Google Cloud Marketplace User Guide - Planning In A Box

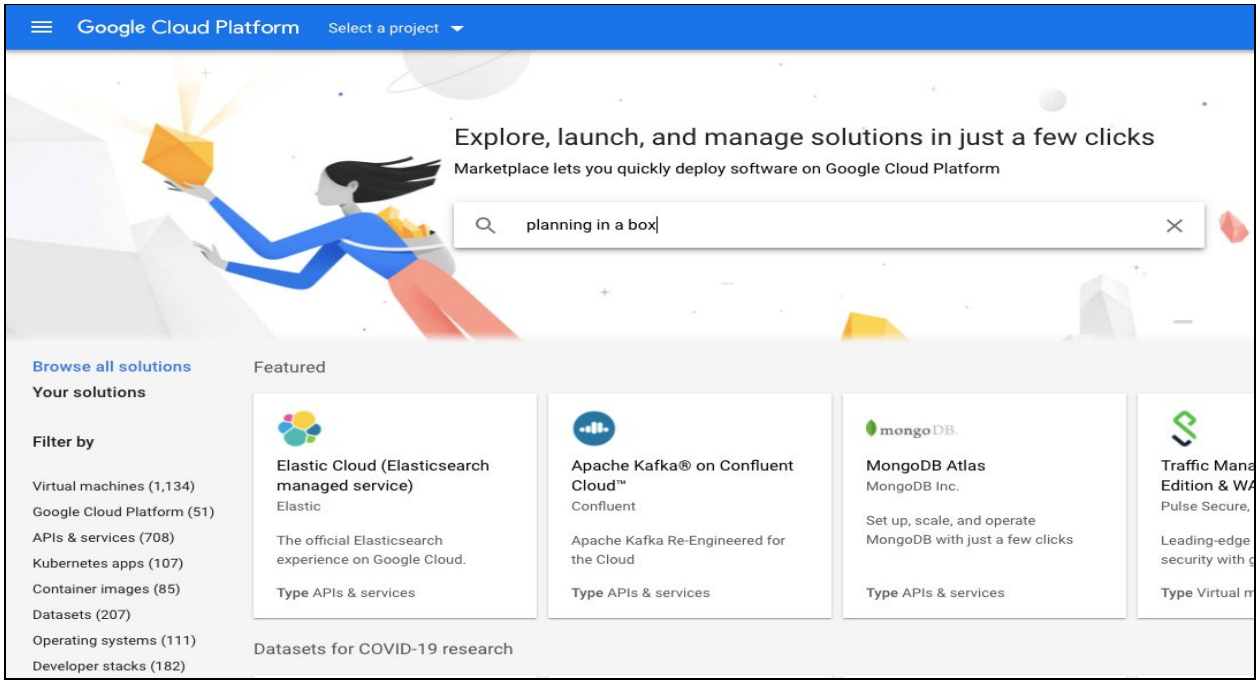
1. Pre installation requirements:

Goto APIs & Services section in google cloud console and enable the following apis,

- Compute Engine
- Cloud Storage
- Cloud SQL
- Cloud SQL Admin
- Google Cloud Storage JSON
- Big Query
- Cloud Pub sub
- Cloud Functions
- Cloud Build API

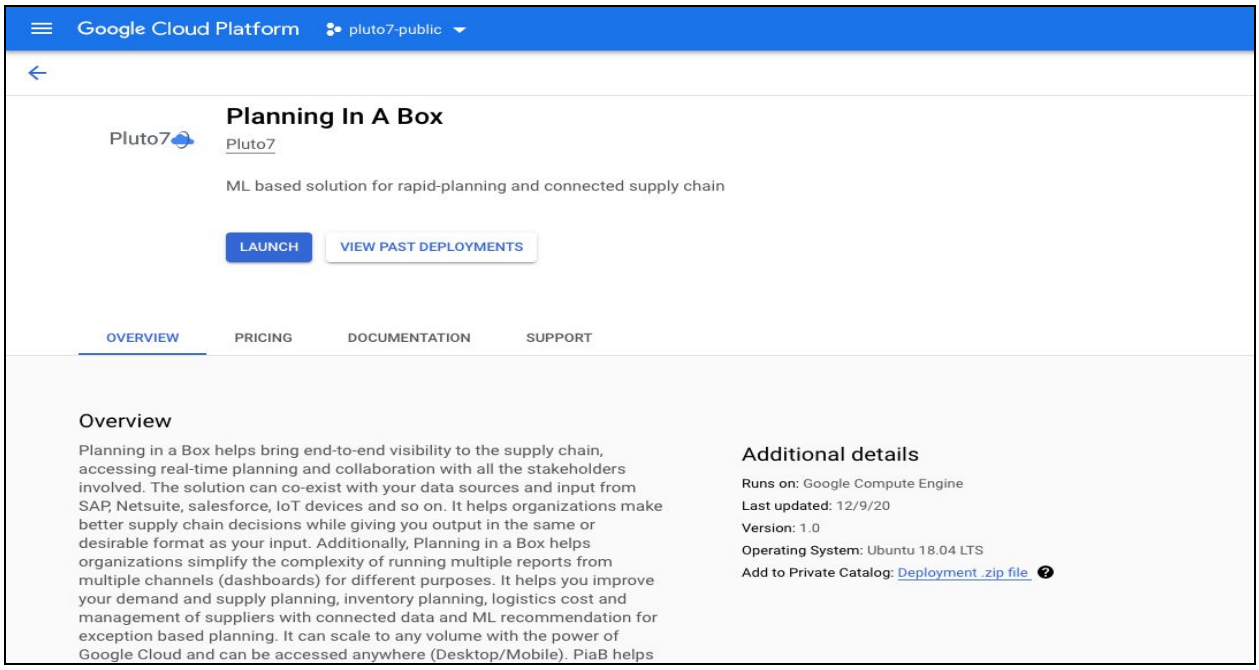
2. Google Cloud Marketplace:

Search for **Planning In A Box** in google cloud marketplace,

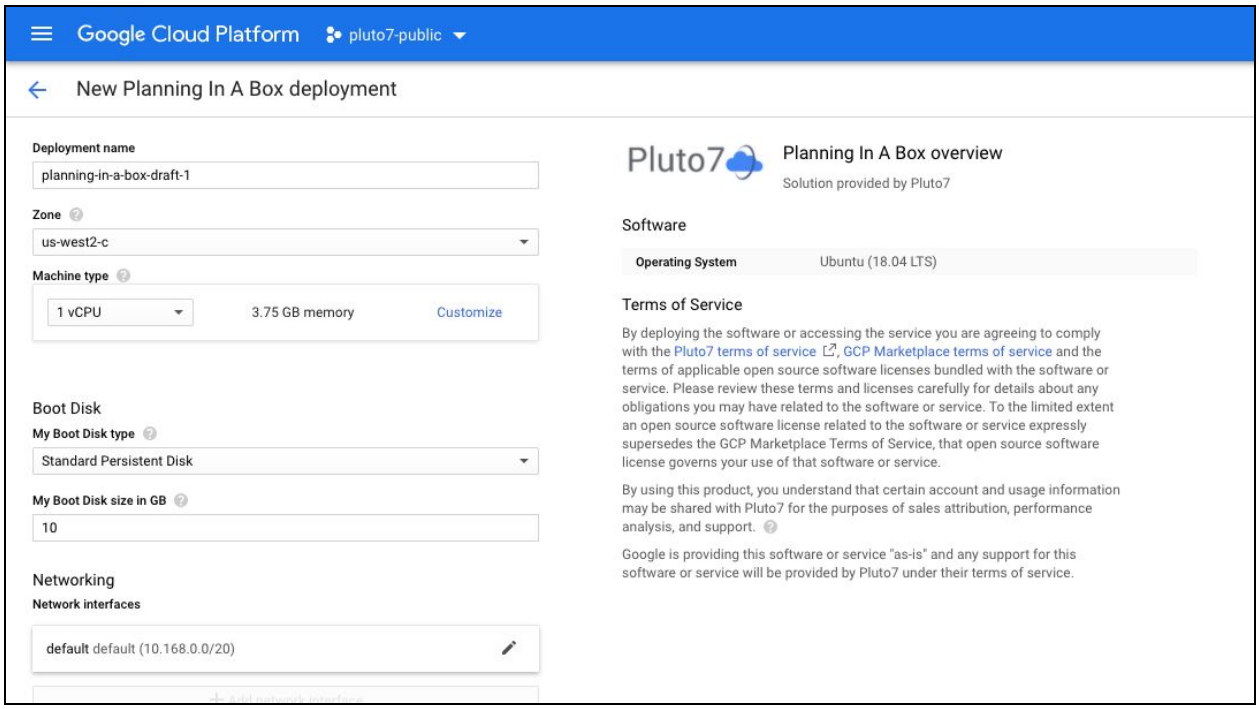


3. Solution Page:

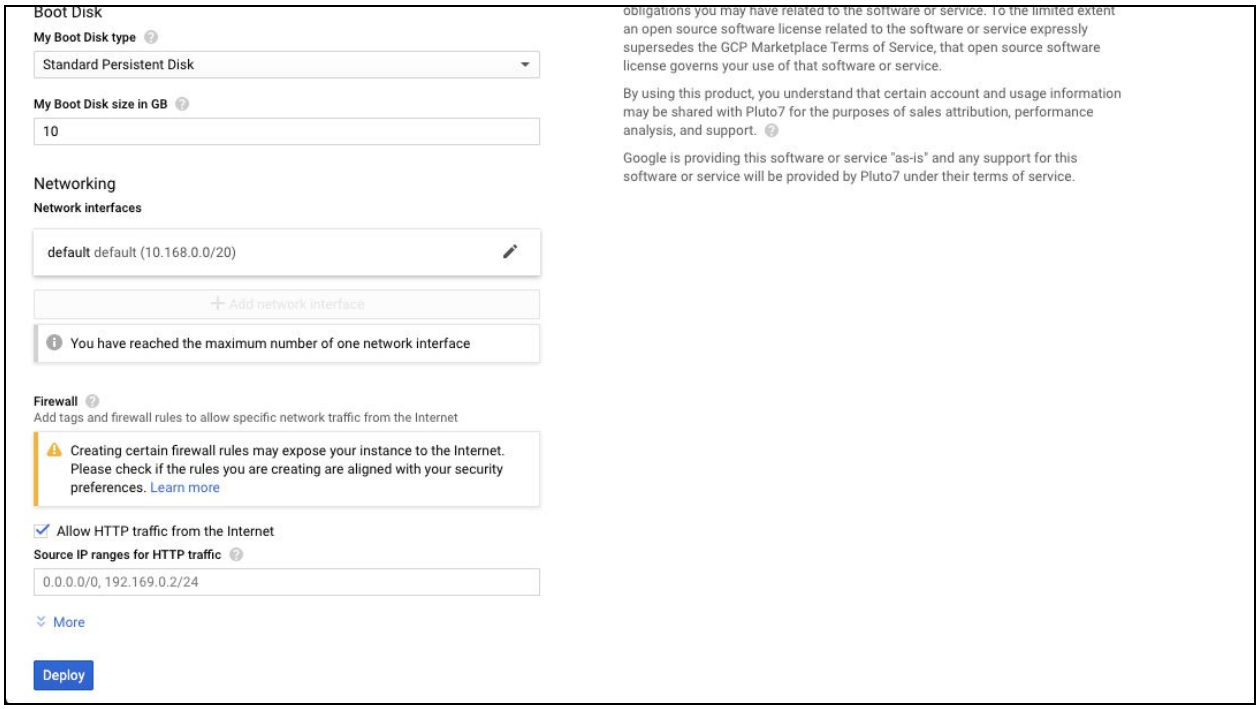
Planning in a box solution page



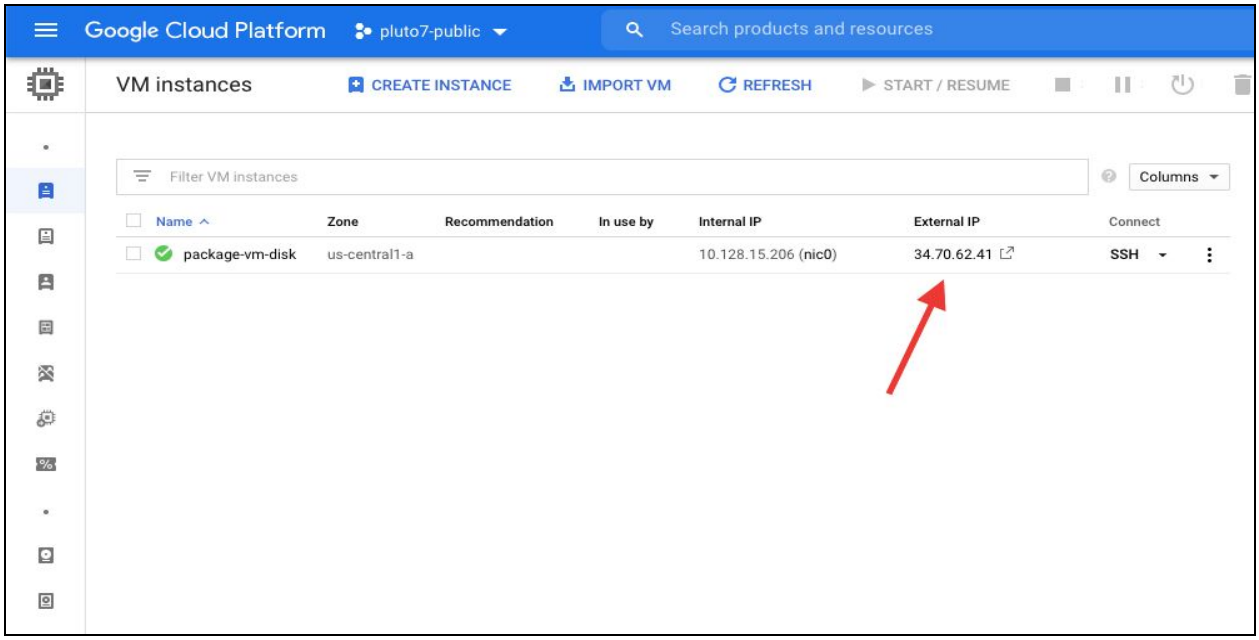
4. Next click on Launch button to deploy solution in your google cloud project



