ED 200: Google Cloud Linux Server (15 pts)

What you need

- Any computer with a Web browser.
- A credit card (you won't be charged any money)

Purpose

To deploy a Linux Server on the Google cloud.

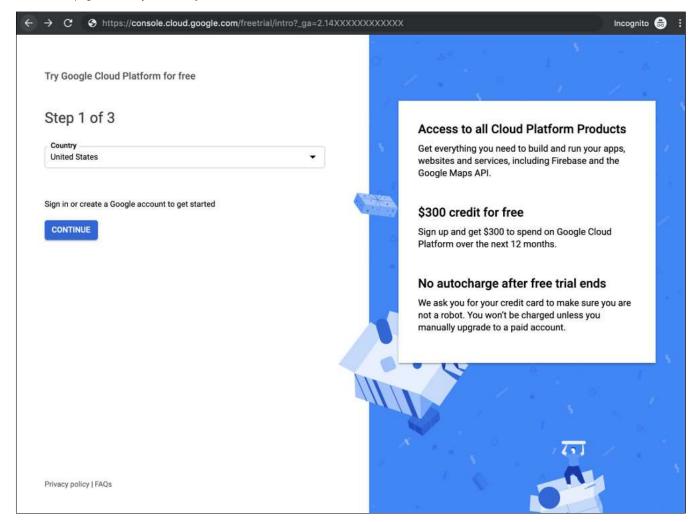
Creating an Account

Start at

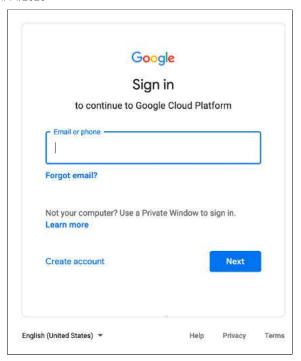
https://cloud.google.com/free/

Click "Get started for free"

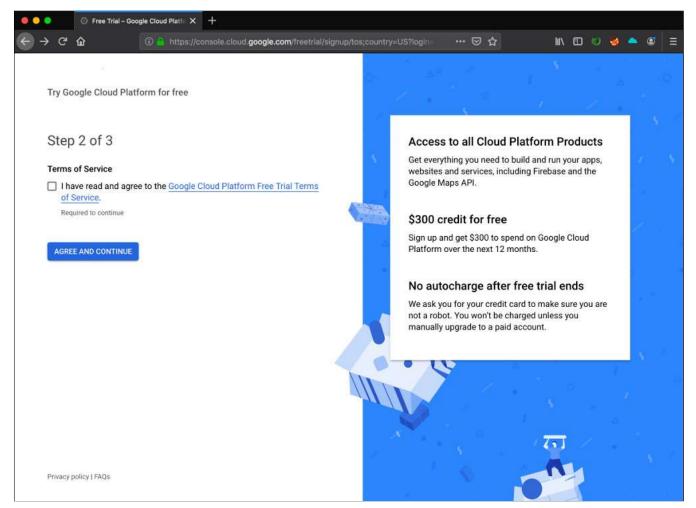
On the next page, choose your country and click continue.



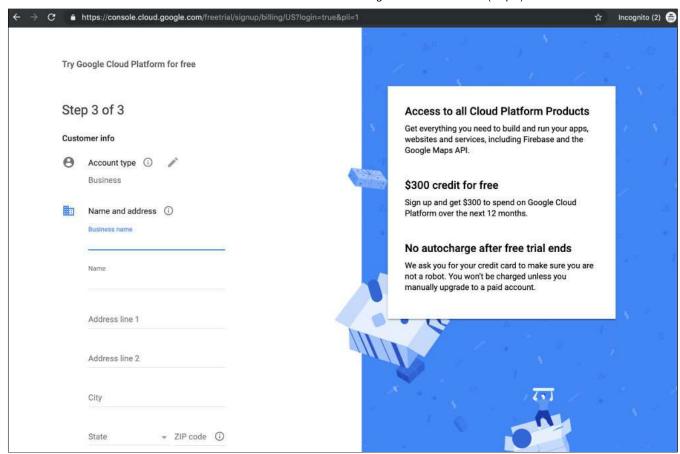
Sign in to a Google account (don't use a CCSF email account):



Agree to the Terms of Service.

