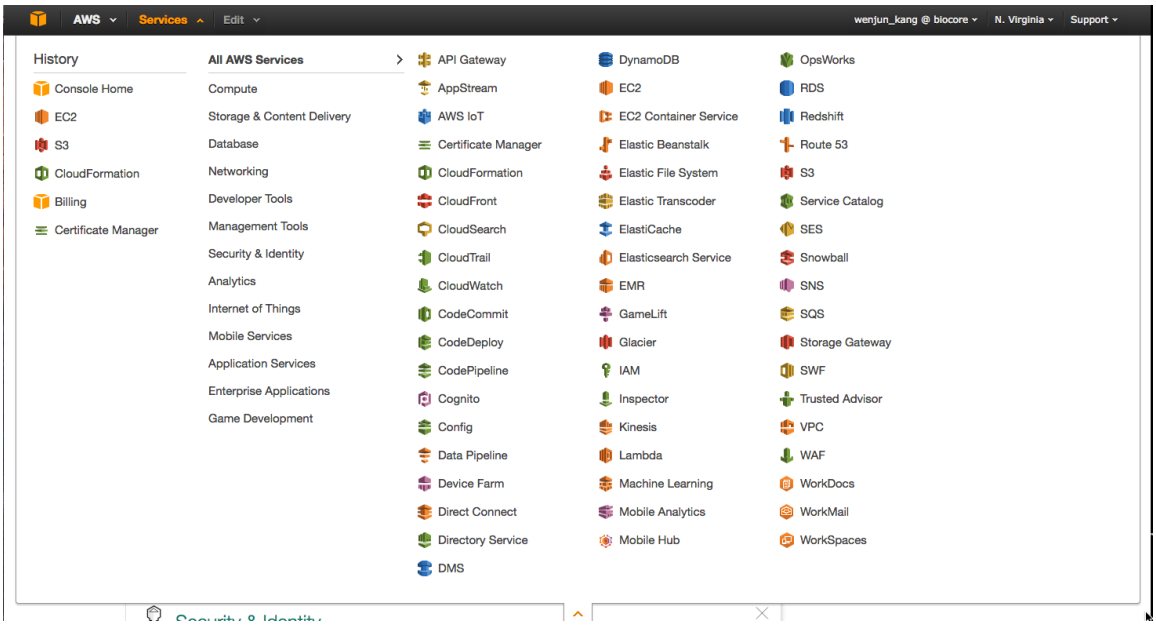
Launch Jupyter Notebook on Amazon Web Service (AWS) EC2 instance

What do you need?

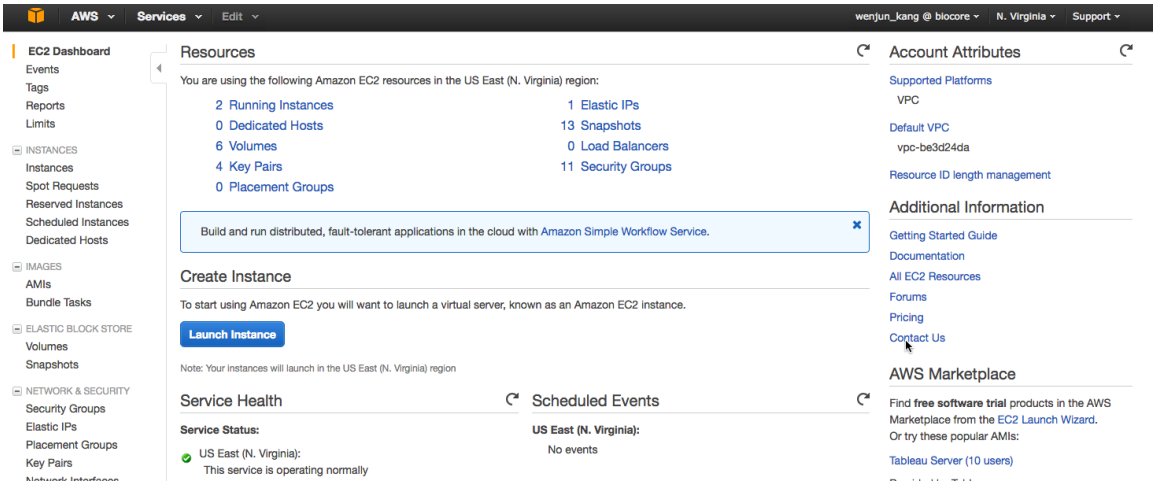
- An active AWS account

AWS Console and EC2 Instance Launch

- Login to your console by visiting https://console.aws.amazon.com
- Click EC2 under Services