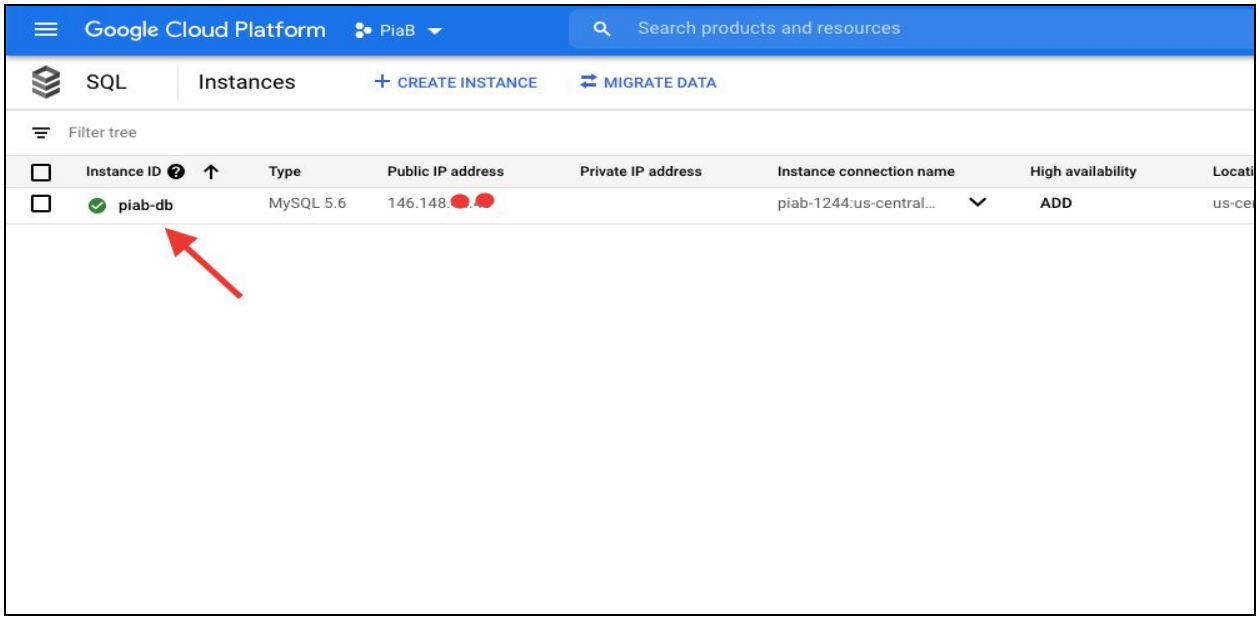
5. Once all the necessary fields are filled, click on the Deploy button to install the solution in google cloud project.



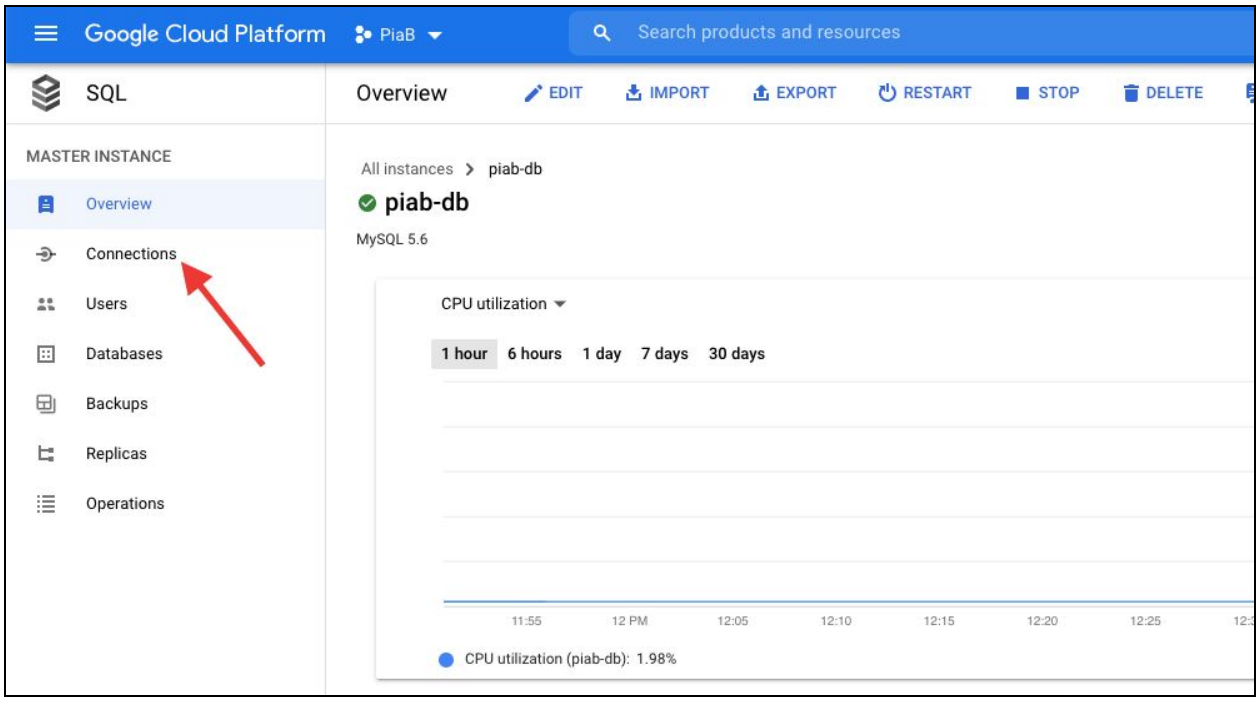
6. Setting up cloud sql instance,
    a. Copy the external ip address of the solution vm instance(),



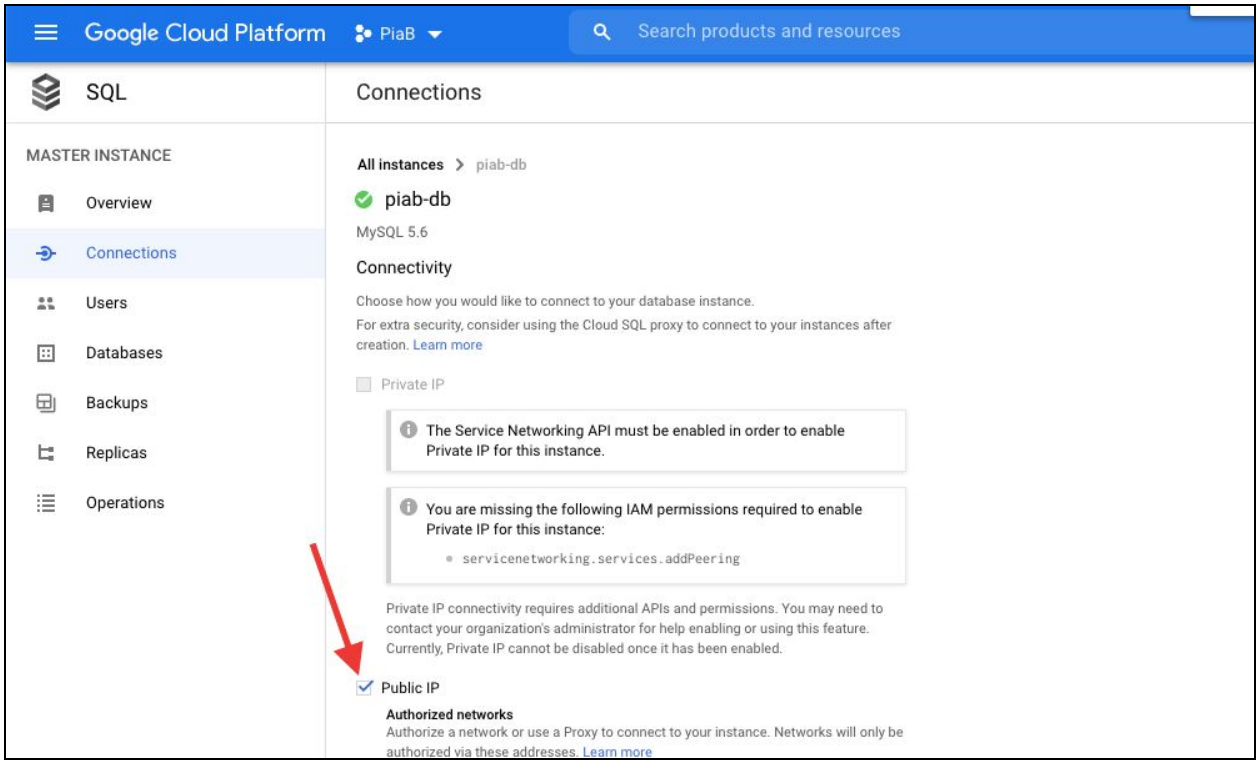
b. Next goto the solution cloud sql instance page and click on solution sql instance name()



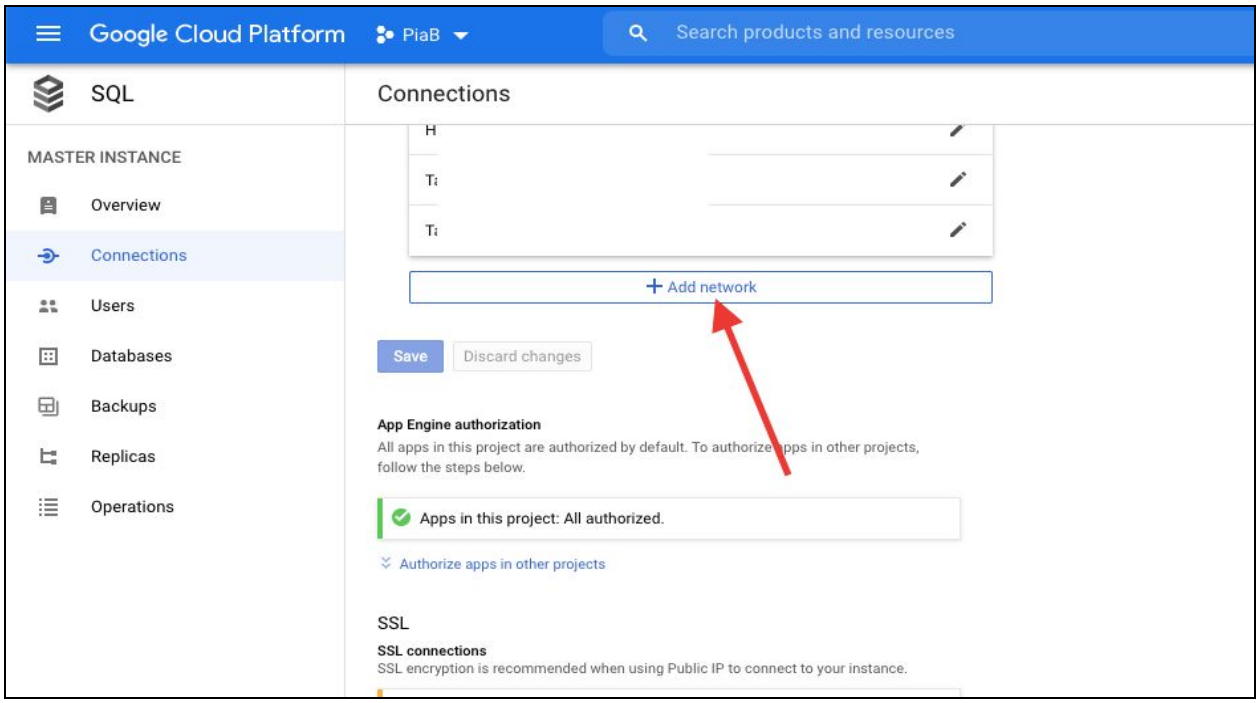
c. In the sql instance page, click on **Connections** menu and goto the connections page,



