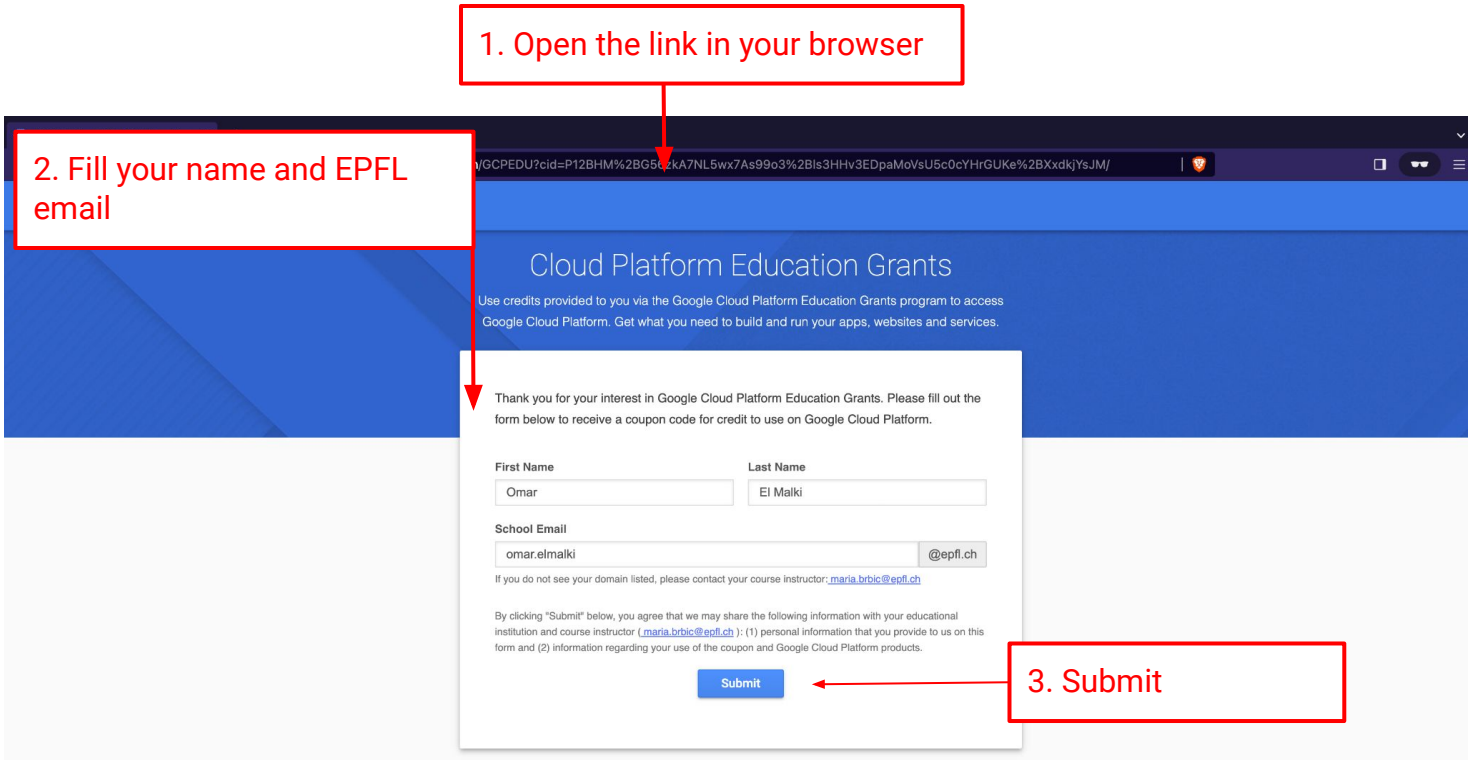
Guideline for redeeming Google Cloud Platform credits
CS-502

Omar El Malki (CS-502 teaching team)
Inspired by a similar guideline by Silin Gao (CS-552 teaching team)

Redeeming the coupon (1)

CS-502 Student Coupon Retrieval Link:
https://gcp.secure.force.com/GCPEDU?cid=P12BHM%2BG56zkA7NL5wx7As99o3%2Bls3HHv3EDpaMoVsU5c0cYHrGUKe%2BXxdkjYsJM/



Redeeming the coupon (2)

1.Verify your EPFL email

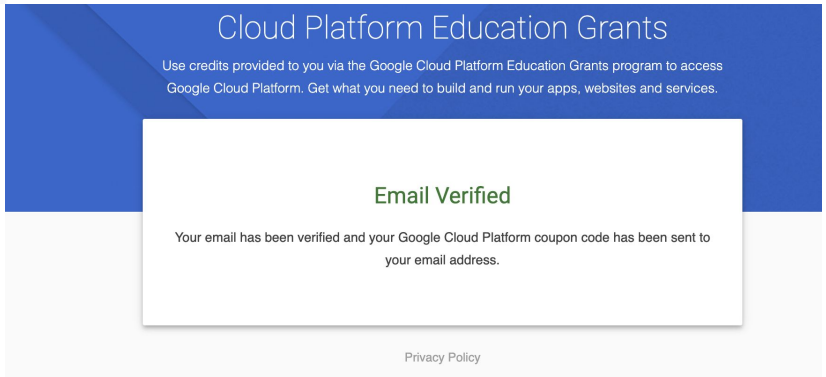
Dear Omar,

Thank you for your interest in downloading a Google Cloud coupon code. Please click on this link to verify your email address and a code will be sent to your email account.

Instructor Name: Maria Brbic
Email Address: maria.brbic@epfl.ch
School: Ecole polytechnique fédérale de Lausanne (EPFL)
Course/project: Deep Learning in Biomedicine

If you have any questions, please contact your course instructor as listed above.

Thanks,
Google Cloud Education Programs Team



2. **Click** on the redeem link but do not validate anything yet. Make sure to open it in your browser under your **personal Google account**

Dear Omar,

Here is your Google Cloud Coupon Code: [redacted]

