

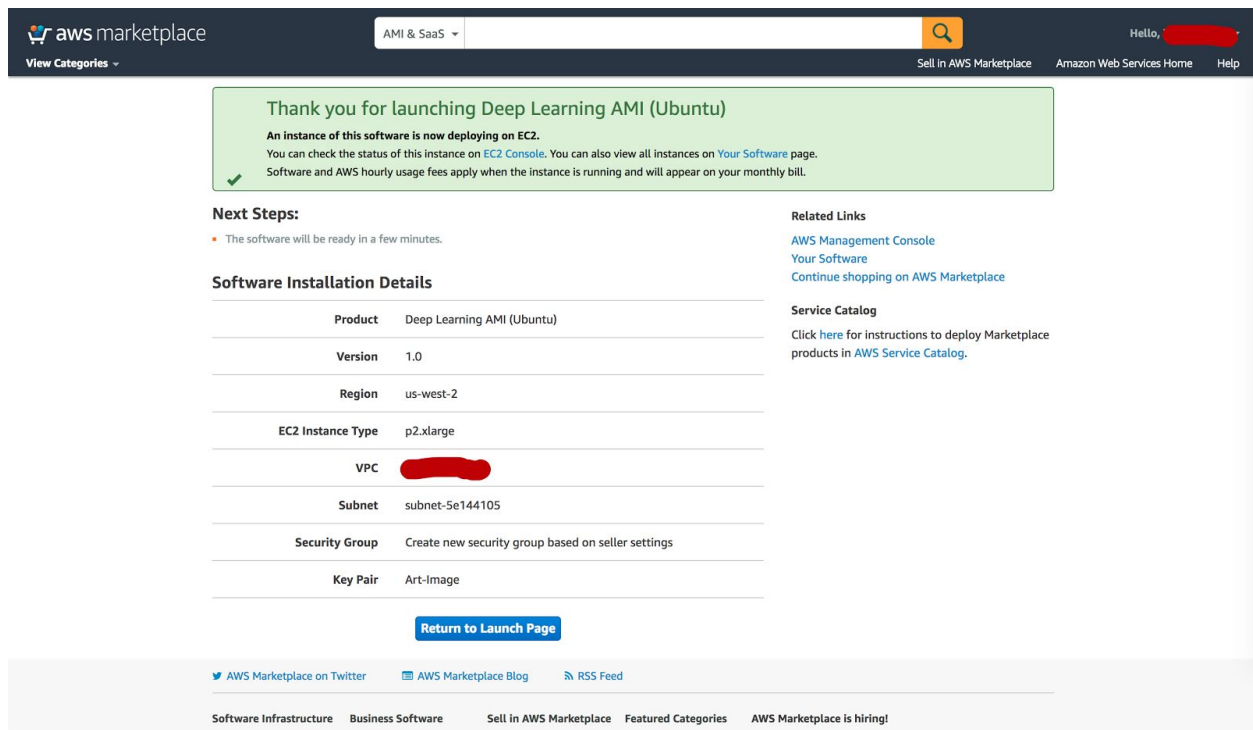
Launching Instance with TensorFlow, Python & Anaconda on AWS

Author: github.com/BryanBo-Cao
2017-Dec-09Sat

Local computer environment: macOS Sierra version 10.12.6

Choose one option and subscribe:

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



The screenshot shows the AWS Marketplace page for the 'Deep Learning AMI (Ubuntu)'. The page includes a green confirmation banner, a 'Next Steps' section, and a 'Software Installation Details' table.

Thank you for launching Deep Learning AMI (Ubuntu)
An instance of this software is now deploying on EC2. You can check the status of this instance on [EC2 Console](#). You can also view all instances on [Your Software](#) page. Software and AWS hourly usage fees apply when the instance is running and will appear on your monthly bill.

Next Steps:
The software will be ready in a few minutes.

