

How to use Google Platform?

Reference:

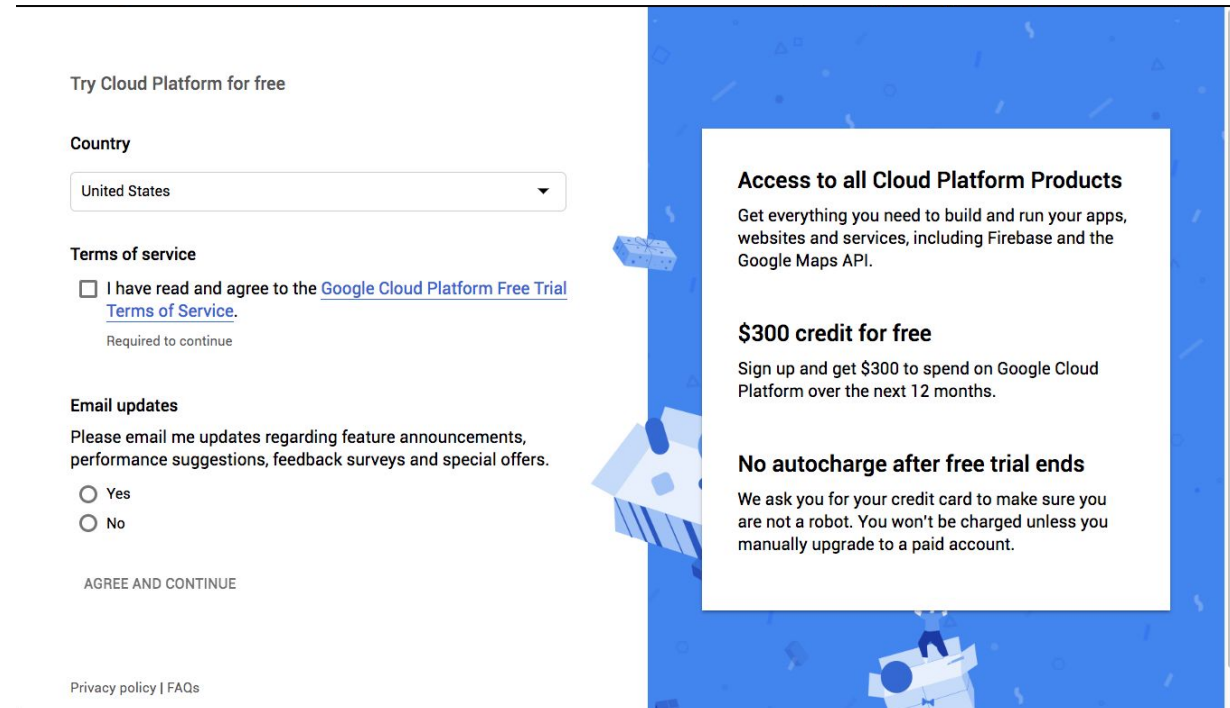
<https://towardsdatascience.com/running-jupyter-notebook-in-google-cloud-platform-in-15-min-61e16da34d52>

https://cloud.google.com/deep-learning-vm/docs/pytorch_start_instance

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>

Google Cloud Platform DS595-RL

IAM & admin

Quotas [+ EDIT QUOTAS](#)

Quota type: All quotas Service: All services Metric: GPUs (all regions) Location: All locations Clear

| <input type="checkbox"/> Service | Location | Current Usage | 7 Day Peak Usage | Limit |
|---|----------|---------------|------------------|-------|
| <input checked="" type="checkbox"/> Compute Engine API GPUs (all regions) | Global | | — | 0 |

Quotas [+ EDIT QUOTAS](#)

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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

Step 3: Create instance

Name ?

instance-2

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-2 (2 vCPU, 7.5 GB memory)



vCPU

2

Memory

7.5 GB

CPU platform ?

Automatic

GPU type

NVIDIA Tesla K80

Number of GPUs

1



☐ Enable Virtual Workstation (NVIDIA GRID)

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

Compute Engine

VM instances

CREATE INSTANCE

IMPORT VM

REFRESH

START

STOP

Filter VM instances

Columns

| Name | Zone | Recommendation | In use by | Internal IP | External IP | Connect |
|-------------------------------------|---------------|----------------|-----------|-------------------|---------------|---------|
| <input type="checkbox"/> instance-1 | us-central1-a | | | 10.128.0.4 (nic0) | 35.238.98.193 | SSH |

Start

Stop

Reset

Delete

View network details

View logs

Filter VM instances

Columns

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|--|---------------|----------------|-----------|-------------------|---------------|---------|
| <input checked="" type="checkbox"/> instance-1 | us-central1-a | | | 10.128.0.4 (nic0) | 35.238.98.193 | SSH |

Open in browser window

Open in browser window on custom port

Open in browser window using provided private SSH key

View gcloud command

Use another SSH client