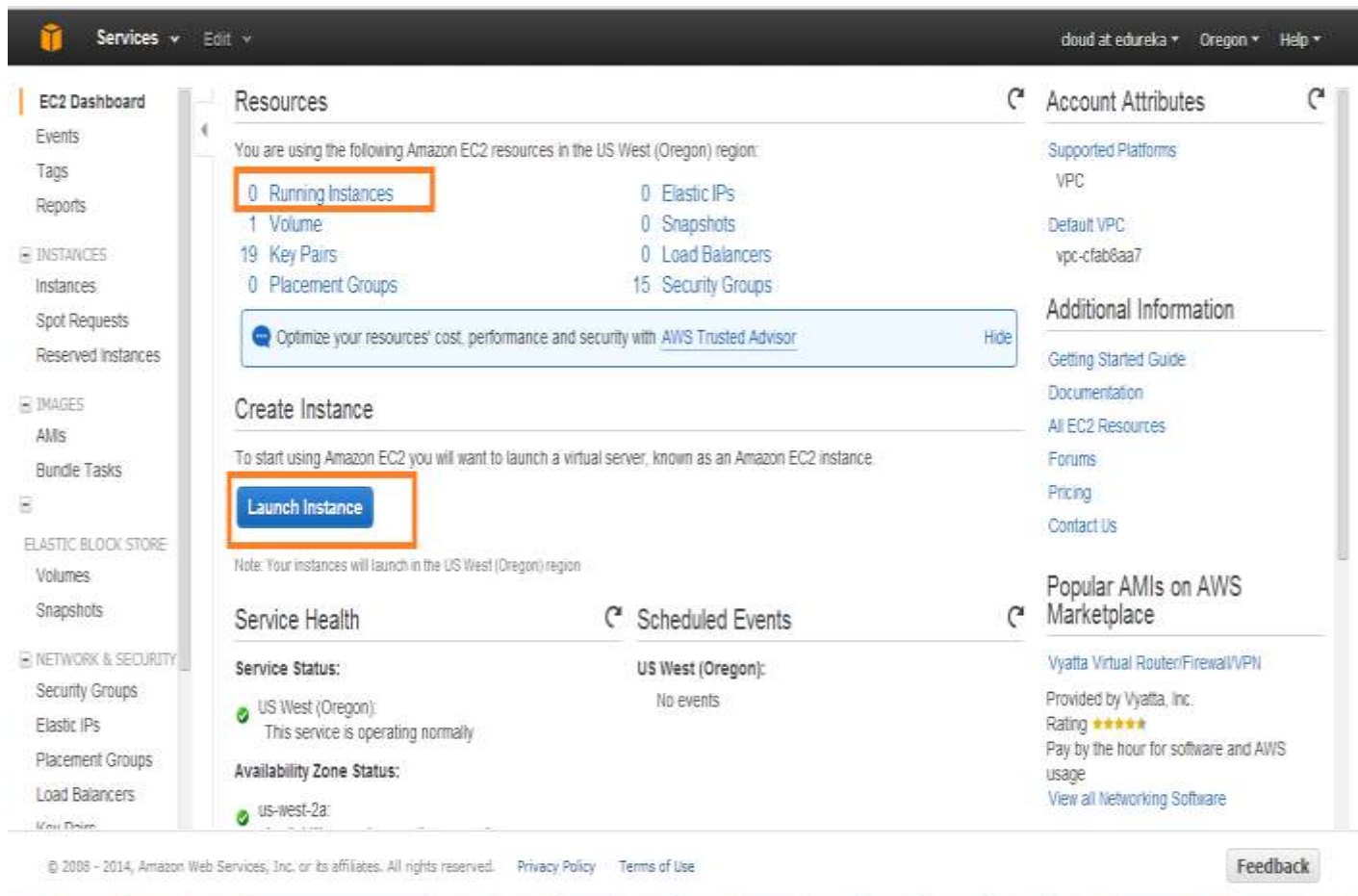


# How to Launch an Amazon AWS EC2 Instance

1. Login to your [AWS Console](#) and select the EC2 Service. It launches the EC2 dashboard. The dashboard shows the current running instances, the available elastic IPs, volumes, snapshots and other details. Click on **“Launch Instance”** to launch the EC2 instance.



2. Select the AMI. The AWS Launch screen provides multiple options to select AMI. The user can select the AMIs provided by AWS (Standard OS)., Select “My AMIs” to launch the instance from the user’s existing AMIs or select community AMIs to launch the instance from various providers (may or may not be authorized by AWS).

