

# 1 Google Cloud and How to use it?

**Easy to set up. Easy to run. Security built in.**

Google cloud is one of the most advanced cloud resources in the market. Other big players are Amazon's AWS and Microsoft's Azure. In terms of structure, they are all the same!, the comfort? I like google better, Why? I dont know!

## 1.1 How?

These are the steps you need to take to set up your first compute node:

1. Got to Google Cloud page([cloud.google.com](https://cloud.google.com))
2. On the top-right of the page click on the Console menu.
3. If it's your first time using google cloud you need to add your credit card information in order to activate your \$300 credit.
4. After activating the credit you need to define a project.
5. Click on the menu on the top-left and select the Compute Engine.
6. Now you have to create an instance as following:
  - Click on the Create instance (Fig. 1).

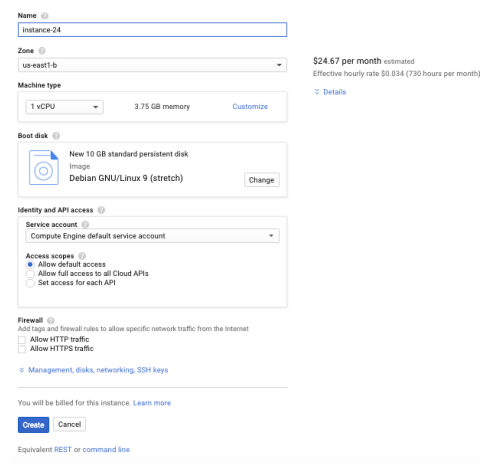


Figure 1: Initial page for creating an instance.

- Select a name for your instance, by default its something like instance-1.
- Select a zone. For our purposes it's okay to select any zone as long as it starts with us.
- Select 2 vCPU as machine type.
- As boot disk, click on the change, under custom images you should have alidirect under the drop-down menu. After selecting alidirect you should be able to see the uwmopenfoamimage-oct2017 image. (Fig. 2)
- Press Create.

Now you should see something similar to Fig. 3 under your VM menu.

All Done! Now you have a new virtual machine with the image that I specifically made for this workshop.

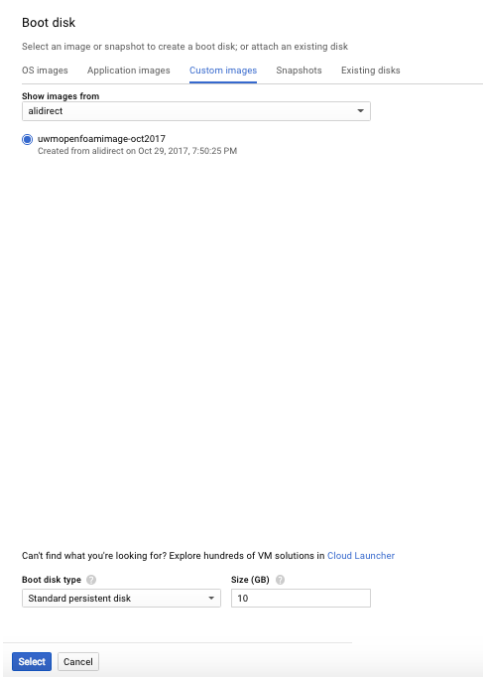


Figure 2: Select the image for the instance.



Figure 3: List of your virtual machines.