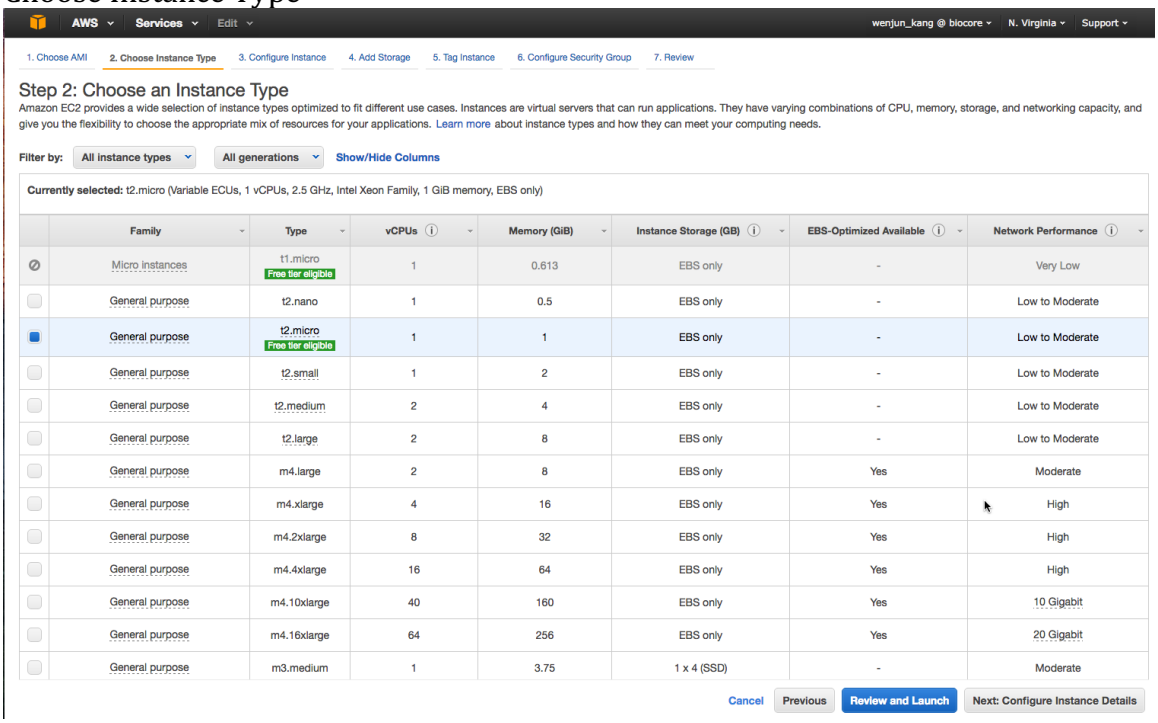


- Click “Launch Instance” Button

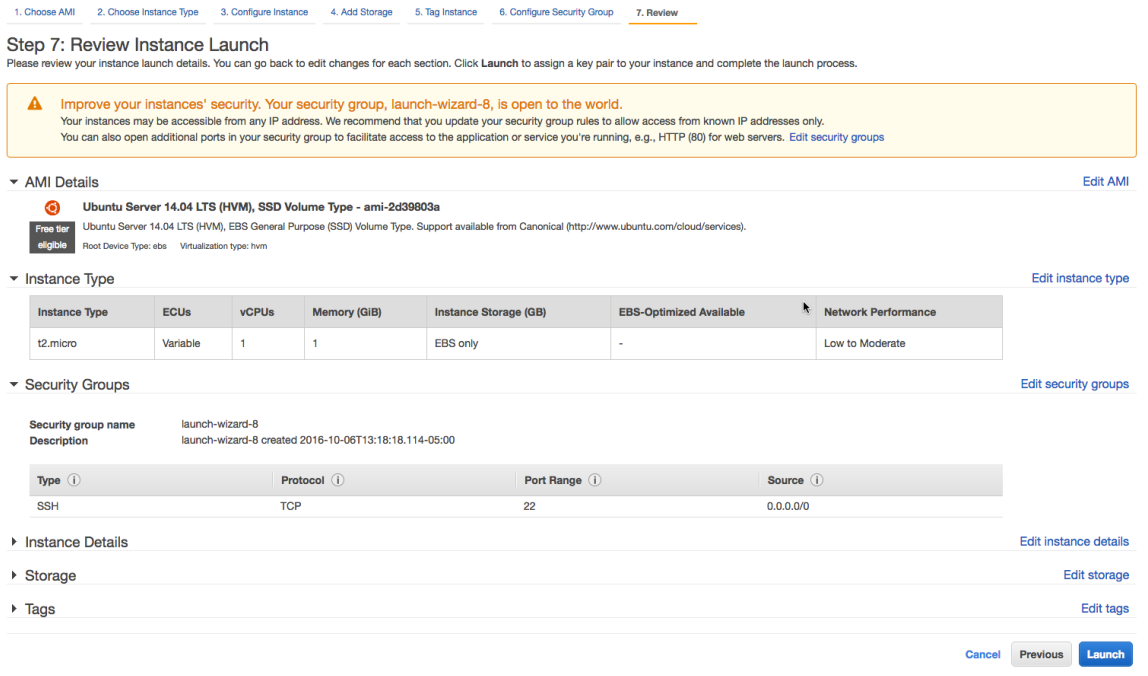


- Choose an Amazon Machine