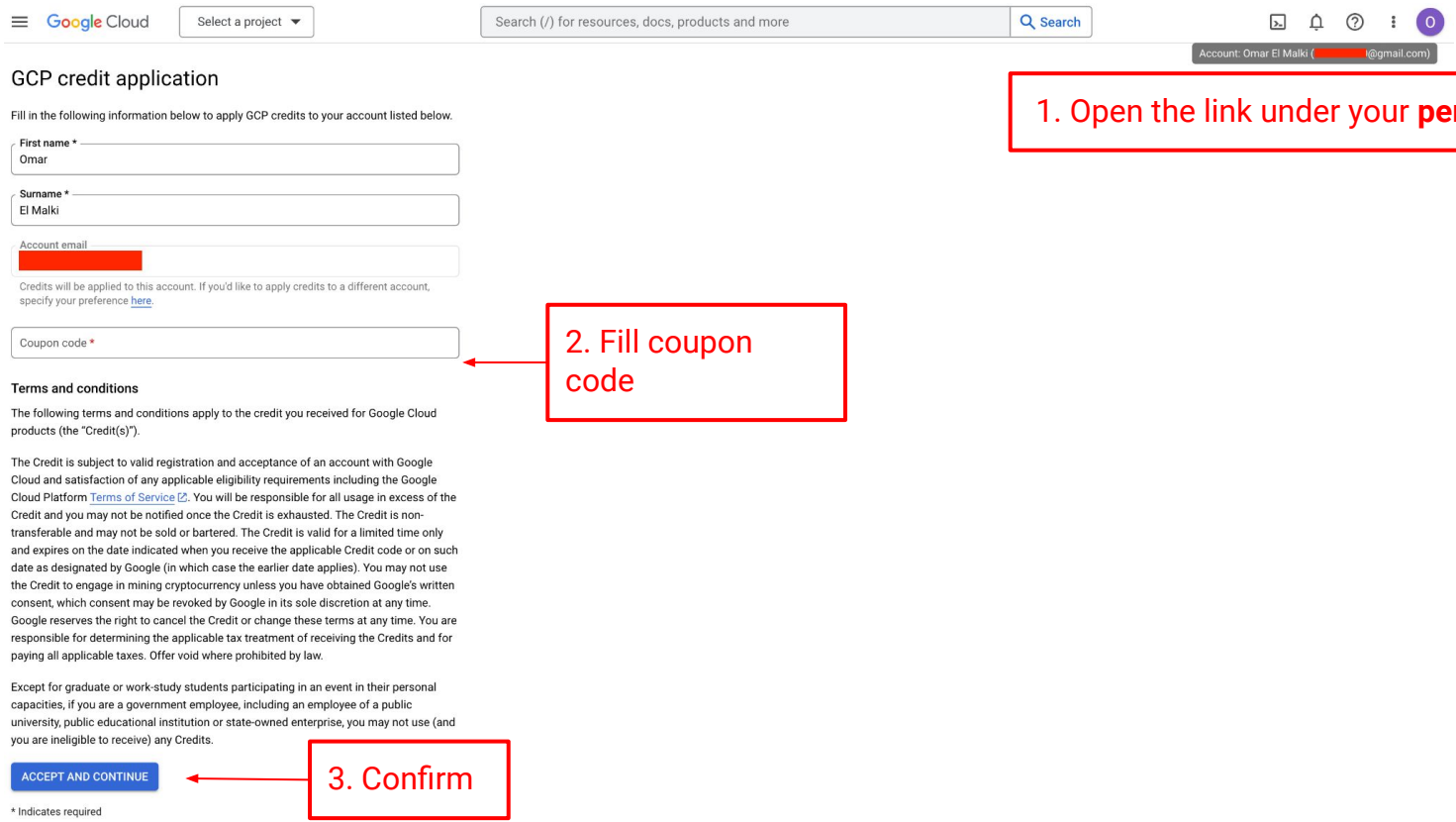
Click [here] to redeem.

Course/Project Information
Instructor Name: Maria Brbic
Email Address: maria.brbic@epfl.ch
School: Ecole polytechnique fédérale de Lausanne (EPFL)
Course/project: Deep Learning in Biomedicine
Activation Date: 9/27/2023
Redeem By: 1/27/2024
Coupon Valid Through: 9/27/2024

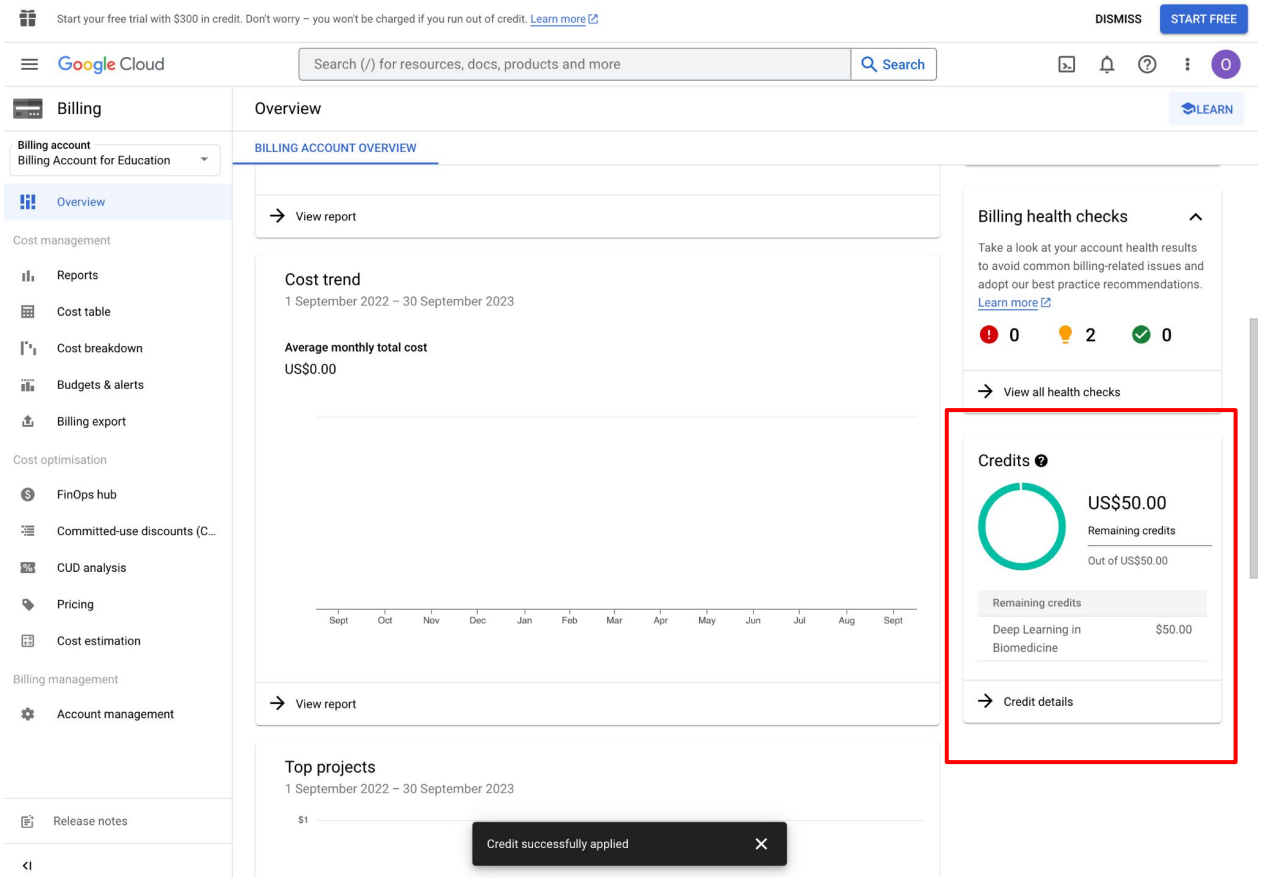
If you have any questions, please contact your course instructor as listed above.