d. In the connections page, enable public ip access as shown below

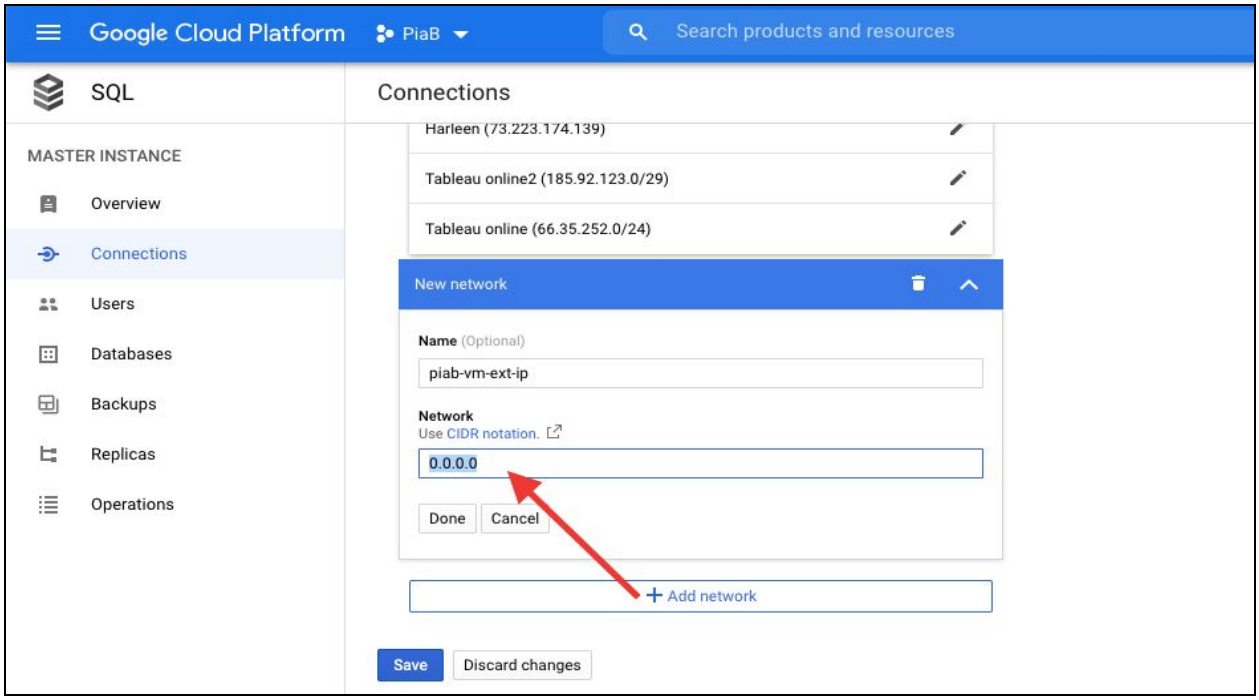


e. Next click on **Add Network** button to allow compute engine vm to access **Cloud Sql,**

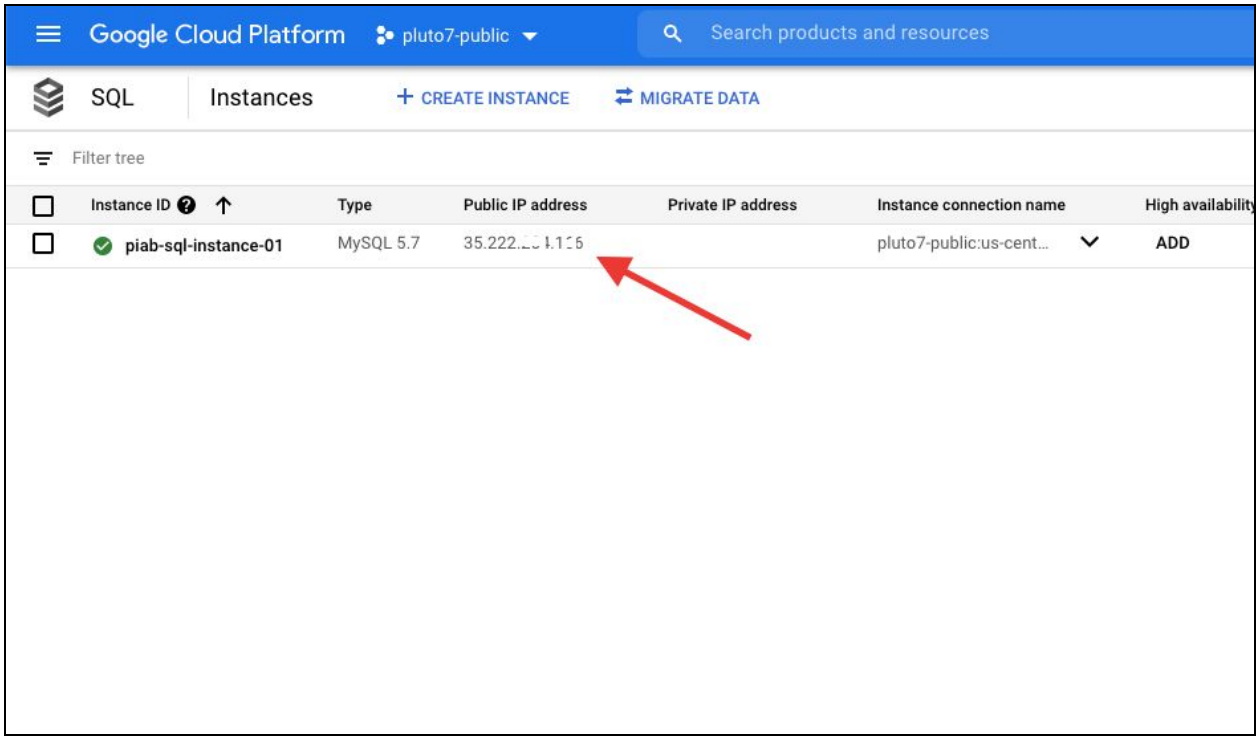


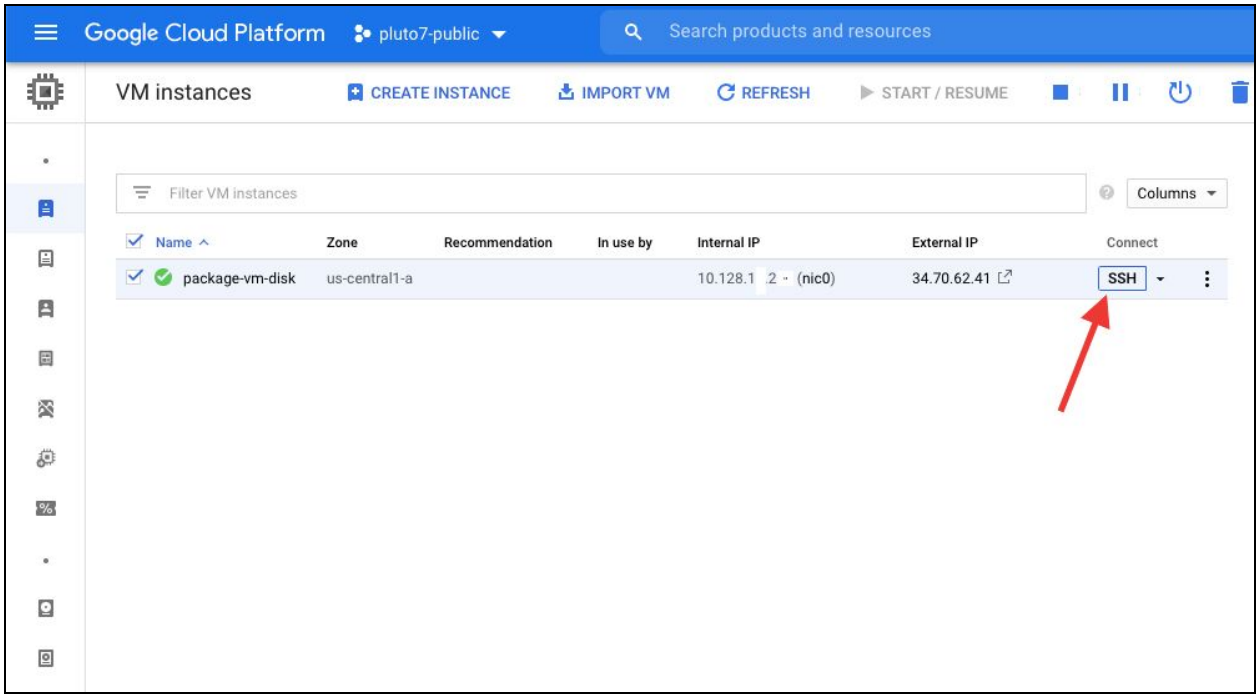
f. Next fill the details of the vm as below,
   i. Enter name of the connection
   ii. Enter the external ip address of the solution vm instance and next click done