Image (AMI): Ubuntu Server

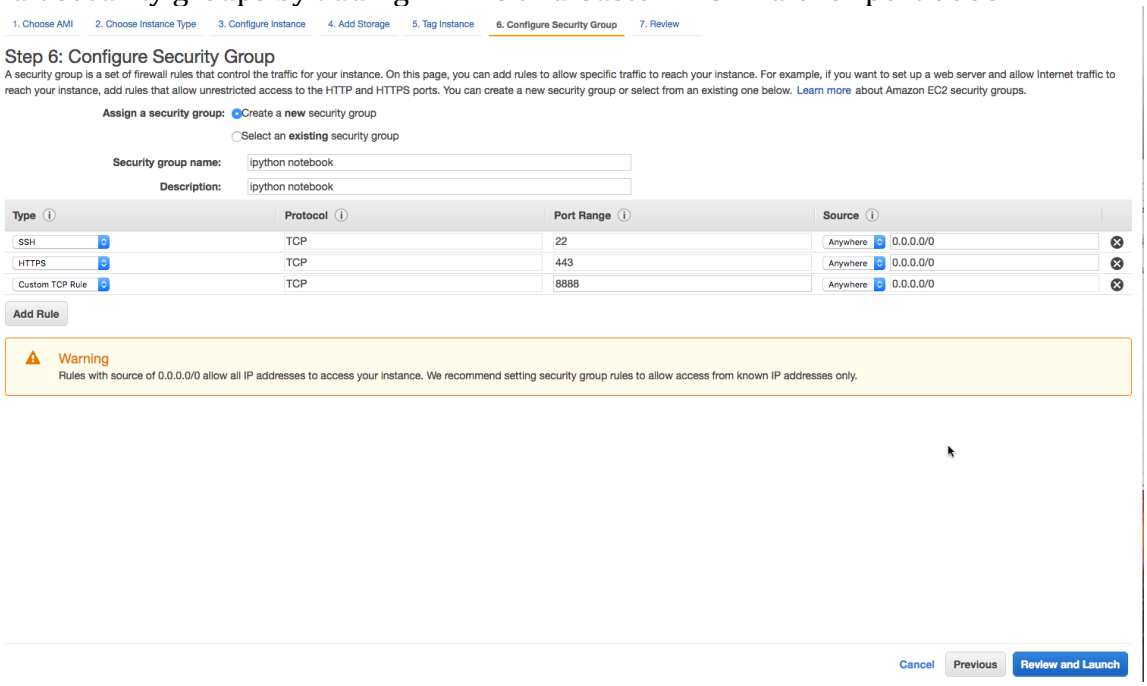
- Choose Instance Type



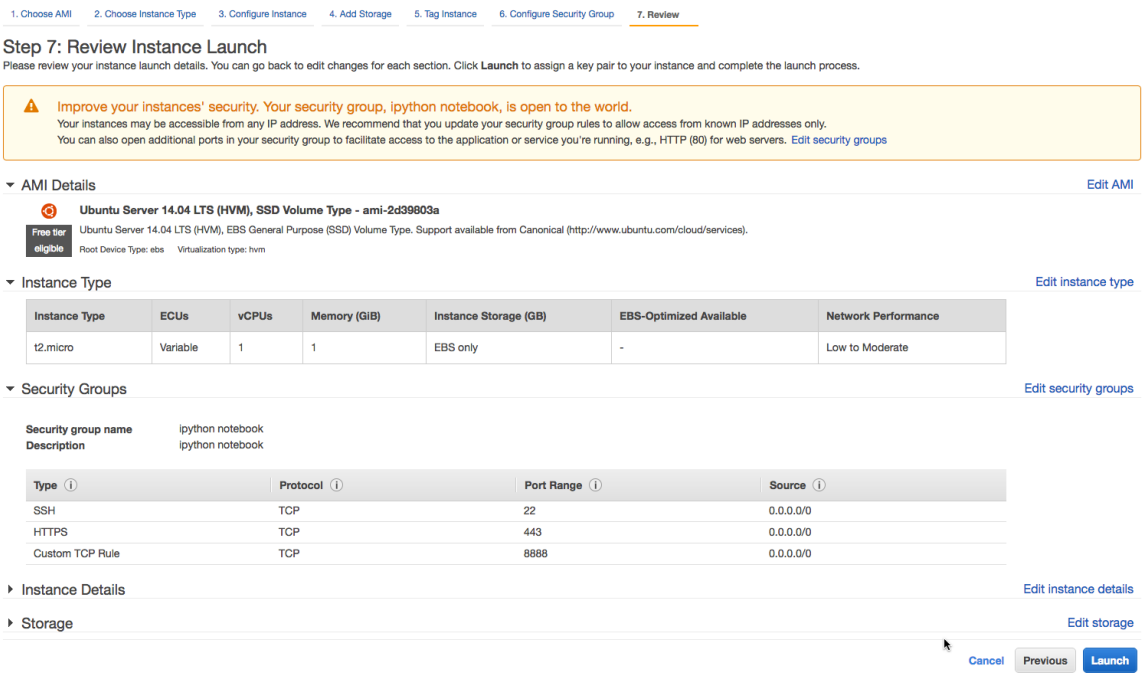