1. Choose AMI2. Choose Instance Type3. Configure Instance4. Add Storage5. Tag Instance6. Configure Security Group7. Review

Step 1: Choose an Amazon Machine Image (AMI)

Cancel and Exit

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

My AMIs

AWS Marketplace

Community AMIs

☐ Free tier only ⓘ




Amazon Linux

Free tier eligible

Amazon Linux AMI 2013.09.2 - ami-ccf297fc (64-bit) / ami-def297ee (32-bit)

The Amazon Linux AMI is an EBS-backed, PV-GRUB image. It includes Linux 3.4, AWS tools, and repository access to multiple versions of MySQL, PostgreSQL, Python, Ruby, and Tomcat.

Root device type: ebsVirtualization type: paravirtual




Red Hat

Free tier eligible

Red Hat Enterprise Linux 6.4 (PV) - ami-b8a63b88 (64-bit) / ami-baa63b8a (32-bit)

Red Hat Enterprise Linux version 6.4 (PV), EBS-backed.

Root device type: ebsVirtualization type: paravirtual



SUSE Linux

Free tier eligible

SUSE Linux Enterprise Server 11 sp3 (PV) - ami-d8b429e8 (64-bit) / ami-9eb429ae (32-bit)

SUSE Linux Enterprise Server 11 Service Pack 3 (PV), EBS-backed with Amazon EC2 AMI Tools preinstalled; Apache 2.2, MySQL 5.5, PHP 5.3, and Ruby 1.8.7 available

Root device type: ebsVirtualization type: paravirtual

Select

64-bit32-bit

Select

64-bit32-bit

Select

64-bit32-bit

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Feedback

2. The various instance types are shown in the figure given below. Select the T1 Micro and click on the “Next configuration setting” button.

Services ▾ Edit ▾ cloud at edureka ▾ Oregon ▾ Help ▾

1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Tag Instance 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.

Currently selected: t1.micro (up to 2 ECUs, 1 vCPU, 0.613 GiB memory, EBS only)

All instance types

Micro instances  
Free tier eligible

General purpose

Memory optimized

Storage optimized

Compute optimized

All instances

Select an instance type to suit your requirements

Size	ECUs	vCPUs	Memory (GiB)	Instance Storage (GiB)	EBS-Optimized Available	Network Performance
t1.micro	up to 2	1	0.613	EBS only	-	Very Low
m1.small	1	1	1.7	1 x 160	-	Low
m1.medium	2	1	3.7	1 x 410	-	Moderate
m1.large	4	2	7.5	2 x 420	Yes	Moderate
m1.xlarge	8	4	15	4 x 420	Yes	High
m3.medium	3	1	3.75	1 x 4 (SSD)	-	Moderate

Cancel Previous Review and Launch Next: Configure Instance Details

6. Provide IAM role None and click on Next:Add Storage.

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

## Step 3: Configure Instance Details

Configure the instance to suit your requirements. You can launch multiple instances from the same AMI, request Spot Instances to take advantage of the lower pricing, assign an access management role to the instance, and more.

Number of instances

Purchasing option ☐ Request Spot Instances

Network  [Create new VPC](#)

Subnet  [Create new subnet](#)

Public IP ☒ Automatically assign a public IP address to your instances

IAM role

Shutdown behavior

Enable termination protection ☐ Protect against accidental termination

Monitoring ☐ Enable CloudWatch detailed monitoring

Cancel Previous Review and Launch Next: Add Storage

7. Provide the storage related information. Click on “Add New Volume” to Add new Volume and can Delete by Cross button.

Services Edit cloud at edureka Oregon Help

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

### Step 4: Add Storage

Your instance will be launched with the following storage device settings. You can attach additional EBS volumes and instance store volumes to your instance, or edit the settings of the root volume. You can also attach additional EBS volumes after launching an instance, but not instance store volumes. [Learn more](#) about storage options in Amazon EC2.

Type	Device	Snapshot	Size (GiB)	Volume Type	IOPS	Delete on Termination
Root	/dev/sda1	snap-6415a45a	8	Standard	N/A	<input checked="" type="checkbox"/>
EBS	/dev/sdb	<input type="text" value="Search (case sensitive)"/>	8	Standard	N/A	<input type="checkbox"/>

**Add New Volume**

Free tier eligible customers can get up to 30 GB of EBS storage. [Learn more](#) about free usage tier eligibility and usage restrictions.

