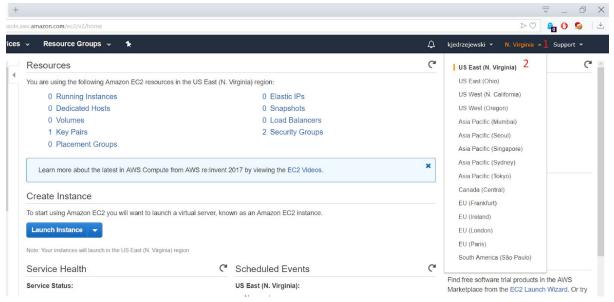
1. Redeeming a credit code

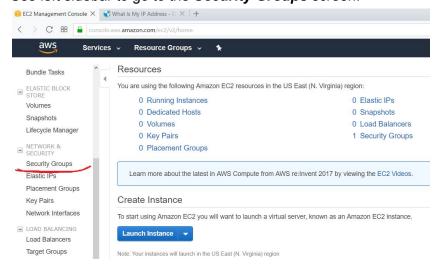
Go to https://console.aws.amazon.com/billing/home#/credits and activate your code.

2. Creating an EC2 instance

- 1. Go to the EC2 console (https://console.aws.amazon.com/ec2/v2/home)
- 2. Open the region menu (1) and select US East (N. Virginia) (2)

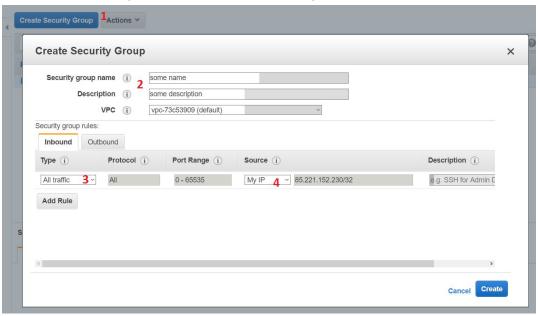


3. Use left sidebar to go to the Security Groups screen:

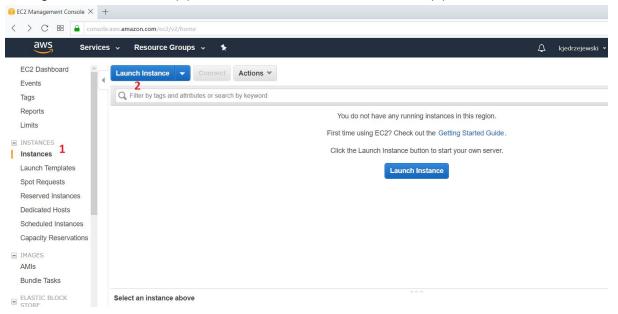


- On that screen:
 - (1) click Create Security Group button
 - (2) enter a name and a description of the group

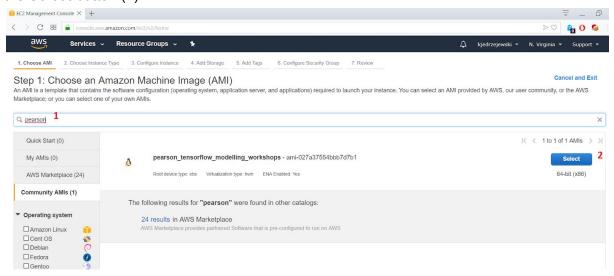
(3) Add a rule with type All traffic and source My IP (4)



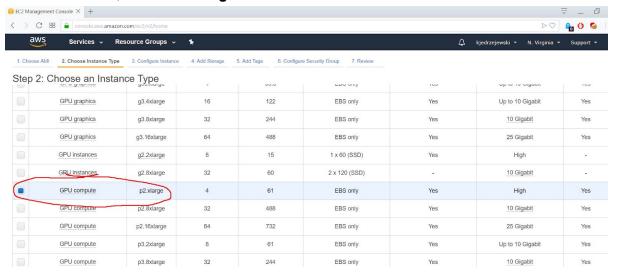
5. Now, go to the *Instances* (1) screen, and click *Launch instance* (2) button