- Click “Review and Launch” Button



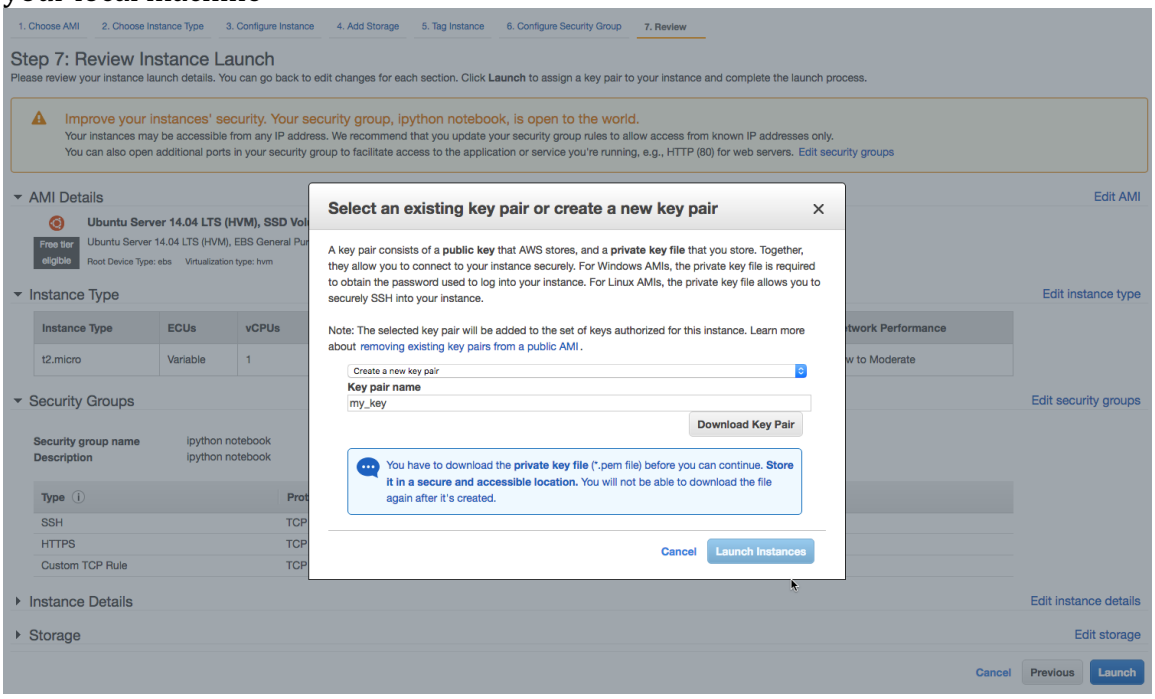
- Edit security groups by adding HTTPS and Custom TCP Rule for port 8888



