Deploying website in Google App Engine
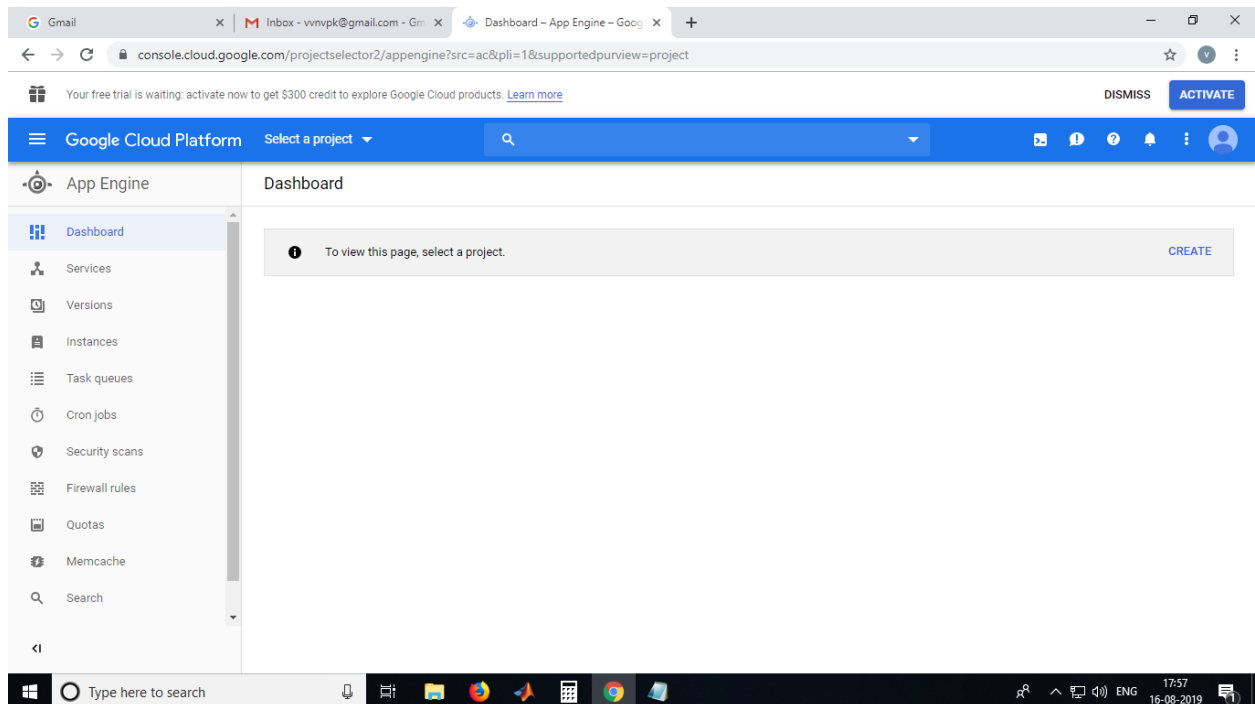
Step-1: Open the URL: appengine.google.com

Step-2: User Name: phanikumar.venna@gmail.com
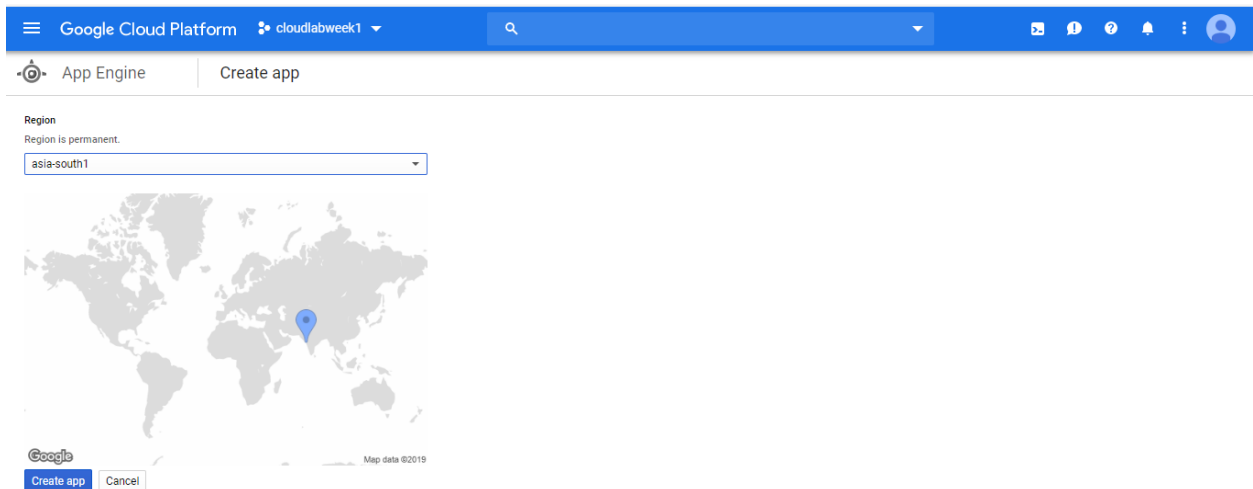
Password: XXXXX