Thanks,
Google Cloud Education Programs Team

Redeeming the coupon (3)



Redeeming the coupon (4)

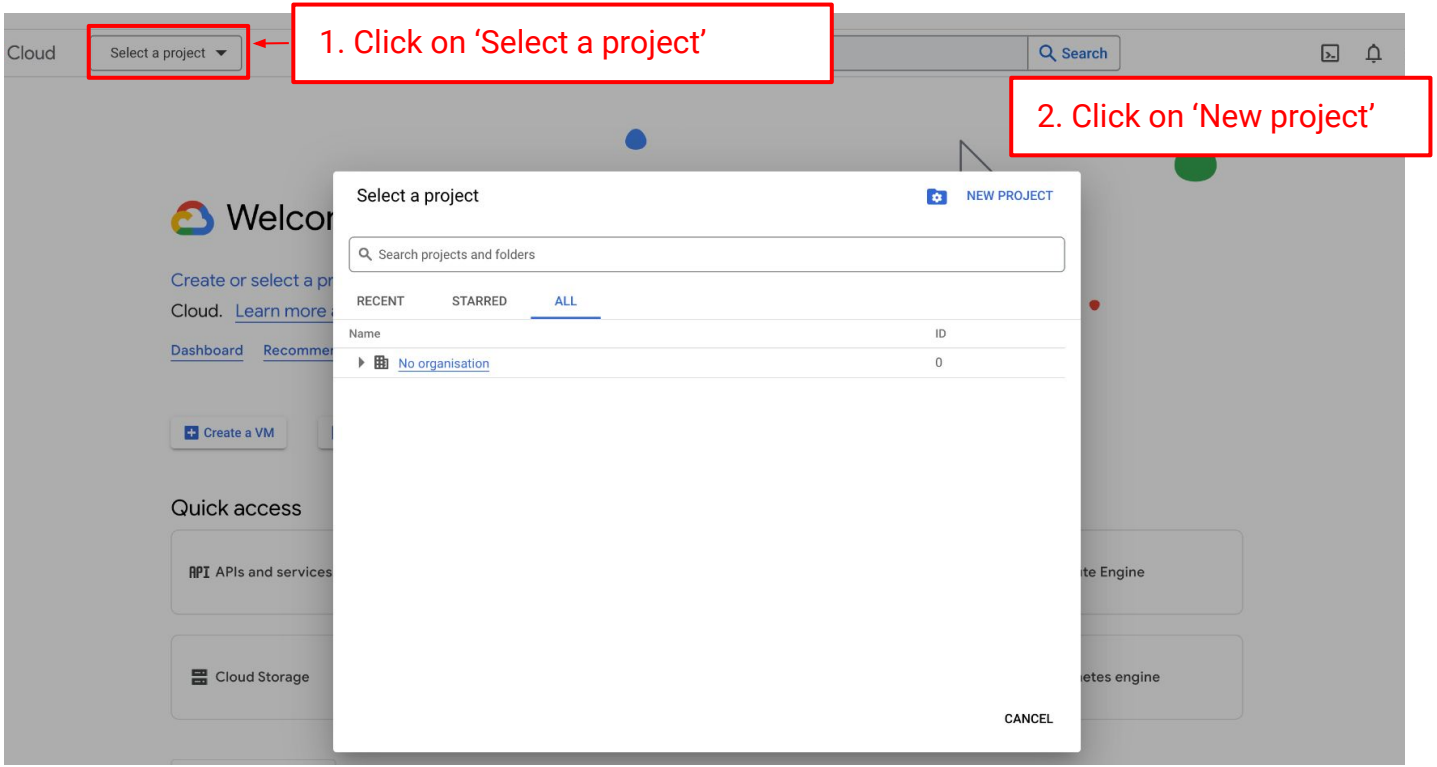


Enjoy your free credits on the Google Cloud Platform !

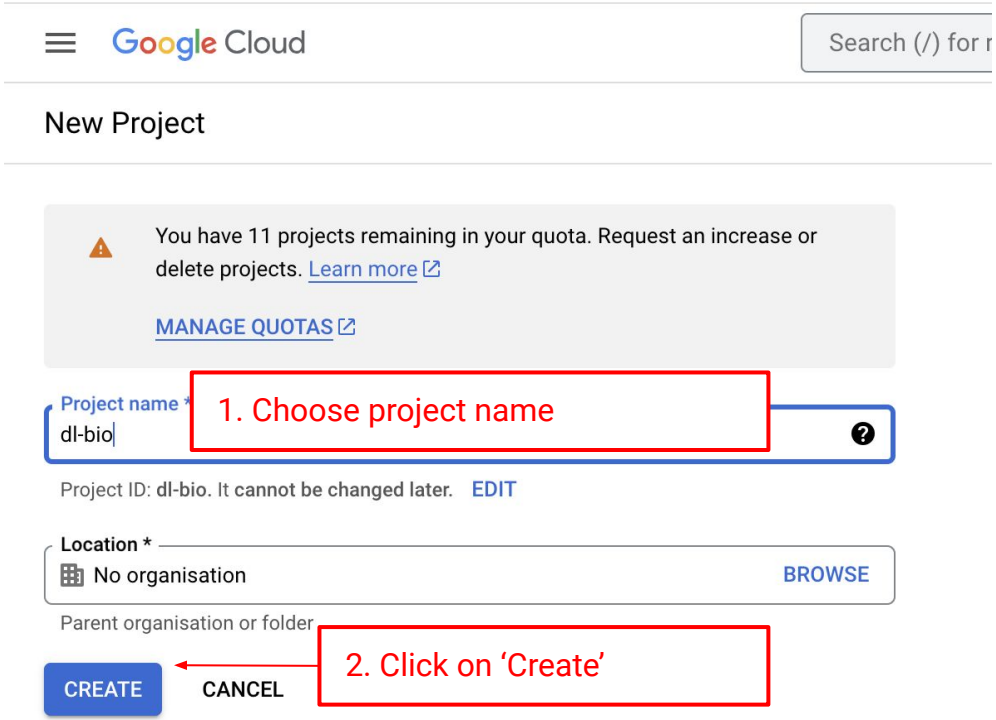
Getting started with Google Cloud Platform

Creating a new project (1)