after that click save,

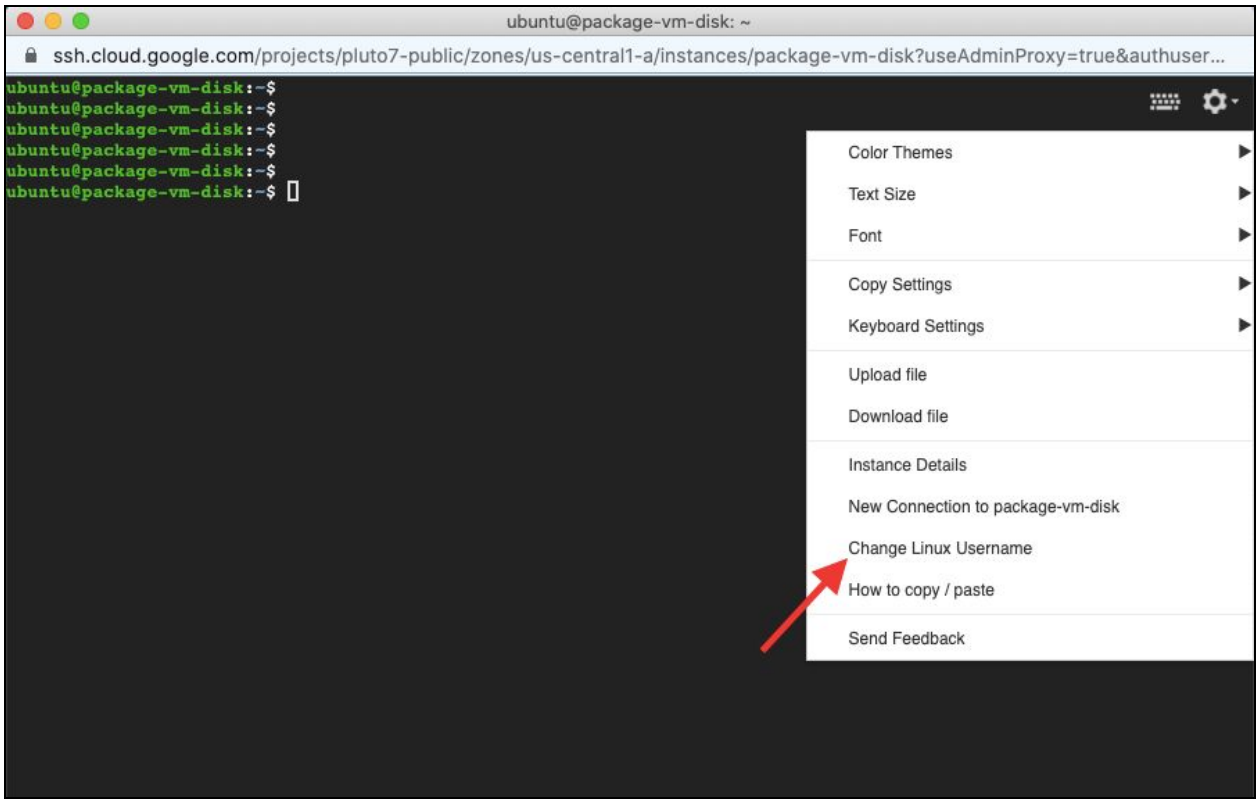


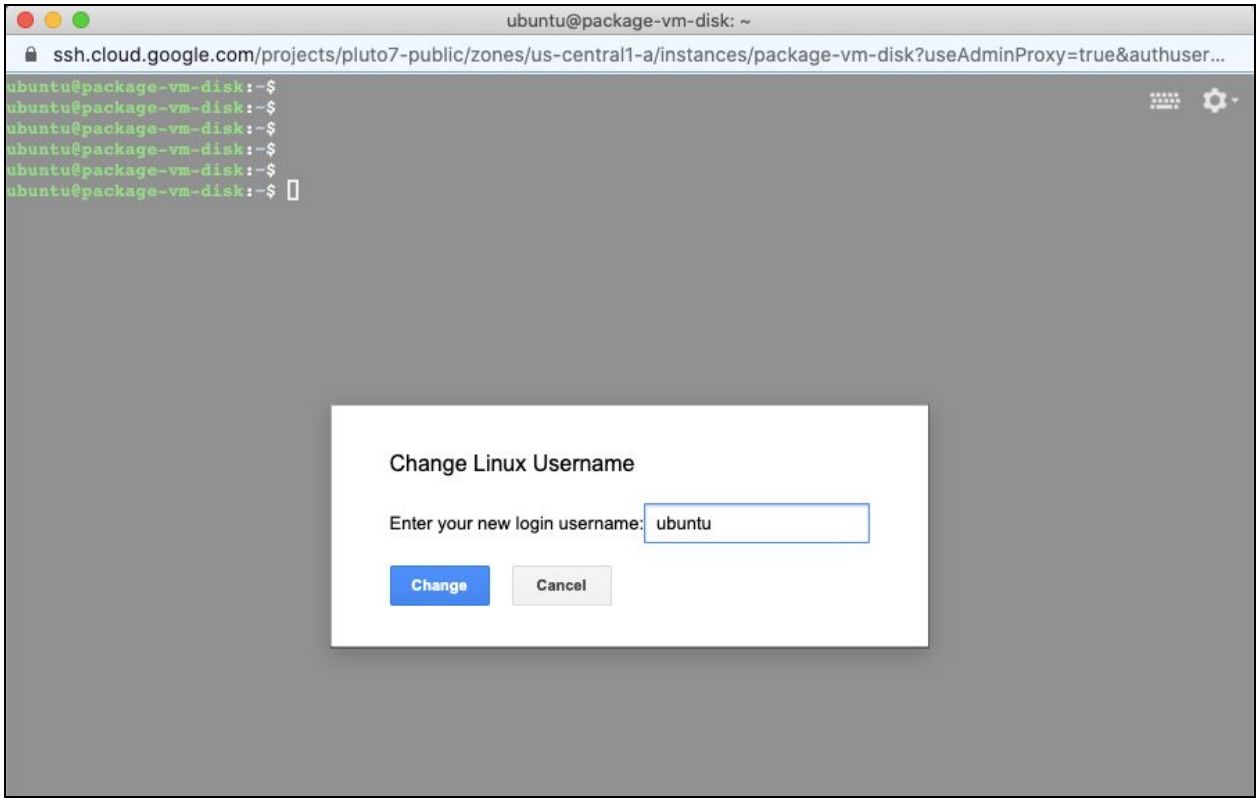
g. Copy the **external ip** address of the cloud sql instance(**name**) and next shh into the solution vm instance(**name**)



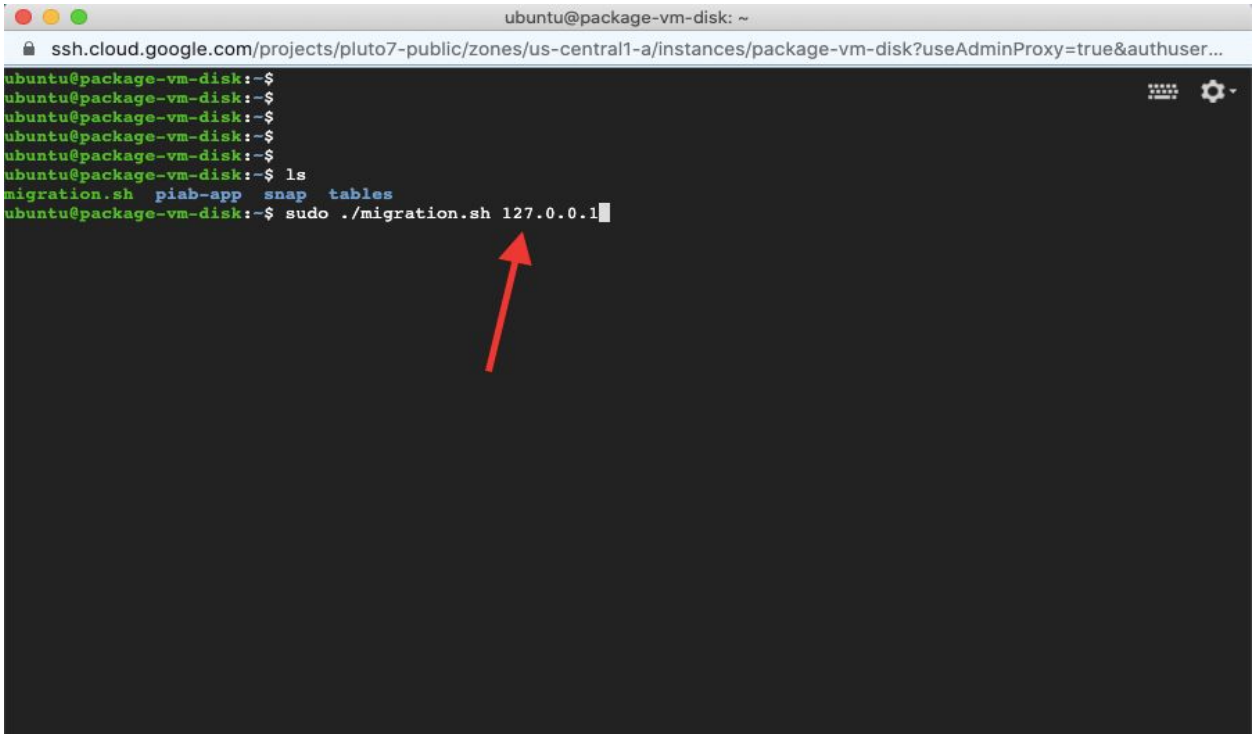


h. Ssh into the vm instance and change the linux user to ubuntu as show below

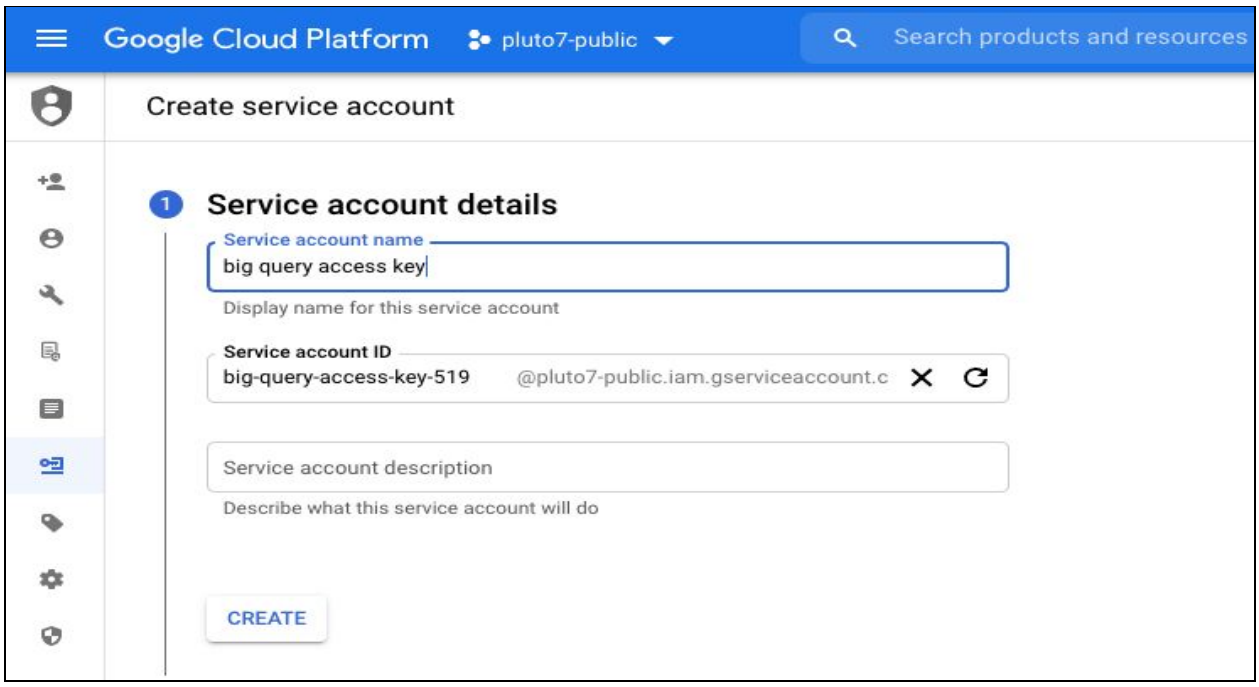




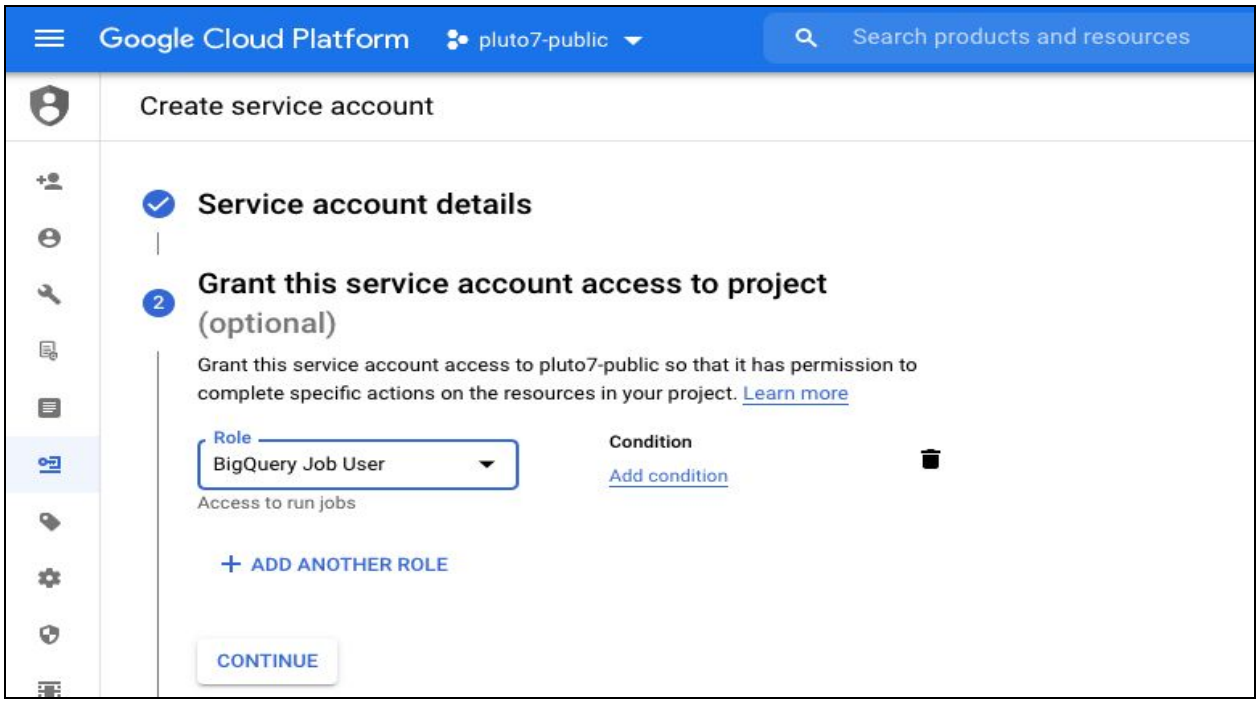
i. After login as ubuntu user into the vm, run the following command, **sudo ./migration.sh <CLOUD_SQL_EXTERNAL_ID>**



