

## How to use Google Platform?

### Reference:

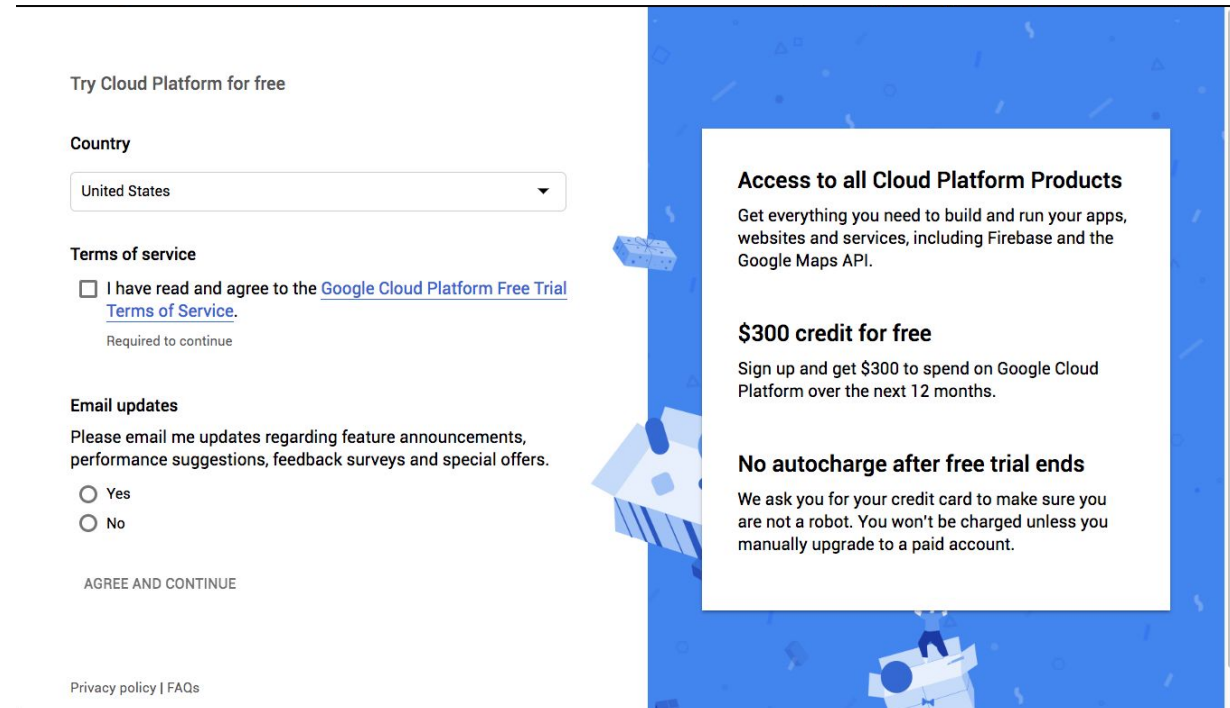
<https://towardsdatascience.com/running-jupyter-notebook-in-google-cloud-platform-in-15-min-61e16da34d52>

[https://cloud.google.com/deep-learning-vm/docs/pytorch\\_start\\_instance](https://cloud.google.com/deep-learning-vm/docs/pytorch_start_instance)

### Step 1: Create a free account in Google Cloud with 300\$ credit

For this step, you will have to put your payment information and verify your account.

<https://cloud.google.com/>



The screenshot shows the Google Cloud Platform sign-up page for a free trial. On the left, there is a form with the following sections:

- Try Cloud Platform for free**
- Country**: A dropdown menu showing "United States".
- Terms of service**: A checkbox labeled "I have read and agree to the [Google Cloud Platform Free Trial Terms of Service](#)". Below it, it says "Required to continue".
- Email updates**: A section asking "Please email me updates regarding feature announcements, performance suggestions, feedback surveys and special offers." with two radio buttons: "Yes" and "No".
- AGREE AND CONTINUE**: A button to proceed.
- Privacy policy | FAQs**: A link at the bottom.