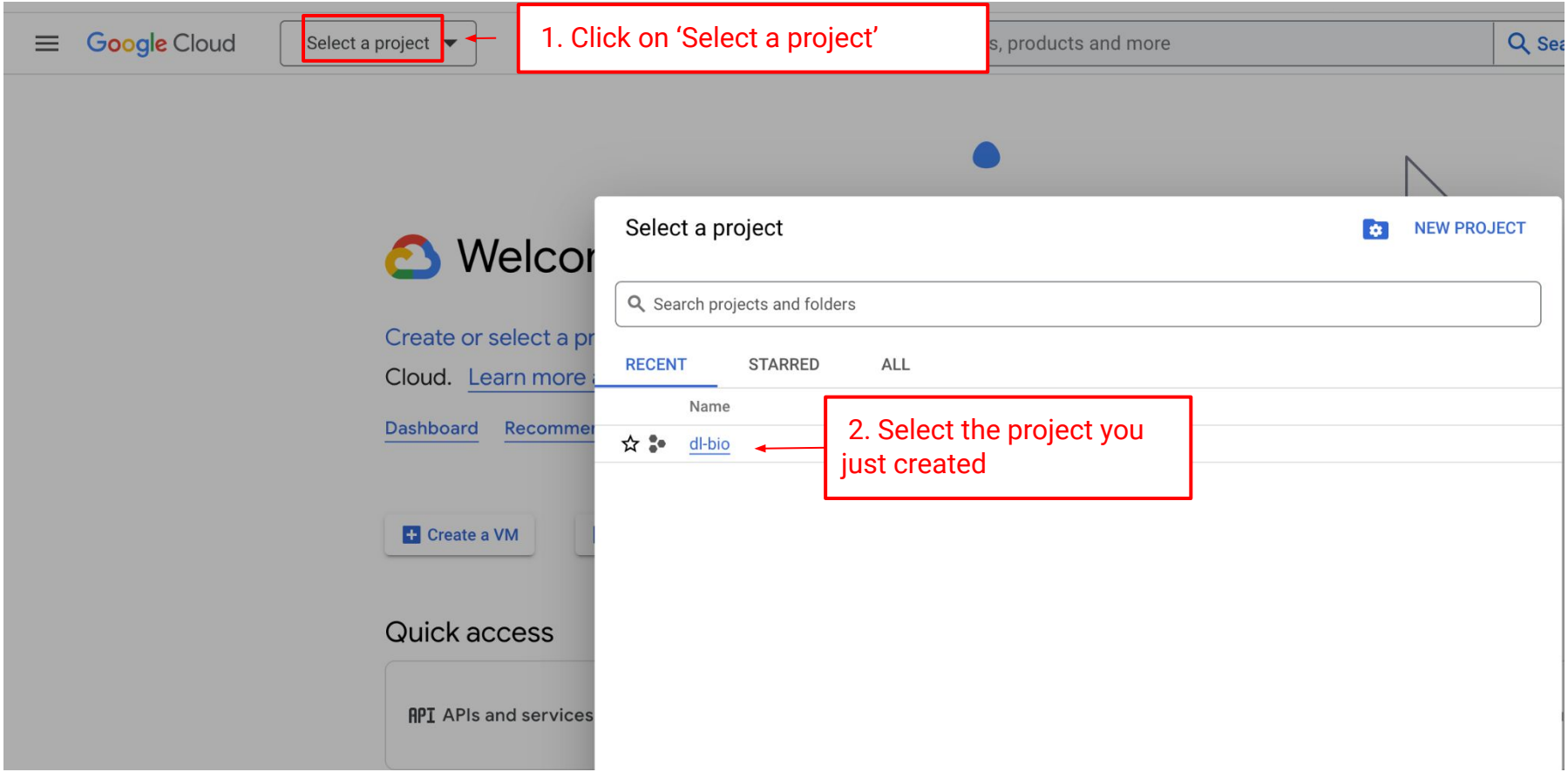
Access the console : https://console.cloud.google.com/



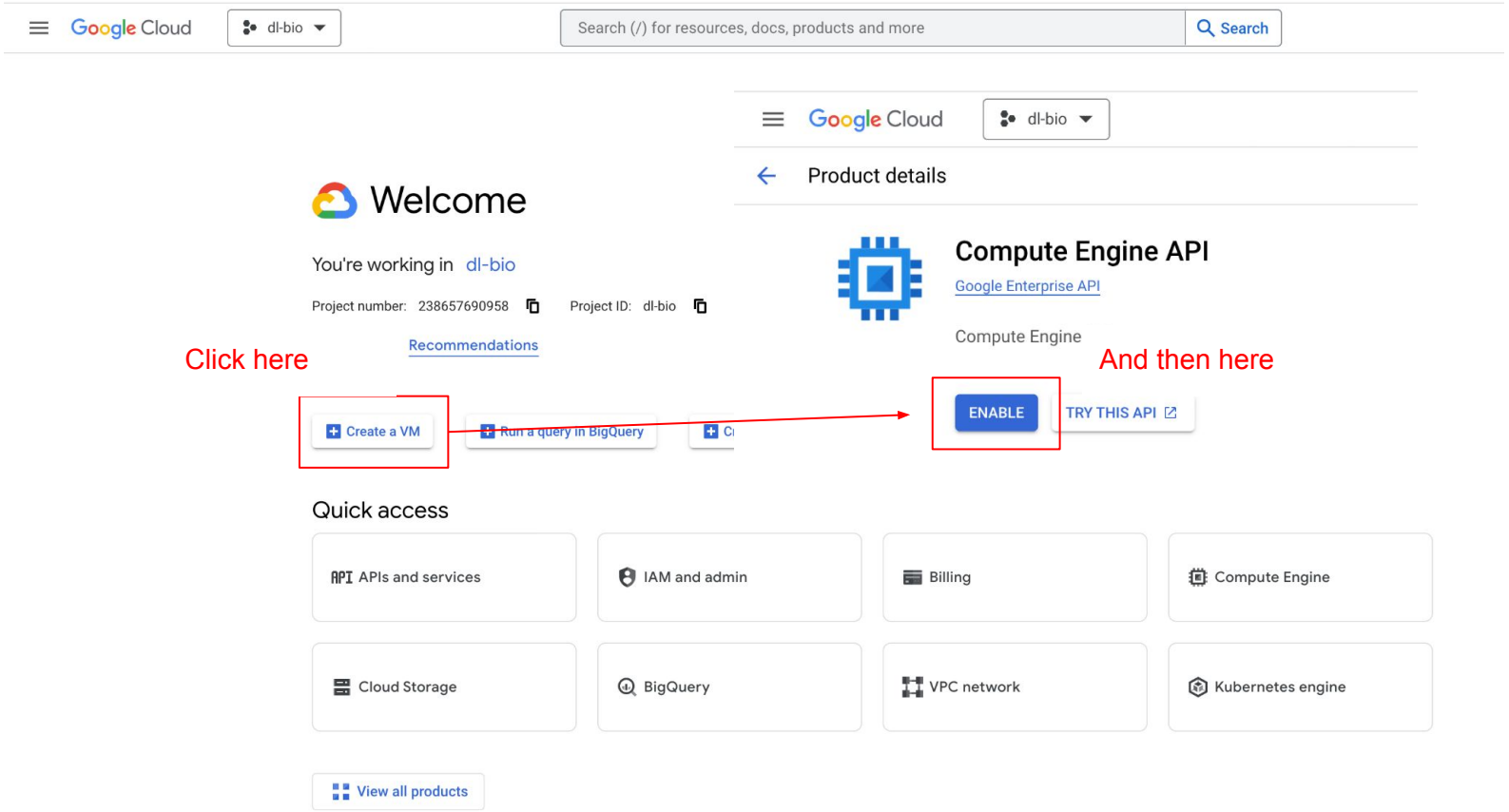
Creating a new project (2)



