

# How to set up an Amazon EC2 Instance

This document shows how to create an amazon instance of the Computer-Aided Discovery Software

# 1. Login to the EC2 console. Click Running Instances.

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

3 Running Instances

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0 Dedicated Hosts

6 Snapshots

11 Volumes

0 Load Balancers

6 Key Pairs

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0 Placement Groups

Build and run distributed, fault-tolerant applications in the cloud with Amazon Simple Workflow Service.

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:

us-west-2a:

Availability zone is operating normally

us-west-2b:

Availability zone is operating normally

us-west-2c:

Availability zone is operating normally

Service Health Dashboard

Scheduled Events

US West (Oregon):

No events

Account Attributes

Supported Platforms

VPC

Default VPC

vpc-6907a90c

Resource ID length management

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 popular AMIs:

Tableau Server (10 users)

Provided by Tableau

Rating ★★★★★

Pay by the hour for Tableau software and AWS usage

View all Business Intelligence

SAP HANA One 244GB

Provided by SAP Inc (CAE)

Rating ★★★★★

Pay by the hour for SAP HANA One 244GiB software and AWS usage

View all Business Intelligence

TIBCO Spotfire® Analytics Platform (Hourly)

Provided by TIBCO Software, Inc.

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2. Previously created instances are shown. Click Launch Instance.

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Actions

Filter by tags and attributes or search by keyword

	Name	Instance ID	Instance Type	Availability Zone	Instance State	Status Checks	Alarm Status	Public DNS	Public IP	Key Name
<input type="checkbox"/>	Soubhik	i-36da2499	c4.xlarge	us-west-2a	running	2/2 checks ...	None	ec2-52-39-70-45.us-we...	52.39.70.45	Soubhik
<input type="checkbox"/>	BU-Mahali	i-7618b9ab	t2.medium	us-west-2c	running	2/2 checks ...	None	ec2-52-24-75-195.us-w...	52.24.75.195	BU-Mahali
<input type="checkbox"/>	NASA Eval	i-69da12b4	t2.large	us-west-2c	running	2/2 checks ...	None	ec2-52-40-108-76.us-w...	52.40.108.76	nasaeval
<input type="checkbox"/>	CADSYSTEM	i-279965e0	t2.large	us-west-2a	stopped		None			cadsystem
<input type="checkbox"/>	BU-Mahali	i-097772d1	t2.medium	us-west-2b	stopped		None			BU-Mahali
<input type="checkbox"/>	rinex	i-5f517653	t2.micro	us-west-2b	stopped		No Data			ec2keypair
<input type="checkbox"/>	myStack	i-ca7869c0	m1.small	us-west-2a	stopped		None			ec2keypair
<input type="checkbox"/>	owncloud	i-db42b0d4	m1.small	us-west-2b	stopped		None			ec2keypair

Select an instance above

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3. Select the CAD system AMI. Click on Community AMIs. Then type in our AMI id in the search box. Click Select.

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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 2016.03.2 (HVM), SSD Volume Type** - ami-f303fb93

Select

64-bit

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: ebsVirtualization type: hvm

**Red Hat**  
Free tier eligible

**Red Hat Enterprise Linux 7.2 (HVM), SSD Volume Type** - ami-775e4f16

Select

64-bit

Red Hat Enterprise Linux version 7.2 (HVM), EBS General Purpose (SSD) Volume Type

Root device type: ebsVirtualization type: hvm

**SUSE Linux**  
Free tier eligible

**SUSE Linux Enterprise Server 12 SP1 (HVM), SSD Volume Type** - ami-d2627db3

Select

64-bit

SUSE Linux Enterprise Server 12 Service Pack 1 (HVM), EBS General Purpose (SSD) Volume Type. Public Cloud, Advanced Systems Management, Web and Scripting, and Legacy modules enabled.

Root device type: ebsVirtualization type: hvm

**Ubuntu**  
Free tier eligible

**Ubuntu Server 14.04 LTS (HVM), SSD Volume Type** - ami-9abea4fb

Select

64-bit

Ubuntu Server 14.04 LTS (HVM), EBS General Purpose (SSD) Volume Type. Support available from Canonical (<http://www.ubuntu.com/cloud/services>).