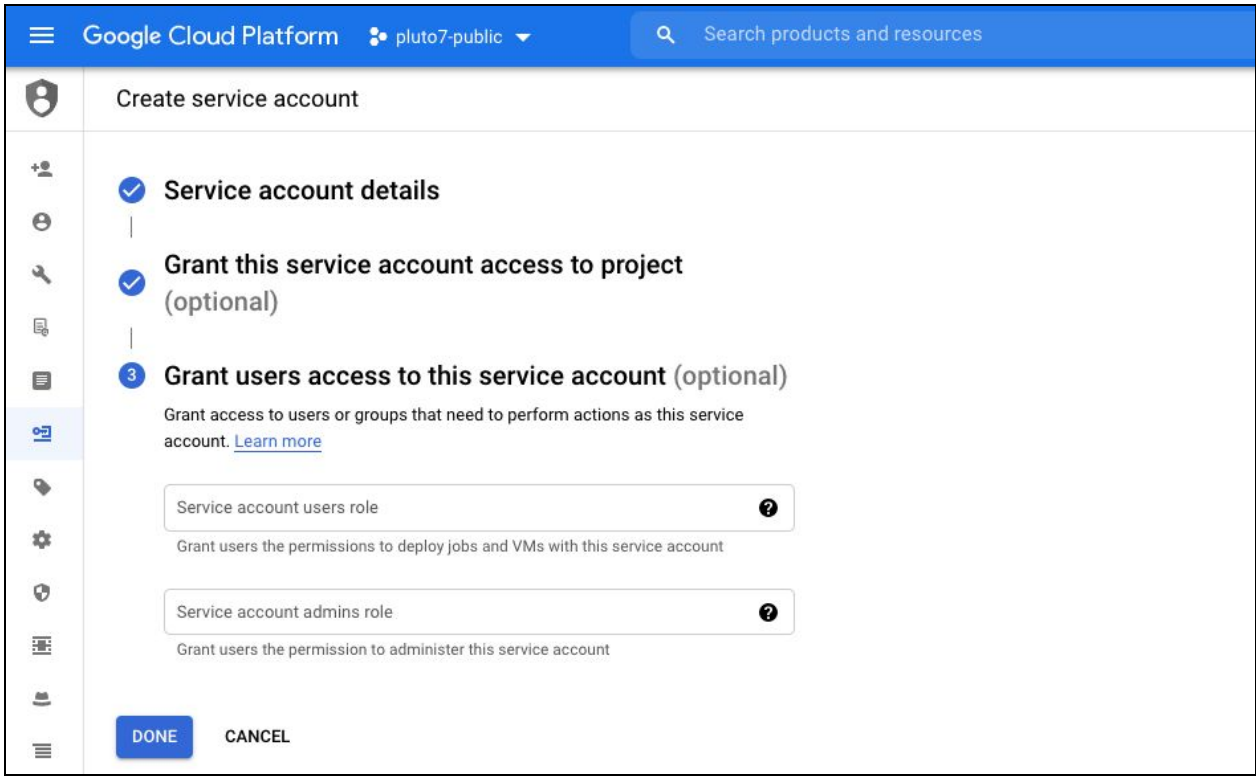
7. Configure Big Query
    a. Create a service account, enter the service account key details



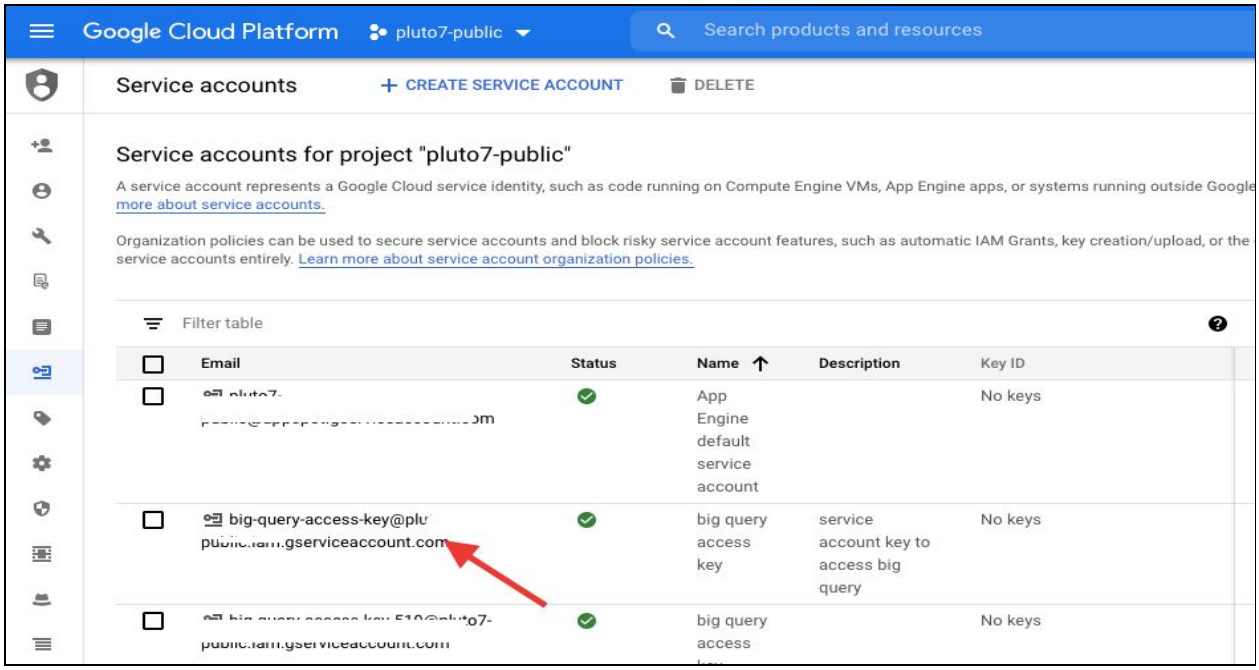
    b. Add roles to the service account and click Continue
        i. BigQuery Job User
        ii. BigQuery Data Viewer



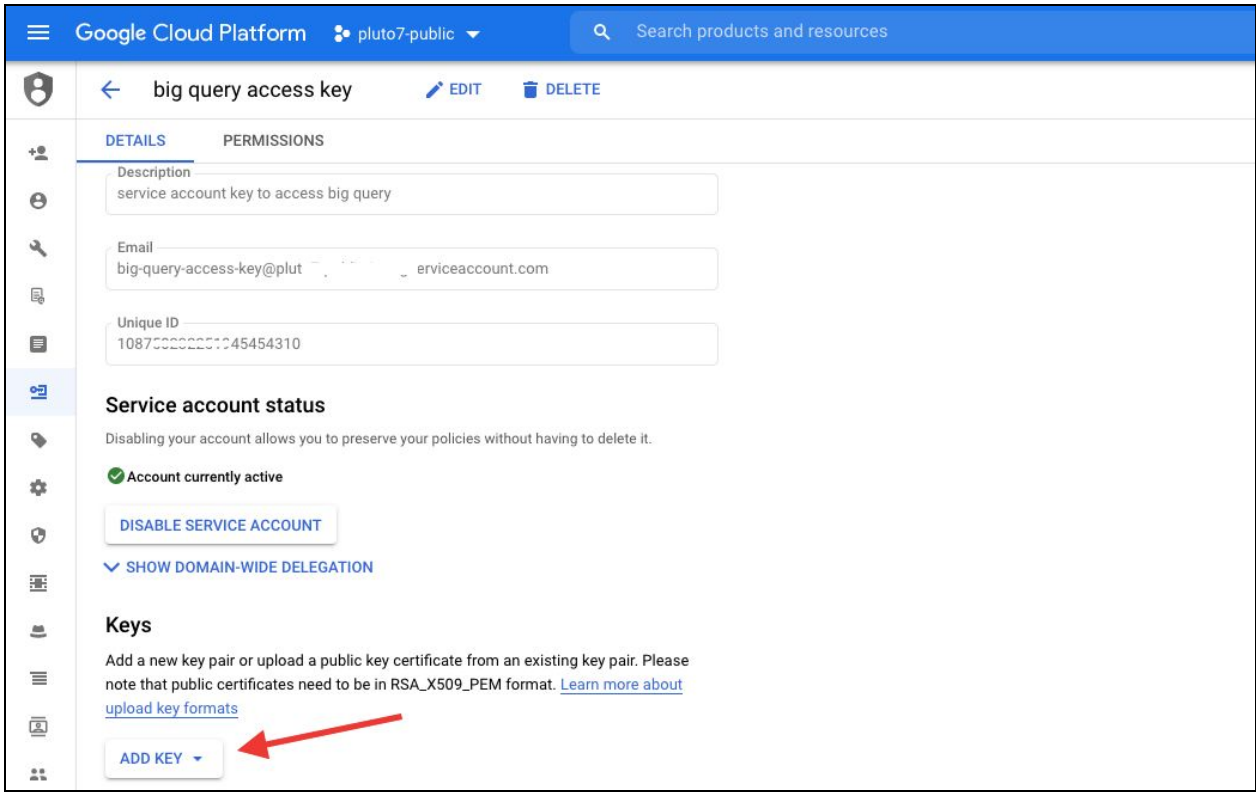
c. After assigning the role, click Done to finish creating the service account.



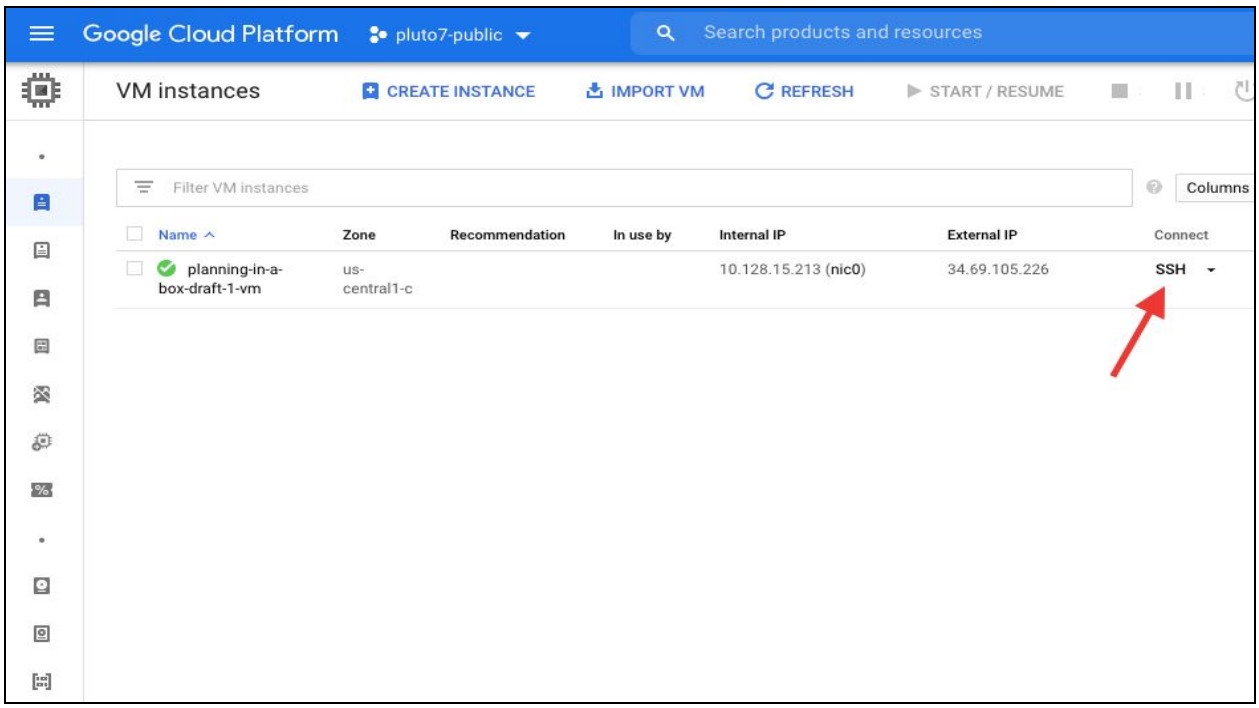
d. Next open the recently created service account key



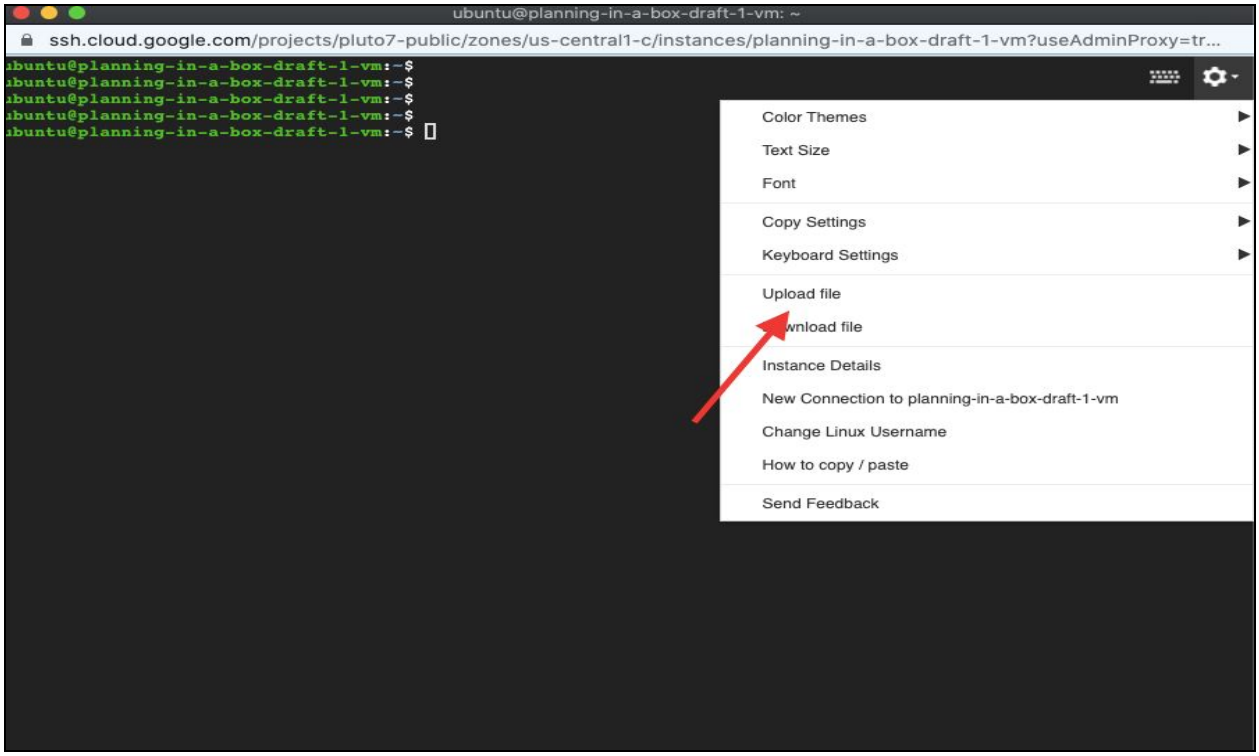
e. To generate service account key, click on Add Key as shown in the below image