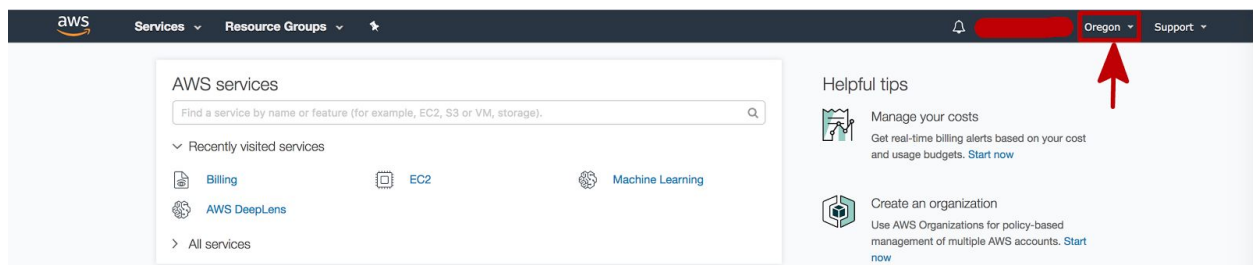
Software Installation Details

Product	Deep Learning AMI (Ubuntu)
Version	1.0
Region	us-west-2
EC2 Instance Type	p2.xlarge
VPC	[Redacted]
Subnet	subnet-5e144105
Security Group	Create new security group based on seller settings
Key Pair	Art-Image

[Return to Launch Page](#)

[AWS Marketplace on Twitter](#) [AWS Marketplace Blog](#) [RSS Feed](#)

Software Infrastructure Business Software Sell in AWS Marketplace Featured Categories AWS Marketplace is hiring!



The screenshot shows the AWS Management Console. The top navigation bar includes the AWS logo, 'Services', 'Resource Groups', and a region dropdown menu. The region dropdown menu is open, showing 'Oregon' selected. A red arrow points to the 'Oregon' option.

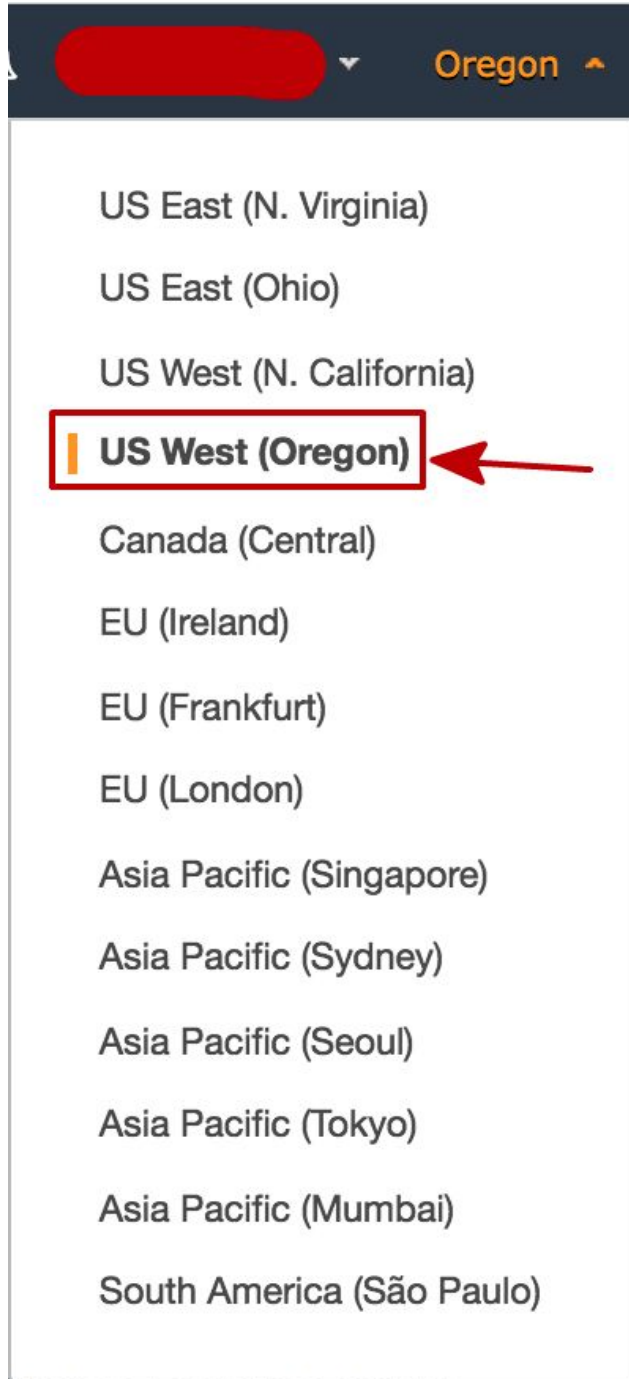
AWS services
Find a service by name or feature (for example, EC2, S3 or VM, storage).