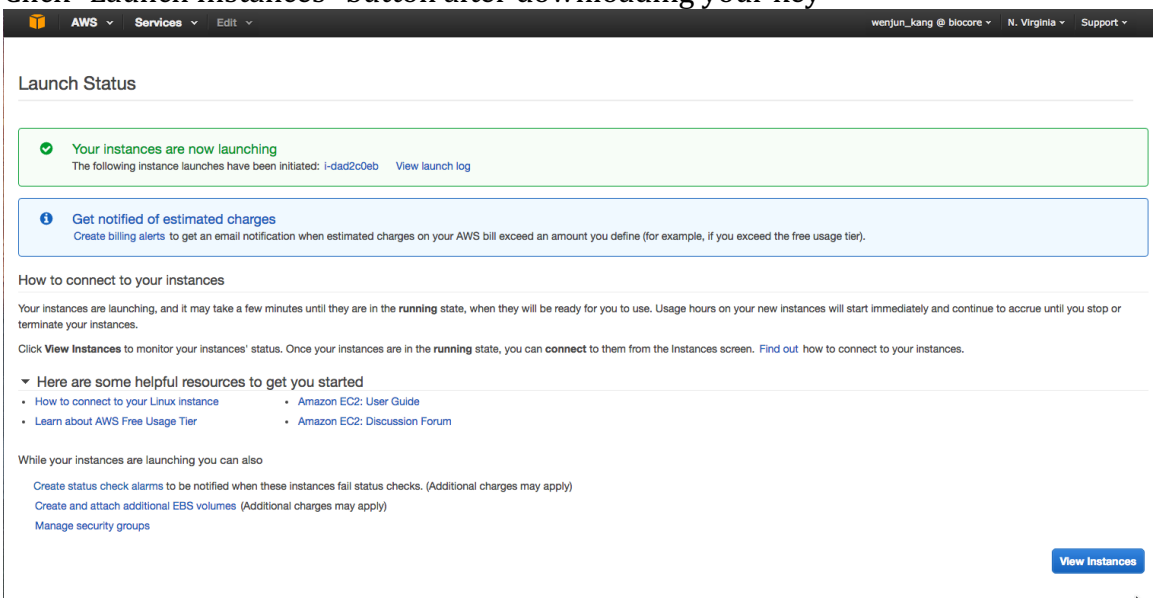
- Click “Review and Launch” Button



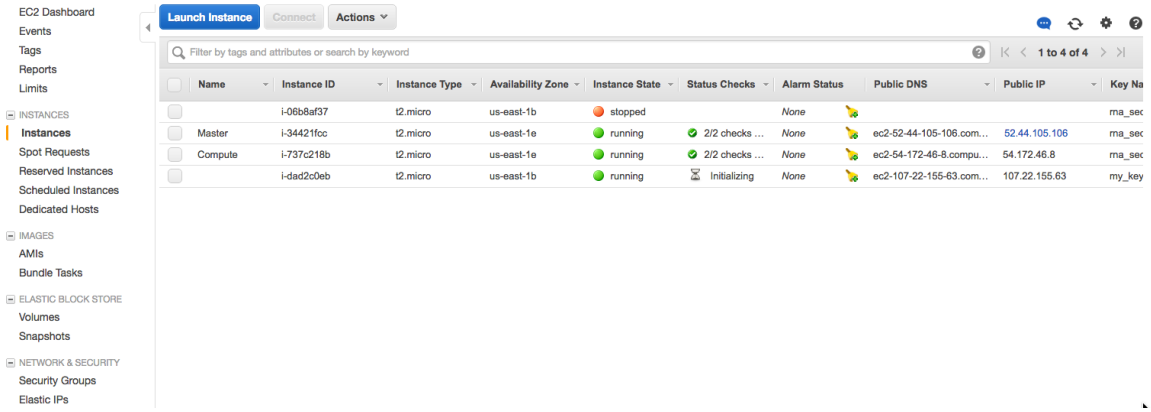
- Click “Launch” button and then create a new key and download the key to your local machine



