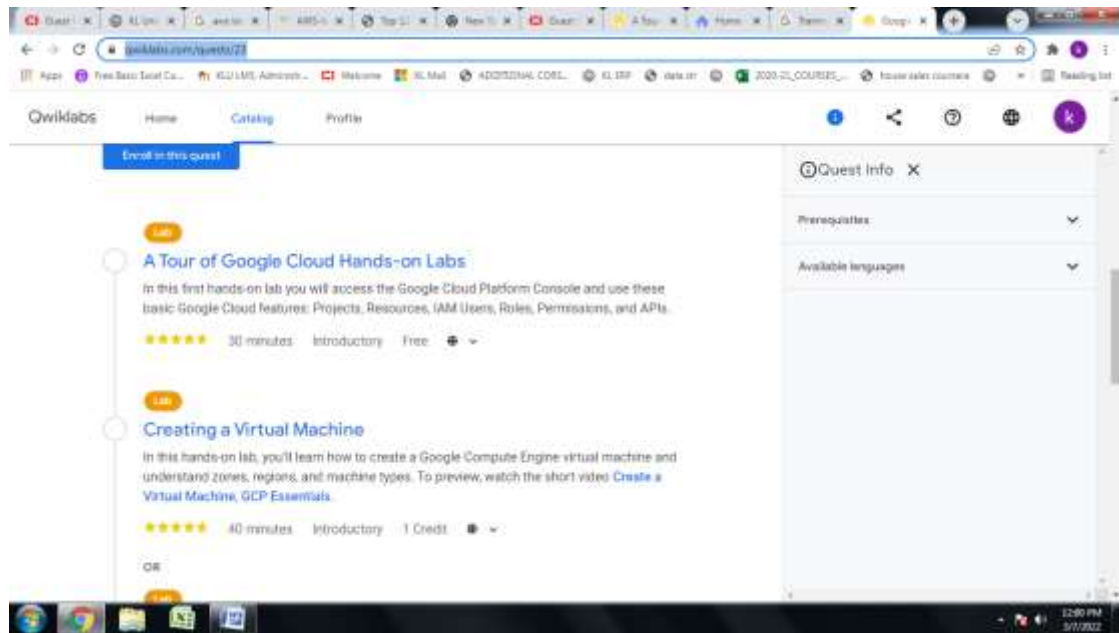
- In the App Engine navigation menu, click Settings.
- Click Disable Application.
- Or we can delete the project that we created.

Experiment:

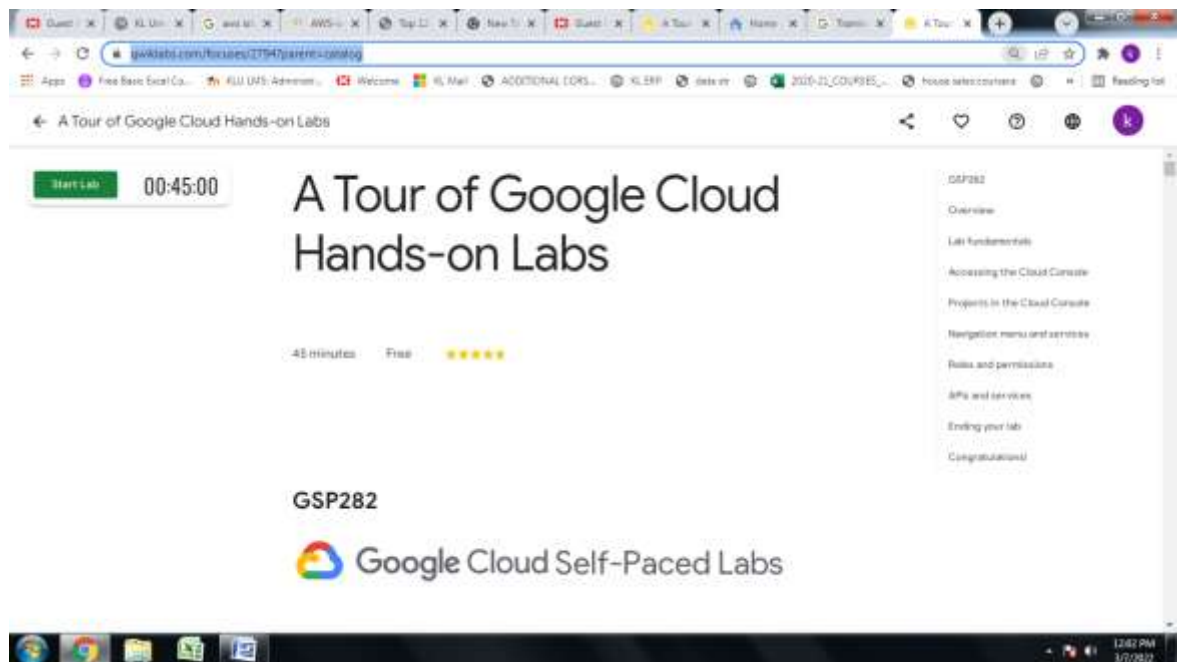
Step 1: Go to <https://www.qwiklabs.com/>