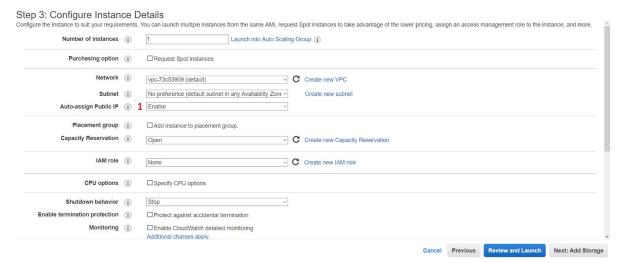
6. In the Step 1, select *Community AMIs*, put "pearson" in the search box (1), and click the *Select* button (2).



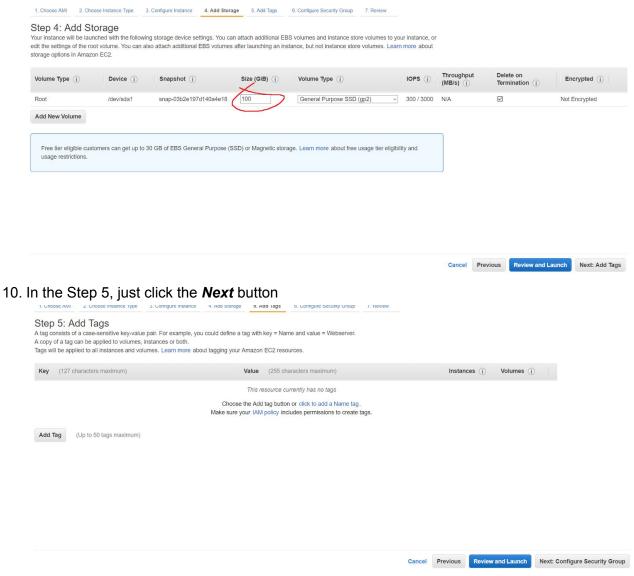
7. In the Step 2, select *p2.xlarge*, and click the *Next* button. If you have the p2.xlarge instance limit at 0, select **t3.2xlarge**



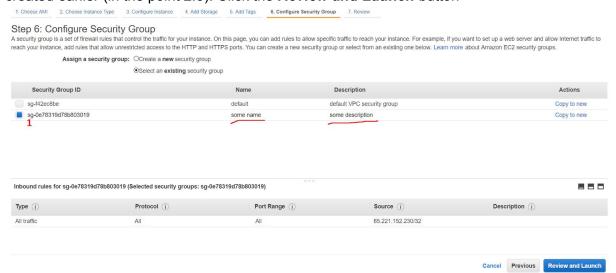
8. In the Step 3, set *Auto-assign Public IP* to *Enable*, and click the *Next* button



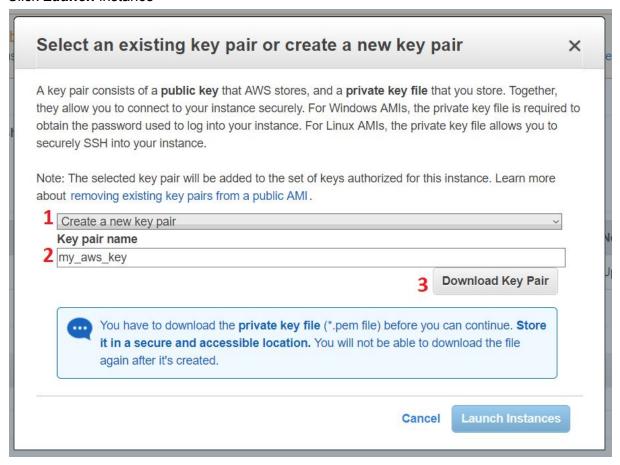
9. In the Step 4, leave 100 GB as the storage size, and click the *Next* button