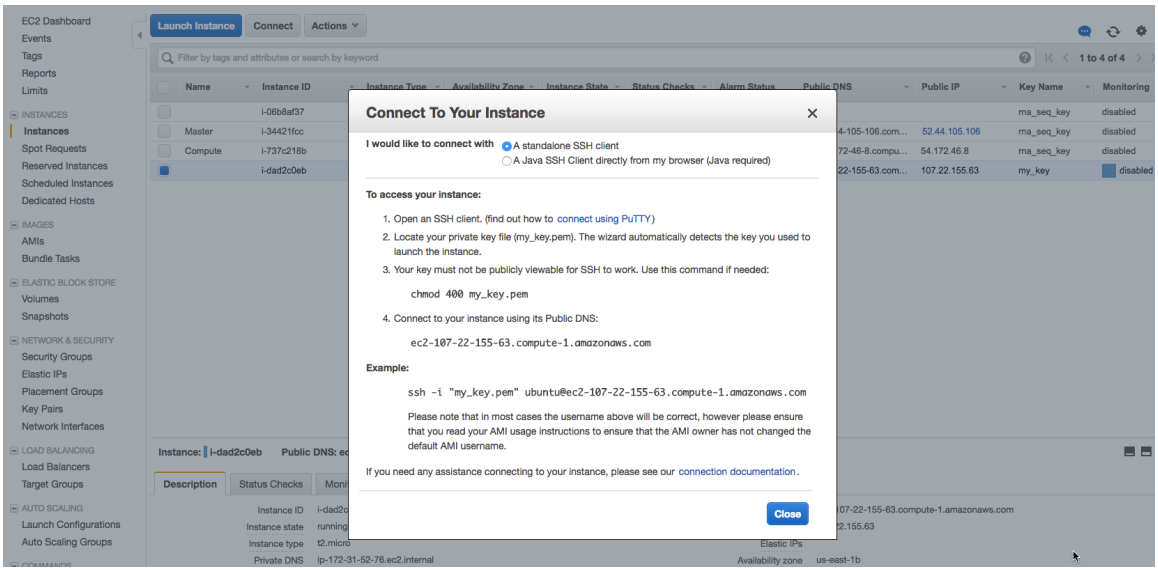
- Click “Launch Instances” button after downloading your key



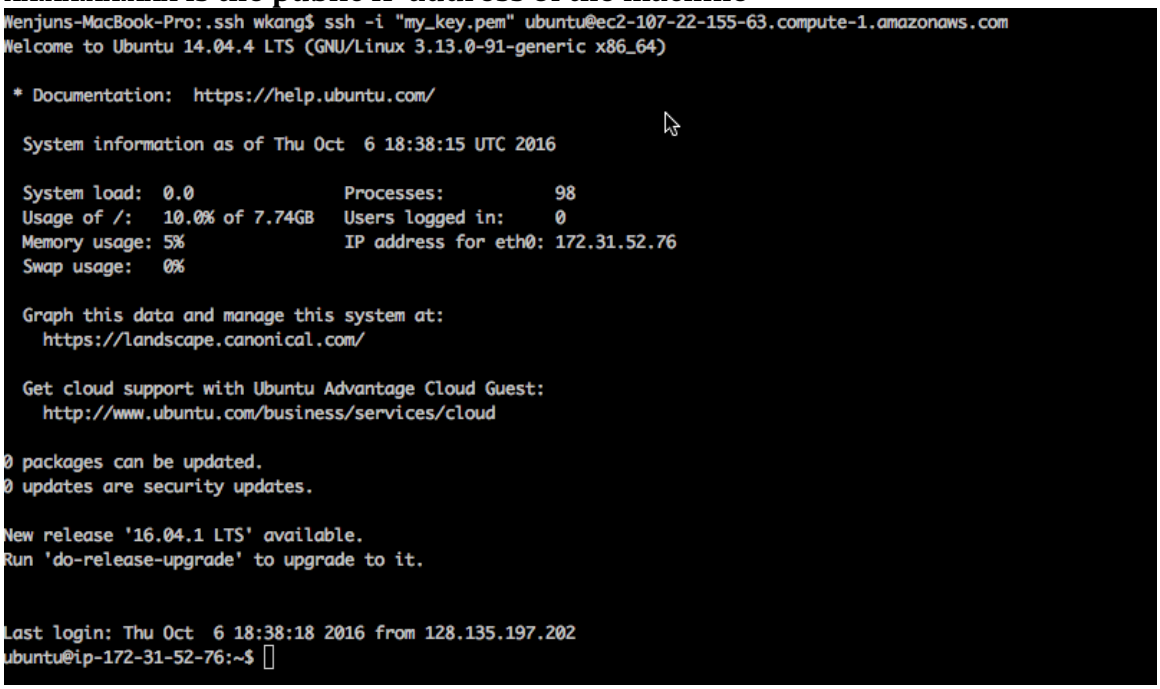
- Click “View Instance” button (You may only see one instance)