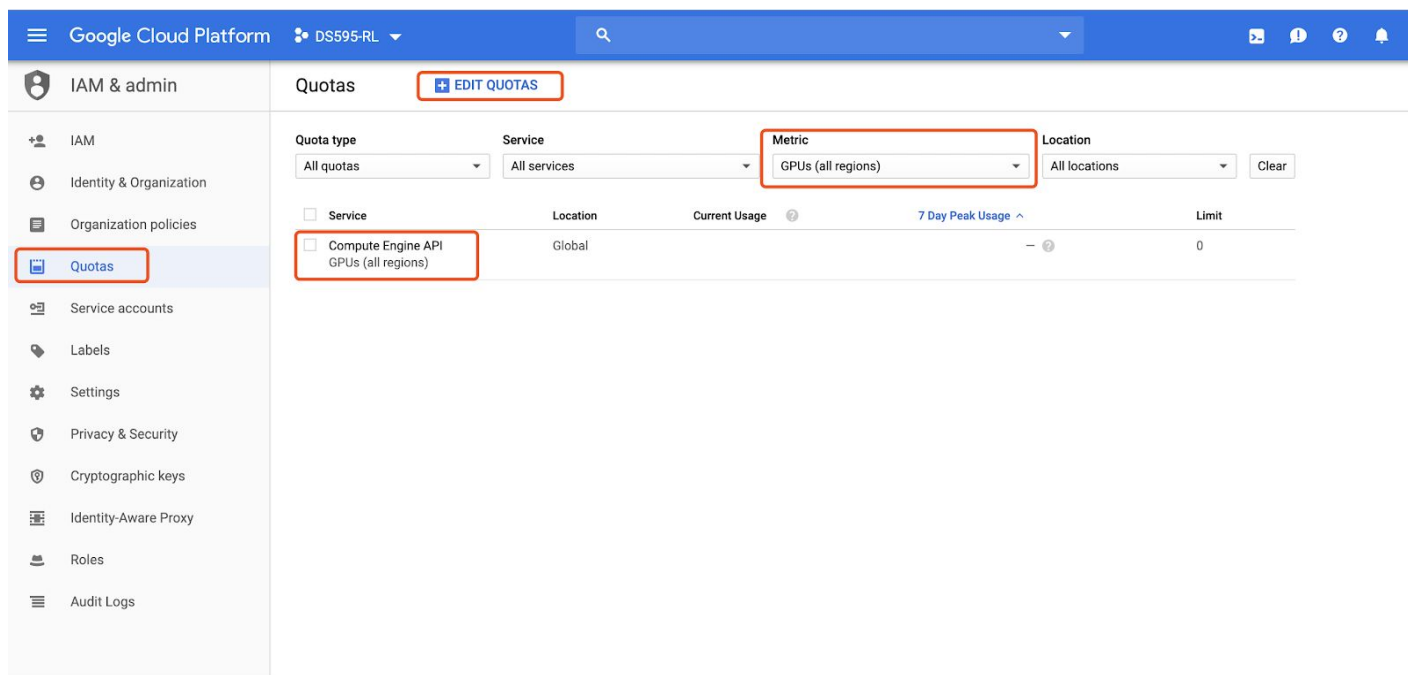
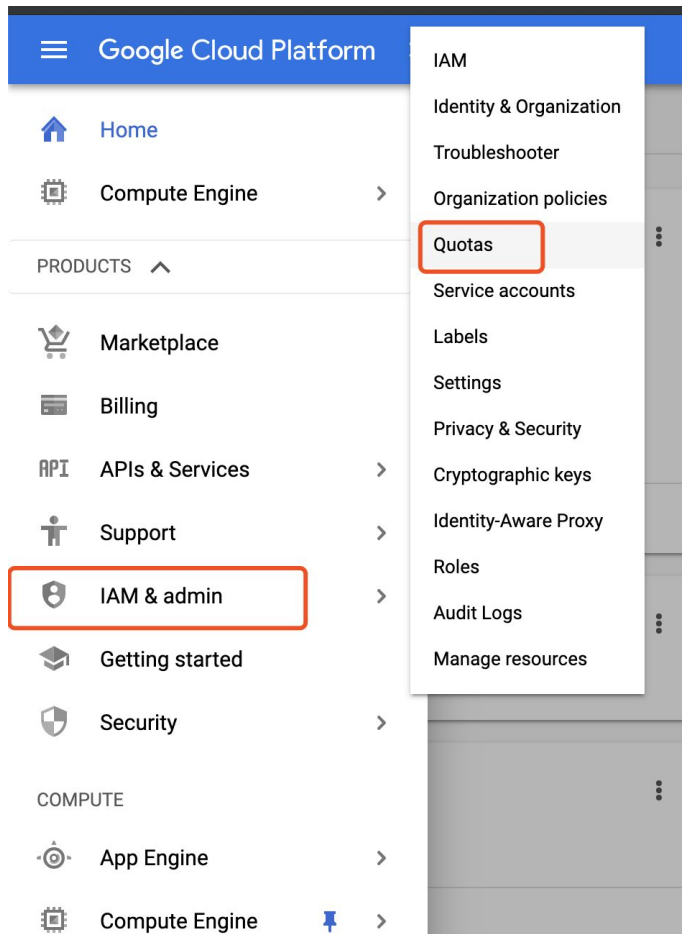
On the right, there is a blue banner with white text and confetti graphics. The banner contains the following information:

- Access to all Cloud Platform Products**: "Get everything you need to build and run your apps, websites and services, including Firebase and the Google Maps API."
- \$300 credit for free**: "Sign up and get \$300 to spend on Google Cloud Platform over the next 12 months."
- No autocharge after free trial ends**: "We ask you for your credit card to make sure you are not a robot. You won't be charged unless you manually upgrade to a paid account."

