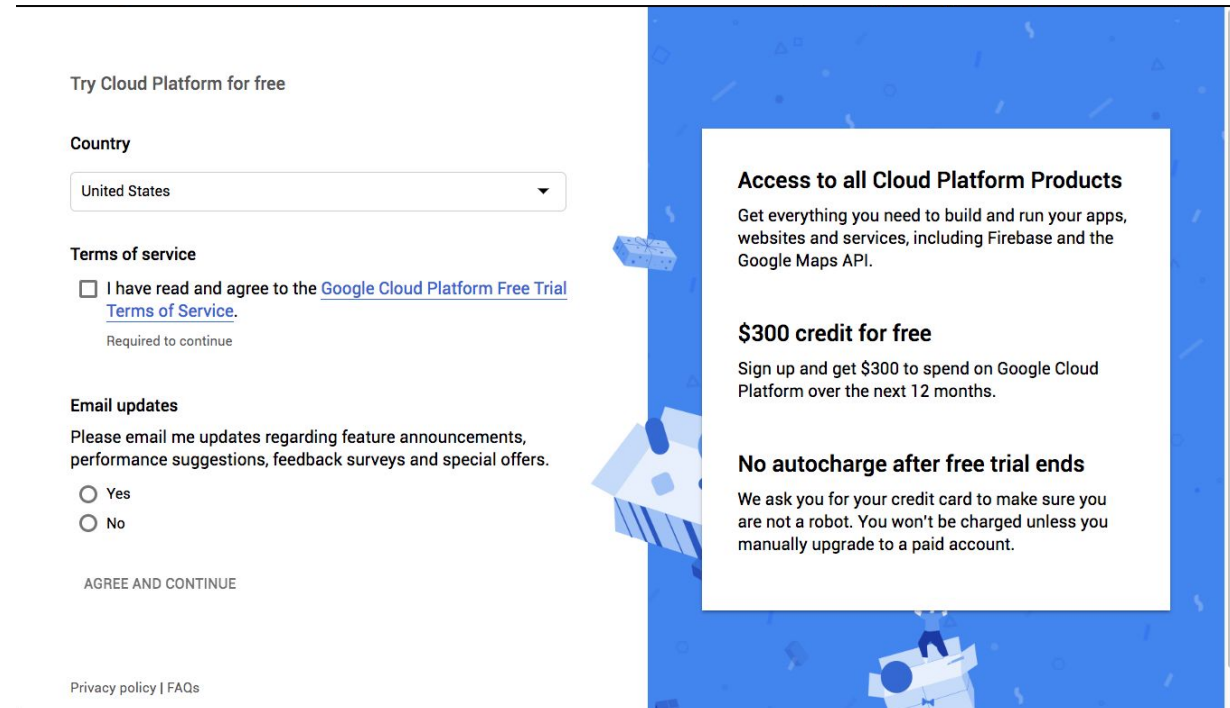# How to use Google Platform?

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/

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

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	Memory
	2	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   ⏻ �| 🗑 |

- 📄 VM instances
- 🔗 Instance groups
- 🗐 Instance templates
- 🗄 Sole tenant nodes
- 🖥 Disks
- 🗄 Snapshots
- 🖼 Images
- 🖧 TPUs

☐	Name ∧	Zone	Recommendation	In use by	Internal IP	External IP	Connect	
☐ ✅	instance-1	us-central1-a			10.128.0.4 (nic0)	35.238.98.193 ↗	SSH ▾	⋮

Start
Stop
Reset
Delete

View network details
View logs

☐	Name ∧	Zone	Recommendation	In use by	Internal IP	External IP	Connect	
☐ ✅	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