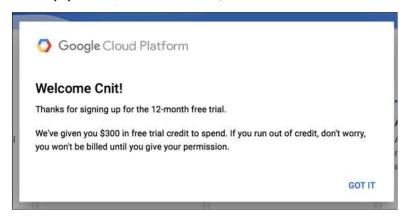


Fill in the next page. You must enter a credit card number, but it says you won't be charged without agreeing to that later.

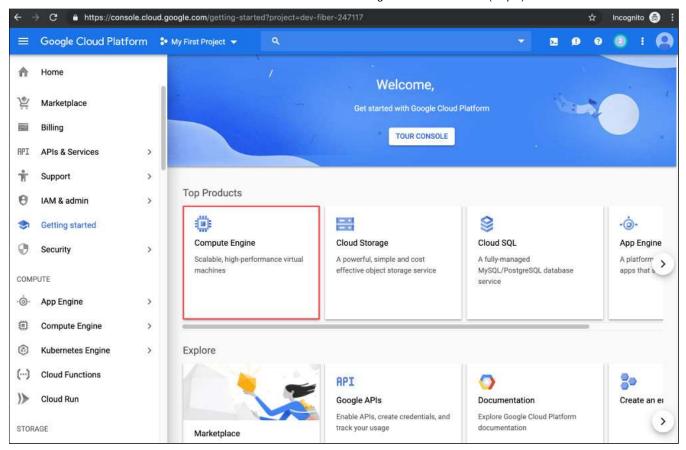


Click "START MY FREE TRIAL"

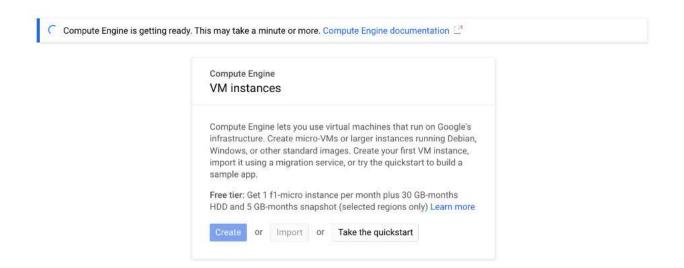
A box says you have \$300 in free trial credit, as shown below.



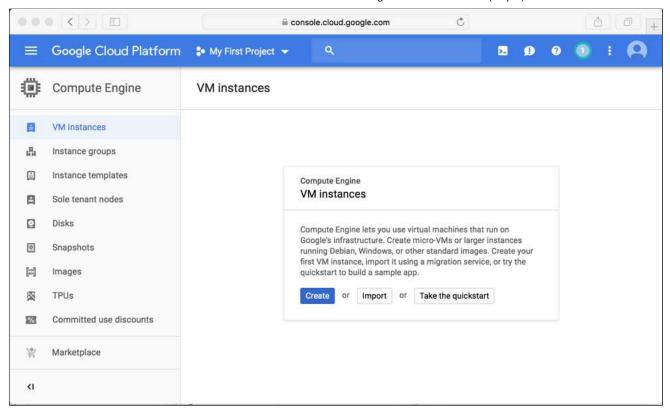
On the next page, click "Compute Engine".



Wait while it gets ready.



The "VM instances" page appears, as shown below. When it's ready, you see the screen shown below. Click Create.

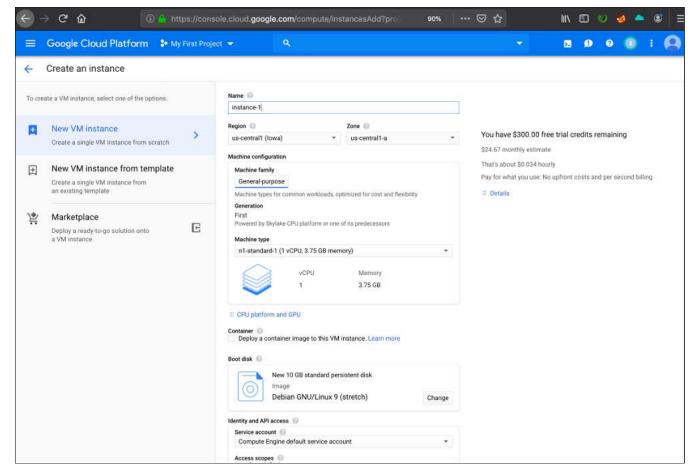


Creating a Debian Linux Server

The "Create an instance" page appears as shown below.