- After your VM initializing, you can select the instance using the checkbox on the left and click “Connect” to see the instruction on how to connect to your VM.



Login to the VM: ssh -i "yourpemfile.pem" ubuntu@xx.xx.xx.xxx Where xx.xx.xx.xxx is the public IP address of the machine



After connecting to the instance, following commands were used to install Anaconda **latest** version:

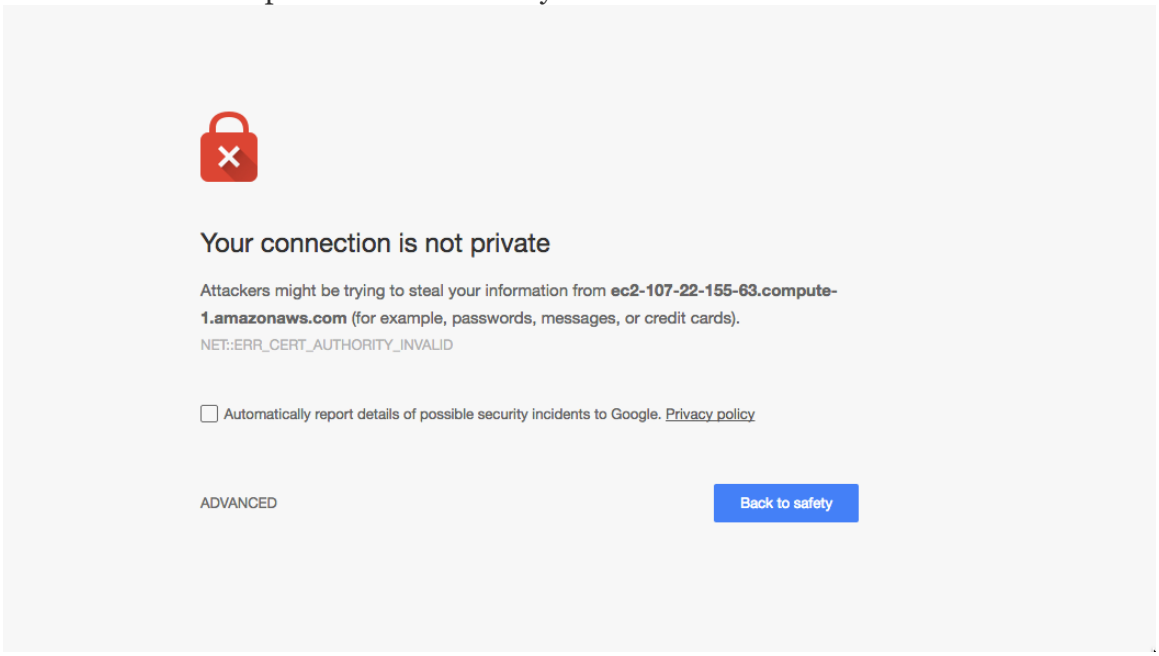
- `sudo apt-get install git`
- `git clone https://gist.github.com/c5be9ca652b0eac88e229011dac236f5.git nb`
- `. nb/jupyter_notebook_ec2.sh`

After the above step, we can start Jupyter notebook and access it remotely.

