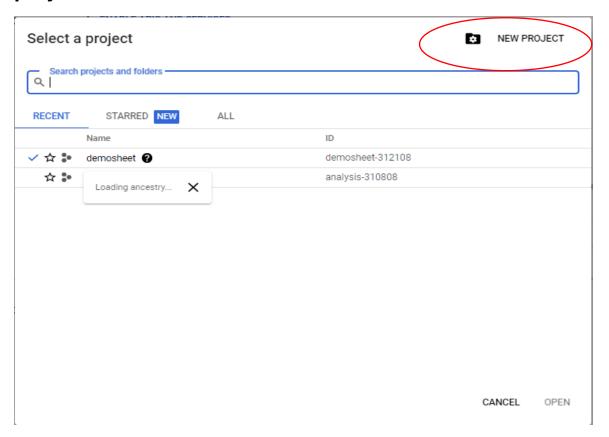
System Development 29-Apr-2021

Submitted by:

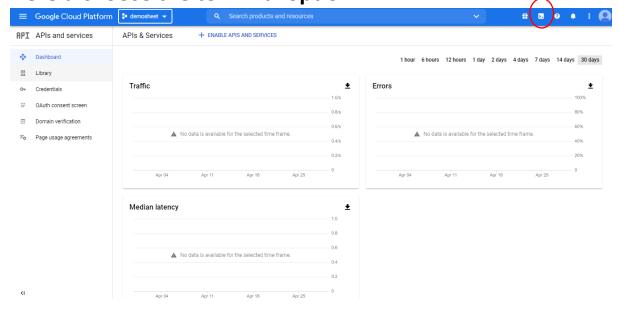
Samundar Singh 2019272033(SS)

Setup Docker in Cloud:

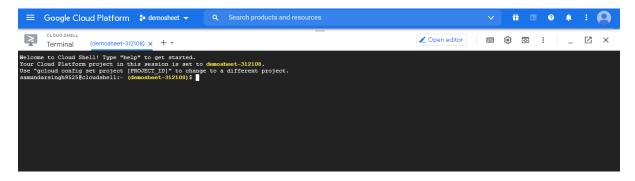
Step 1: open google developer console and create a new project.



Step 2: once you select the project it will open this window Here u choose the terminal option.

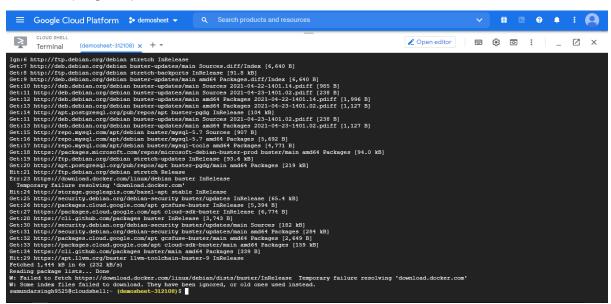


Step 3: we get a terminal like this.

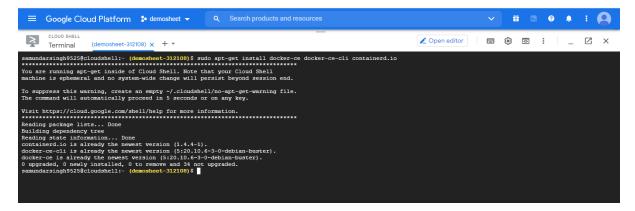


Step 4: install the docker for installation type these commands

\$ sudo apt-get update



\$ sudo apt-get install docker-ce docker-ce-cli containerd.io



Since I have already installed it will show like this but if you start it from scratch it will download the Docker.

Step 5: After in installation of docker we check the version of docker only to insure that the installation is successful or not.

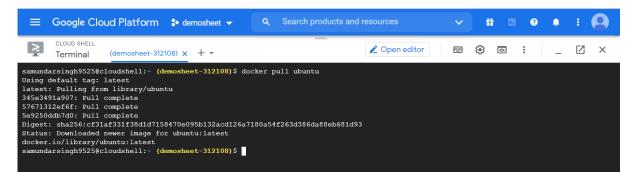


Step 6: Now we install some images like(ubuntu os ,nginx server etc.)

a.) Creating ubuntu container:

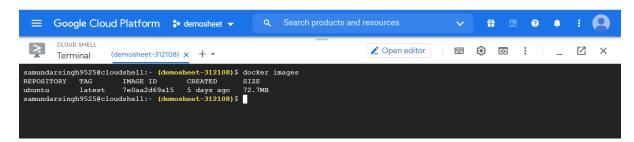
Cmd: \$ docker pull ubuntu

To install the ubuntu image



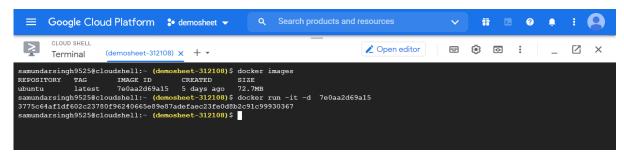
To check the Id of Ubuntu:

Cmd: \$ docker images



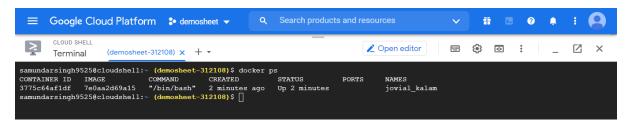
To launch the container of Ubuntu:

Cmd: \$ docker run -it -d 7e0aa2d69a15



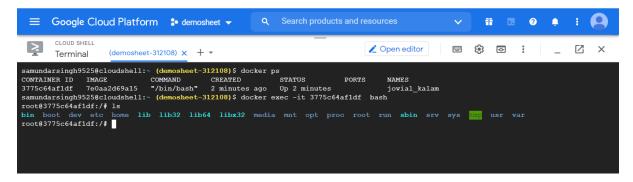
To login in container of Ubuntu:

Cmd: \$ docker ps



Then

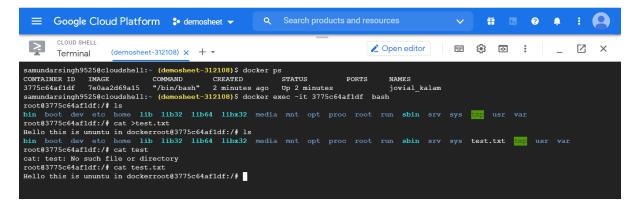
Cmd: \$ docker exec -it <container id>bash



As we can see that a linux is running in docker we can see that the terminal name is changed

Testing:

I simply create a text file using Cat command and store some sentence on it ang again fetched the data.



b.) Creating ngnix container:

To install the nginx image

Cmd: \$ docker pull nginx

```
ii 🗷 😯 🛕 🗜 🕻
        CLOUD SHELL
                                                                                      (demosheet-312108) × + ▼
        Terminal
    ndarsingh9525@cloudshell:~ (demosheet-312108)$ docker pull nginx
samundarsingh9525@cloudshell:~ (dem
Using default tag: latest
latest: Pulling from library/nginx
f7ec5a41d630: Pull complete
aalefa14b3bf: Pull complete
b78b95af9b17: Pull complete
c7d6bca2b8dc: Pull complete
cf16cd8e71e0: Pull complete
0241c68333ef: Pull complete
Digest: sha256:75a55d33ecc73c2a242450a9f1cc858499d468f077ea942867e662c247b5e412
Status: Downloaded newer image for nginx:latest
docker.io/library/nginx:latest
samundarsingh9525@cloudshell:~ (demosheet-312108)$
samundarsingh9525@cloudshell:~ (demosheet-312108)$ docker images
REPOSITORY
                        TAG
                                            IMAGE ID
                                                                        CREATED
                                                                                                   SIZE
                         latest
                                            62d49f9bab67
                                                                        2 weeks ago
                                                                                                   133MB
 samundarsingh9525@cloudshell:~ (demosheet-312108)$
```

To launch the container of ngnix

Cmd: \$ docker run -it -d image id of nginx

```
      samundarsingh9525@cloudshell: (demosheet-312108)$ docker images

      REPOSITORY TAG IMAGE ID CREATED SIZE

      nginx latest 62d49f9bab67 2 weeks ago 133MB

      samundarsingh9525@cloudshell: (demosheet-312108)$ docker run -it -d
      62d49f9bab67

      69ccc519f1db53bcdab4441214e86652ce0de8e352da5cc69f3ae0a1e89aafbe

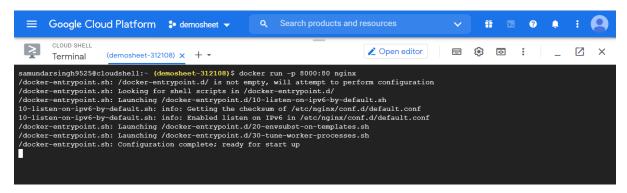
      samundarsingh9525@cloudshell: (demosheet-312108)$ docker ps

      CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES

      69ccc519f1db 62d49f9bab67 "/docker-entrypoint..." 8 seconds ago Up 7 seconds 80/tcp sleepy_antonelli
```

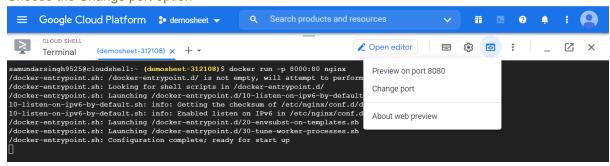
To deploy the server of ngnix:

Cmd: \$ docker run -p 8000:80 nginx

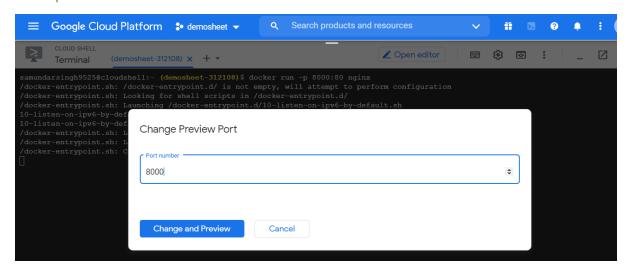


As we can see the server is listening on port 8000

Choose the Change port option



Select port 8000



Click on change and Preview



Thank you for using nginx.