Note: We are following the steps provided in this [link](https://medium.com/@kn.maragatham09/installing-jupyter-notebook-on-google-cloud-11979e40cd10) with some modifications.

## Steps

* **Create New project**
* Give Desired name
* Note: You can see the details about the project in **Dashboard**
* Go to **navigation menu**(represented by 3 dashed lines on top left of the screen)
* Select **Compute Engines** -> **VM Instances**
* \*\* VM Instance\*\*
* Create a new instance
* give name
* specify requirements on mcahine
  + if GPU's denied, then navigation menu -> IAM & Admin -> Quotas
  + select *GPU's global* and *global* in the filters.
  + click on 'Edit Quotas' and increase the limit to required.
* enable \*\* Allow HTTP\*\* and **Allow HTTPS** traffic.
* Create the Instance.
* Go to **VPC Network** in the **navigation menu**
* Switch the network type from Ephemeral to Static.
* Go to **Firewall Rules**
* Create a new Rules
* provide a name
* Choose the other options according to the link provided
* You can specify any port in the **tcp** field. This will be the port where the jupyter notebook will be running. For example 8888
* **Installing Anaconda**

This will download the Anaconda installer

wget <https://repo.anaconda.com/archive/Anaconda3-2020.02-Linux-x86_64.sh>

Run this to install

bash Anaconda3-2020.02-Linux-x86\_64.sh

* Follow the steps provided in this [link](https://medium.freecodecamp.org/how-to-install-anaconda-on-ubuntu-16-04-64-bit-6f1c4675ce44)
* create new environment by running the command

conda create -n env\_name python=python x.x anaconda

* check if the environment was created by executing conda info --envs
* switch to new environment using source activate env\_name
* Follow the commands in this [link](https://medium.com/@kn.maragatham09/installing-jupyter-notebook-on-google-cloud-11979e40cd10). Follow instructions after *installation of anaconda* is complete.
  + Using iPython to create new password
  + generating new certificate
  + modifying jupyter config file.
  + when modifying the config file, make sure to change the location of your *certificate file* and your *password*
* **Running Jupyter notebook**
* Once the previous steps have been completed with success, you can execute the command jupyter notebook to run the notebook on the instance created.
* to access the notebook, open a new browser tab and enter the URL: https://<external-ip-address>:port\_Address\_specified\_while\_creating\_firewall\_rule

Using the external ip address of the virtual machine

*If you use a Chrome browser: you might have to give permission to proceed, as it sees the link as unsafe. You might also have to use incognito mode.*