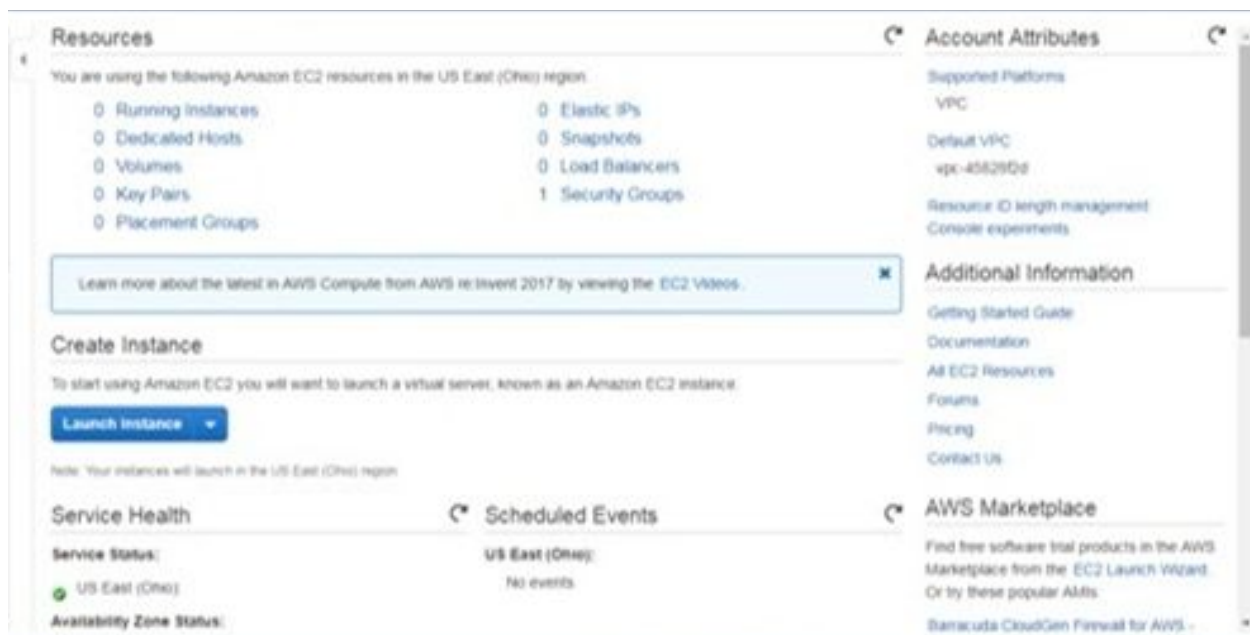


## Virtual Machine

Launch a Linux Virtual Machine then 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.

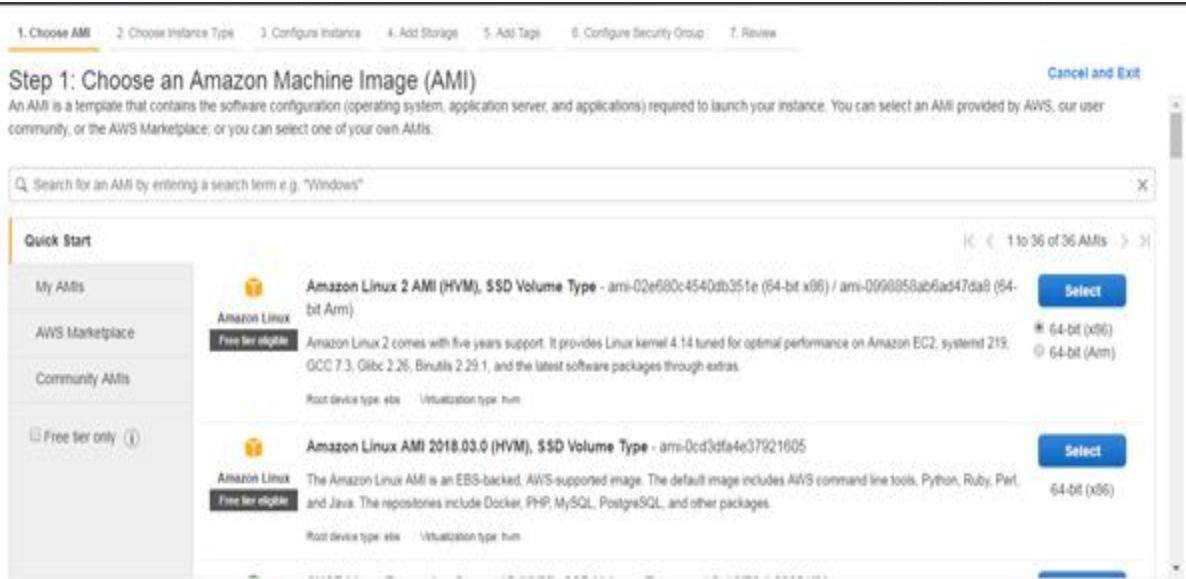


### \* Launch an Instance

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.

1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Add Tags 6. Configure Security Group 7. Review

### Step 2: Choose an Instance Type

Amazon EC2 provides a wide selection of instance types optimized to fit different use cases. Instances are virtual servers that can run applications. They have varying combinations of CPU, memory, storage, and networking capacity, and give you the flexibility to choose the appropriate mix of resources for your applications. [Learn more](#) about instance types and how they can meet your computing needs.

