Go to: <https://console.cloud.google.com/education>

Enter code. Redeem

At the console

<https://console.cloud.google.com/home/dashboard>

create a private key:

<https://linuxhint.com/generate-ssh-keys-on-linux/>

follow this guideline:

<https://linuxhint.com/ubuntu_server_google_cloud/>

Create a project name

select project

navigation menu top left

compute engine

vm instance (wait a moment)

create

-name

-region / zone (US cheaper, lower latency)

-1vCPU

-boot disk -> Ubuntu 18.04LTS

-allow default access

-allow http and https traffic

-create

Then…create an ip address

Click on your instance name

Top menu – edit

Scroll down to network interfaces – edit (via pencil icon)

External IP type

Reserve new static IP

Type a name

(remember the ip…

34.73.245.210

Go to dashboard

Go to compute engine

Click SSH

Install libraries on your server.

sudo apt update

sudo apt upgrade

sudo apt install python3 python3-dev

sudo apt install python3-pip

sudo pip3 install numpy

sudo apt-get install libsm6

sudo apt-get install libxrender1

sudo pip3 install opencv-python

sudo pip3 install matplotlib

sudo pip3 install Pillow

sudo pip3 install datetime

sudo pip3 install psutil

sudo apt install ffmpeg

go to cloud console VM instances… menu on right STOP

++ install gcloud

https://cloud.google.com/sdk/docs/quickstart-debian-ubuntu

1) curl https://sdk.cloud.google.com | bash

2) source ~/.bashrc

3) gcloud init

COPY FILES using gcloud copy procedure: gcloud compute scp

(issued on your local computer !)

++ from remote instance to local computer:

gcloud compute scp <instancename>:path\_to\_file local\_destination

gcloud compute scp awayfromhome:/home/marcbohlen/data/dummy.txt /home/realtech/Desktop/

++ from local computer to remote instance (assuming troube in in your current dir)

gcloud compute scp file local\_destination <user@instancename>:path

gcloud compute scp trouble.doc [marcbohlen@awayfromhome](mailto:marcbohlen@awayfromhome):~/data/

>> SSH in via console, setup your workspace

mkdir code

mkdir data

edit a file with nano:

nano filename

save: ctrl O

exit: ctrl X

exit session with ‘ctrl d’

-------------------------------------------------------------------------------------------------------------------------------