Accessing Jupyter Notebook Server in AWS from Local Browser

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Local computer environment: macOS Sierra version 10.12.6

This tutorial assumed that you have finished the steps on <<**Launching & Connecting to Instances in AWS**>> (https://github.com/BryanBo-Cao/neuralnets-deeplearning/blob/master/Launching%20%26%20Connecting%20to%20Instances%20in%20AWS.pdf), and an instance is already running in AWS.

When you are trying to connect to an instance on your terminal, enter

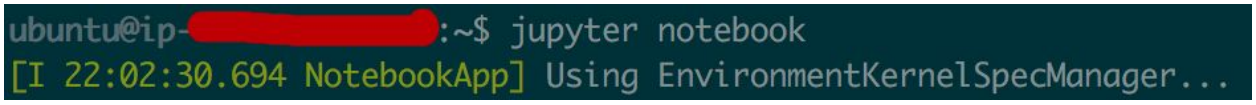
ssh -i "Art-Image.pem" -L 8000:localhost:8888 ubuntu@ec2-*.us-west-2.compute.amazonaws.com

instead of

ssh -i "Art-Image.pem" ubuntu@ec2-*.us-west-2.compute.amazonaws.com

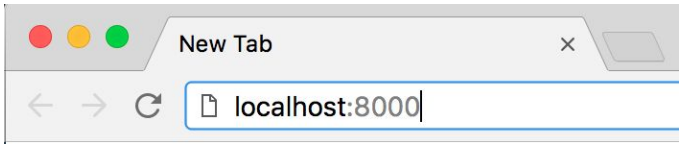
as mentioned in
https://towardsdatascience.com/setting-up-and-using-jupyter-notebooks-on-aws-61a9648db6c5
"**-i** Specifies an alternate identification file to use for public key authentication. Basically for this tutorial, I have my key in current directory.
-L specifies that the given port on the local (client) host is to be forwarded to the given host and port on the remote side (AWS). This means that whatever is running on the second port number (i.e. 8888) on AWS will appear on the first port number (i.e. 8000) on your local computer. You should change 8888 to the port which Jupyter Notebook is running on. 99.9% of the time Jupyter will run on port 8888. Optionally change port 8000 to one of your choosing (for example, if 8000 is used by another process).
"
On the terminal, enter