11. In the Step 6, switch to **Select an existing security group**, and select a group you created earlier (in the point 2.3). Click the **Review and Launch** button

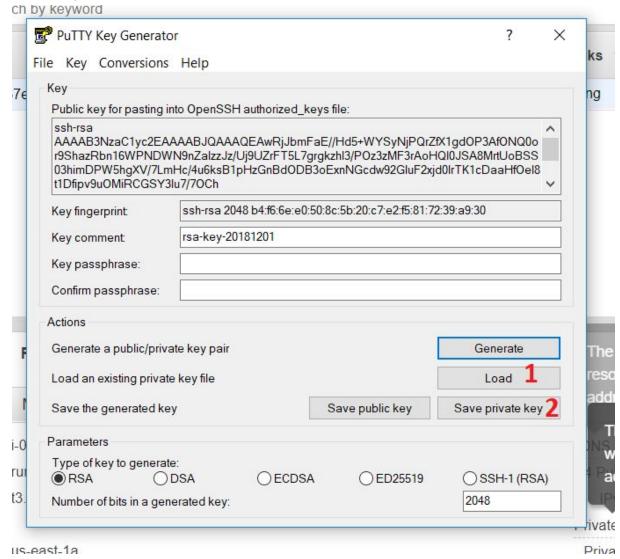


- 13. In the window that will pop-up:
 - (1) select Create a new key pair
 - (2) put the name of your key
 - (3) click **Download Key Pair**, as save it in some safe place. You will need it soon. Click **Launch** instance

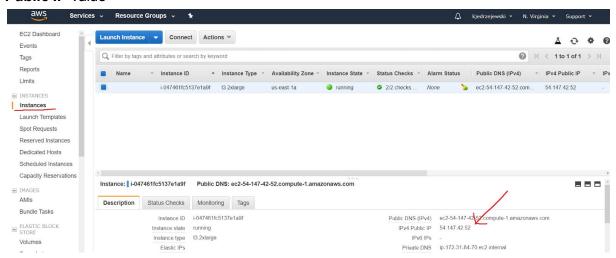


3. Windows - Connecting to an EC2 instance - from

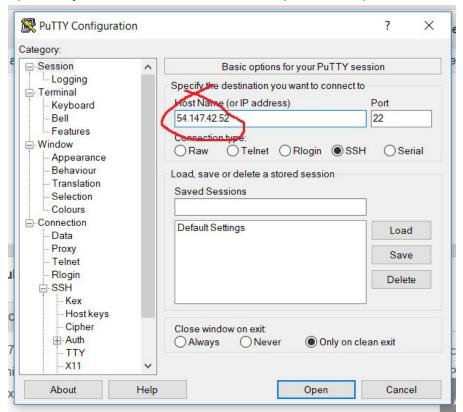
- 1. Go to the EC2 console (https://console.aws.amazon.com/ec2/v2/home)
- 2. Open PuTTYgen. (1) Load the .pem file you downloaded in point 3.13. (2) Save private key as the .ppk file.



