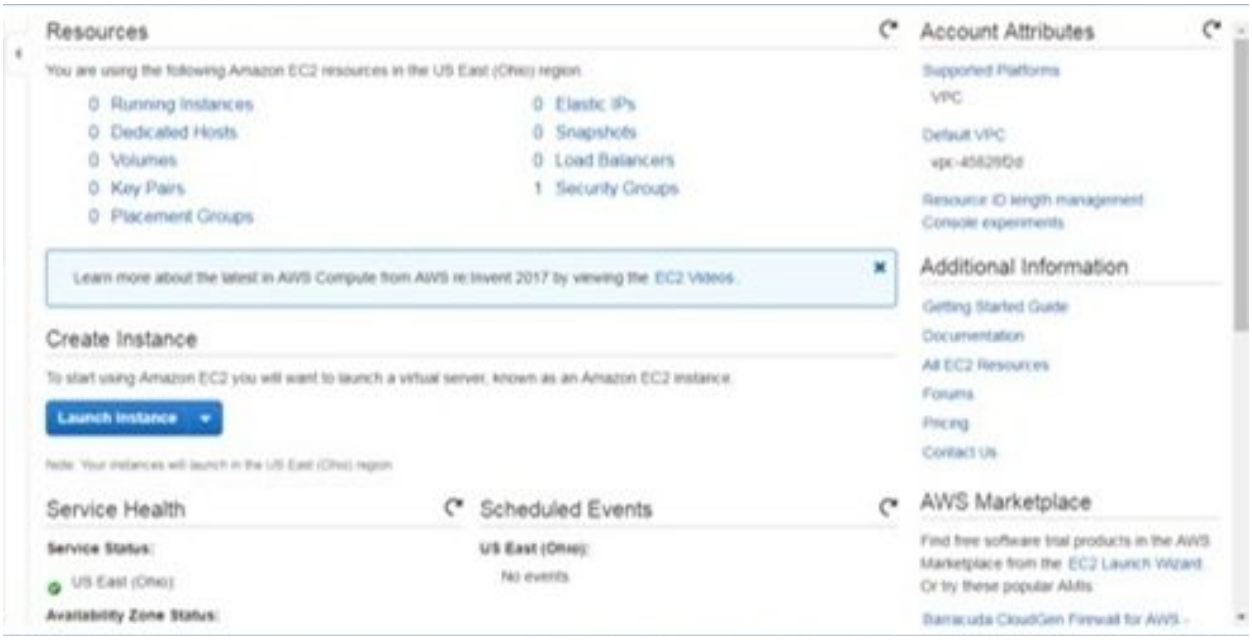
Virtual Machine

Launch a Linux Virtual Machinethen connect to a Linux instance in the cloud.

Open the AWS Management Console.

When the screen loads, enter your user name and password to get started. Then type *EC2* in the search bar and select Amazon EC2 to open the service console.

