Google Compute Engine (GCE) Instructions
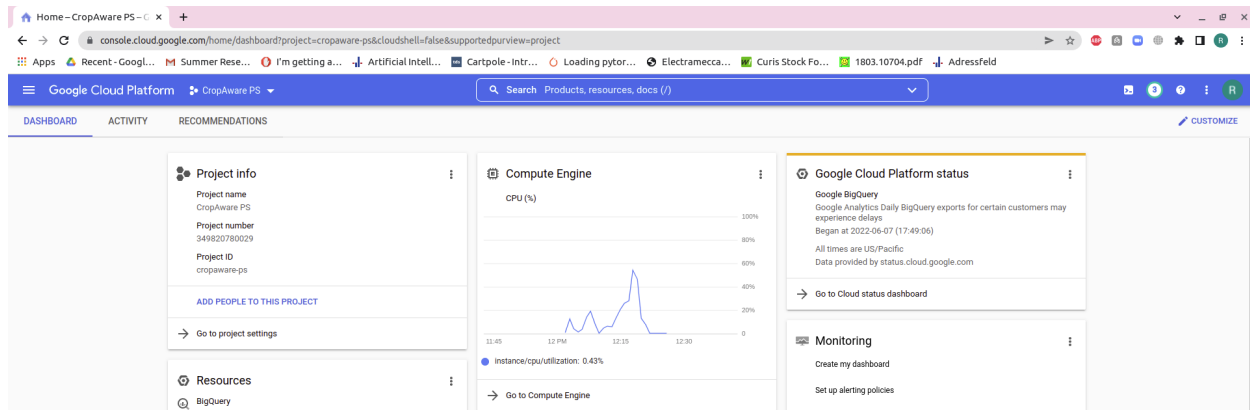
Setup:

1. VERY IMPORTANT ALWAYS STOP YOUR INSTANCES AFTER USAGE! Never leave them on without running something.
2. Send an email to your supervisor stating that you need a GCE account, including <unique_name_of_your_final_project> and all <gmail> addresses of the group members.
3. Login with your gmail account and go to https://console.cloud.google.com/
4. You should now be able to see a project on the top left with <unique_name_of_your_final_project>, if not repeat Step 2.
5. One student in the group activates a 25 $ coupon that serves as billing account
6. Change the billing account of the project to "Billing Account for Education". https://cloud.google.com/billing/docs/how-to/modify-project
7. When you finish using the coupon of your last team member (~10 $ remaining), activate a new coupon.
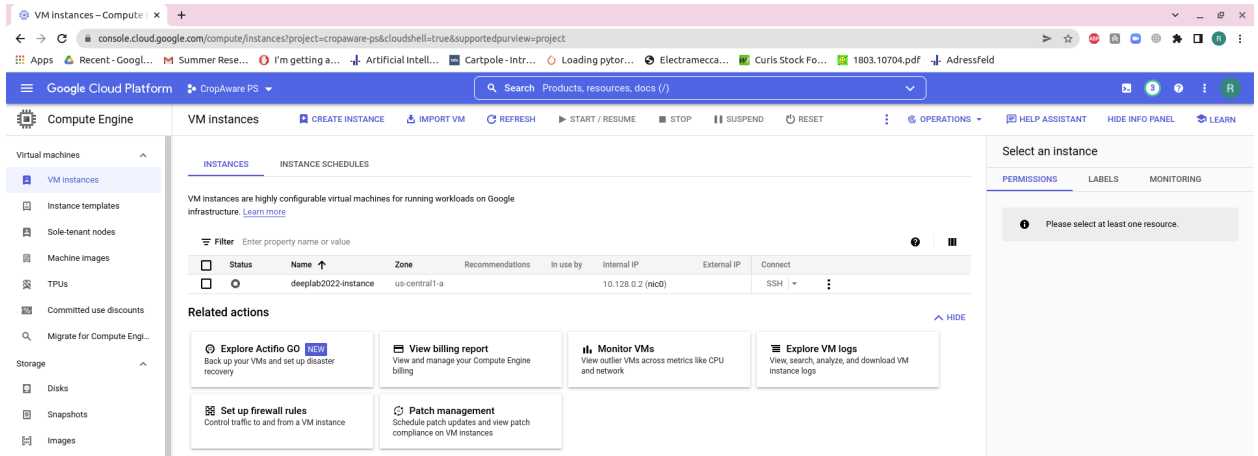
Computing:

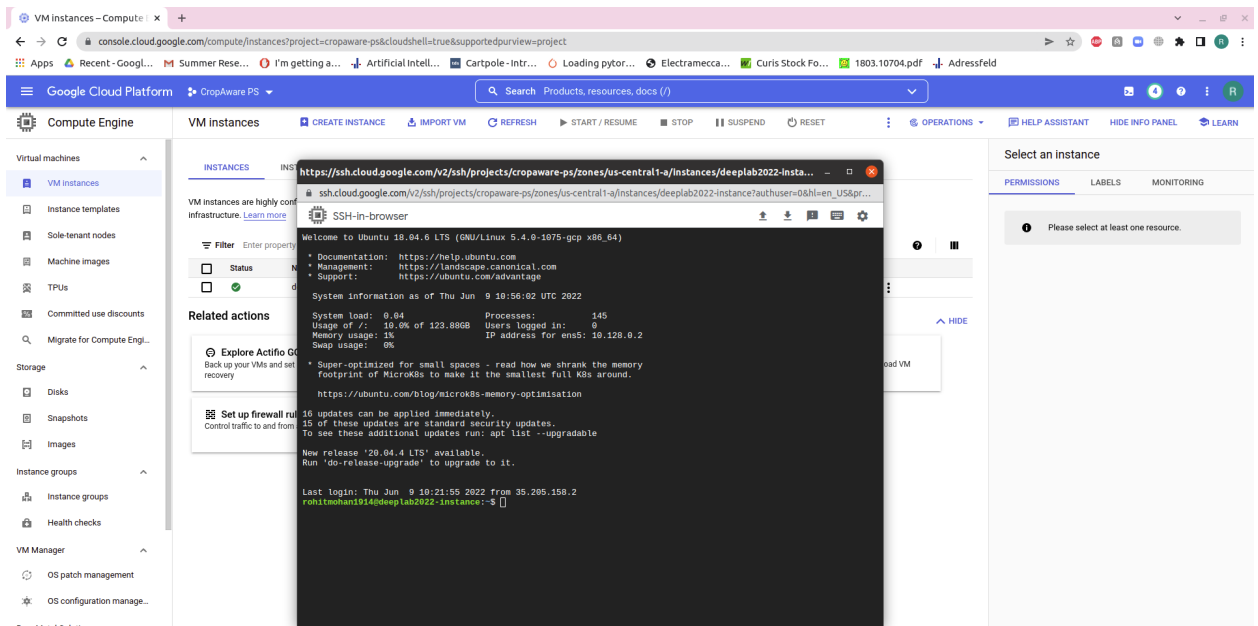8. Click "Go to Compute Engine".

9. Mark the instance *deeplab2022-instance* (can be a different instance name depending on the supervisor who creates it) and click "Start" (three dots menu) to

launch the instance.

10. The instance is a preconfigured VM. It has 4 CPU cores, 15 GB memory, 128 GB SSD disk, 1 NVIDIA K80 GPU, Ubuntu 18.04, CUDA 11.3 and NVIDIA drivers
11. Click on "SSH" to open a terminal and configure your machine (you have sudo rights). Now you are ready to start working on this machine!

12. When you finish your work "Stop" the instance and wait until it shuts down!

Optionally:

13. To access the instance from outside via a terminal install the command line tool gcloud on your personal laptop. Connect gcloud with your google account.
14. To copy data to the instance from outside use gcloud compute scp or github
15. If you need a GUI on the instance follow this tutorial to setup a VNC server