Cancel Previous **Review and Launch** Next: Tag Instance

8. Provide the Root Volume Size (cannot be less than 8 GB for Linux) and Volume Type Standard.

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

### Step 4: Add Storage

Your instance will be launched with the following storage device settings. You can attach additional EBS volumes and instance store volumes to your instance, or edit the settings of the root volume. You can also attach additional EBS volumes after launching an instance, but not instance store volumes. [Learn more](#) about storage options in Amazon EC2.

Type	Device	Snapshot	Size (GiB)	Volume Type	IOPS	Delete on Termination
Root	/dev/sda1	snap-6415a45a	8	Standard	N/A	<input checked="" type="checkbox"/>

**Add New Volume**

Free tier eligible customers can get up to 30 GB of EBS storage. [Learn more](#) about free usage tier eligibility and usage restrictions.

Cancel Previous **Review and Launch** **Next: Tag Instance**

9. Provide the tags for the AWS instance. Tagging is very useful when the user wants to track the cost of a particular instance / service.



## For Existing Key-Pair

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

### Step 6: Configure Security Group

A security group is a set of firewall rules that control the traffic for your instance. On this page, you can add rules to allow specific traffic to reach your instance. For example, if you want to set up a web server and allow Internet traffic to reach your instance, add rules that allow unrestricted access to the HTTP and HTTPS ports. You can create a new security group or select from an existing one below. [Learn more about Amazon EC2 security groups.](#)

Assign a security group: ☐ Create a new security group ☒ Select an existing security group

Security Group ID	Name	Description	Actions
<input type="checkbox"/> sg-fe46aa91	akanksha	akanksha	<a href="#">Copy to new</a>
<input type="checkbox"/> sg-38c23657	Ashish_Security	Test	<a href="#">Copy to new</a>
<input type="checkbox"/> sg-95d331fa	default	default VPC security group	<a href="#">Copy to new</a>
<input type="checkbox"/> sg-ed07f082	EC2	TEST	<a href="#">Copy to new</a>
<input type="checkbox"/> sg-9306f1fc	EC2-1	TEST	<a href="#">Copy to new</a>
<input type="checkbox"/> sg-1a9b7475	Edureka	Edureka	<a href="#">Copy to new</a>
<input checked="" type="checkbox"/> sg-fd17f592	edureka_training	Edureka Training	<a href="#">Copy to new</a>

Select a security group above to view its inbound rules.

Cancel Previous **Review and Launch**

11. Select the security group. The security group provides the virtual firewall for the user's instance. Open only the ports for the specific IPs as per the user's requirement. Click on "Review and Launch".

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

### Step 6: Configure Security Group

<input type="checkbox"/> sg-38c23657	Ashish_Security	Test	<a href="#">Copy to new</a>
<input type="checkbox"/> sg-95d331fa	default	default VPC security group	<a href="#">Copy to new</a>
<input type="checkbox"/> sg-ed07f082	EC2	TEST	<a href="#">Copy to new</a>
<input type="checkbox"/> sg-9306f1fc	EC2-1	TEST	<a href="#">Copy to new</a>
<input type="checkbox"/> sg-1a9b7475	Edureka	Edureka	<a href="#">Copy to new</a>
<input checked="" type="checkbox"/> sg-fd17f592	edureka_training	Edureka Training	<a href="#">Copy to new</a>
<input type="checkbox"/> sg-98e413f7	HA	HA	<a href="#">Copy to new</a>
<input type="checkbox"/> sg-689a7507	Hadoop2	Hadoop2	<a href="#">Copy to new</a>
<input type="checkbox"/> sg-4c9a7523	Hadoop3	Hadoop3	<a href="#">Copy to new</a>
<input type="checkbox"/> sg-0115e1fe	linux-111	test group	<a href="#">Copy to new</a>

Inbound rules for sg-fd17f592

Type	Protocol	Port Range	Source
SSH	TCP	22	0.0.0.0/0
HTTP	TCP	80	0.0.0.0/0

Cancel Previous **Review and Launch**

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12. Review all the details and click on "Launch".