Step 2: Click on **Begin** -- Google Cloud Essentials –

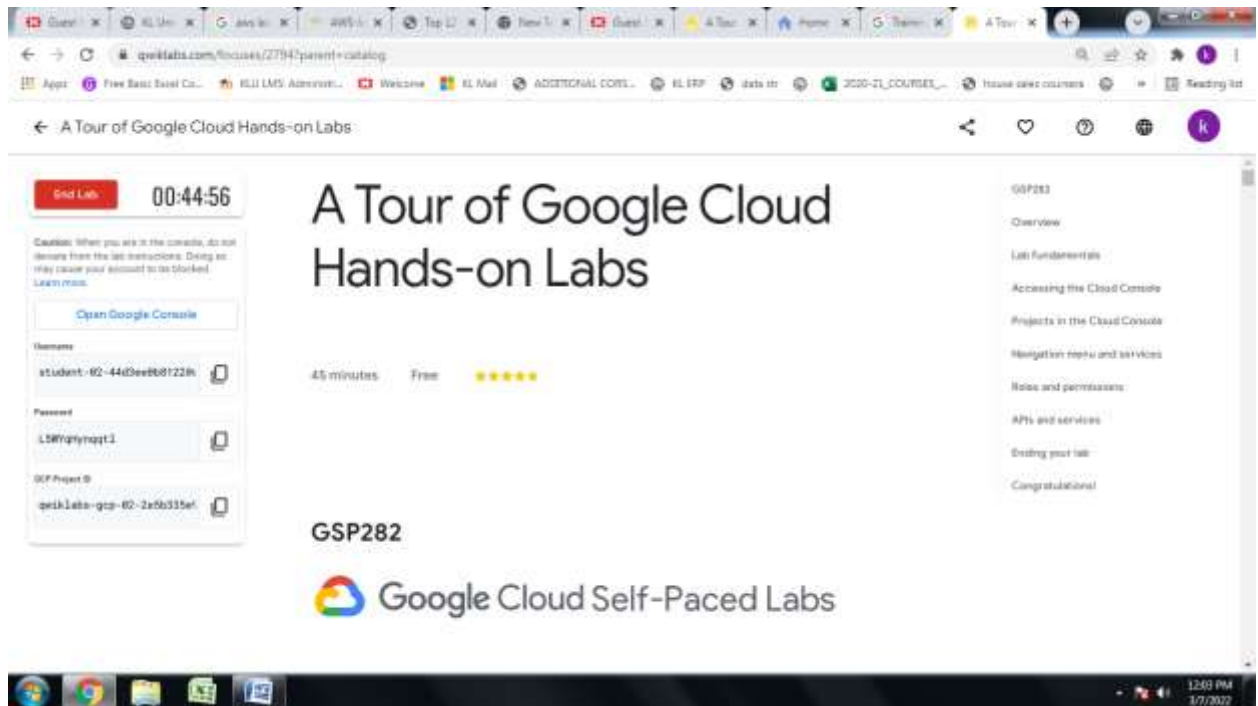


Step 3: Click on A Tour of Google Cloud hand –on labs

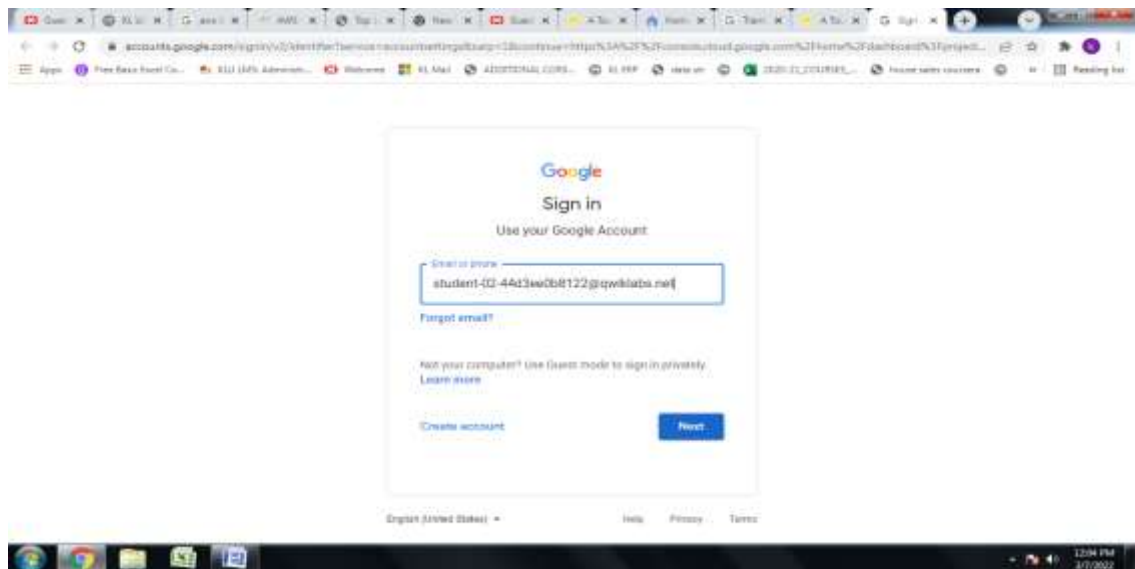


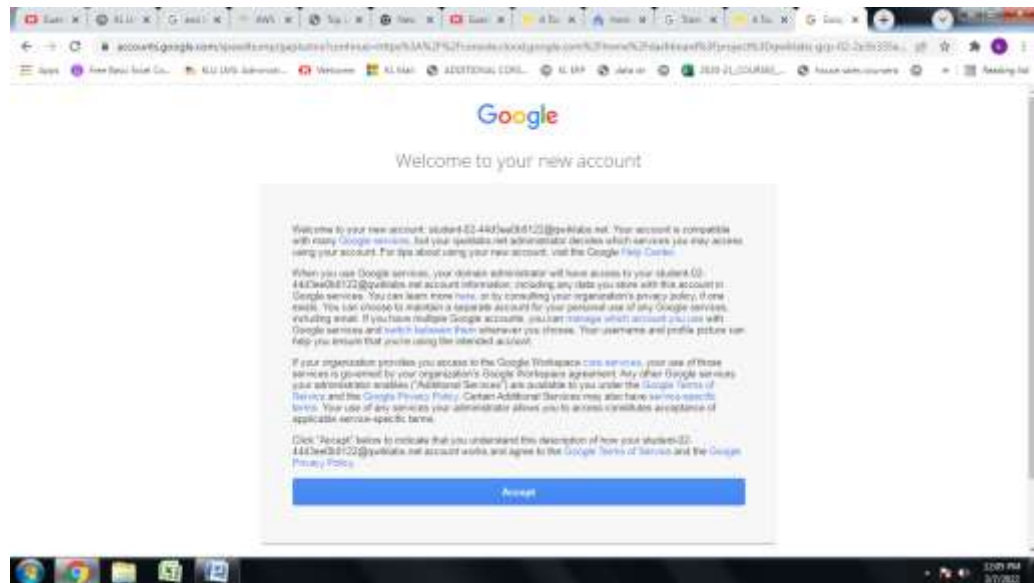
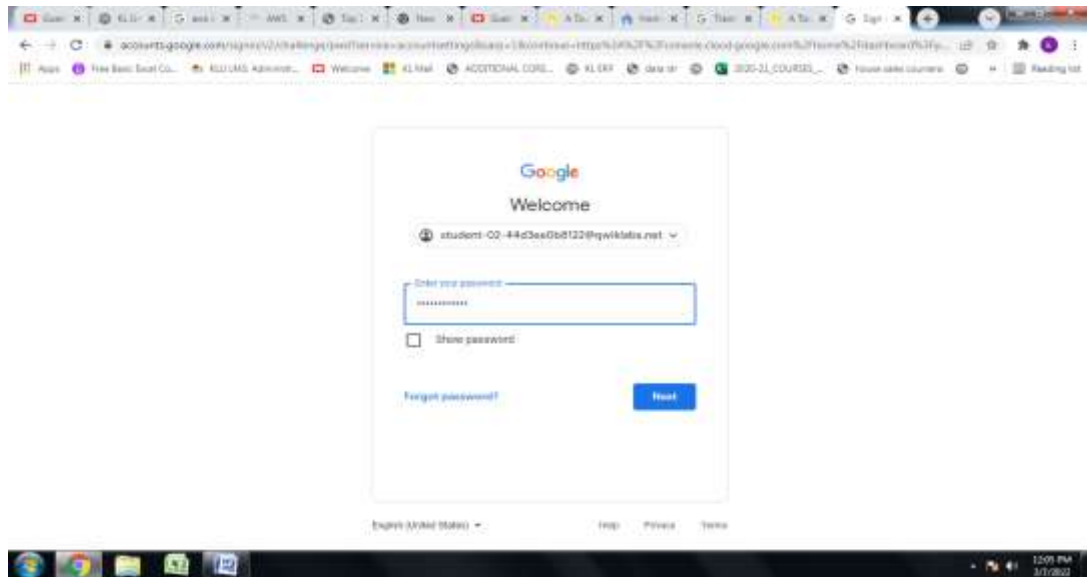
Step 4: Read all Instructions of Google Cloud Self –Paced Labs

Step 5: Click on START LAB –(Green Color Button)



Step 6: Click on **Open Google Console** and Login with Username ,password generated on Left side of the above window





Result:

Using the Above steps a simple app (Hello World) can be deployed in google cloud platform