Recently visited services


- Billing
- EC2
- Machine Learning
- AWS DeepLens
- All services

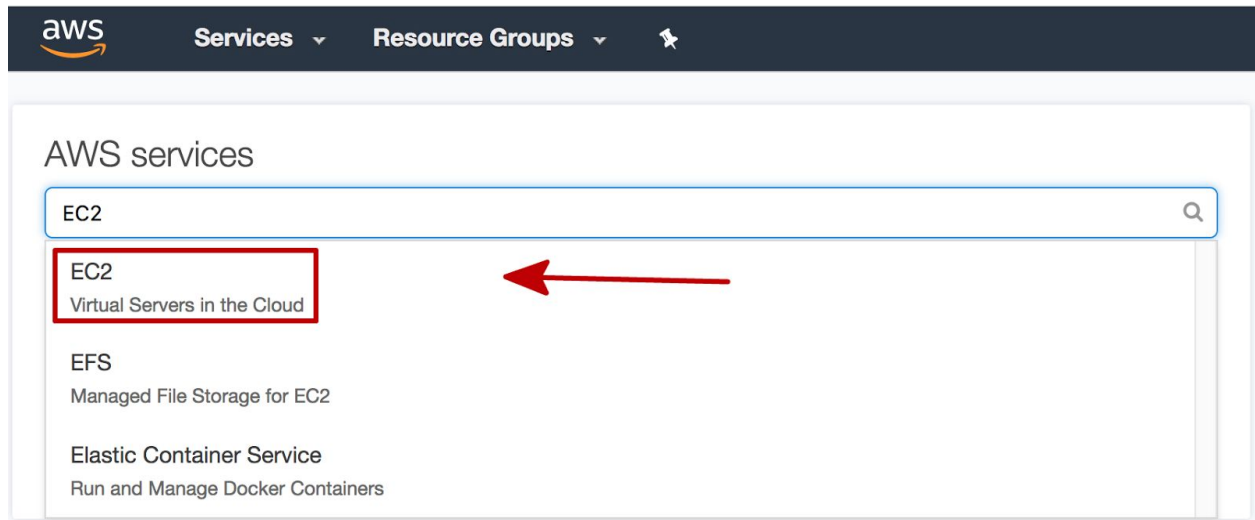
Helpful tips

- Manage your costs: Get real-time billing alerts based on your cost and usage budgets. [Start now](#)
- Create an organization: Use AWS Organizations for policy-based management of multiple AWS accounts. [Start now](#)

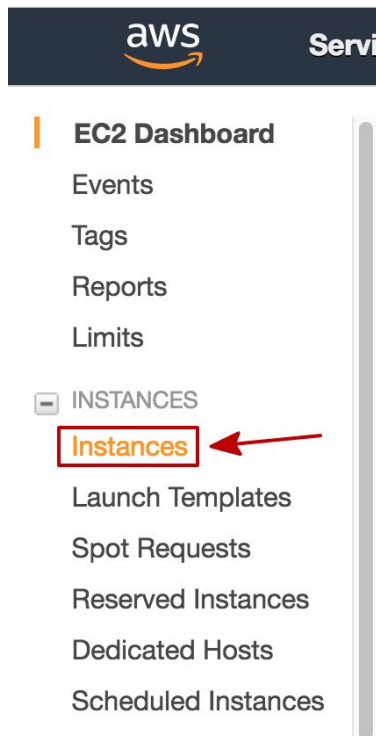


At this point, the server with Deep Learning frameworks are in US West (Oregon), so choose this region.

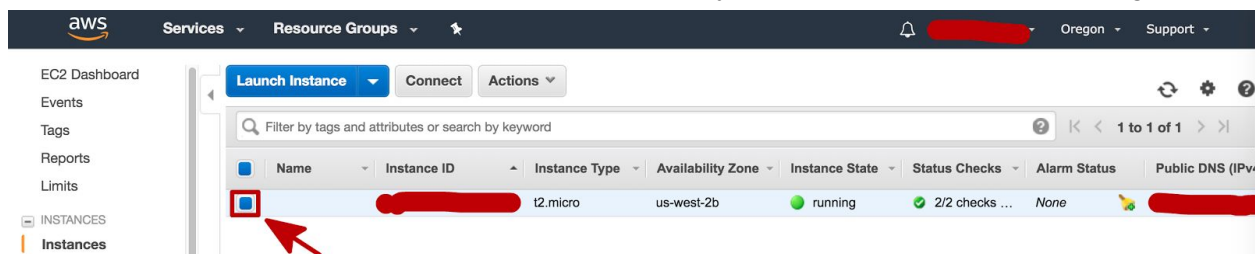
Click the  icon on the top-left corner, search “EC2” in the search bar and select “EC2”.