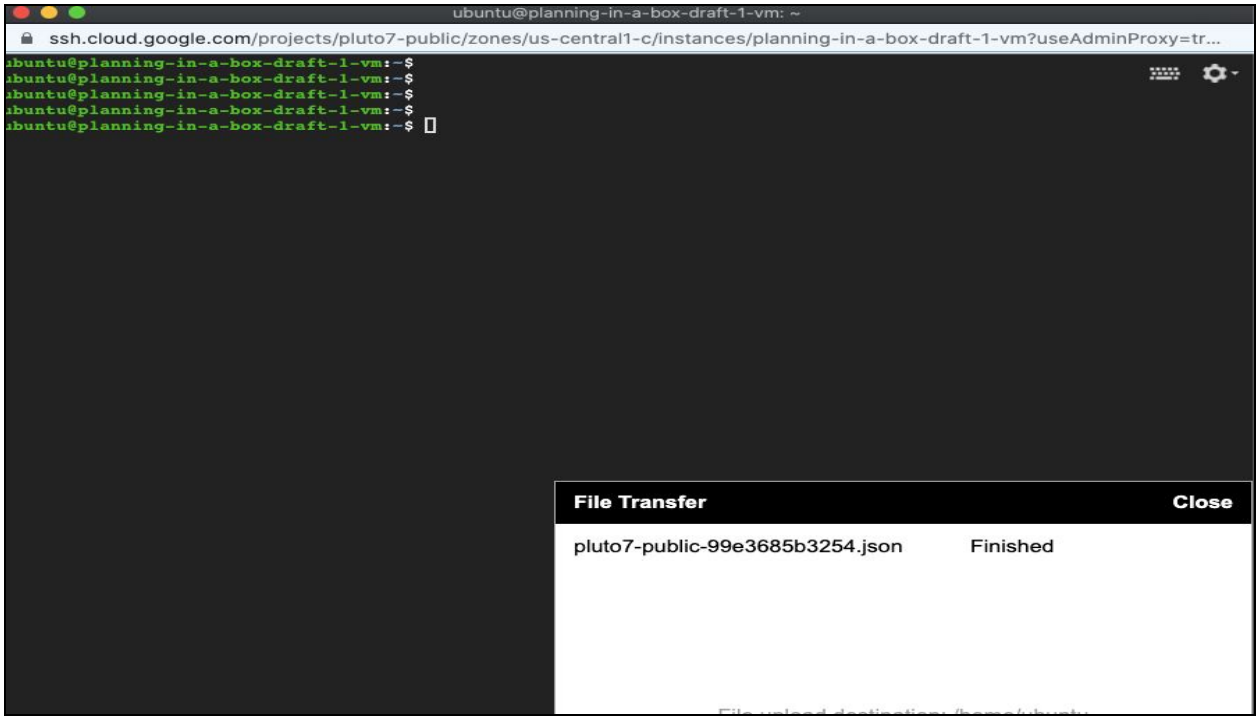


f. Once the key is downloaded successfully, ssh into the solution vm instance

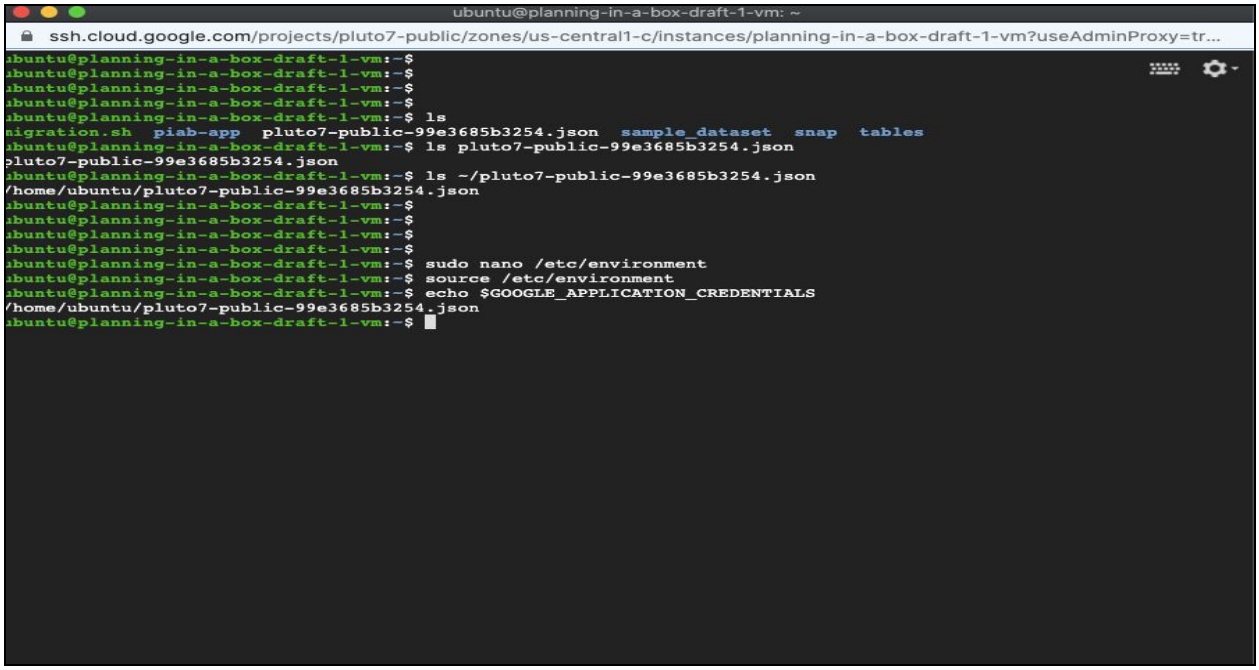


g. Next ssh into the solution vm instance(), click on the settings icon at the top right and select **Upload file**

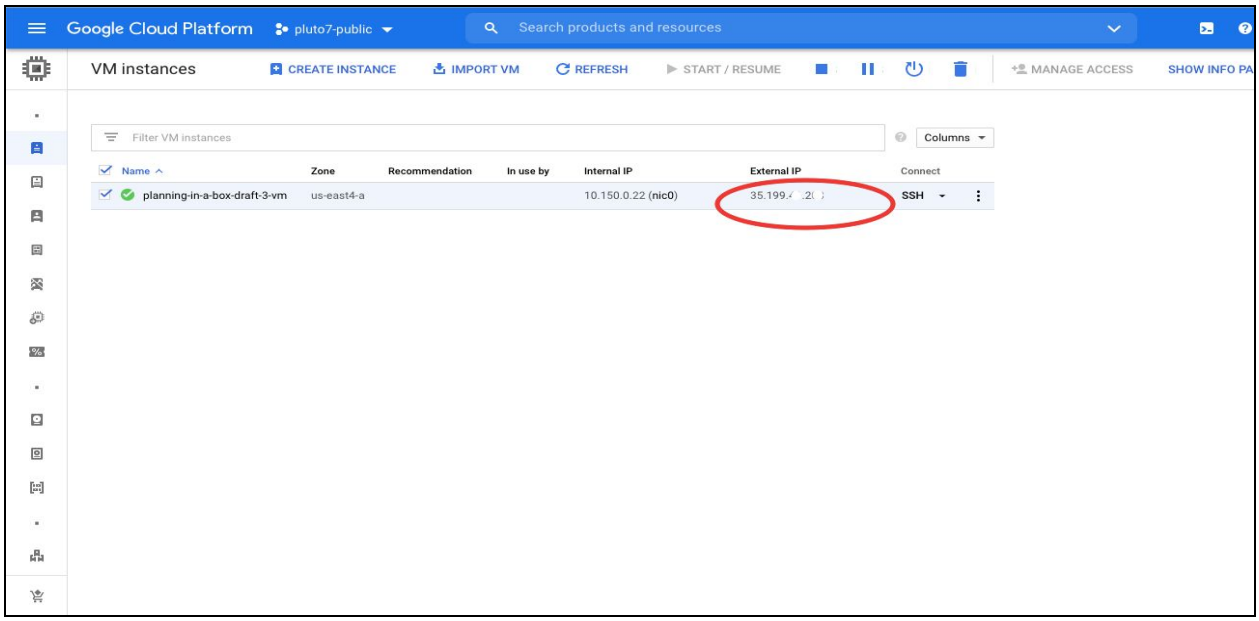




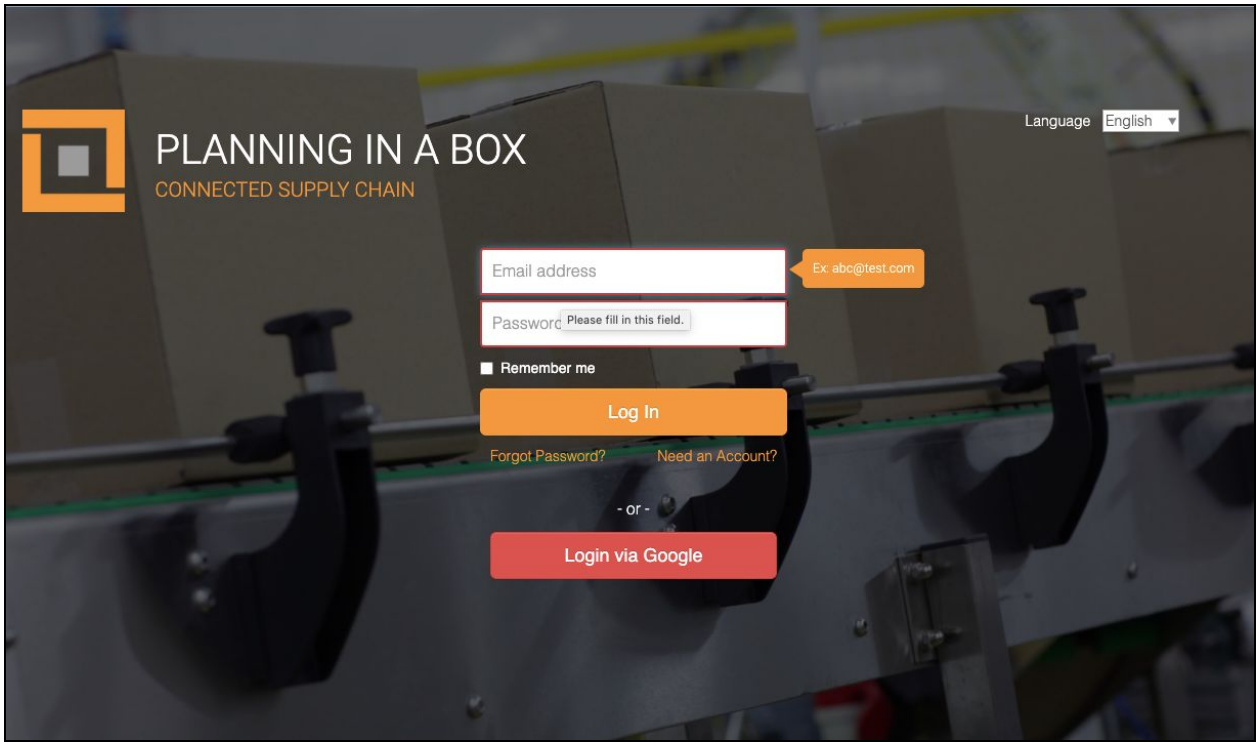
h. After uploading the service account json file into vm, do the following
    i. Get the absolute path of this file
    ii. Run these commands,
        1. cd /home/ubuntu,
        2. sudo ./keyenv.sh <service_account_json_file_absolute_path>



