GCP & AWS update GPU limits

CSCI 599 2019-02-12 GCP & AWS by default don't allow users to use GPU machines (GPU limits are 0 initially).

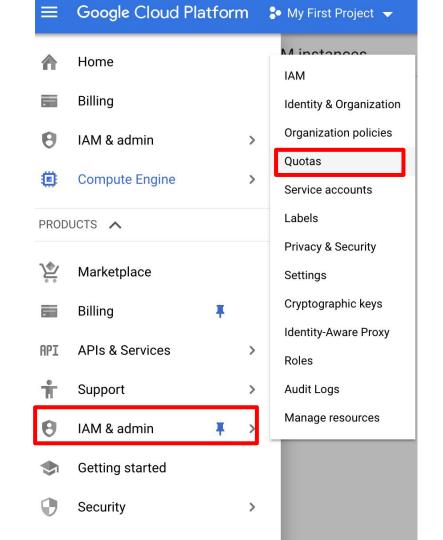
So if you want to use their GPU machine, you have to update the GPU limits.

The latter slides will show how to update the GPU limits.

AWS & GCP are not free! GPU Instances are expensive! You are responsible for all the billings! **Even if you are not running processes, they will charge you** if your machine is running. Remember to shutdown/terminate your machines when not using them.

GCP: update GPU limits

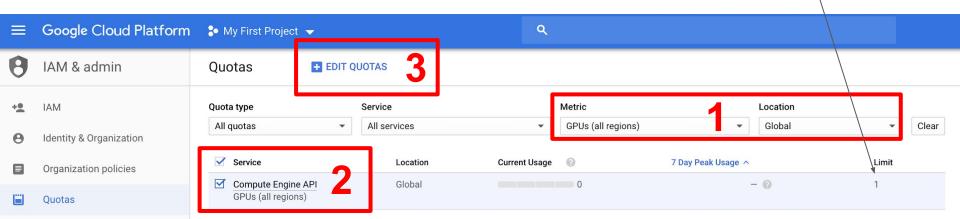
- first create a project
- click top left menu icon
- hover over "IAM & admin"
- click the "Quotas"



GCP: update GPU limits

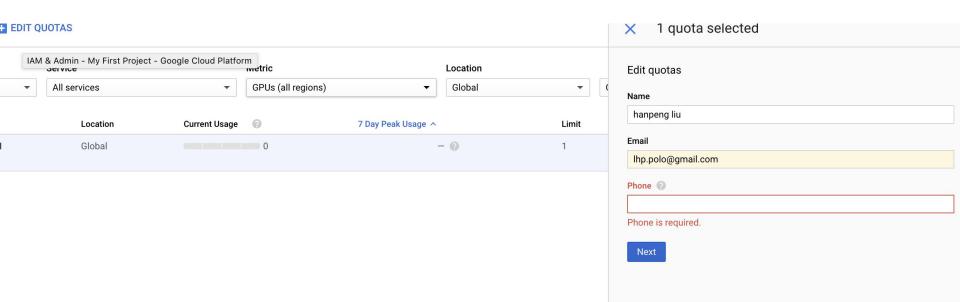
- Inside the Quotas page,
 - set "Metric" filter to be "GPUs (all regions)
 - set "Location" filter to be Global
- select the "Compute Engine API"
- click "EDIT QUOTAS"

note: if your "limit" value is 1 or more, then you are fine. "0" is the default value for new users.



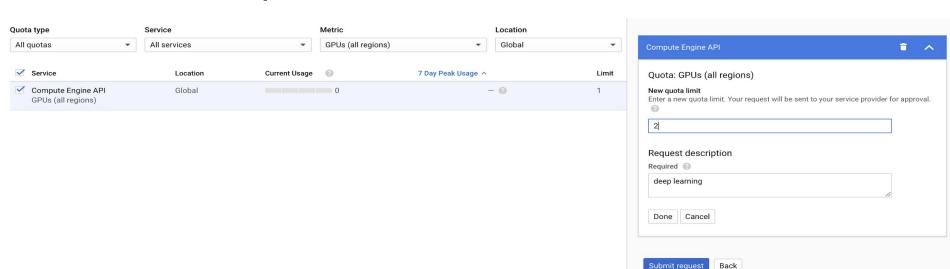
GCP: edit quotas

• in the right panel, fill in your name/email/phone, click next



GCP: edit quotas

- fill the maximum number of GPUs you want in the "new quota limit", e.g., "2"
- write something to the description, e.g., "deep learning"
- click "submit request"