### Step 2: Create a new project

**If you cannot create instance, request quota first.**

<https://stackoverflow.com/questions/53415180/gcp-error-quota-gpus-all-regions-exceeded-limit-0-0-globally>



Quotas

EDIT QUOTAS

Quota type

Service

Metric

All quotas

All services

GPUs (all regions)

☒ Service

Location

Current Usage

7 Day Peak Usage

☒ Compute Engine API  
GPUs (all regions)

Global

1 quota selected

Compute Engine API

Quota: GPUs (all regions)

New quota limit

Enter a new quota limit. Your request will be sent to your service provider

1

Request description

Required

rl

Done

Cancel

Submit request

Back

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GPUs (all regions)

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Edit quotas

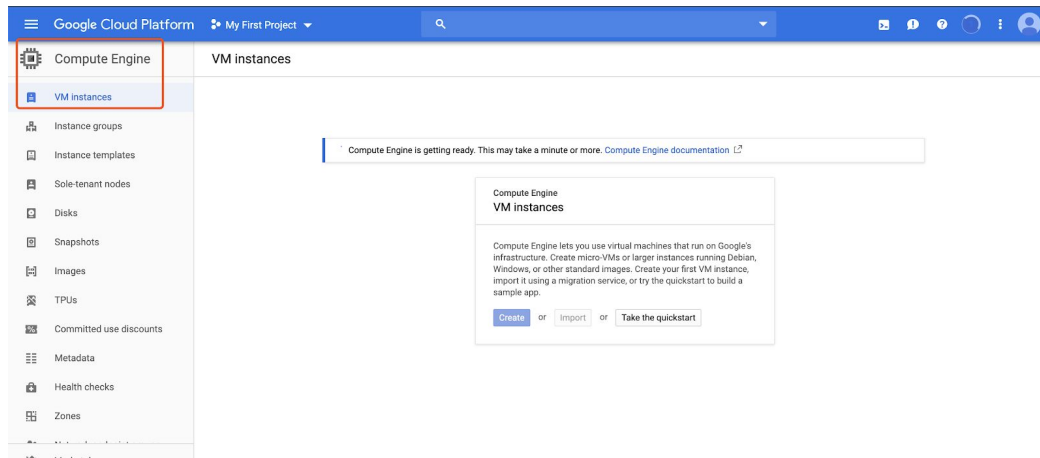
Compute Engine API

Thank you for submitting Case # (ID:20654291) to Google Cloud Platform support for the following quota:

Change GPUs (all regions) from 0 to 1

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.

### Step 3: Create instance



Region ?

us-central1 (Iowa)

Zone ?

us-central1-a

Machine configuration ?

Machine family

General-purpose

Memory-optimized

Machine types for common workloads, optimized for cost and flexibility

Generation

First

Powered by Skylake CPU platform or one of its predecessors

Machine type

n1-standard-4 (4 vCPU, 15 GB memory)



vCPU

4

Memory

15 GB

CPU platform ?

Automatic

GPU type

NVIDIA Tesla K80

Number of GPUs

1



☐ Enable Virtual Workstation (NVIDIA GRID)

Display device

Turn on a display device if you want to use screen capturing and recording tools.

☐ Turn on display device

### Container ?

☐ Deploy a container image to this VM instance. [Learn more](#)

### Boot disk ?



New 100 GB standard persistent disk

Image

Ubuntu 18.04 LTS

Change

### Identity and API access ?

#### Service account ?

Compute Engine default service account ▼

#### Access scopes ?

- ☒ Allow default access
- ☐ Allow full access to all Cloud APIs
- ☐ Set access for each API

### Firewall ?

Add tags and firewall rules to allow specific network traffic from the Internet

- ☒ Allow HTTP traffic
- ☒ Allow HTTPS traffic

⌵ [Management, security, disks, networking, sole tenancy](#)

The following options have been customized:

On host maintenance

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Google Cloud Platform

DS595-RL

Compute Engine

VM instances

Instance groups

Instance templates

Sole tenant nodes

Disks

Snapshots

Images

TPUs

CREATE INSTANCE

IMPORT VM

REFRESH

START

STOP

Filter VM instances

Columns

<input type="checkbox"/> Name ^	Zone	Recommendation	In use by	Internal IP	External IP	Connect
<input type="checkbox"/> <span>instance-1</span>	us-central1-a			10.128.0.4 (nic0)	35.238.98.193	SSH <div><div>Start</div><div>Stop</div><div>Reset</div><div>Delete</div><div>View network details</div><div>View logs</div></div>

Filter VM instances

Columns

<input type="checkbox"/> Name ^	Zone	Recommendation	In use by	Internal IP	External IP	Connect
<input type="checkbox"/> <span>instance-1</span>	us-central1-a			10.128.0.4 (nic0)	35.238.98.193	SSH <div><div>Open in browser window</div><div>Open in browser window on custom port</div><div>Open in browser window using provided private SSH key</div><div>View gcloud command</div><div>Use another SSH client</div></div>