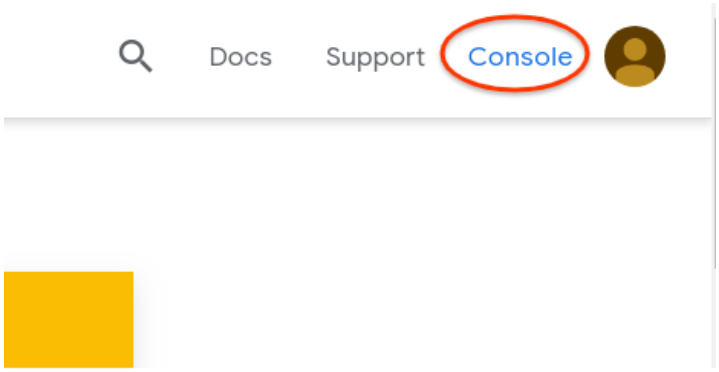
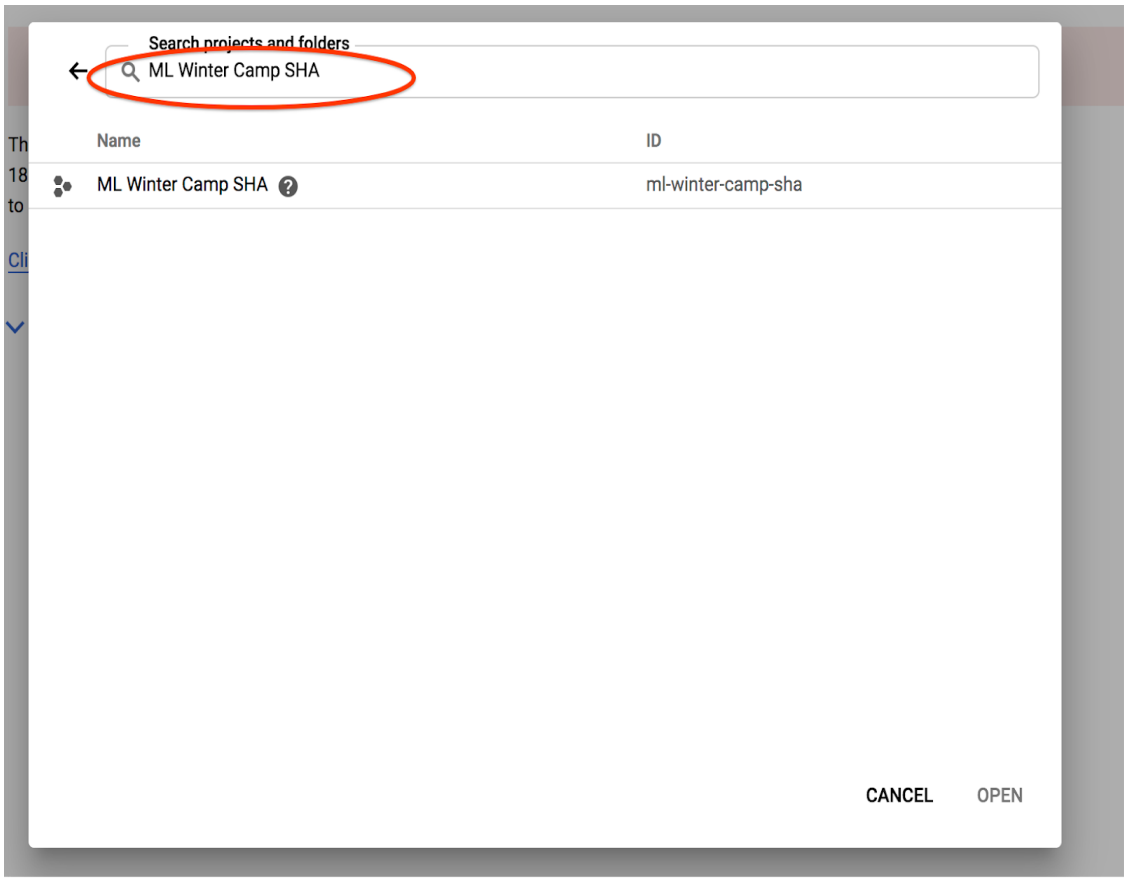
Connect to GCP instance

Step 1: Navigate to http://cloud.google.com. Click “Console” on the top right corner:

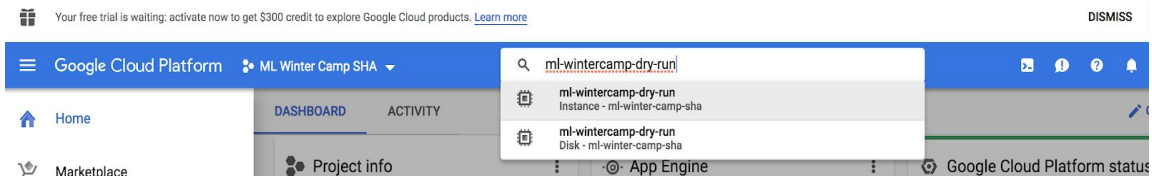


Step 2: Then on the top, click the project drop-down menu and select the “ML Winter Camp SHA” project. You may need to search for the project.