The screenshot shows the AWS Management Console interface for launching an instance. The top navigation bar includes 'Services', 'Edit', and user information. A progress bar at the top indicates the current step is '7. Review'. The main content area is titled 'Step 7: Review Instance Launch' and contains three sections: 'AMI Details', 'Instance Type', and 'Security Groups'. In the 'AMI Details' section, the 'Amazon Linux AMI 2013.09.2 - ami-ccf297fc' is selected. The 'Instance Type' section shows a table with 't1.micro' selected. The 'Security Groups' section shows 'sg-fd17f592' selected. At the bottom right, the 'Launch' button is highlighted with an orange box.

Services Edit cloud at edureka Oregon Help

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

### Step 7: Review Instance Launch

AMI Details [Edit AMI](#)

**Amazon Linux AMI 2013.09.2 - ami-ccf297fc**

**Free tier eligible** The Amazon Linux AMI is an EBS-backed, PV-GRUB image. It includes Linux 3.4, AWS tools, and repository access to multiple versions of MySQL, PostgreSQL, Python, Ruby, and Tomcat.

Root Device Type: ebs Virtualization type: paravirtual

Instance Type [Edit instance type](#)

Instance Type	ECUs	vCPUs	Memory (GiB)	Instance Storage (GiB)	EBS-Optimized Available	Network Performance
t1.micro	up to 2	1	0.613	EBS only	-	Very Low

Security Groups [Edit security groups](#)

Security Group ID	Name	Description
sg-fd17f592	edureka_training	Edureka Training

[Cancel](#) [Previous](#) [Launch](#)

13. AWS will launch the instance and provide the user with the ID of the instance.

The screenshot shows a dialog box titled 'Select an existing key pair or create a new key pair'. It contains a paragraph explaining what a key pair is and how it is used to connect to an instance. Below the text, there is a dropdown menu labeled 'Choose an existing key pair' with '12345' selected. At the bottom right, the 'Launch Instances' button is highlighted with an orange box.

### 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.

Choose an existing key pair


Select a key pair

12345


☒ I acknowledge that I have access to the selected private key file (12345.pem), and that without this file, I won't be able to log into my instance.

[Cancel](#) [Launch Instances](#)

## Launch Status

 **Your instance is now launching**

The following instance launch has been initiated: [i-957b1f9c](#) [View launch log](#)

 **Get notified of estimated charges**

[Create billing alerts](#) to get an email notification when estimated charges on your AWS bill exceed \$0.0 (in other words, when you have exceeded the free usage tier).

How to connect to your instance

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

Click **View Instances** to monitor your instance's status. Once your instance is in the **running** state, you can **connect** to it from the Instances screen. [Find out how to connect to your instance.](#)

▼ Here are some helpful resources to get you started

- [How to connect to your Linux instance](#)
- [Amazon EC2: User Guide](#)
- [Learn about AWS Free Usage Tier](#)
- [Amazon EC2: Discussion Forum](#)

While your instances are launching you can also

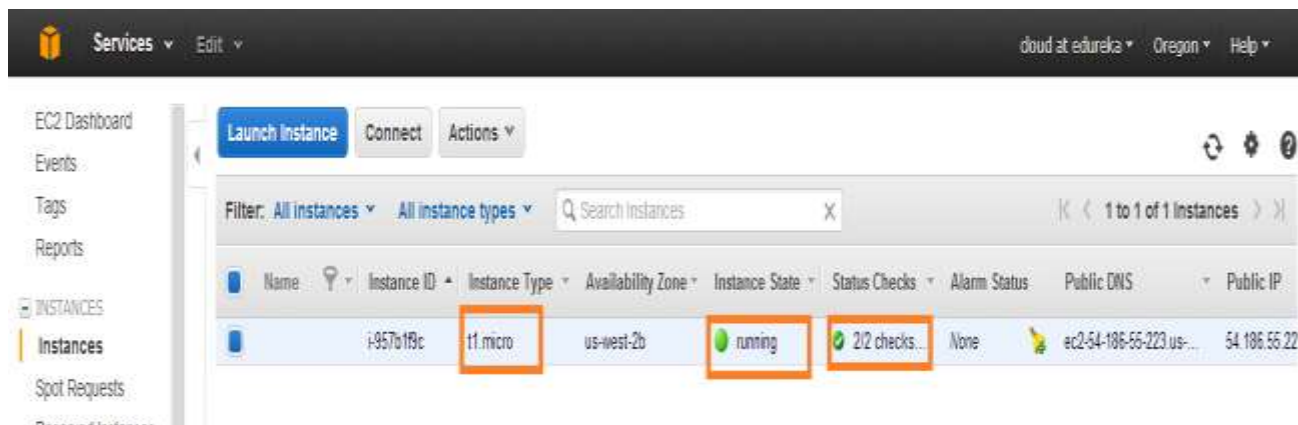
- [Create status check alarms](#) to be notified when these instances fail status checks. (Additional charges may apply)
- [Create and attach additional EBS volumes](#) (Additional charges may apply)