3. In the instance screen, select an instance you created earlier, and copy it's **IPv4 Public IP** value

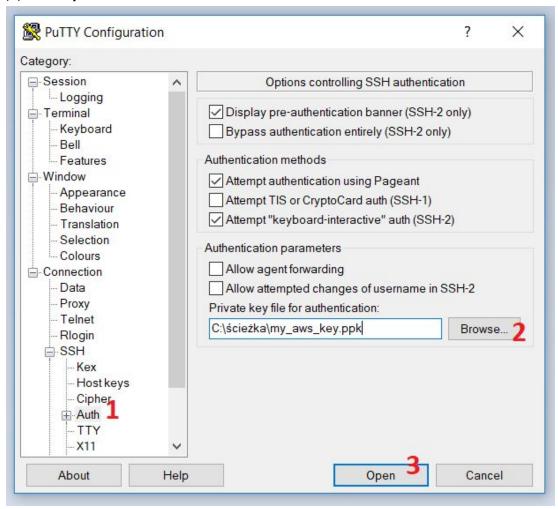


4. Open Putty. Enter the IP address from the previous step as the Host Name

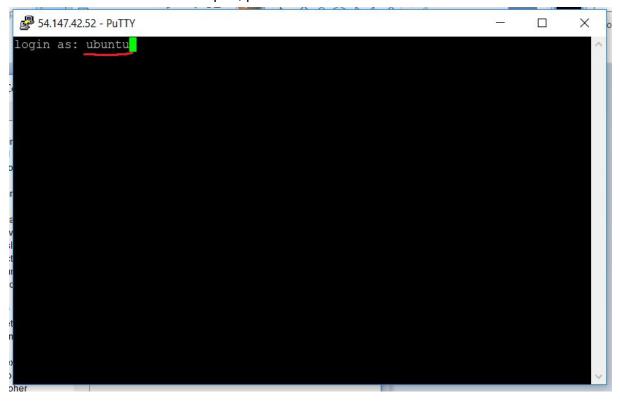


- 5. (1) Using the left sidebar menu go to **Connection** -> **SSH** -> **Auth**
 - (2) Open the private key from the .ppk file

(3) Click Open

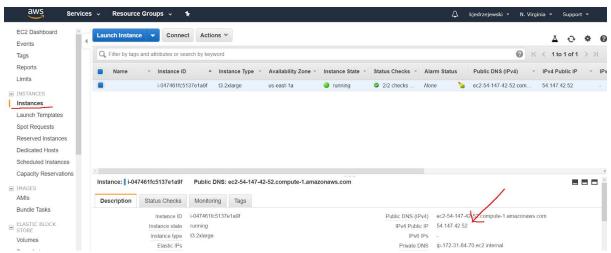


6. In the terminal screen that will open, put *ubuntu* as the user name



4. Linux or MacOS - Connecting to an EC2 instance

- 1. Open the Terminal / bash / whatever you use
- 2. Move the .pem file that you downloaded in the point 3.13 to ~/.ssh/ directory, e.g.: mv /path/to/a/file.pem ~/.ssh/
- 3. Change permissions of this .pem file to 400, e.g. chmod 400 ~/.ssh/file.pem
- In the instance screen, select an instance you created earlier, and copy it's IPv4
 Public IP value



5. Connect to the EC2 machine using **ssh** command. Use your .pem file, username **ubuntu** and the IP address from the previous step, e.g.

ssh -i "~/.ssh/file.pem" ubuntu@54.147.42.52

5. Running jupyter lab, and connecting to it

- 1. Connect to your EC2 machine, e.g. as described in 3. or 4.
- 2. Go to the home directory, e.g.

cd ~/

3. Clone github repository at

https://github.com/kjedrzejewski/tensorflow_mle_workshops.git, e.g.

git clone

https://github.com/kjedrzejewski/tensorflow mle workshops.git

4. Go to the repository directory, e.g.

cd tensorflow mle workshops

5. Activate the environment *TensorFlow(+Keras2) with Python3 (CUDA 9.0 and Intel MKL-DNN)* with:

source activate tensorflow p36

6. Start Jupyter Lab with:

jupyter lab

7. From the output of the previous command copy Jupyter Lab URL, which looks like:

http://ip-172-31-84-70:8888/?token=126669a3fa9a458e2b3f15c339b4ea13ef88cd53fc5f5579

```
(tensorflow p36) ubuntu@ip-172-31-84-70:-$
(tensorflow p36) ubuntu@i
```

8. Now, replace address part in this URL, with the IP address of your machine (from point 3.3 or 4.4), it should now look like:

http://54.147.42.52:8888/?token=126669a3fa9a458e2b3f15c339b4ea13ef88cd53fc5f5579

9. Open this address in the web browser

6. Deleting a machine

Go to the EC2 console (https://console.aws.amazon.com/ec2/v2/home)

- (1) Select the machine you want to delete (and not pay for it any longer)
- (2) Go to Instance State
- (3) Select Terminate