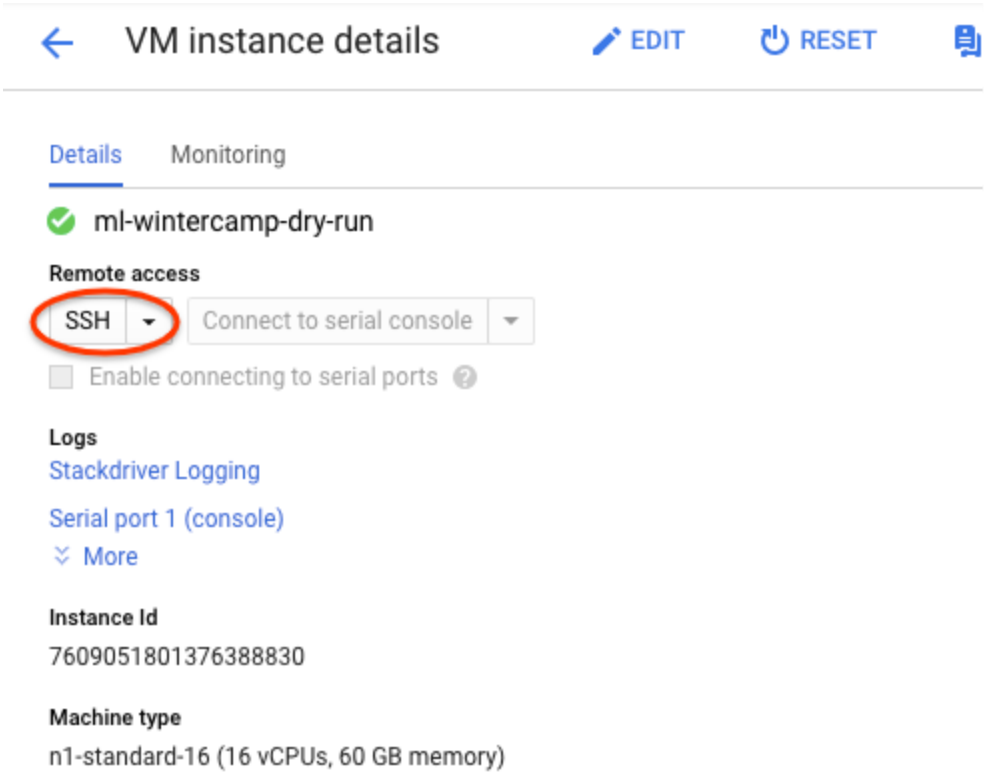
If no project shows up, search “ML Winter Camp SHA”



Step 3: You will see the instance that you have access to, which is named as `winter-camp-$LOCAL_PART_OF_YOUR_GMAIL`, for example john.craft@gmail.com has instance *`winter-camp-john-craft`*. (Select the instance, not the disk). Alternatively, you can navigate to all VM instances via navigation bar “Compute Engine / VM instance”.



Step 4: Click “SSH” to connect to the instance.



Conda environment

We have set up different python envionments in Conda for you. You may choose whichever environment you feel comfortable to use:

- **pytorchpy2** - PyTorch on top of Python 2.7
- **pytorchpy3** - PyTorch on top of Python 3.6
- **tfpy2** - Tensorflow on top of Python 2.7
- **tfpy3** - Tensorflow on top of Python 3.6

Type `conda info --envs`

```
# conda environments:
#
base                  *  /opt/anaconda/anaconda3
pytorchpy2               /opt/anaconda/anaconda3/envs/pytorchpy2
pytorchpy3               /opt/anaconda/anaconda3/envs/pytorchpy3
tfpy2                    /opt/anaconda/anaconda3/envs/tfpy2
tfpy3                    /opt/anaconda/anaconda3/envs/tfpy3
```

Type `conda activate tfpy3` to choose an environment (tfpy3 is an example here)

Type `conda deactivate` to return to base environment

Copy files from Cloud Storage to your VM instance example

gsutil (Recommended)

```
mkdir ~/winter-camp-data
gsutil -m cp gs://ml-winter-camp-data/ ~/winter-camp-data
```

FUSE

Alternatively, you can use gcsfuse to mount the cloud storage bucket into you VM instance.

```
mkdir ~/winter-camp-data
gcsfuse ml-winter-camp-data ~/winter-camp-data
```

Start a demo server

Use port 80 for your HTTP/HTTPS server. Otherwise your will be blocked by firewall.
NOTE:
Your browser may automatically resolve your machine address in HTTPS. Pay close attention to the protocol and change if necessary.

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