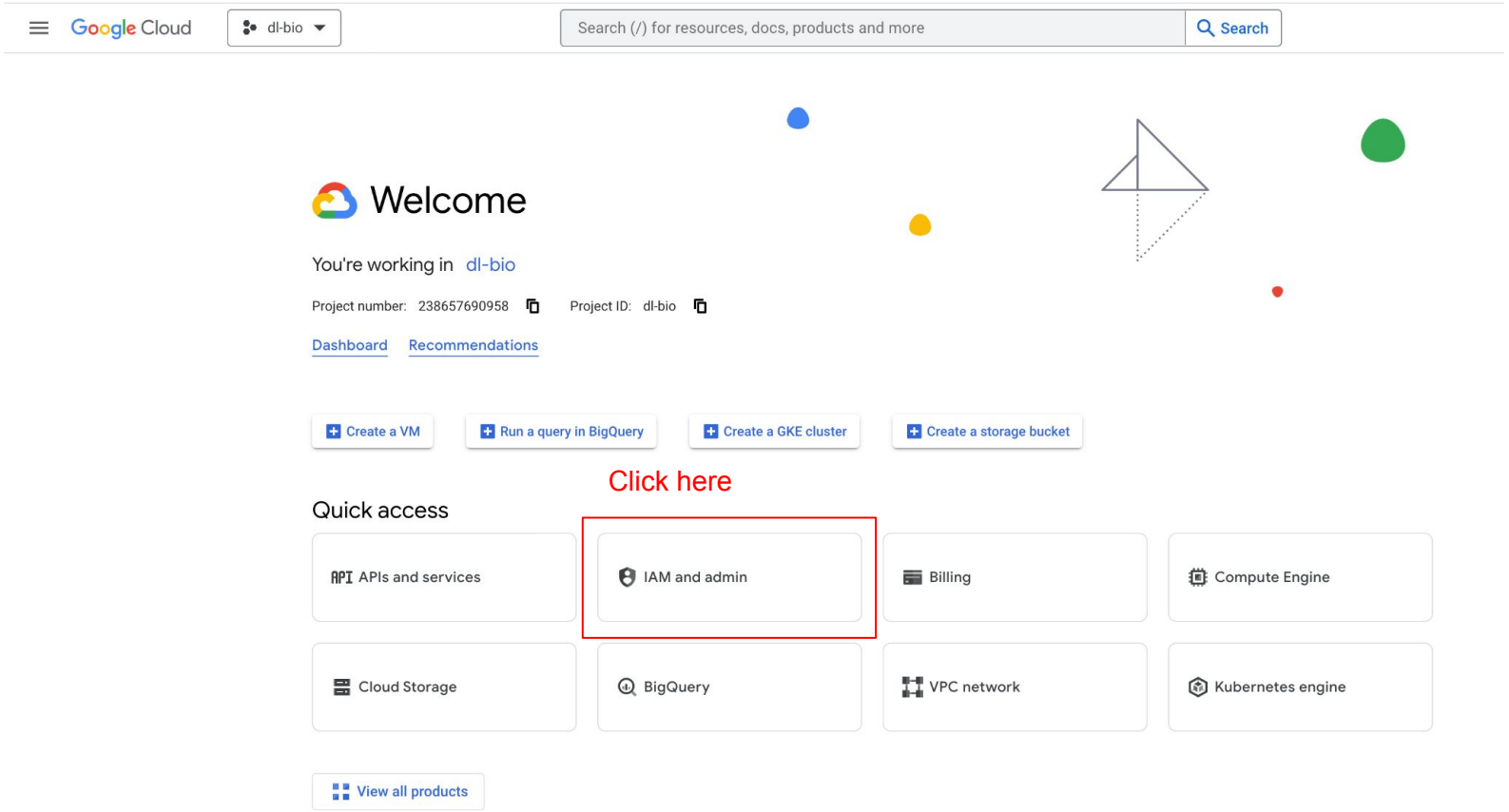
Creating a new project (3)



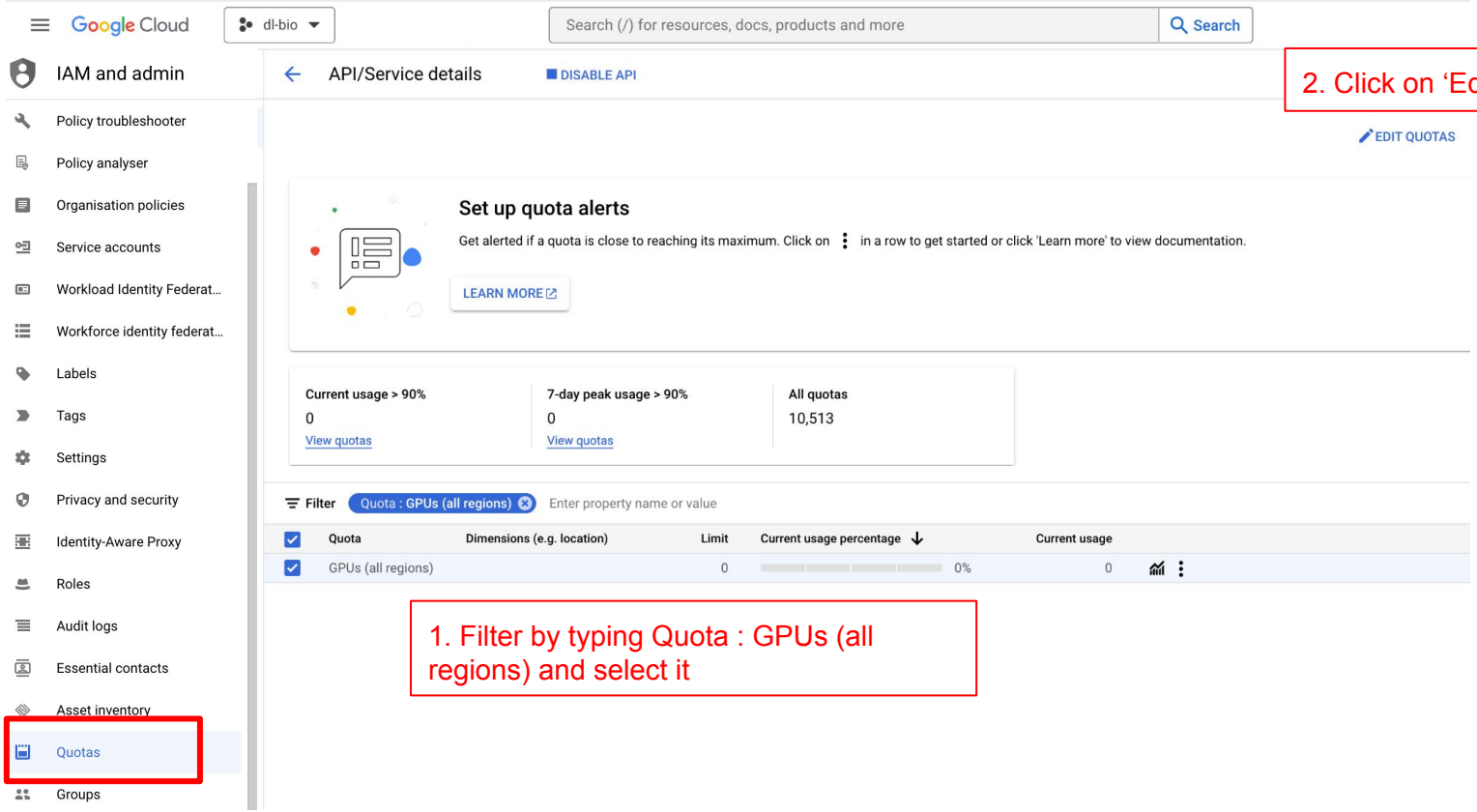
Enable GPUs (1)