Welcome Screen:

Step-3: Create a project on selected region

    a. Click on Project (on top of the window) → Create New Project
    b. Create your project Name (Like cloudlabweek1)
    c. Click On create Button
    d. Click on Create App
    e. Select Region as Asia –South1

https://cloudlabweek1.appspot.com/

Select Programming Language and Environment

      f.   Select Language: PHP

      g. Environment: Standard

https://cloudlabweek1.appspot.com/
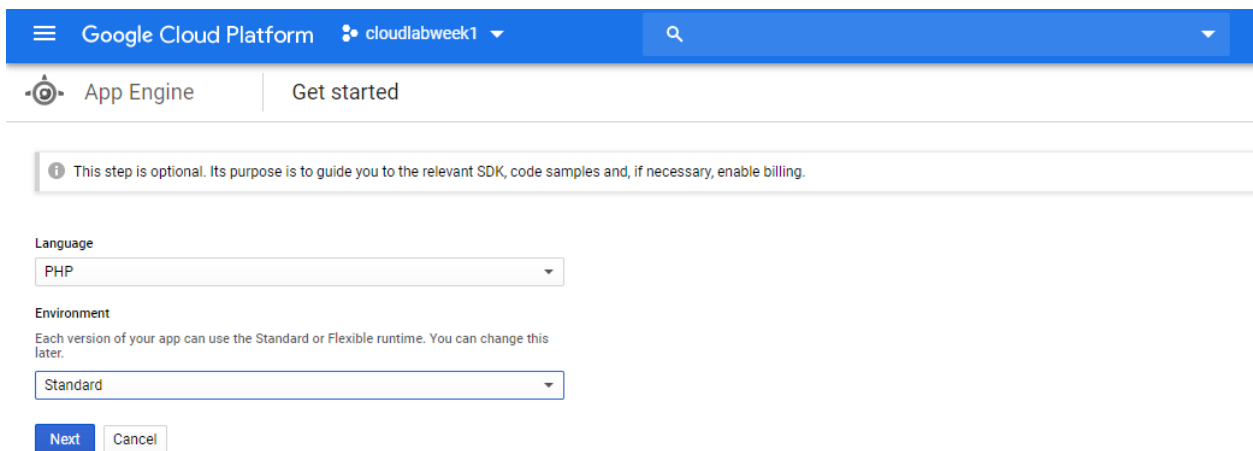
Step-4: Create Billing account

It will ask your name, address Account type (individual) Tax information (Non Business) and your credit/debit card details.

Once you submit the above details you can get the welcome screen like the following screen
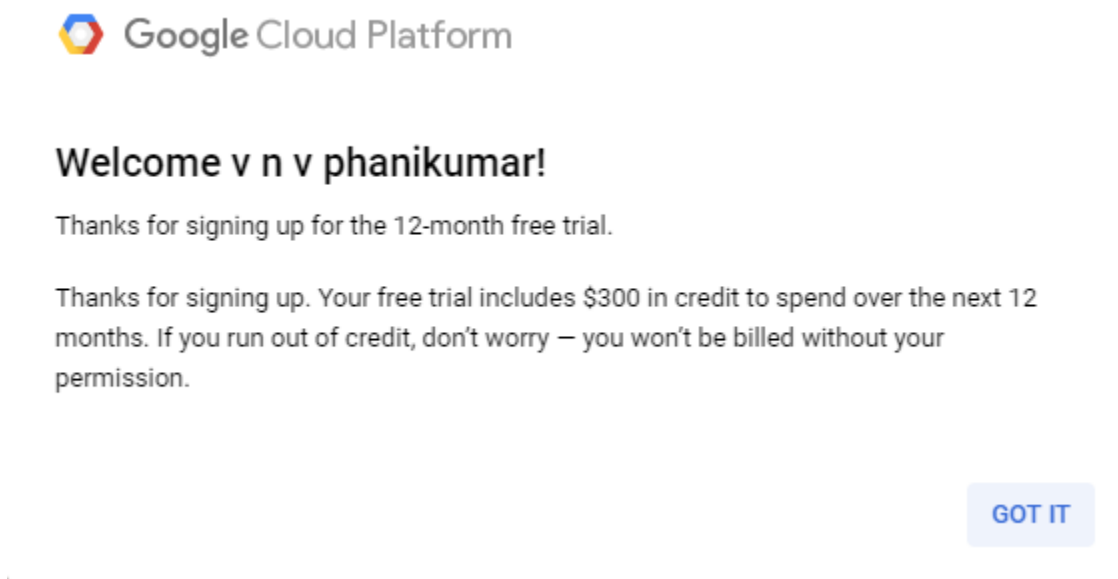
Step-5:

a. Open gcloud shell

b. Clone sample code from github:

Type the following in the gcloud shell:

> git clone https://github.com/GoogleCloudPlatform/php-docs-samples.git

Move from the current directory(cloudlabweek1) to php55:

```
vvnvpk@cloudshell:~ (cloudlabweek1)$ cd php-docs-samples
vvnvpk@cloudshell:~/php-docs-samples (cloudlabweek1)$cd appengine
vvnvpk@cloudshell:~/php-docs-samples/ appengine (cloudlabweek1)$cd php55
```

c. create your project directory (directory name is test)

```
~/php-docs-samples/ appengine/php55 (cloudlabweek1)$mkdir test
```

https://cloudlabweek1.appspot.com/

d. Goto edit Option on top of the console (gcloud)

```
remote: Enumerating objects: 87, done.
remote: Counting objects: 100% (87/87), done.
remote: Compressing objects: 100% (77/77), done.
remote: Total 11850 (delta 24), reused 28 (delta 9), pack-reused 11763
Receiving objects: 100% (11850/11850), 11.80 MiB | 2.04 MiB/s, done.
Resolving deltas: 100% (7585/7585), done.
vvnvpk@cloudshell:~ (cloudlabweek1)$ ls
php-docs-samples  README-cloudshell.txt
```
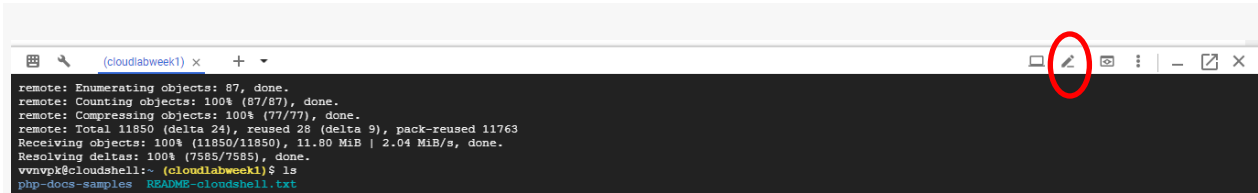
Expand the explore
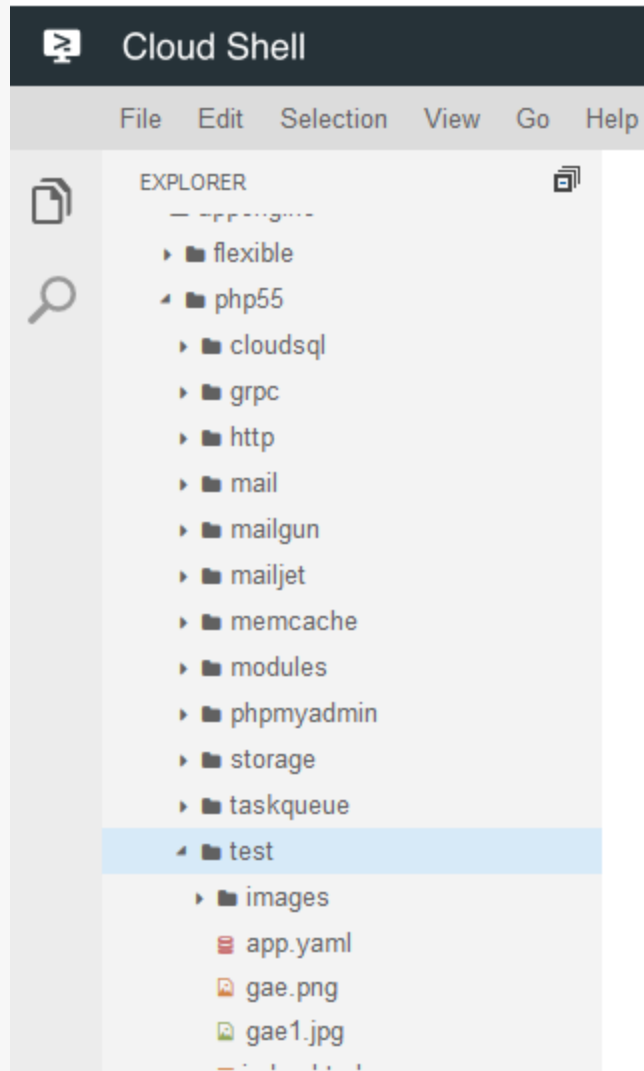
Step 6: Create your program files