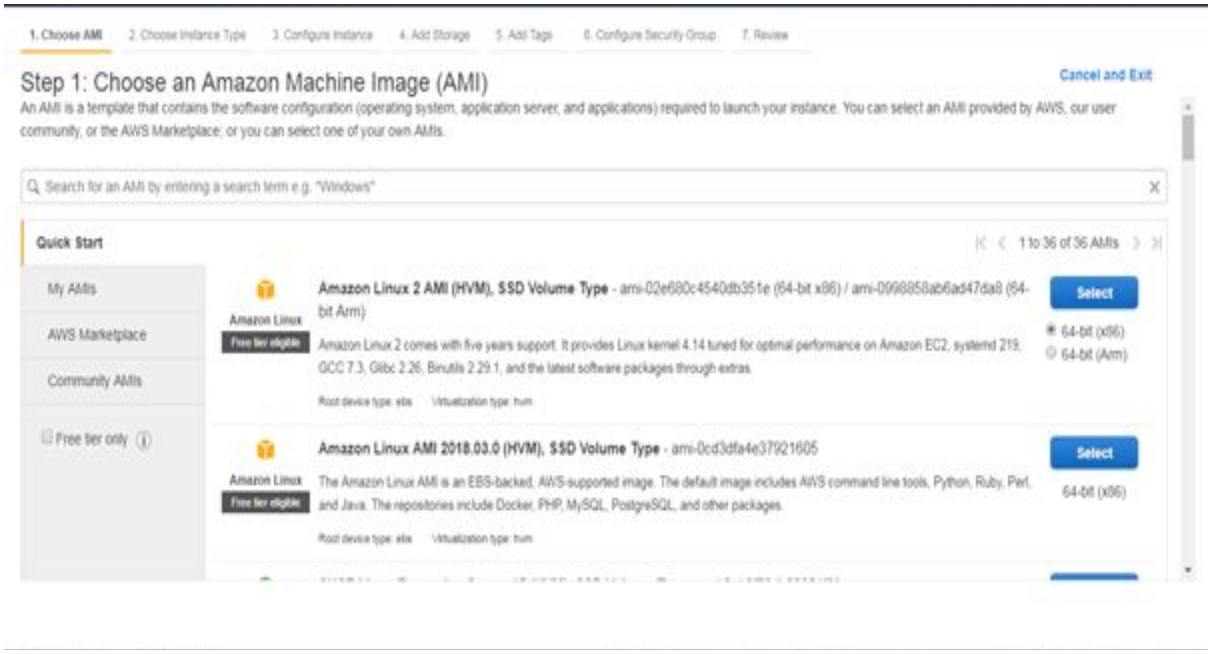


* Launch an Instance

Select Launch Instance to create and configure your virtual machine.

Configure your Instance

a. In this screen, you are shown options to choose an Amazon Machine Image (AMI). AMIs are preconfigured server templates you can use to launch an instance. Each AMI includes an operating system, and can also include applications and application servers.

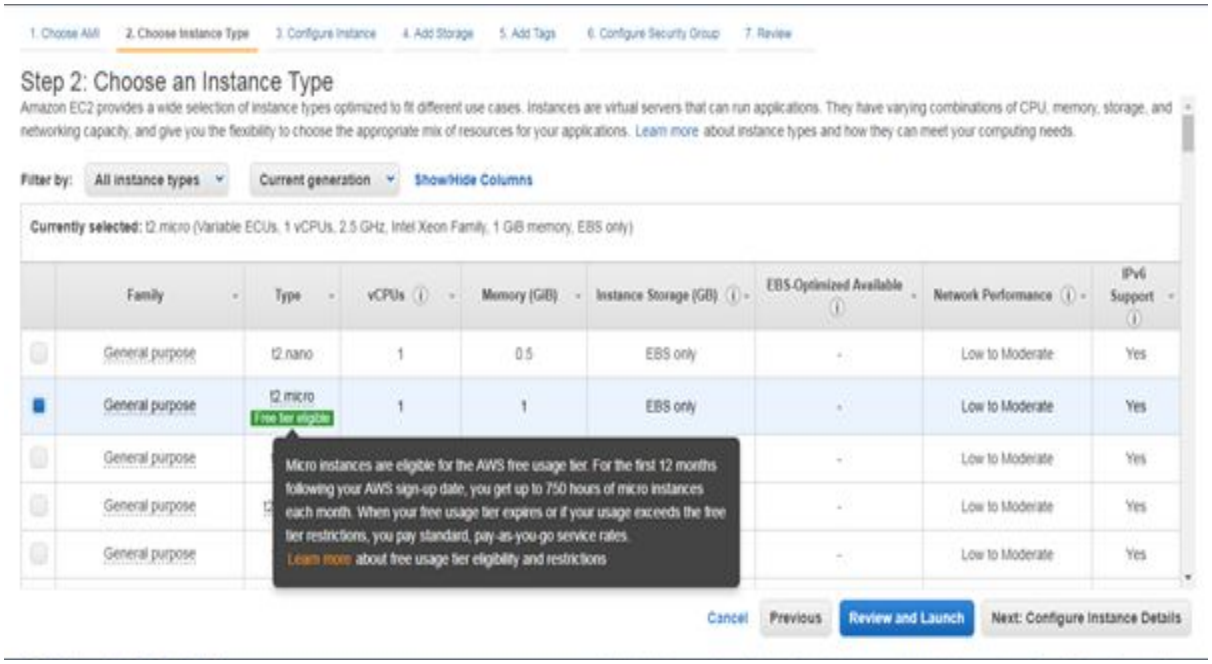


c. You can review the configuration, storage, tagging, and security settings that have been selected for your instance.