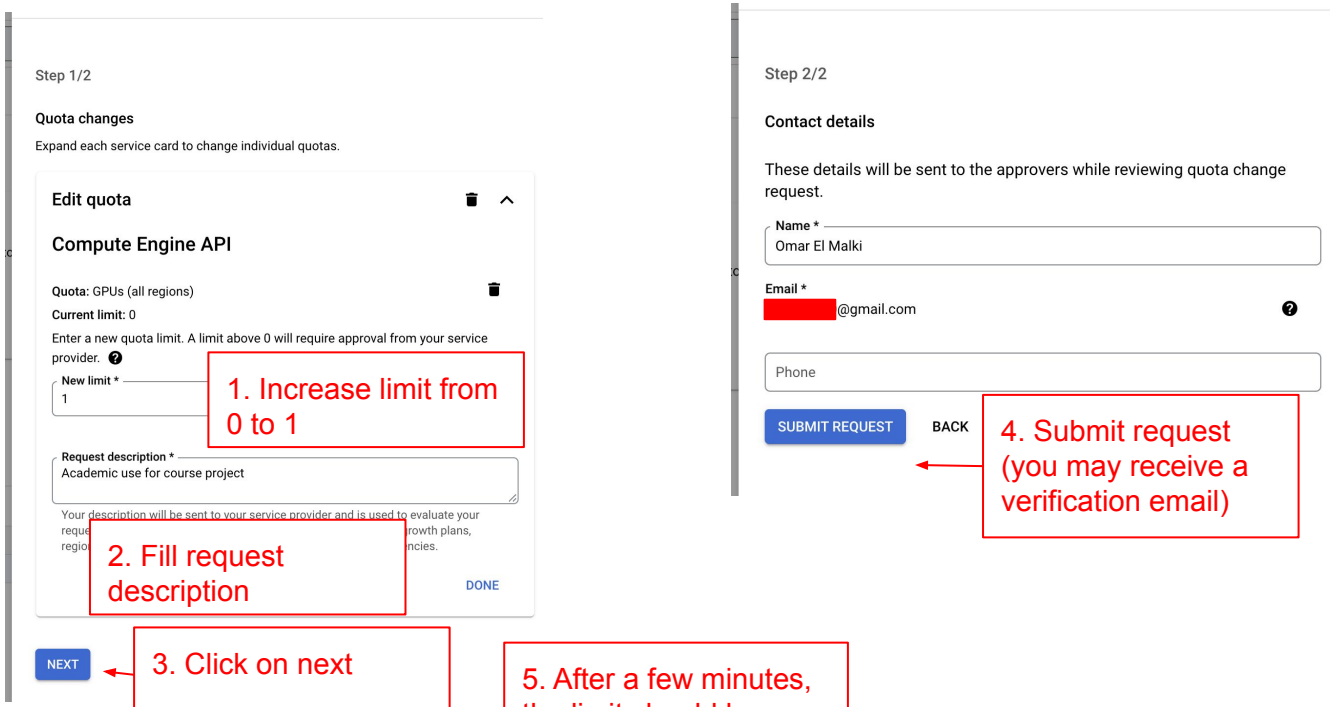
Enable GPUs (2)



Enable GPUs (3)



Enable GPUs (4)