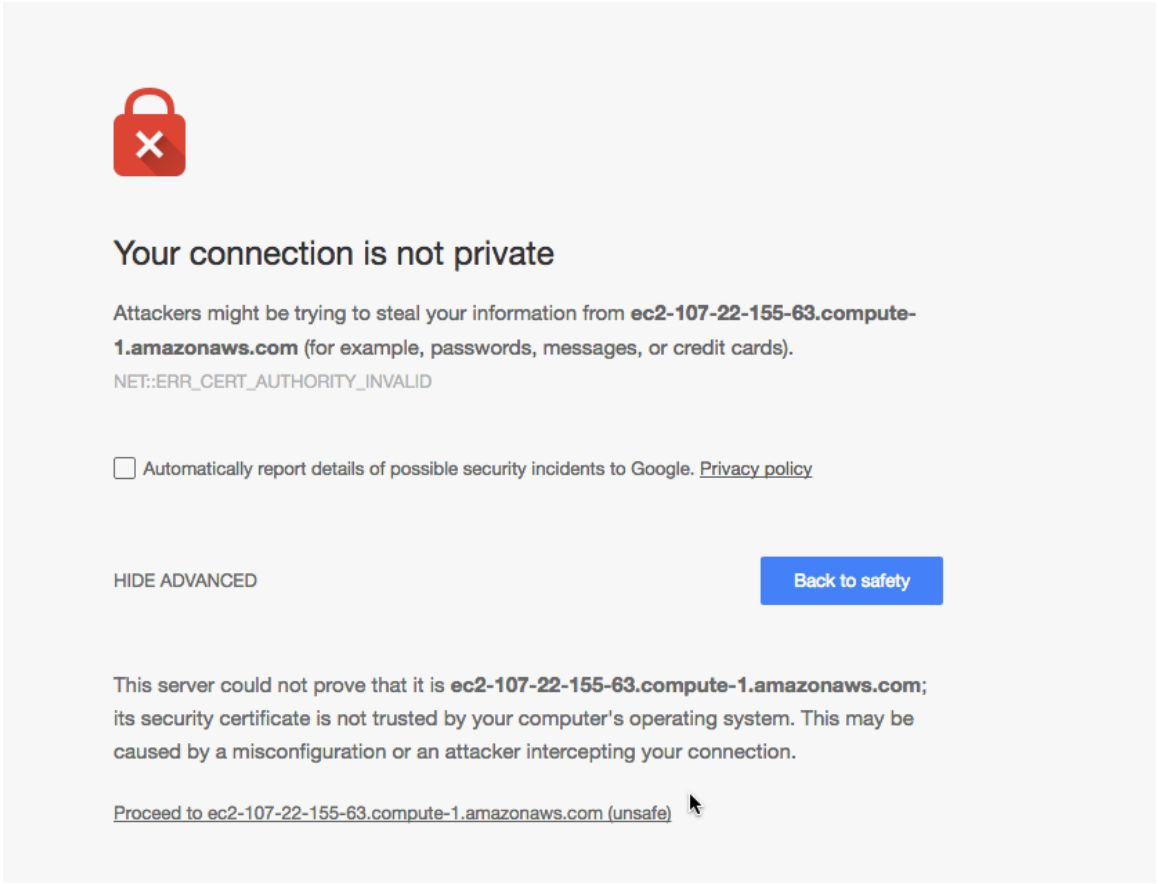
- `cd; mkdir notebook; cd notebook`
- `jupyter notebook --certfile=~/certs/mycert.pem --keyfile ~/certs/mycert.key &`

On your browser:

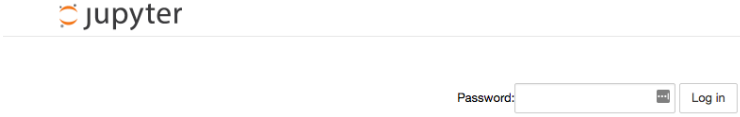
- Visit: https://<ec2-xx-xx-xx-xxx.compute-1.amazonaws.com>:8888/ where xx-xx-xx-xxx is the public IP address of your machine.



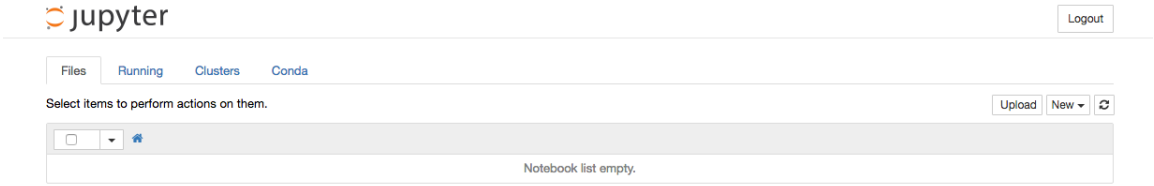
- Click “ADVANCED”



- Click “Proceed to ….”



- Type in the password you have created to login



- You have your Jupyter Notebook running

- After your work done and saved you data, you can terminate the VM from your AWS console by first select your VM, click “Actions” and then click “Terminate” in “Instance State” tab.