Documentation of Setting Up EC2 Instance

**- How to set EC2 virtual environment \*(WARNING: Don't follow course.fastai.ec2 setup instructions)\***

1) Create EC2 instance with g4dn.xlarge by selecting options

2) Remember to use ubuntu version 20.4 not 22.0 because of dependency issues

3) Don't delete your key pair which you have chosed for particular instance in your local machine

4) So your instance is ready

5) Remember selecting at least 100 GB volume while creating instance

6) You have started the amazon server in your terminal by doing **ssh -i <name of pm file> ubuntu @ <public ipv4 dns >**

7) Do the following in terminal :

s**udo apt update && sudo apt -y install git**

**git clone https://github.com/fastai/fastsetup.git**

**cd fastsetup**

**sudo ./ubuntu-initial.sh**

8) And then write exit or logout in terminal to disconnect from amazon

9) Then eneter the comman in local terminal

**ssh -L localhost:8888:localhost:8888 -i <name of pemfile> ubuntu@<public ipv4 Dns>**

10) Make sure of the directory of the pem file path

\*(No you are connected to amazon terminal)\*

11) Do the following <amazon ec2 terminal>:

**cd fastsetup**

**./setup-conda.sh**

**source ~/.bashrc**

12) Do not enter the following as described in course.fast.ai:

**conda install -yq mamba**

13) Now setup your nvidia-drivers:

**ubuntu-drivers devices**

14) You have to look at recommended drivers version and then install it

**sudo apt-fast install -y nvidia-driver-<recommended driver version>-server**

15) Make sure you install nvidia driver successfully

16) Enter the following commands:

**sudo modprobe nvidia**

**nvidia-smi**

17) Now time to install fastai libraries. \*REMEMBER TO DO IT WITH pip NOT conda/mamba\*

**pip --upgrade pip**

**pip install fastai**

**pip install -uqq fastbook**

**pip install graphvis**

**pip install notebook**

18) Enter the following:

**cd**

**git clone https://github.com/fastai/fastbook**

19) Run jupyter notebook: jupyter notebook

20) Type **localhost:8888** in your browser.

21) If it is not connected open the new terminal and type following:

**ssh -L localhost:8888:localhost:8888 -i <pemfile> ubuntu@<public ipv4 Dns>**

\*Email us if you are facing issues\*