joes-MacBook-Air:Desktop joes$ echo "Now to create an EC2 instance"
Now to create an EC2 instance
joes-MacBook-Air:Desktop joes$
joes-MacBook-Air:Desktop joe$ echo "Click on Launch INstance"
Click on Launch INstance
joes-MacBook-Air:Desktop joe$
Resources

You are using the following Amazon EC2 resources in the US West (Oregon) region:

- 0 Running Instances
- 0 Dedicated Hosts
- 0 Volumes
- 0 Key Pairs
- 0 Placement Groups
- 0 Elastic IPs
- 0 Snapshots
- 0 Load Balancers
- 1 Security Groups

Create Instance

To start using Amazon EC2 you will want to launch a virtual server, known as an Amazon EC2 instance.

Launch Instance

Note: Your instances will launch in the US West (Oregon) region.

Service Health

Service Status:

- US West (Oregon):
  This service is operating normally

Scheduled Events

US West (Oregon):
No events

Additional Information

- Getting Started Guide
- Documentation
- All EC2 Resources
- Forums
- Pricing
- Contact Us

AWS Marketplace

Find free software trial products in the AWS Marketplace from the EC2 Launch Wizard. Or try these...
Step 1: Choose an Amazon Machine Image (AMI)

An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. You can select an AMI provided by AWS, our user community, or the AWS Marketplace; or you can select one of your own AMIs.

Quick Start

<table>
<thead>
<tr>
<th>My AMIs</th>
<th>AWS Marketplace</th>
<th>Community AMIs</th>
</tr>
</thead>
</table>

- **Amazon Linux AMI 2017.03.1 (HVM), SSD Volume Type - ami-aa5ebdd2**
  - Select
  - Free tier eligible
  - The Amazon Linux AMI is an EBS-backed, AWS-supported image. The default image includes AWS command line tools, Python, Ruby, Perl, and Java. The repositories include Docker, PHP, MySQL, PostgreSQL, and other packages.
  - Root device type: ebs
  - Virtualization type: hvm

- **SUSE Linux Enterprise Server 12 SP2 (HVM), SSD Volume Type - amida7e6da3**
  - Select
  - Free tier eligible
  - SUSE Linux Enterprise Server 12 Service Pack 2 (HVM), EBS General Purpose (SSD) Volume Type. Public Cloud, Advanced Systems Management, Web and Scripting, and Legacy modules enabled.
  - Root device type: ebs
  - Virtualization type: hvm
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 GiB memory, EBS only)

General purpose instances provide a balance of compute, memory, and network resources, and are a good choice for many applications. They are recommended for small and medium databases, data processing tasks that require additional memory, caching fleets, and for running backend servers for SAP, Microsoft SharePoint, and other enterprise applications.
joes-MacBook-Air:Desktop joe$ echo "make sure you use free tier"
make sure you use free tier
joes-MacBook-Air:Desktop joe$
joes-MacBook-Air:Desktop joe$ echo "Just click on launch"
Just click on launch
joes-MacBook-Air:Desktop joe$  

Step 7: Review Instance Launch

Please review your instance launch details. You can go back to edit changes for each section. Click Launch to assign a key pair to your instance and complete the launch process.

**AMI Details**

**Ubuntu Server 16.04 LTS (HVM), SSD Volume Type - ami-8e1a0117**

Free tier eligible

Ubuntu Server 16.04 LTS (HVM), EBS General Purpose (SSD) Volume Type. Support available from Canonical (http://www.ubuntu.com/cloud/services).

Root Device Type: ebs  Virtualization type: hvm

**Instance Type**

<table>
<thead>
<tr>
<th>Instance Type</th>
<th>ECUs</th>
<th>vCPUs</th>
<th>Memory (GiB)</th>
<th>Instance Storage (GB)</th>
<th>EBS-Optimized Available</th>
<th>Network Performance</th>
</tr>
</thead>
<tbody>
<tr>
<td>t2.micro</td>
<td>Variable</td>
<td>1</td>
<td>1</td>
<td>EBS only</td>
<td>-</td>
<td>Low to Moderate</td>
</tr>
</tbody>
</table>

**Security Groups**
Choose an existing key pair
Create a new key pair
Proceed without a key pair
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:

mykeypair

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.
joes-MacBook-Air:Downloads joe$ ls -l mykeypair.pem
-rw-r--r---- 1 joe staff 1696 Aug 25 16:21 mykeypair.pem
joes-MacBook-Air:Downloads joe$ echo "That is my downloaded keypair that I created. You use it to login to your vm"
That is my downloaded keypair that I created. You use it to login to your vm
joes-MacBook-Air:Downloads joe$
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.

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Create a new key pair

Key pair name

mykeypair

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.

Launch Instances
Launch Status

✅ Your instances are now launching
The following instance launches have been initiated: i-05111e54a3b0ed7b7  View launch log

⚠️ Get notified of estimated charges
Create billing alerts to get an email notification when estimated charges on your AWS bill exceed an amount you define (for example, if you exceed the free usage tier).

How to connect to your instances

Your instances are launching, and it may take a few minutes until they are in the running state, when they will be ready for you to use. Usage hours on your new instances will start immediately and continue to accrue until you stop or terminate your instances.

Click View Instances to monitor your instances' status. Once your instances are in the running state, you can connect to them from the Instances screen. Find out how to connect to your instances.

🔍 Here are some helpful resources to get you started
- How to connect to your Linux instance
- Amazon EC2 User Guide
joes-MacBook-Air:Downloads joe$ echo "Click on View instances"
Click on View instances
joes-MacBook-Air:Downloads joe$
My ip is 54.202.10.138
According to the web console.
They also have a domain name you could use

My ip is 54.202.10.138
According to the web console.
They also have a domain name you could use
joes-MacBook-Air:Downloads joe$ ssh -i mykeypair.pem ubuntu@54.202.10.138
The authenticity of host '54.202.10.138 (54.202.10.138)' can't be established.
ECDSA key fingerprint is SHA256:Dp4xy3vVpQHlQwsM8Kplj1V1PQ9DvrL2ghpaWqZy5Ws.
Are you sure you want to continue connecting (yes/no)? yes
Warning: Permanently added '54.202.10.138' (ECDSA) to the list of known hosts.

@ WARNING: UNPROTECTED PRIVATE KEY FILE!
Permissions 0644 for 'mykeypair.pem' are too open.
It is required that your private key files are NOT accessible by others.
This private key will be ignored.
Load key "mykeypair.pem": bad permissions
Permission denied (publickey).
joes-MacBook-Air:Downloads joe$
joes-MacBook-Air:Downloads joes$ echo "Have to change permissions of that file"
Have to change permissions of that file
joes-MacBook-Air:Downloads joes$ chmod 400 mykeypair.pem
joes-MacBook-Air:Downloads joes$ ssh -i mykeypair.pem ubuntu@54.202.10.138
Welcome to Ubuntu 16.04.2 LTS (GNU/Linux 4.4.0-1022-aws x86_64)

* 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

0 packages can be updated.
0 updates are security updates.

The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
$ echo "Yay I am logged in!"
Yay I am logged in!
$