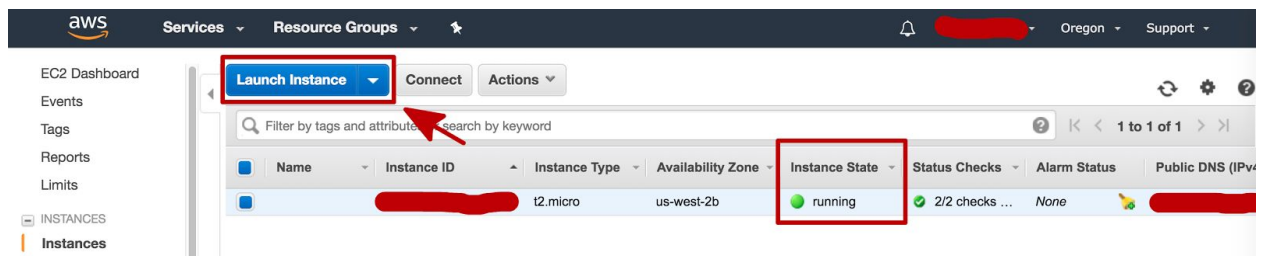
Select "instances"



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

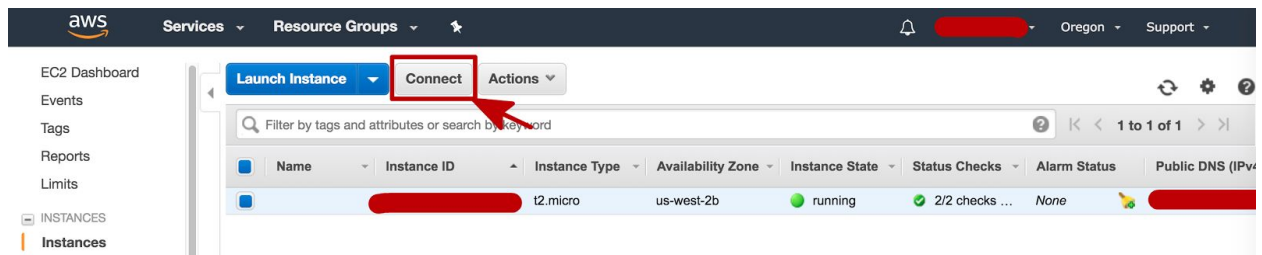


Click “Launch Instance” button, and wait until the “Instance State” turns to “running”:



Assume you have generated and downloaded private key to your local computer, in this document the private key name is “Art-Image.pem” under the directory of “/Users/[user]/Documents/aws-key”. Please replace [user] with your user name on your macbook.

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
```

Connect To Your Instance

I would like to connect with

☒ A standalone SSH client
☐ A Java SSH Client directly from my browser (Java required)

To access your instance:

1. Open an SSH client. (find out how to [connect using PuTTY](#))

2. Locate your private key file (Art-Image.pem). The wizard automatically detects the key you used to launch the instance.

3. Your key must not be publicly viewable for SSH to work. Use this command if needed:

```
chmod 400 Art-Image.pem
```

4. Connect to your instance using its Public DNS:

```
ec2-*.us-west-2.compute.amazonaws.com
```

Example:

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

Please note that in most cases the username above will be correct, however please ensure that you read your AMI usage instructions to ensure that the AMI owner has not changed the default AMI username.

If you need any assistance connecting to your instance, please see our [connection documentation](#).

Close

Open your terminal(here I use iTerm), 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-[REDACTED].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 required environment with the framework of your choice:

```
for MXNet(+Keras1) with Python3 (CUDA 9) _____ source activate mxnet_p36
for MXNet(+Keras1) with Python2 (CUDA 9) _____ source activate mxnet_p27
for TensorFlow(+Keras2) with Python3 (CUDA 8) _____ source activate tensorflow_p36
for TensorFlow(+Keras2) with Python2 (CUDA 8) _____ source activate tensorflow_p27
for Theano(+Keras2) with Python3 (CUDA 9) _____ source activate theano_p36
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) _____ source activate pytorch_p27
for CNTK(+Keras2) with Python3 (CUDA 8) _____ source activate cntk_p36
for CNTK(+Keras2) with Python2 (CUDA 8) _____ source activate cntk_p27
for Caffe2 with Python2 (CUDA 9) _____ source activate caffe2_p27
for base Python2 (CUDA 9) _____ source activate python2
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-[REDACTED]:~\$ █