d. On the next screen you will be asked to choose an existing key pair or create a new key pair. A key pair is used to securely access your Linux instance using SSH. AWS stores the public part of the key pair which is just like a house lock. You download and use the private part of the key pair which is just like a house key.

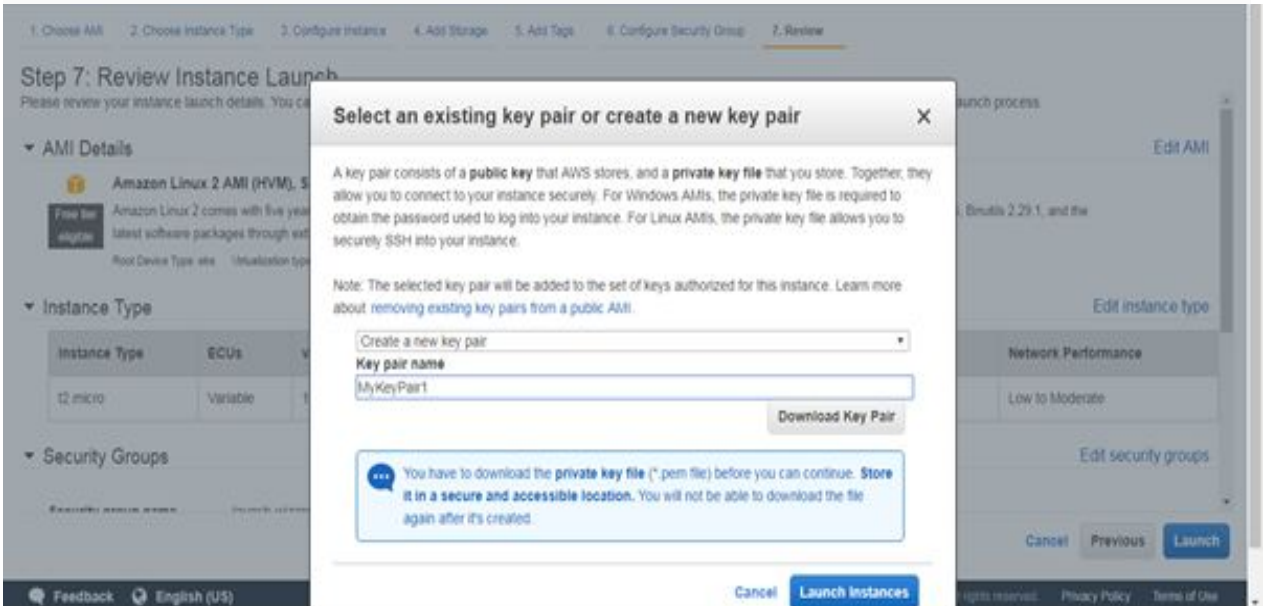
Select Create a new key pair and give it the name MyKeyPair1. Next click the Download Key Pair button.

