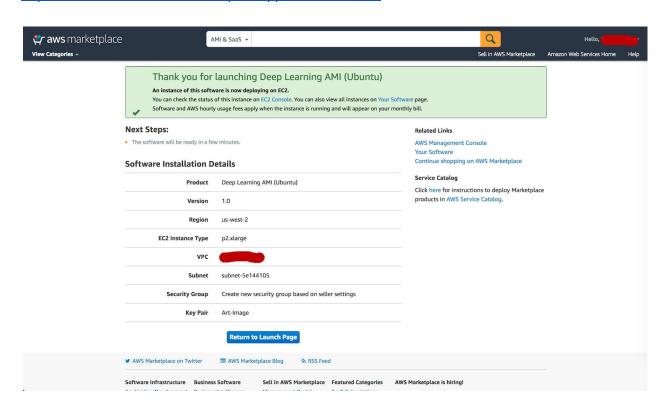
## Launching & Connecting to Deep Learning Instances in AWS

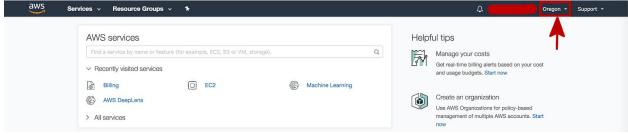
Author: <a href="https://www.github.com/BryanBo-Cao">www.github.com/BryanBo-Cao</a>
Thu May 17, 2018

Local computer environment: macOS Sierra version 10.12.6

Choose one option and subscribe:

https://aws.amazon.com/marketplace/pp/B077GCH38C



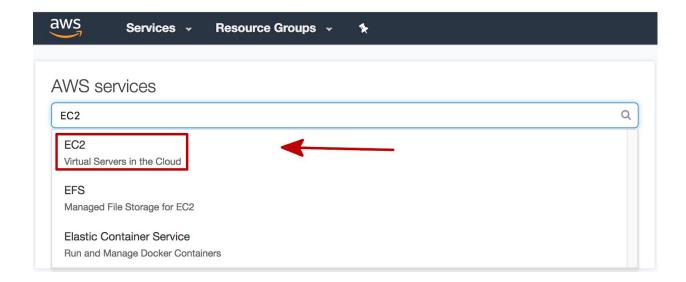




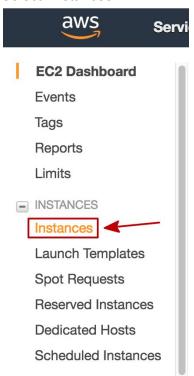
At this point, the server with Deep Learning frameworks are in US West (Oregon), so choose this region.



icon on the top-left conner, search "EC2" in the search bar and select "EC2".



## Select "instances"



Click the square box at the left side of an instance that you created for the deep learning task:



Click "Launch Instance" button, and wait until the "Instance State" turns to "running":



Assume you have generated and downloaded the private key "**Art-Image.pem**" in a directory called "**aws-key**" on your local computer. If not, you may create a pair key. Reference:

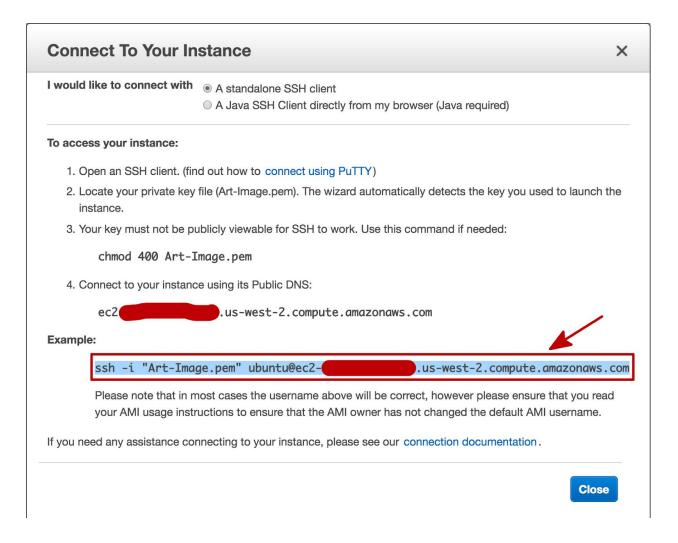
https://github.com/BryanBo-Cao/neuralnets-deeplearning/blob/master/Launching%20%26%20Connecting%20to%20an%20AWS%20Instance.pdf

Then select the instance that you would like to use, click "Connect" button:



Copy the command with pulic DNS:

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



Open your terminal(here I use iTerm), navigate (cd) to "aws-key" directory and make sure your private key is in this directory.

## Enter

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

When you see the screen below, then you are connected to this instance:

→ aws-key ls Art-Image.pem	
→ aws-key pwd	
/Users/Gundam00/Documents/aws-key	
→ aws-key ssh -i "Art-Image.pem" ubuntu@ec2	.us-west-2.compute.amazonaws.com
_ ) _  ( / Deep Learning AMI (Ubuntu)  \	
Welcome to Ubuntu 16.04.3 LTS (GNU/Linux 4.4.0-1039-aws x86_64v)	
Please use one of the following commands to start the re	
for MXNet(+Keras1) with Python3 (CUDA 9)	
for MXNet(+Keras1) with Python2 (CUDA 9)	
for TensorFlow(+Keras2) with Python3 (CUDA 8)	source activate tensorflow_p36
for TensorFlow(+Keras2) with Python2 (CUDA 8)	
for Theano(+Keras2) with Python3 (CUDA 9)	
for Theano(+Keras2) with Python2 (CUDA 9)	source activate theano_p27
for PyTorch with Python3 (CUDA 8)	source activate pytorch_p36
for PyTorch with Python2 (CUDA 8)	
for CNTK(+Keras2) with Python3 (CUDA 8)	
for CNTK(+Keras2) with Python2 (CUDA 8)	
for Caffe2 with Python2 (CUDA 9)	source activate caffe2_p27
for base Python2 (CUDA 9)	
for base Python3 (CUDA 9)	source activate python3
Official conda user guide: https://conda.io/docs/user-guide/index.html AMI details: https://aws.amazon.com/amazon-ai/amis/details/ Release Notes: https://aws.amazon.com/documentation/dlami/latest/devguide/appendix-ami-release-notes.html	
* Documentation: https://help.ubuntu.com	
* Management: https://landscape.canonical.com	
* Support: https://ubuntu.com/advantage	
Get cloud support with Ubuntu Advantage Cloud Guest: http://www.ubuntu.com/business/services/cloud	
62 packages can be updated. 34 updates are security updates.	
ubuntu@ip :~\$	

If permission denied, append "sudo" to the front of the command like sudo ssh -i "Art-Image.pem" ubuntu@ec2-\*.us-west-2.compute.amazonaws.com