## How to use Google Cloud Platform with GPU

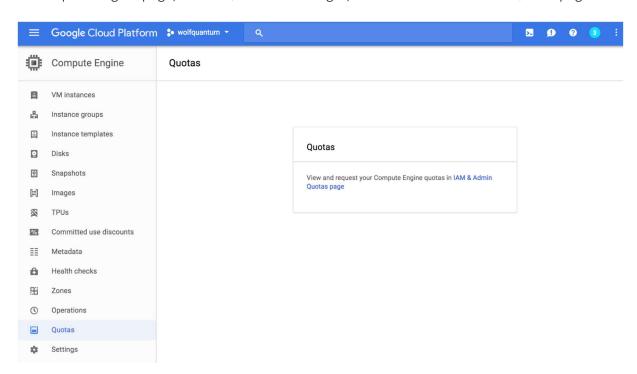
## **Peiyan Gong**

6/8/2018

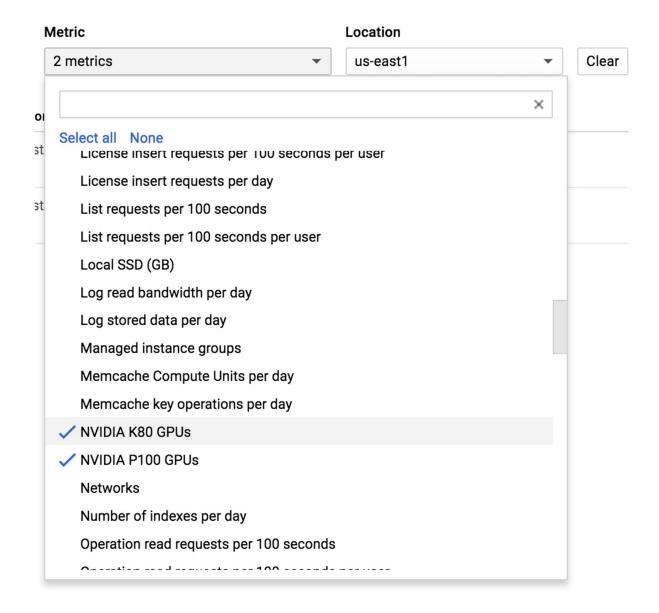
Warning: GPU instances are quite expensive. Please shut down your GPU instances when you are not using them.

To those who applied for the \$300 Google Cloud free-trial coupons: the \$300 public coupons cannot be used to apply for GPU quotas. Also, you need to upgrade your account into a paid account to issue GPU quotas. These quota is to ask for permission of using GPUs. You must issue a quota before using GPUs. These quotas take about 10 mins to a couple hours to process.

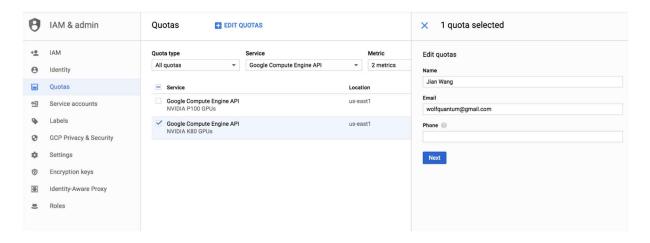
In compute engine page, select Quotas on the right, and click "IAM & Admin Quotas page."



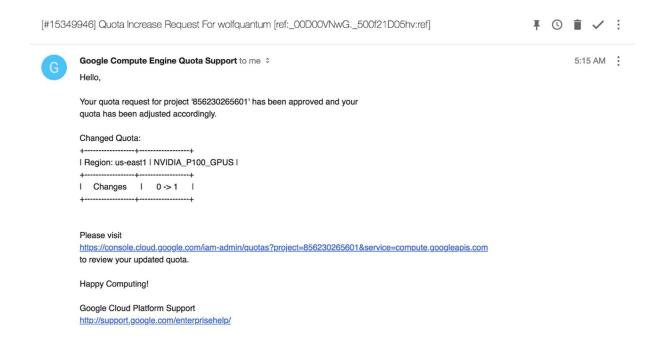
On the IAM & Admin Quotas page, in the Metric tab choose K80 and P100 GPUs; in the Location tab, we suggest you to choose us-east1.



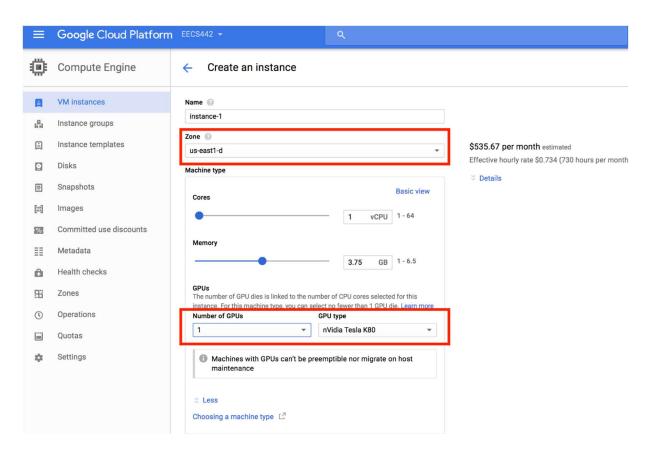
Check the GPU type you want, and hit "EDIT QUOTAS." Fill in your information. P100 is faster and more expensive than K80. However, P100 is more powerful than K80. Also, GCP now offer V100 GPUs as Beta version. A more detailed information of the comparison of these GPUS can be found here: https://cloud.google.com/compute/docs/gpus/



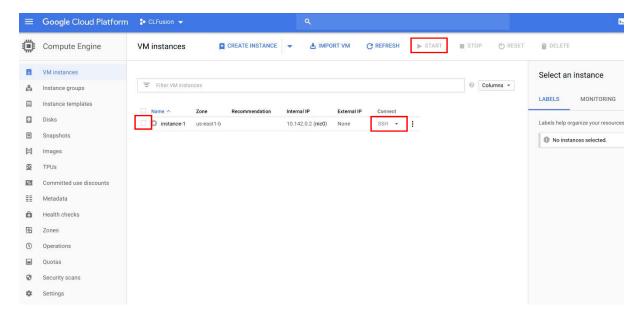
After you submit the form, you should receive an email like this one in two minutes.



Now create your VM machine. When you create your VM instance, please choose "us-east1-\*". Remember to select GPU as well.



Finally, enter VM instances page and select instance-1. The "START" button will light up and click this button. Then click "SSH" button under "Connect".



A new window will pop up. This window is the terminal of the VM instance. Have fun!