Filter by: All instance types Current generation Show/Hide Columns

Currently selected: t2.micro (Variable ECUs, 1 vCPUs, 2.5 GHz, Intel Xeon Family, 1 GB memory, EBS only)

	Family	Type	vCPUs	Memory (GiB)	Instance Storage (GiB)	EBS-Optimized Available	Network Performance	IPv6 Support
<input type="checkbox"/>	General purpose	t2.nano	1	0.5	EBS only	-	Low to Moderate	Yes
<input checked="" type="checkbox"/>	General purpose	t2.micro	1	1	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	General purpose	t2.xlarge	8	64	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	General purpose	t2.2xlarge	16	128	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	General purpose	t2.4xlarge	32	256	EBS only	-	Low to Moderate	Yes

Micro instances are eligible for the AWS free usage tier. For the first 12 months following your AWS sign-up date, you get up to 750 hours of micro instances each month. When your free usage tier expires or if your usage exceeds the free tier restrictions, you pay standard, pay-as-you-go service rates. [Learn more](#) about free usage tier eligibility and restrictions.

Cancel Previous **Review and Launch** Next: Configure Instance Details

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.

1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Add Tags 6. Configure Security Group 7. Review

### Step 7: Review Instance Launch

Please review your instance launch details. You can edit details for any of the following items.

**AMI Details**

Amazon Linux 2 AMI (HVM), S3-backed, 64-bit x86\_64, latest version

Free tier eligible

Amazon Linux 2 comes with five year latest software packages through extended support.

Root Device Type: ebs Instance Profile: default

**Instance Type**

Instance Type: t2.micro ECUs: Variable

**Security Groups**

sg-xxxxxx

**Select an existing key pair or create a new key pair**

A key pair consists of a **public key** that AWS stores, and a **private key file** that you store. Together, they allow you to connect to your instance securely. For Windows AMIs, the private key file is required to obtain the password used to log into your instance. For Linux AMIs, the private key file allows you to securely SSH into your instance.

Note: The selected key pair will be added to the set of keys authorized for this instance. [Learn more](#) about removing existing key pairs from a public AMI.

Create a new key pair

Key pair name: MyKeyPair1

Download Key Pair

You have to download the **private key file** (\*.pem file) before you can continue. Store it in a secure and accessible location. You will not be able to download the file again after it's created.

Cancel **Launch Instances**

Launch process

Edit AMI

Ubuntu 2.29.1, and the

Edit instance type

Network Performance

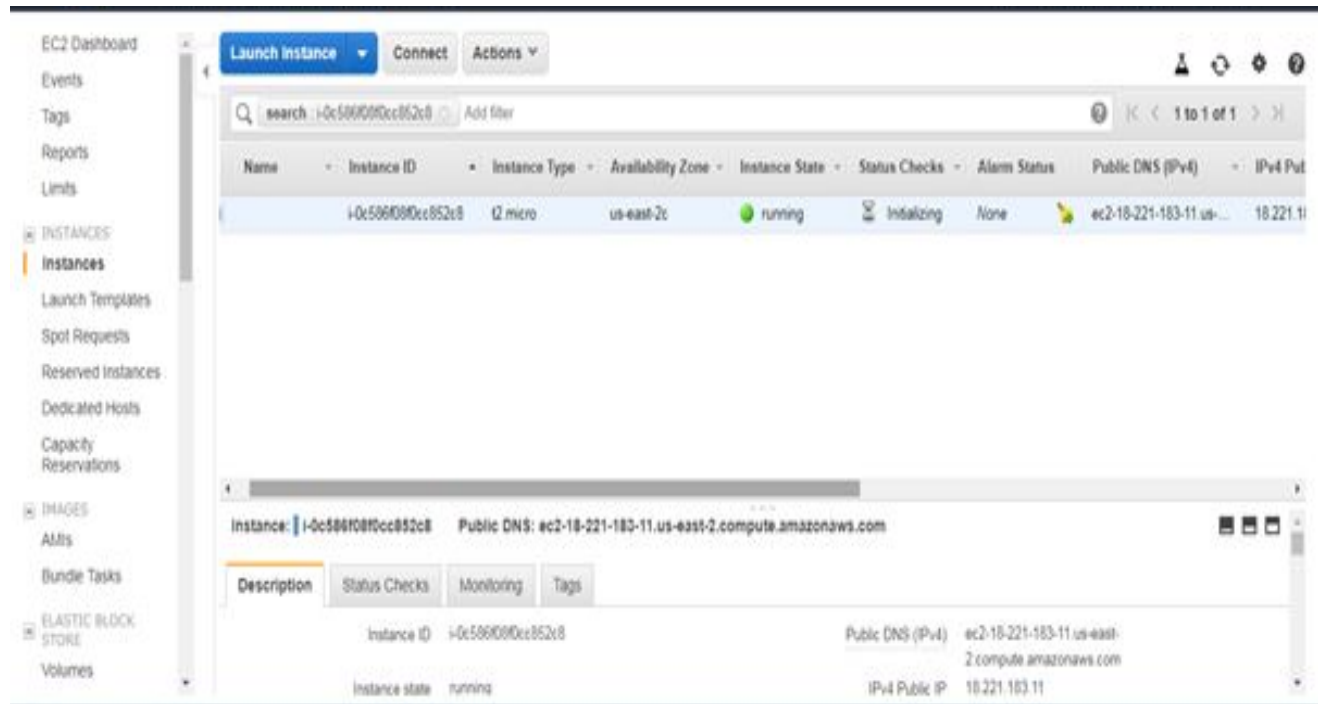
Low to Moderate

Edit security groups

Cancel Previous **Launch**

Feedback English (US)

Privacy Policy Terms of Use



## 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:MQRg8ug8nIczay6C0jsR0v4WZM9zLivHp50AuM27X10.
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.
```

```
 _ | _ | _ )
 _ | (   /   Amazon Linux 2 AMI
 _ | \_ | _ |
```

```
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 ~]$ |
```