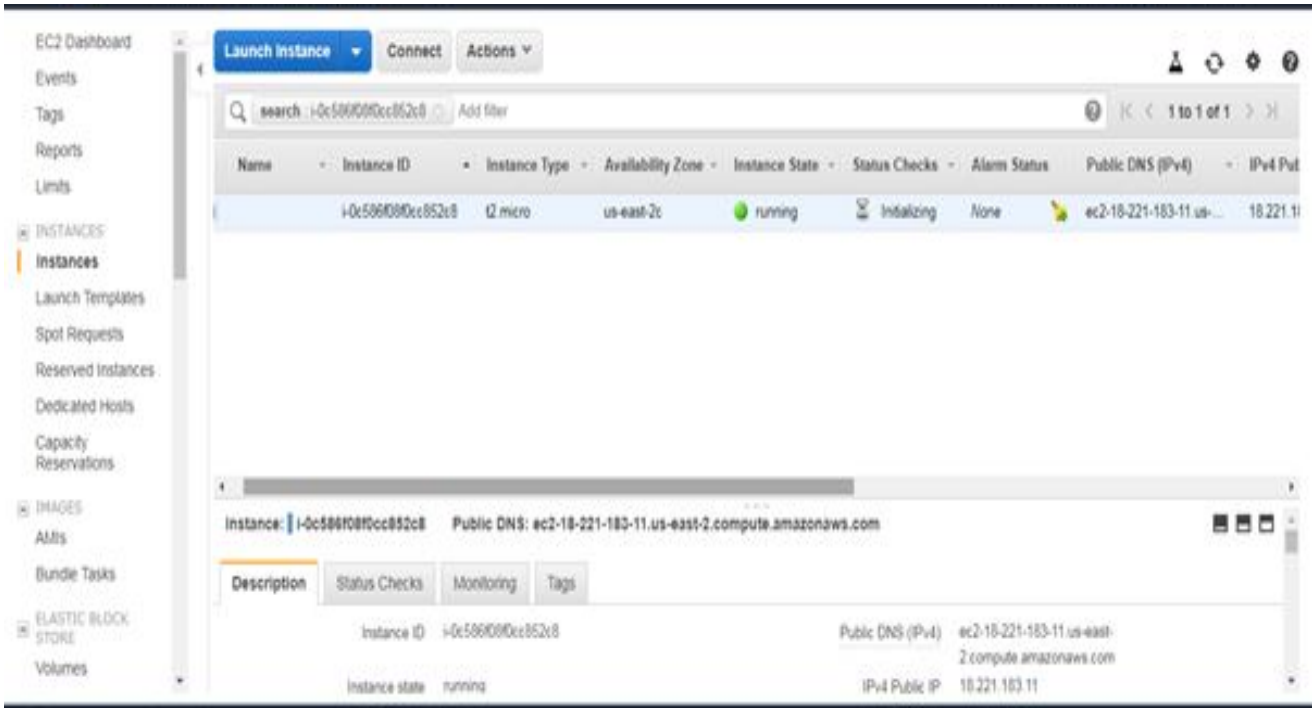
After you download the MyKeyPair key, you will want to store your key in a secure location. If you lose your key, you won't be able to access your instance. If someone else gets access to your key, they will be able to access your instance.



e. Click View Instances on the next screen to view your instances and see the status of the instance you have just started.

f. In a few minutes, the *Instance State* column on your instance will change to "*running*" and a Public IP address will be shown. You can refresh these Instance State columns by pressing the refresh button on the right just above the table. Copy the Public IP address of your AWS instance, so you can use it when we connect to the instance using SSH in Step 3.





Connect to your Instance

After launching your instance, it's time to connect to it using SSH.

Windows users: Select Windows below to see instructions for installing Git Bash which includes SSH.

ssh -i {full path of your .pem file} ec2-user@{instance IP address}

Enter the following:

ssh -i 'c:\Users\yourusername\.ssh\MyKeyPair.pem' ec2-user@{IP_Address}

Example: ssh -i 'c:\Users\adamglic\.ssh\MyKeyPair.pem' ec2-user@52.27.212.125

You'll see a response similar to the following:

```
$ ssh -i'c:\Users\Sony\ec2-user\.ssh\MyKeyPair1.pem' ec2-user@18.221.183.11
The authenticity of host '18.221.183.11 (18.221.183.11)' can't be established.
ECDSA key fingerprint is SHA256:MQRg8ug8nIczay6COjsROv4WZM9zLivHp5OAuM27X1O.
Are you sure you want to continue connecting (yes/no)? yes
Warning: Permanently added '18.221.183.11' (ECDSA) to the list of known hosts.

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https://aws.amazon.com/amazon-linux-2/
15 package(s) needed for security, out of 16 available
Run "sudo yum update" to apply all updates.
[ec2-user@ip-172-31-40-175 ~]$
```