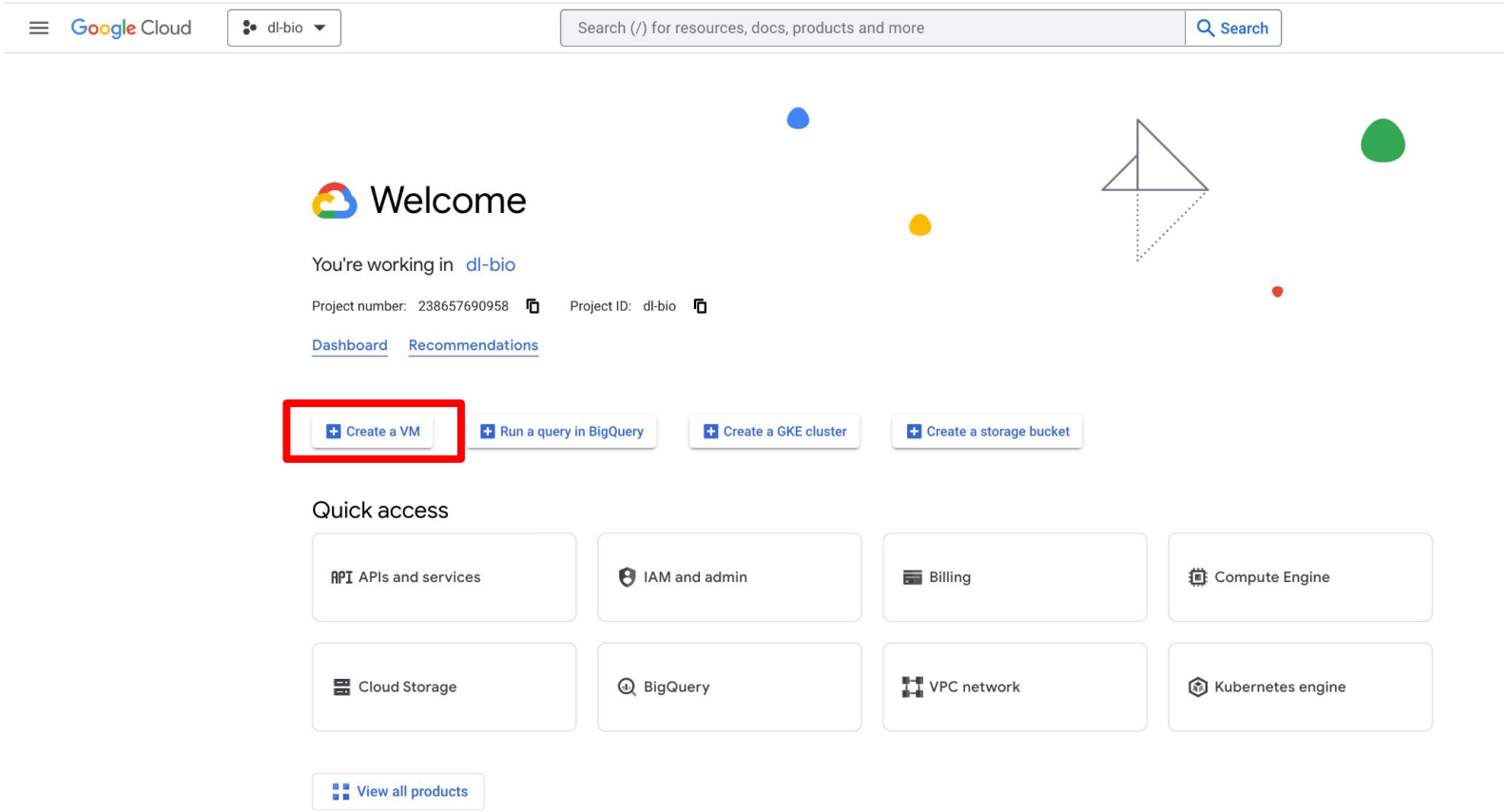


5. After a few minutes, the limit should have increased

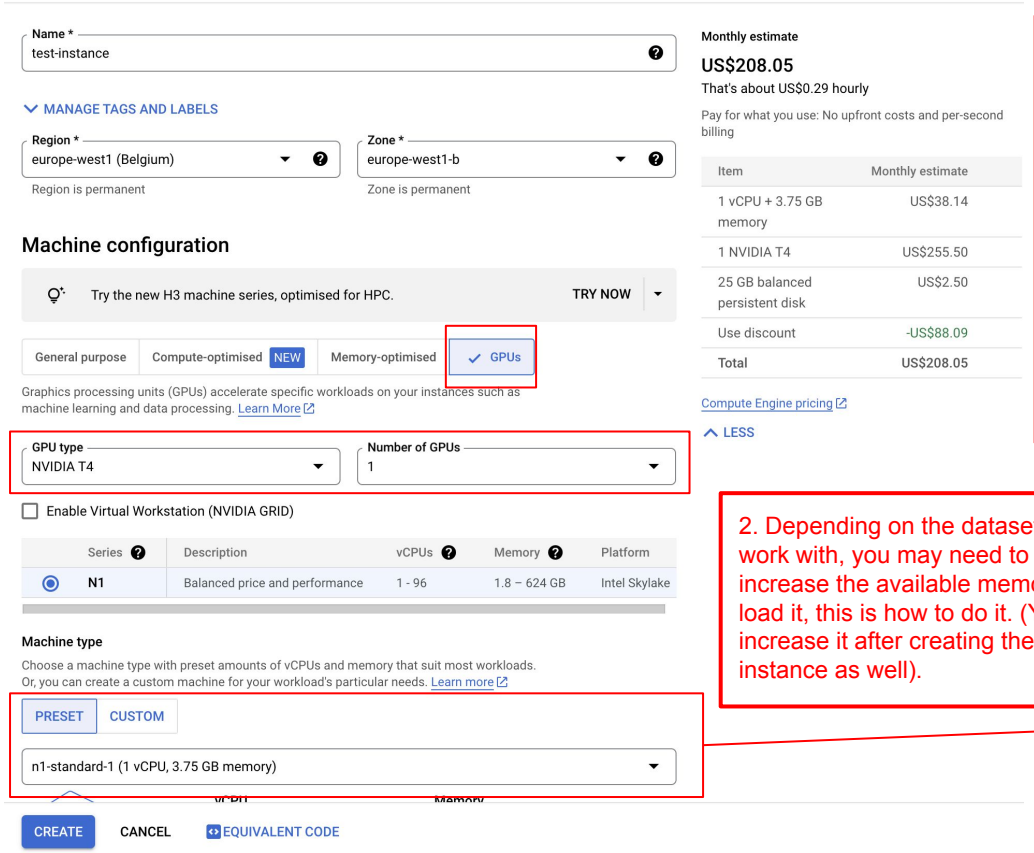
Filter | Quota : GPUs (all regions) | Enter property name or value

Service	Quota	Dimensions (e.g. location)	Limit	Current usage percentage	Current usage
Compute Engine API	GPUs (all regions)		1	0%	0

Create a Virtual Machine (VM) Instance (1)

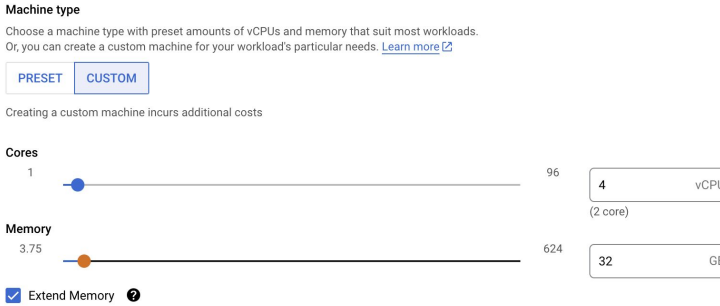


Create a VM instance (2)



1. This configuration should allow ~150 hours of GPU usage with your USD 50 credits.
You can use more powerful or a larger number of GPUs but it will reduce the usage time limit.
We do not provide extra credits.

2. Depending on the dataset you work with, you may need to increase the available memory to load it, this is how to do it. (You can increase it after creating the instance as well).



Create a VM instance (3)

Boot disk

Name	instance-2
Type	New balanced persistent disk
Size	10 GB
Licence type	Free
Image	Debian GNU/Linux 11 (bullseye)

The selected image requires that you install an NVIDIA CUDA stack manually. To skip manual setup, click 'Switch image' below to use a GPU-optimised Debian OS image with CUDA support at no additional cost.

