



Login to the Instance

After launch, your instance may take a few minutes to initialize.

Once you see "2/2 checks passed" on the EC2 Management Console, your instance is ready for you to log in.

Status Checks ▾	Alarm Status	Public DNS (IPv4) ▾	IPv4 Public IP ▾
2/2 checks ...	None	ec2-52-8-198-63.us-we...	52.8.198.638

Instance Status Check and Public IP

Note the "IPv4 Public IP" address (in the format of "X.X.X.X") on the EC2 Dashboard.

From a terminal, navigate to the location where you stored your .pem file. (For example, if you put your .pem file on your Desktop, `cd ~/Desktop/` will move you to the correct directory.)

Type `ssh -i YourKeyName.pem ubuntu@X.X.X.X`, where:

- `X.X.X.X` is the IPv4 Public IP found in AWS, and
- `YourKeyName.pem` is the name of your .pem file.

Note that if you've used a different AMI or specified a username, `ubuntu` will be replaced with the username, such as `ec2-user` for some Amazon AMI's. You would then instead enter `ssh -i YourKeyName.pem ec2-user@X.X.X.X`

Configure Jupyter notebook settings

In your instance, in order to create a config file for your Jupyter notebook settings, type:

```
jupyter notebook --generate-config.
```

Then, to change the IP address config setting for notebooks (this is just a fancy one-line command to perform an exact string match replacement; you could do the same thing



Test the Instance

Make sure everything is working properly by verifying that the instance can run a Keras notebook.

On the EC2 instance

- Clone a GitHub repository
 - `git clone https://github.com/udacity/aind2-cnn.git`
- Enter the repo directory
 - `cd aind2-cnn`
- Install the requirements
 - `sudo python3 -m pip install -r requirements/requirements-gpu.txt`
- Start Jupyter notebook
 - `jupyter notebook --ip=0.0.0.0 --no-browser`

From your local machine

- You will need the token generated by your jupyter notebook to access it. On your instance terminal, there will be the following line: `Copy/paste this URL into your browser when you connect for the first time, to login with a token: .` Copy everything starting with the `:8888/?token=`.
- Access the Jupyter notebook index from your web browser by visiting: `X.X.X.X:8888/?token=...` (where X.X.X.X is the IP address of your EC2 instance and everything starting with `:8888/?token=` is what you just copied).
- Click on "mnist_mlp" to enter the folder, and select the "mnist_mlp.ipynb" notebook.
- Run each cell in the notebook.

NOTE: Windows users may prefer connecting via the GUI utility PuTTY, by following [these instructions](#).

From this point on, AWS will charge you for a running an EC2 instance. You can find the details on the [EC2 On-Demand Pricing page](#).

Most importantly, remember to "stop" (i.e. shutdown) your instances when you are not using them. Otherwise, your instances might run for a day or a week or a month without you remembering, and you'll wind up with a large bill!



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until you “terminate” (i.e. delete) the instance.

NEXT