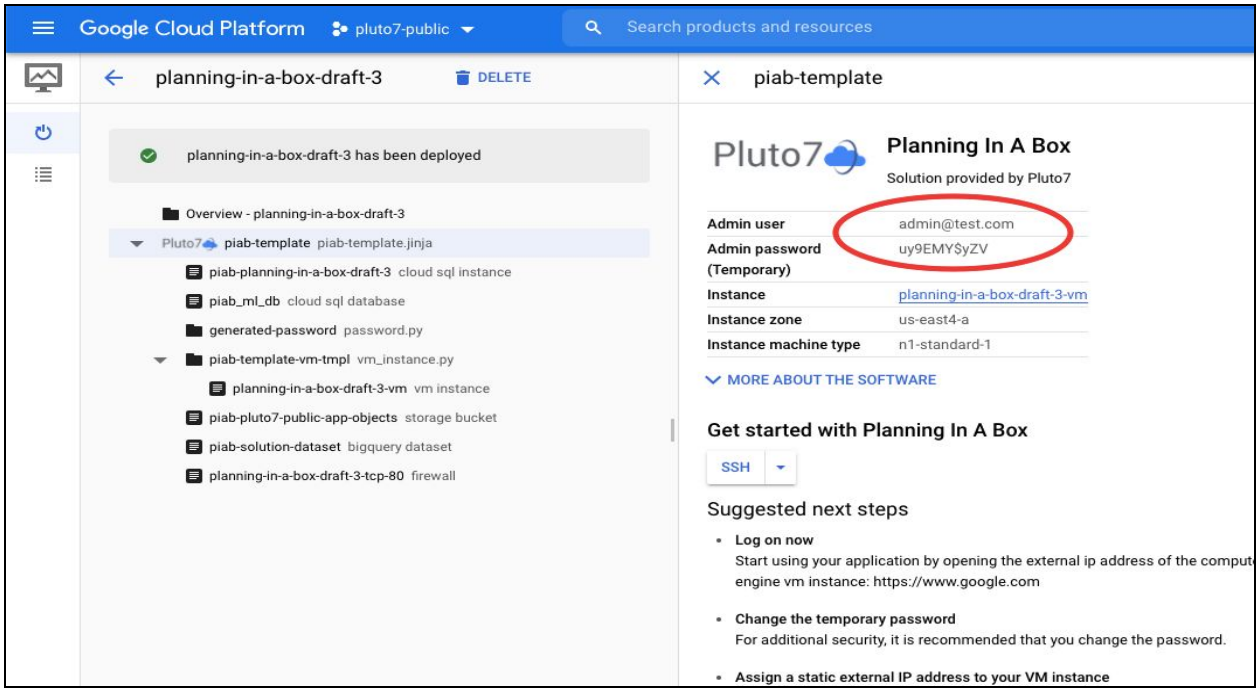
8. Accessing the piab web application,
    a. Goto compute engine instances page and copy the external ip address of the solution vm instance and open this in a new browser tab



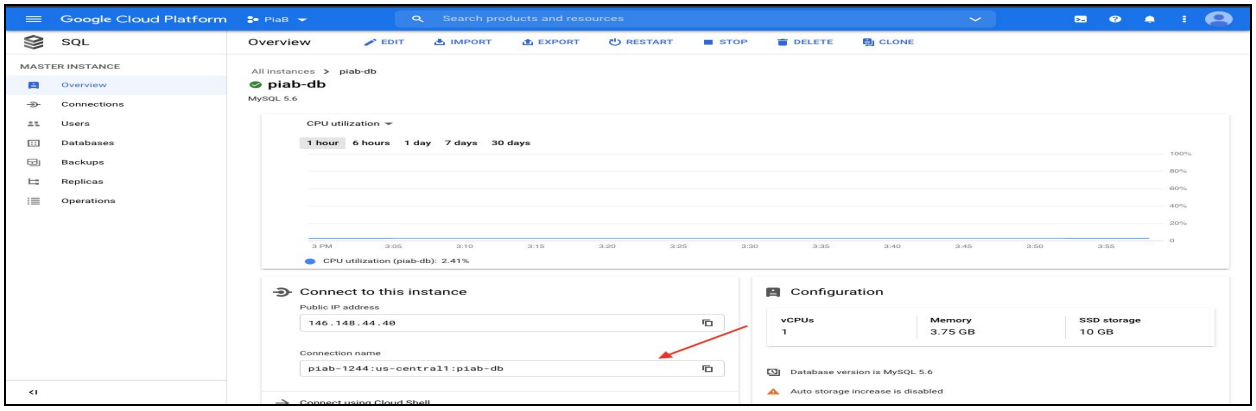
b. Piab web application login page,



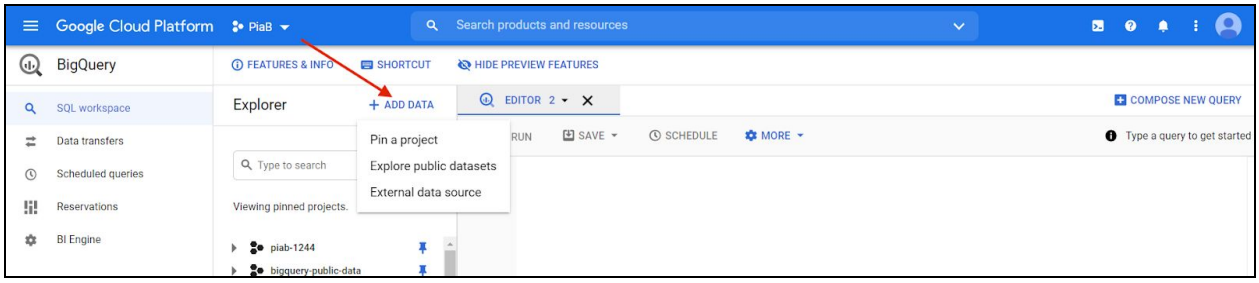
c. Login details can be found in the solution deployment manager page,

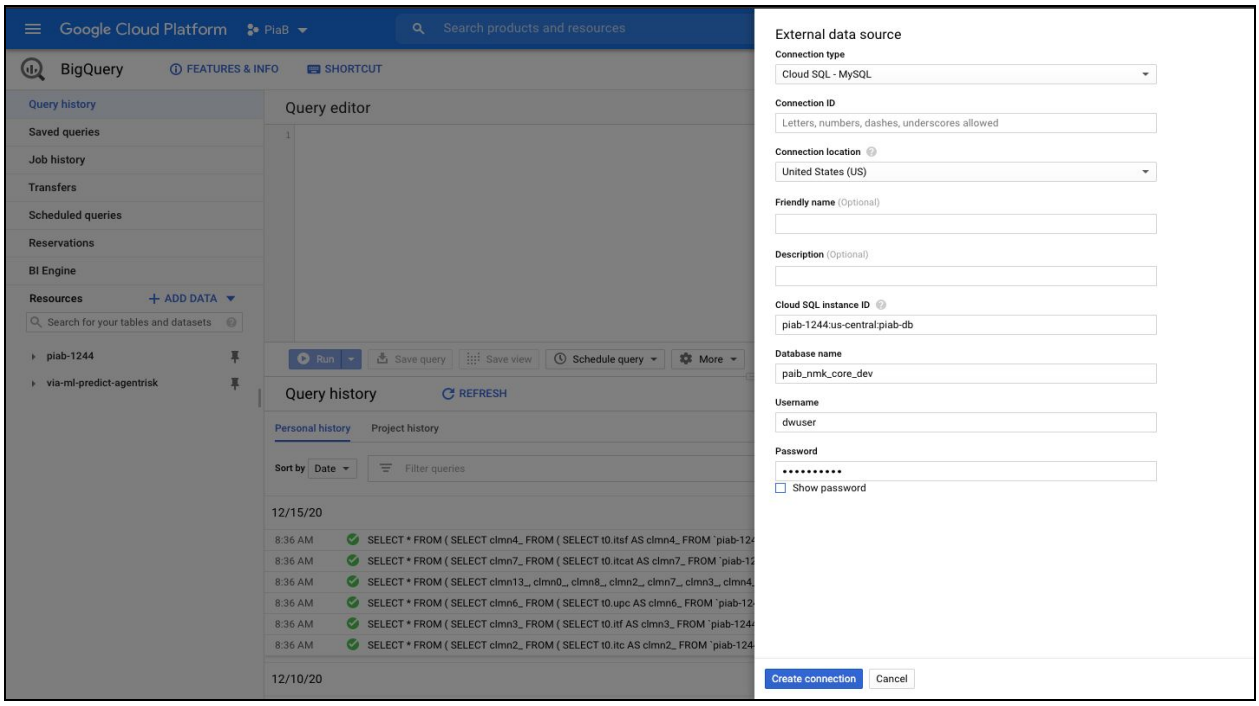


9. Setting Up Big Query External Connection:



a. Go to Cloud SQL and copy **Connection Name**
b. Go to Big Query and click on **Add Data** and then click on **External Data Source**.



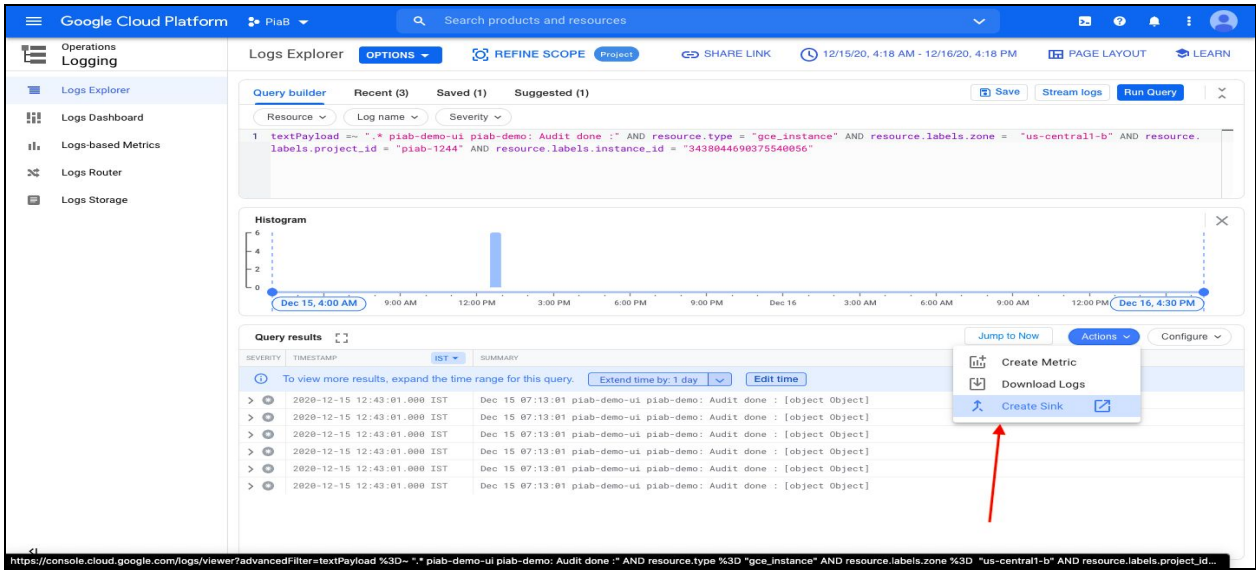


a. Enter **PiabSQLConnection** in the Connection ID input field.
b. In Connection Name of Cloud SQL input field enter Cloud SQL Instance Connection Name
c. Click Create Connection