GCP: edit quotas

- you will see your case is submitted and
- usually it takes several hours to get quota approved
- × Edit quotas

Compute Engine API

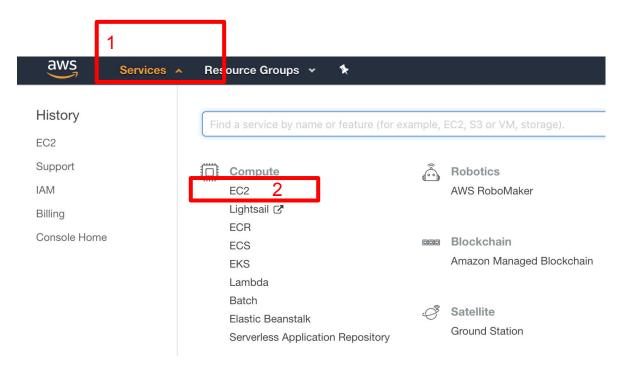
Thank you for submitting Case # (ID:500f200001MdyukAAB) to Google Cloud Platform support for the following quota:

• Change GPUs (all regions) from 1 to 2

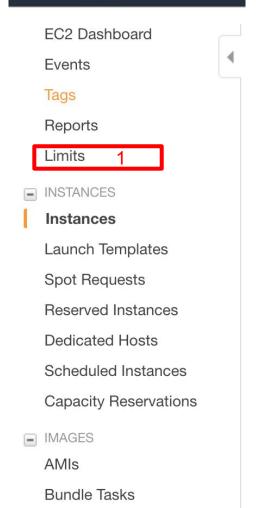
Your request is being processed and you should receive an email confirmation for your request. Should you need further assistance, you can respond to that email.

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- login to AWS console
- click "Services"
- then click "EC2"

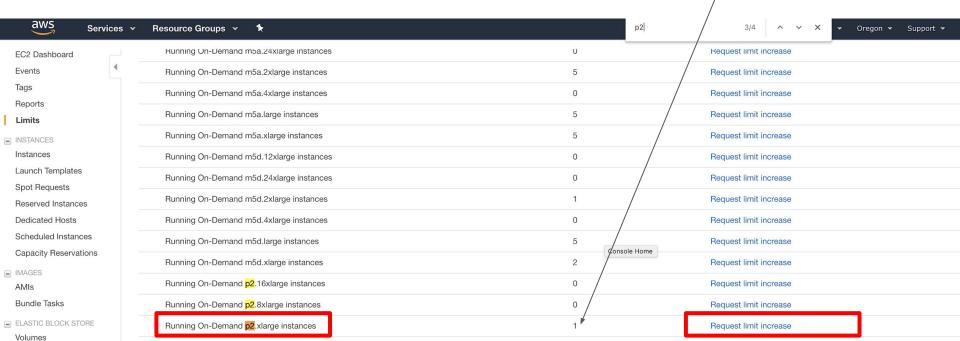


 click "limits" in the left side bar

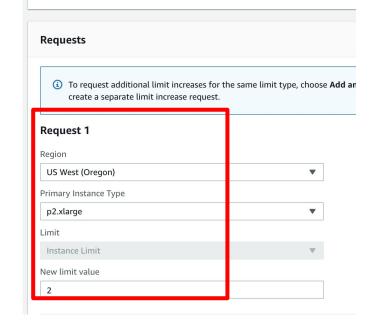


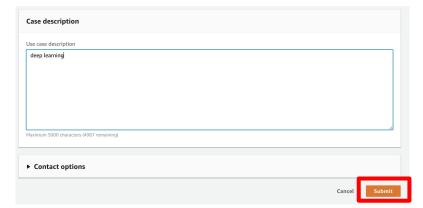
note: if your "limit" value is 1 or more, then you are fine. "0" is the default value for new users.

- search "p2" in the new page
- click "Request limit increase" for "Running On-Demand p2/.xlarge instances"



- in the new tab, under "requests"
 - choose the region you want, e.g. Oregon (or whatever you want)
 - choose the machine type:p2.xlarge
 - write down new limit (max
 GPUs you want), e.g., 1
- under "requests", fill in the reason, e.g. "deep learning"
- click submit





- you should see a new page with case ID and other information
- usually it takes several hours to get quota approved

Case ID 5781268701 Info	
Case details	
Subject	Status
Limit Increase: EC2 Instances	Unassigned
Case ID	Severity
5781268701	General question
Created	Category
2019-02-12T22:47:21.190Z	Service Limit Increase, EC2 Instances
Case type	Additional contacts
Service limits	-

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