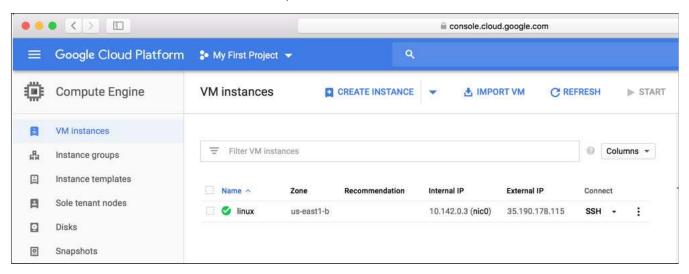
Give your instance an appropriate name, such as "linux".

In the "Create an instance" page, accept the default selections for the other options, as shown below.

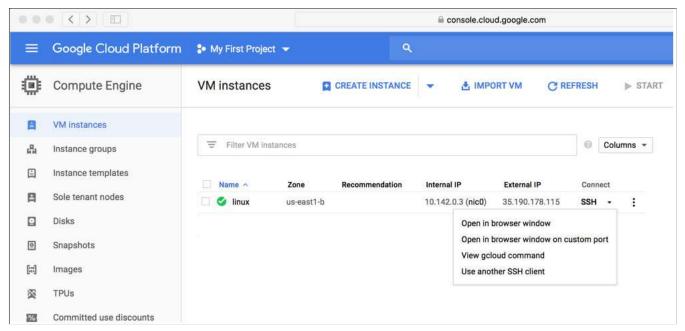


At the bottom of the page, click the Create button.

Your Linux machine is now included in the list of instances, as shown below.



In the "linux" line, in the "Connect" column, click the drop-down arrow. Click "Open in browser window", as shown below.



Your Linux server's console appears, as shown below.

ED 200.1: Model (15 pts)

In the console, execute these commands, as shown below.

```
sudo apt update
sudo apt install hwinfo -y
sudo hwinfo --disk
```

Find the Model name, which is covered by a green box in the image below. That's the flag.

```
cnit_123@linux2:~$ sudo apt install hwinfo -y
Reading package lists... Done
Building dependency tree
Reading state information... Done
hwinfo is already the newest version (21.38-1).
O upgraded, O newly installed, O to remove and 2 not upgraded.
 mit 123@linux2:~$ sudo hwinfo --disk
09: SCSI 01.0: 10600 Disk
  [Created at block.245]
  Unique ID: R7kM.empSTHgeyZC
  Parent ID: UH3v.4Ex5C38ZXm7
  SysFS ID: /class/block/sda
  SysFS BusID: 0:0:1:0
  SysFS Device Link: /devices/pci0000:00/0000:00:03.0/virtio0/host0/target0:0:1/0:0:1:0
  Hardware Class: disk
  Model:
  Vendor: "Google"
Device: "PersistentDisk"
  Revision: "1"
  Driver: "virtio_scsi", "sd"
Driver Modules: "virtio_scsi", "sd_mod"
  Device File: /dev/sda (/dev/sg0)
  Device Files: /dev/sda, /dev/disk/by-id/google-linux2, /dev/disk/by-id/scsi-0Google_PersistentDisk_linux2, /dev/
 disk/by-path/pci-0000:00:03.0-scsi-0:0:1:0
  Device Number: block 8:0-8:15 (char 21:0)
  BIOS id: 0x80
  Geometry (Logical): CHS 10240/64/32
Size: 20971520 sectors a 512 bytes
  Capacity: 10 GB (10737418240 bytes)
  Config Status: cfg=new, avail=yes, need=no, active=unknown
  Attached to: #8 (Unclassified device)
 nit 123@linux2:~$
```

Ported to new scoring engine 7-17-19 Note to avoid CCSF email account added 8-19-19