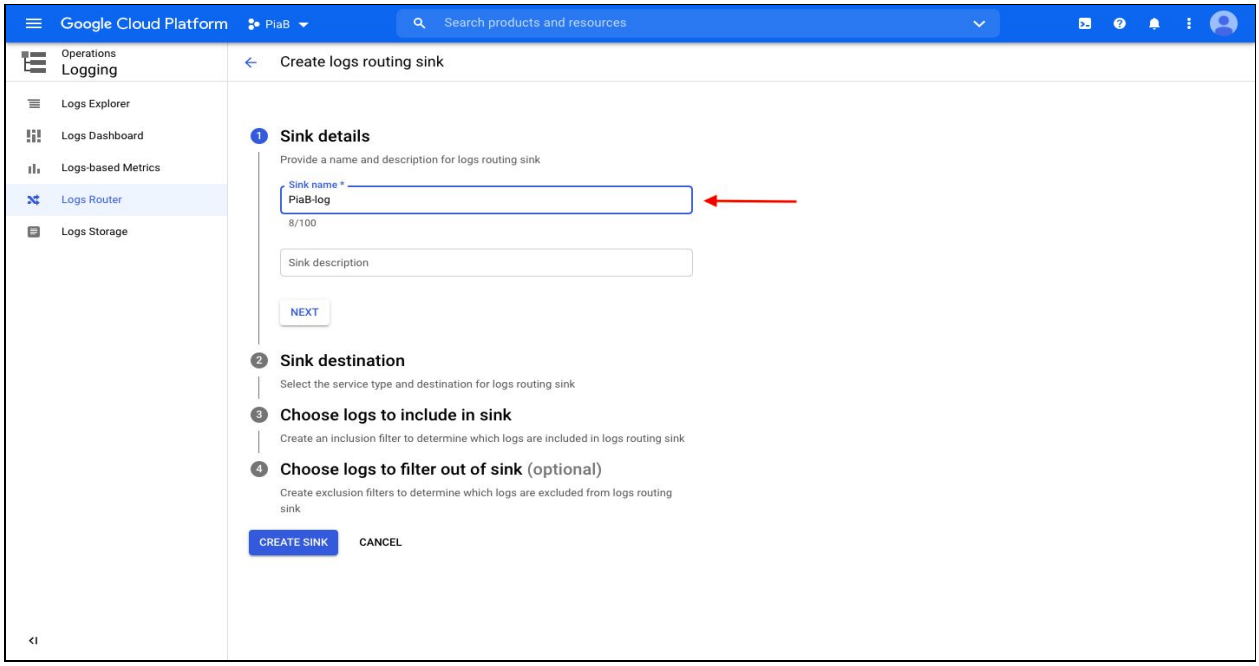
10. Create Sink

a. Go to Logging
b. Copy and Paste following Query in Query Builder

```
textPayload =~ ".* piab-demo-ui <VM_INSTANCE_NAME>: Audit done :" AND resource.type = "gce_instance" AND resource.labels.zone = "<SQL_INSTANCE_LOCATION>" AND resource.labels.project_id = "<PROJECT_ID>" AND resource.labels.instance_id = "<SQL_INSTANCE_ID>"
```



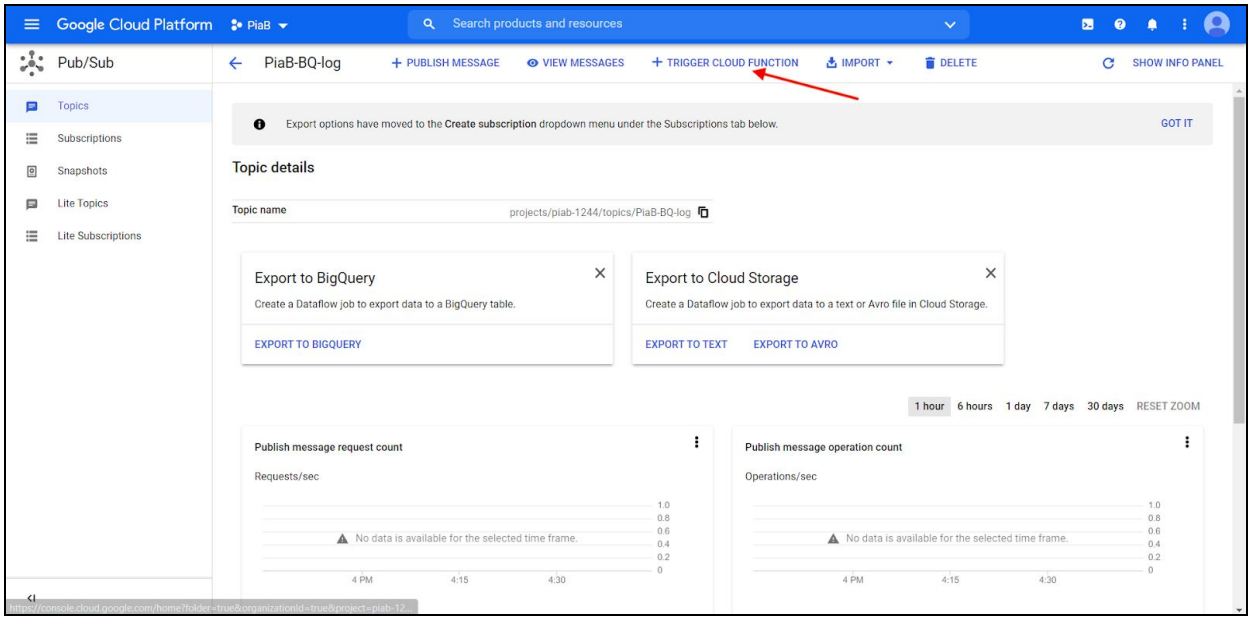
c. Click on **Create Sink**
d. Enter Sink Name(**PiaB-log**)



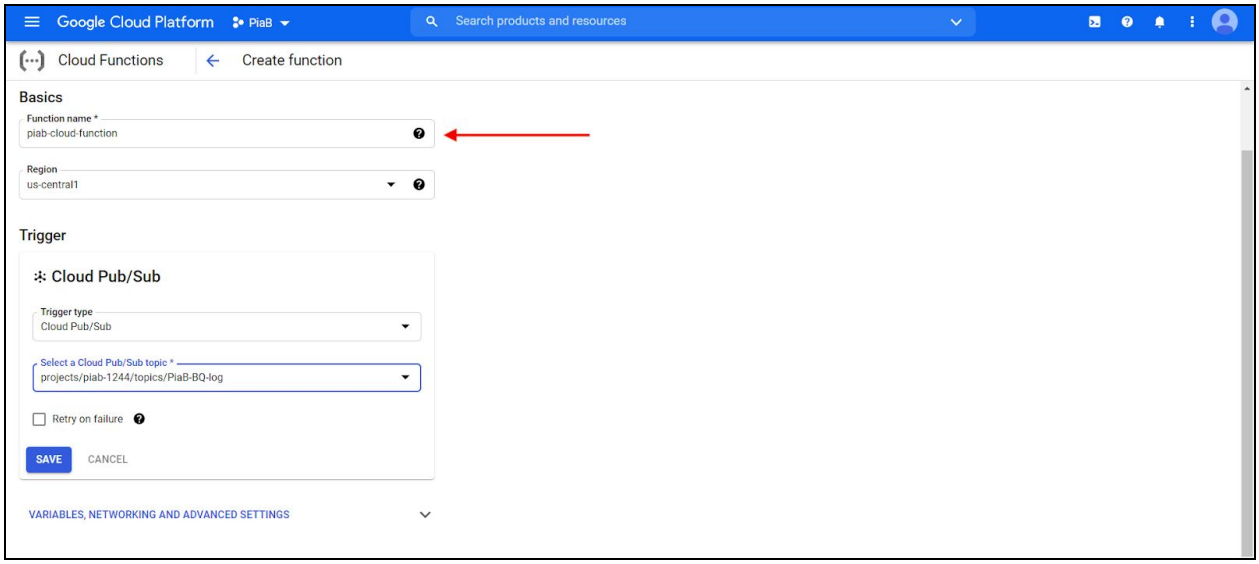
a. Under Sink Destination for Select Sink Service as **Cloud Pub/Sub topic** and For Select Cloud Pub/Sub Topic dropdown choose **Create new Cloud Pub/Sub topic**
b. Click on Create Sink

11. Creating Trigger in Pub/Sub

a. Go to Pub/Sub and click on **Trigger Cloud Function**

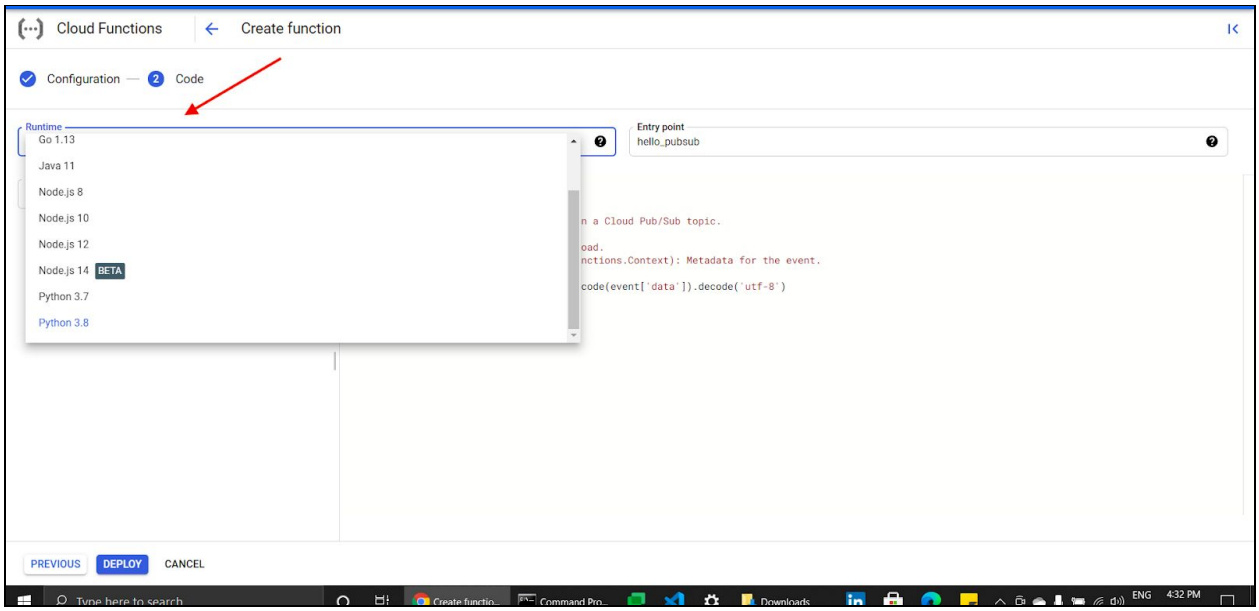


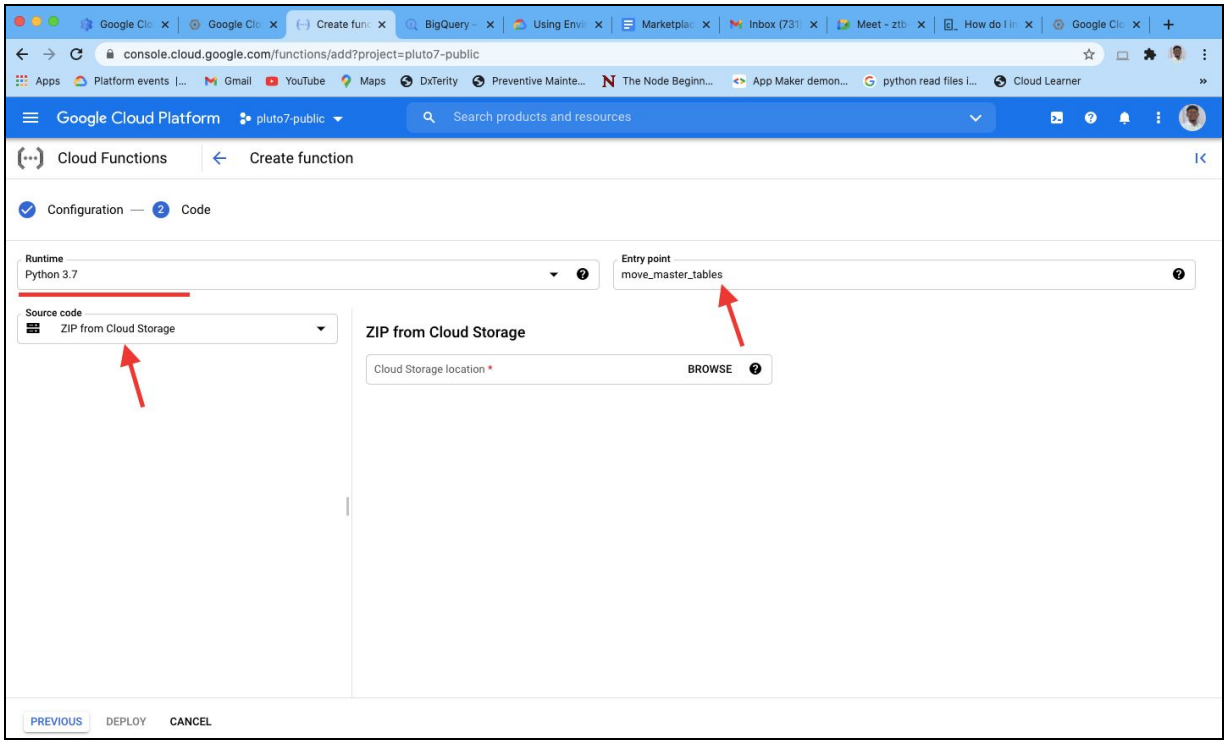
b. Enter Function Name(**piab-cloud-function**) and Select region as **us-central-1** and Select Cloud Pub/Sub Topic which was previously created.



12. Setting up of Cloud Functions

a. Select runtime language(**Python 3.8**).





b. In **Source Code** input choose **ZIP from Cloud Storage,**
c. In **Entry Point** field enter **move_master_tables,**
d. Click **DEPLOY**.