While your instances are launching you can also

- [Create status check alarms](#) to be notified when these instances fail status checks. (Additional charges may apply)
- [Create and attach additional EBS volumes](#) (Additional charges may apply)
- [Manage security groups](#)

**View Instances**

14. Go to the AWS EC2 console and it will display the new instance. The instance will be first in a running State. It is advisable to connect to the instance once the status checks are in "2/2 Checks".



The screenshot shows the AWS Management Console interface for the EC2 console. The top navigation bar includes the AWS logo, 'Services', 'Edit', and user information 'cloud at edureka', 'Oregon', and 'Help'. The left sidebar shows the navigation menu with 'EC2 Dashboard', 'Events', 'Tags', 'Reports', and 'INSTANCES'. Under 'INSTANCES', 'Instances' is selected. The main content area shows the 'Launch Instance' button, 'Connect' button, and 'Actions' dropdown. Below this is a filter bar with 'Filter: All instances', 'All instance types', and a search box. The instance list table has columns: Name, Instance ID, Instance Type, Availability Zone, Instance State, Status Checks, Alarm Status, Public DNS, and Public IP. The table contains one instance: 'i-957b1f9c' with type 't1.micro', availability zone 'us-west-2b', state 'running', and status checks '2/2 checks...'. The 'Instance ID', 'Instance Type', 'Instance State', and 'Status Checks' columns for this instance are highlighted with orange boxes.

Name	Instance ID	Instance Type	Availability Zone	Instance State	Status Checks	Alarm Status	Public DNS	Public IP
	i-957b1f9c	t1.micro	us-west-2b	running	2/2 checks...	None	ec2-54-186-55-223.us-...	54.186.55.22



15. Previously, it was showing 0 running instance on EC2 Dashboard. now it is showing running instance 1.

The screenshot displays the AWS Management Console's EC2 Dashboard. On the left, a navigation sidebar lists categories like EC2 Dashboard, INSTANCES, IMAGES, ELASTIC BLOCK STORE, and NETWORK & SECURITY. The main content area is titled 'Resources' and states 'You are using the following Amazon EC2 resources in the US West (Oregon) region'. A table lists these resources: 1 Running Instance (highlighted with an orange box), 2 Volumes, 19 Key Pairs, 0 Placement Groups, 0 Elastic IPs, 0 Snapshots, 0 Load Balancers, and 15 Security Groups. Below this is a 'Create Instance' section with a 'Launch Instance' button. To the right, the 'Account Attributes' panel shows 'Supported Platforms' as 'vPC' and 'Default VPC' as 'vpc-ctab8aa7'. The 'Additional Information' panel includes links for 'Getting Started Guide', 'Documentation', 'All EC2 Resources', 'Forums', 'Pricing', and 'Contact Us'. The 'Popular AMIs on AWS Marketplace' panel features 'Vyatta Virtual Router/Firewall/VPN'.

**EC2 Dashboard**

- Events
- Tags
- Reports

**INSTANCES**

- Instances
- Spot Requests
- Reserved Instances

**IMAGES**

- AMIs
- Bundle Tasks

**ELASTIC BLOCK STORE**

- Volumes
- Snapshots

**NETWORK & SECURITY**

- Security Groups
- Elastic IPs
- Placement Groups
- Load Balancers

**Resources**

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

1 Running Instance	0 Elastic IPs
2 Volumes	0 Snapshots
19 Key Pairs	0 Load Balancers
0 Placement Groups	15 Security Groups

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**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

**Availability Zone Status:**

**Scheduled Events**

US West (Oregon): No events

**Account Attributes**

**Supported Platforms**

vPC

**Default VPC**

vpc-ctab8aa7

**Additional Information**

- [Getting Started Guide](#)
- [Documentation](#)
- [All EC2 Resources](#)
- [Forums](#)
- [Pricing](#)
- [Contact Us](#)

**Popular AMIs on AWS Marketplace**

[Vyatta Virtual Router/Firewall/VPN](#)

Provided by Vyatta, Inc.

Rating ★★★★★

Pay by the hour for software and AWS usage

[View all Amazon's Software](#)