   PHP-docs- Samples
          Appengine
             Php55
                Test
                   Right click on test, select new file and save it as index.html

  Index.html

```html
<html>

  <head>
    <title> Appengine Registration </title>
  </head>
  <body>
     <form action="sub.php" method="get">
      <table width="30%" align="center">
         echo "<p align='right'>";
         echo "<img src='gae1.jpg' width='200' height='100' alt='appengine'/>";
         echo '</p>';

     <tr> <td colspan="2" align="center"> <h2> Registration Form </h2> </td> </tr>
     <tr> <td> Name </td> <td> <input type='text' name='uname'/></td></tr>
     <tr> <td> Password </td> <td> <input type='password' name='pwd'/></td></tr>
     <tr> <td> Register Number </td> <td> <input type='text' name='rno'/></td></tr>
     <tr> <td> EMail id  </td> <td> <input type='email' name='mid'/></td></tr>
     <tr> <td> Mobile </td> <td> <input type='text' name='mobile'/></td></tr>
     <tr> <td> Branch </td> <td>
          <select name='dept'>
             <option value='Computer Science & Engineering'> CSE </option>
             <option value='Electronics & Communication Engineering'> ECE </option>
           </select>
      </td></tr>
      <tr> <td> college </td> <td> <input type='text' name='clg'/></td></tr>
      <tr> <td colspan="2" align="center">
           <input type="submit" name="sub" value="submit">
            <input type="reset" name="rset" value="Reset"></td> </tr>
      </table>
    </form>
  </body>
</html>
```

Create another file with the name: **sub.php**

```php
<?php

   echo "<p align='right'>";
   echo "<img src='gae1.jpg' width='200' height='100' alt='appengine'/>";
   echo ' <br>Welcome <b>'.$_GET['uname'].'</b>';
   echo '</p>';

   echo '<table width="50%" align="center">';
   echo '<tr> <td> Name </td> <td>'. $_GET['uname'].'</td></tr>';
   echo '<tr> <td> Password </td> <td>'. $_GET['pwd'].'</td></tr>';
   echo '<tr> <td> Register Number </td> <td>'. $_GET['rno'].'</td></tr>';
   echo '<tr> <td> EMail id </td> <td>'. $_GET['mid'].'</td></tr>';
   echo '<tr> <td> Mobile </td> <td>'. $_GET['mobile'].'</td></tr>';
   echo '<tr> <td> Branch </td> <td>'. $_GET['dept'].'</td></tr>';
   echo '<tr> <td> College </td> <td>'. $_GET['clg'].'</td></tr>';
   echo '</table>';
?>
```

Create another file with the name: **app.yaml**

```yaml
runtime: php55

api_version: 1

handlers:
- url: /
  script: index.html

- url: /sub.php
  script: sub.php

- url: /stylesheets
  static_dir: stylesheets

- url: /(.+\.(gif|png|jpg))$
  static_files: \1
  upload: .+\.(gif|png|jpg)$
  application_readable: true
```

https://cloudlabweek1.appspot.com/

Step 7: Now deploy the project into the google appengine

Command: gcloud app deploy

```
:~/php-docs-samples/appengine/php55/test (cloudlabweek1)$gcloud app deployee
```

```
vvnvpk@cloudshell:~/php-docs-samples/appengine/php55/test (cloudlabweek1)$ gcloud app deploy
Services to deploy:

descriptor:      [/home/vvnvpk/php-docs-samples/appengine/php55/test/app.yaml]
source:          [/home/vvnvpk/php-docs-samples/appengine/php55/test]
target project:  [cloudlabweek1]
target service:  [default]
target version:  [20190816t193122]
target url:      [https://cloudlabweek1.appspot.com]


Do you want to continue (Y/n)?  y
```

```
Beginning deployment of service [default]...

┌─ Uploading 4 files to Google Cloud Storage        ─┐

File upload done.
Updating service [default]...done.
Setting traffic split for service [default]...done.
Deployed service [default] to [https://cloudlabweek1.appspot.com]

You can stream logs from the command line by running:
  $ gcloud app logs tail -s default

To view your application in the web browser run:
  $ gcloud app browse
```

Step 8: To Browse your website URL type the following command

Command: gcloud app browse

```
vvnvpk@cloudshell:~/php-docs-samples/appengine/php55/test (cloudlabweek1)$ gcloud app browse
Did not detect your browser. Go to this link to view your app:
https://cloudlabweek1.appspot.com
vvnvpk@cloudshell:~/php-docs-samples/appengine/php55/test (cloudlabweek1)$ █
```

Step 9: Now Open the url in the internet browser or google chorme

```
https://cloudlabweek1.appspot.com
```

https://cloudlabweek1.appspot.com/

Result Web Application is Hosted on the Google App Engine successfully.

https://cloudlabweek1.appspot.com/