jupyter notebook

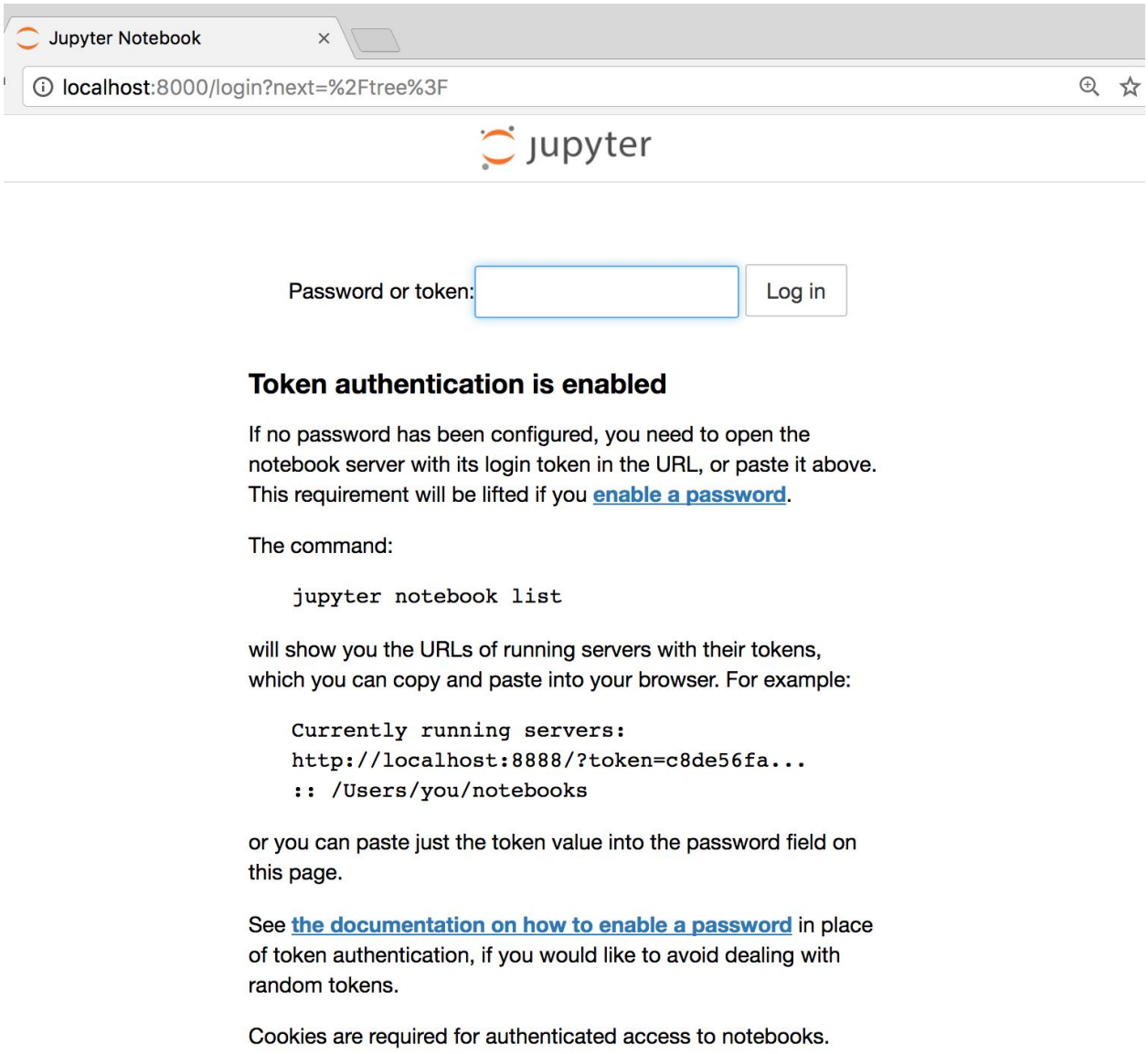


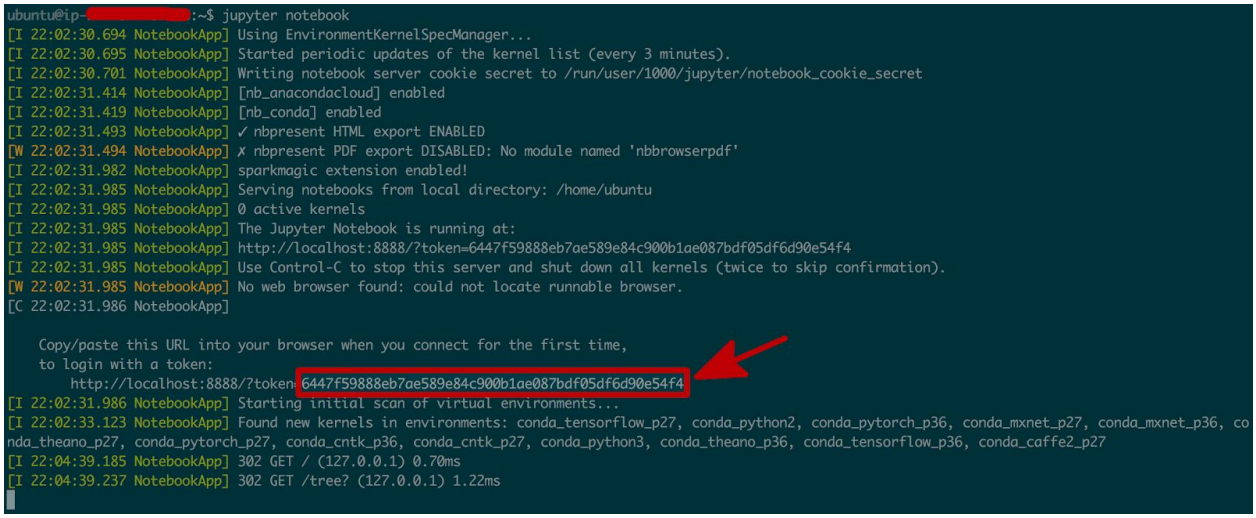
Open a browser and enter

localhost:8000

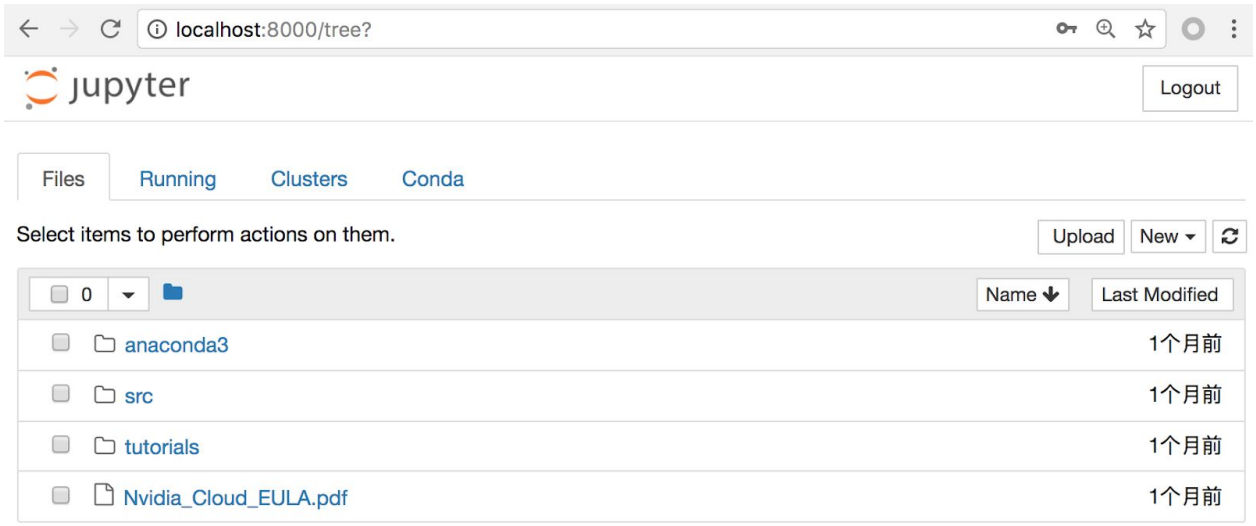


Then you will see:





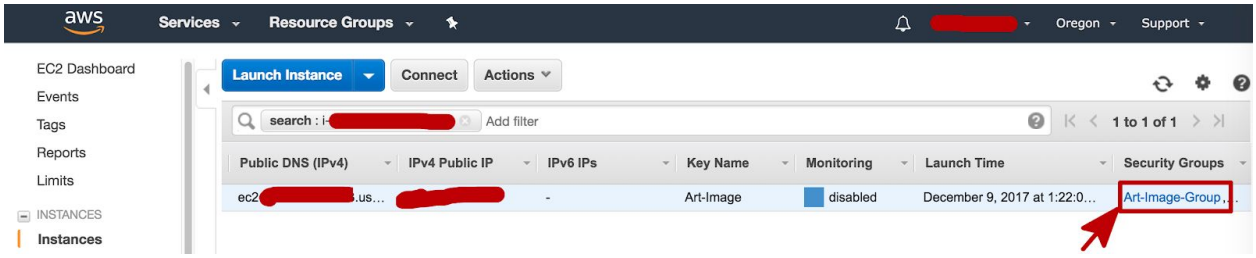
Copy the token on your terminal and then you should be able to log in. When you see this page below, it means everything goes well and you could start to write you deep learning code with TensorFlow:



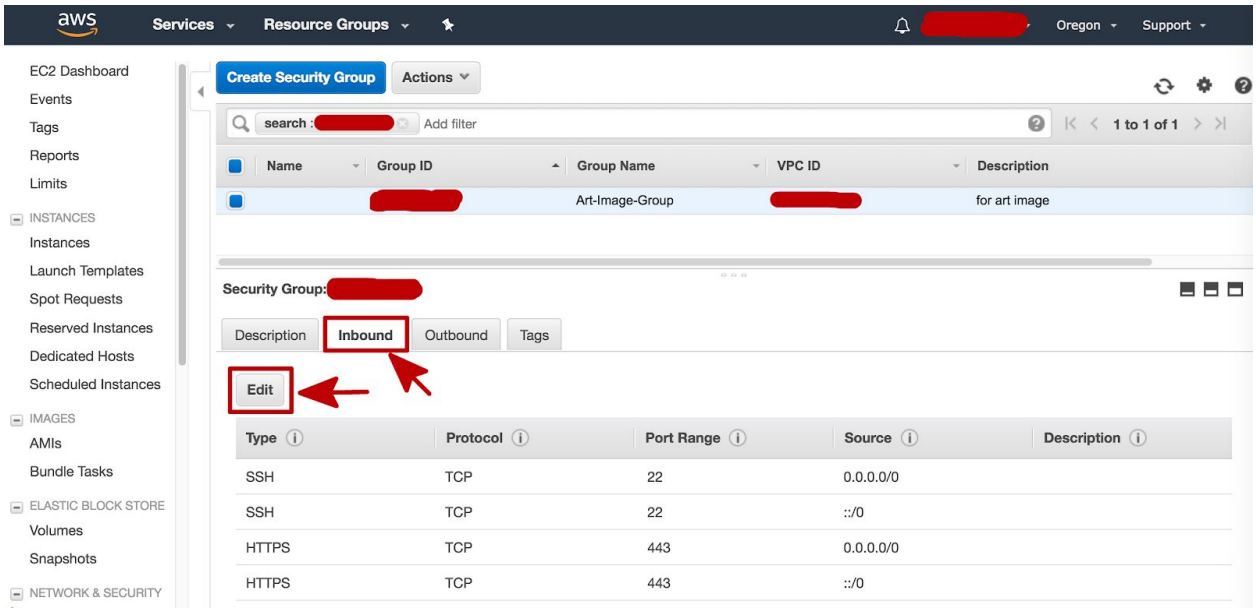
Good luck!

Troubleshooting

One thing that might need to be done is to set the Security Group.
On the instances page, scroll to the right most side and click the Security Group:

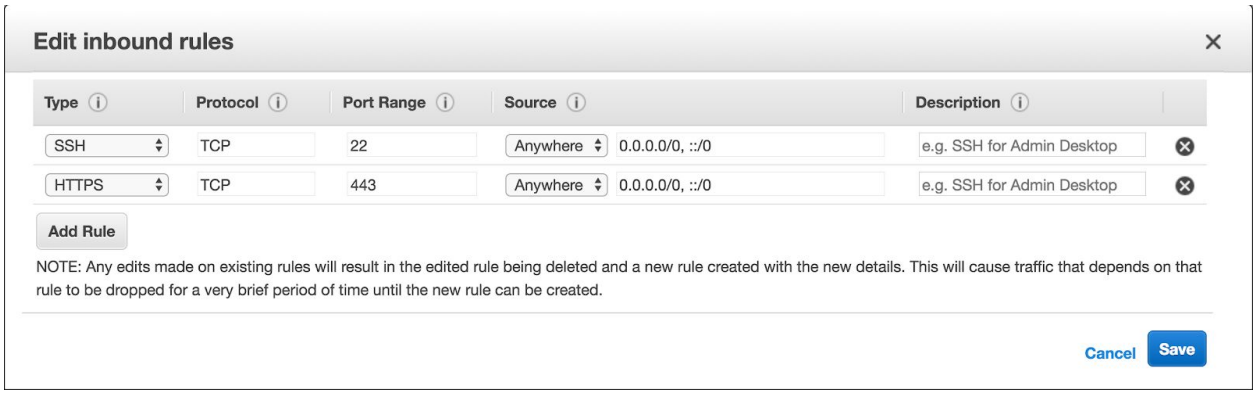


The Security Group that I am going to edit is “Art-Image-Group”. Select it by clicking the square box on the left of the Security Group and then click “Inbound” and then “Edit”:



Add these rules:

Type	Protocol	Port Range	Source
SSH	TCP	22	Anywhere
HTTPS	TCP	443	Anywhere



Reference:

https://www.youtube.com/watch?v=q1vVedHbkAY
https://towardsdatascience.com/setting-up-and-using-jupyter-notebooks-on-aws-61a9648db6c5