SWITCH IMAGE

CHANGE

1. Feel free to change the boot disk options to your preferences, it should not make any difference

2. This is the recommended setup we used to prepare the project

Operating system
Ubuntu

Version *
Ubuntu 20.04 LTS

x86/64, amd64 focal image built on 2023-09-18

Boot disk type *
Balanced persistent disk

COMPARE DISK TYPES

The disk size can be increased later

Size (GB) *
25

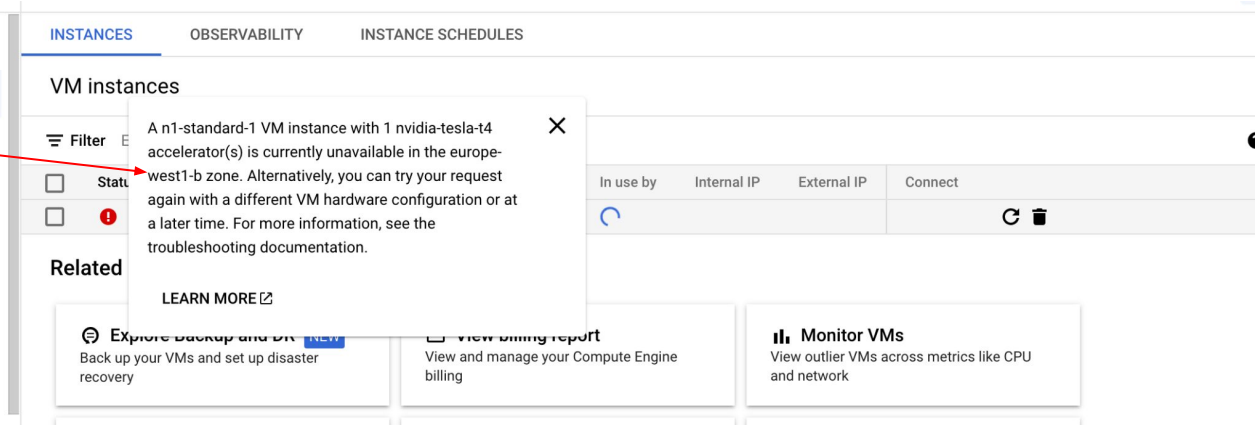
Provision between 10 and 65536 GB

SHOW ADVANCED CONFIGURATION

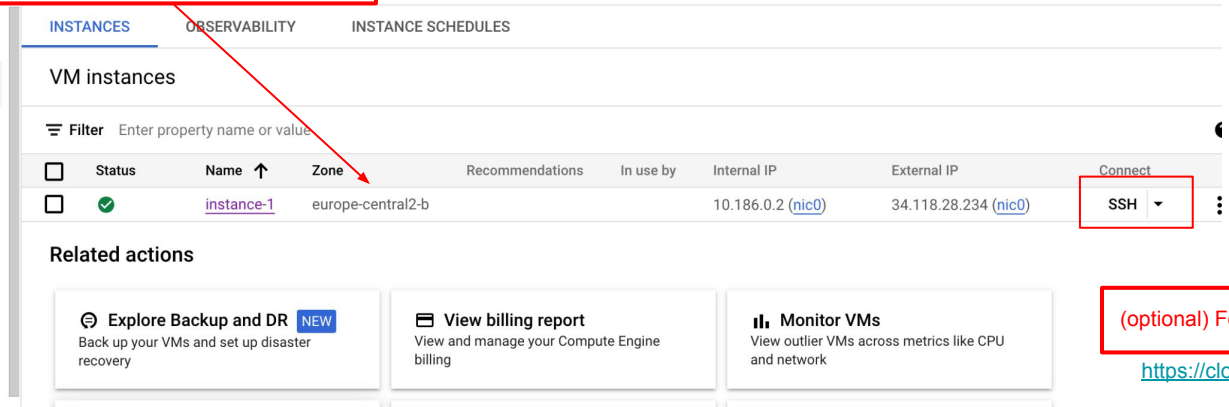
SELECT CANCEL

Create a VM instance (4)

1. Sometimes, there may not be a GPU available in your region



2. Feel free to create another one in another region until you can successfully create an instance

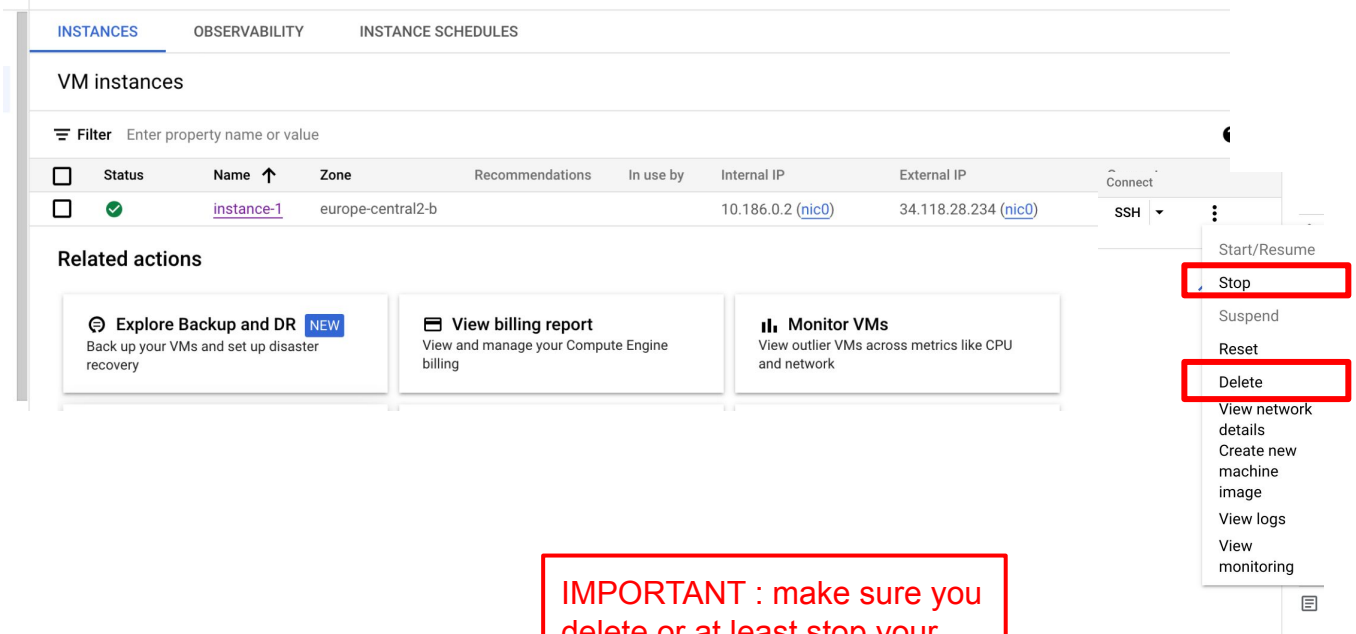


3. Connect to your instance using SSH directly on the console

(optional) Follow this link to setup ssh from your local terminal

https://cloud.google.com/compute/docs/connect/standard-ssh

Create a VM instance (5)



IMPORTANT : make sure you delete or at least stop your instance when you are not using it, to save your credits

Setting up NVIDIA drivers and using your instance

- If you already used NVIDIA GPUs on a unix machine, you should be able to set up your VM easily
- If not, you can follow these suggested steps to install CUDA on your VM :
  - https://docs.google.com/document/d/1V0yCTOin7JZadlxLMJ457mo7ihypHYT3U2IA83Ba5VY/edit

- More information here: https://cloud.google.com/compute/docs/gpus/install-drivers-gpu