Root device type: ebsVirtualization type: hvm

**Windows**  
Free tier eligible

**Microsoft Windows Server 2012 R2 Base** - ami-8db945ed

Select

64-bit

Microsoft Windows 2012 R2 Standard edition with 64-bit architecture. [English]

Root device type: ebsVirtualization type: hvm

**Are you launching a database instance? Try Amazon RDS.**


Hide

Amazon Relational Database Service (RDS) makes it easy to set up, operate, and scale a relational database of your choice (MySQL, PostgreSQL, Oracle, SQL Server) in the cloud. It provides cost-efficient and resizable capacity while managing time-consuming database management tasks, freeing you up to focus on your applications and business.

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4. Choose an instance type. The type depends on your workload. Here we have selected t2.medium. For descriptions of instance types, click here. After it has been selected, click Next: Configure Instance Details.

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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 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.medium (Variable ECUs, 2 vCPUs, 2.5 GHz, Intel Xeon Family, 4 GiB memory, EBS only)

	Family <span>▼</span>	Type <span>▼</span>	vCPUs <span>i</span> <span>▼</span>	Memory (GiB) <span>▼</span>	Instance Storage (GB) <span>i</span> <span>▼</span>	EBS-Optimized Available <span>i</span> <span>▼</span>	Network Performance <span>i</span> <span>▼</span>
<input type="checkbox"/>	General purpose	t2.nano	1	0.5	EBS only	-	Low to Moderate
<input type="checkbox"/>	General purpose	t2.micro Free tier eligible	1	1	EBS only	-	Low to Moderate
<input type="checkbox"/>	General purpose	t2.small	1	2	EBS only	-	Low to Moderate
<input checked="" type="checkbox"/>	General purpose	t2.medium	2	4	EBS only	-	Low to Moderate
<input type="checkbox"/>	General purpose	t2.large	2	8	EBS only	-	Low to Moderate
<input type="checkbox"/>	General purpose	m4.large	2	8	EBS only	Yes	Moderate
<input type="checkbox"/>	General purpose	m4.xlarge	4	16	EBS only	Yes	High
<input type="checkbox"/>	General purpose	m4.2xlarge	8	32	EBS only	Yes	High
<input type="checkbox"/>	General purpose	m4.4xlarge	16	64	EBS only	Yes	High
<input type="checkbox"/>	General purpose	m4.10xlarge	40	160	EBS only	Yes	10 Gigabit
<input type="checkbox"/>	General purpose	m3.medium	1	3.75	1 x 4 (SSD)	-	Moderate
<input type="checkbox"/>	General purpose	m3.large	2	7.5	1 x 32 (SSD)	-	Moderate
<input type="checkbox"/>	General purpose	m3.xlarge	4	15	2 x 40 (SSD)	Yes	High

Cancel

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Review and Launch

Next: Configure Instance Details

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5. Configure the instance details. For most workloads, instance tenancy can be shared. Click Next: Add Storage.

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### 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

1

Launch into Auto Scaling Group

Purchasing option

☐ Request Spot instances

Network

vpc-6907a90c (172.31.0.0/16) (default)

Create new VPC

Subnet

No preference (default subnet in any Availability Zone)

Create new subnet

Auto-assign Public IP

Use subnet setting (Enable)

IAM role

None

Create new IAM role

Shutdown behavior

Stop

Enable termination protection

☐ Protect against accidental termination

Monitoring

☐ Enable CloudWatch detailed monitoring

Additional charges apply.

Tenancy

Shared - Run a shared hardware instance

Additional charges will apply for dedicated tenancy.

Advanced Details

Cancel

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6. Add storage to the instance. Here we have selected an 8 GB general purpose SSD. The storage will be automatically mounted to the instance. Click Next: Tag Instance.

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### 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.

Volume Type <span>i</span>	Device <span>i</span>	Snapshot <span>i</span>	Size (GiB) <span>i</span>	Volume Type <span>i</span>	IOPS <span>i</span>	Throughput (MB/s) <span>i</span>	Delete on Termination <span>i</span>	Encrypted <span>i</span>
Root	/dev/sda1	snap-306df873	8	General Purpose SSD (GP2)	100 / 3000	N/A	<input checked="" type="checkbox"/>	Not Encrypted

Add New Volume

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

7. Tagging the instance is optional, we leave this blank. Click Next: Configure Security Group.

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### Step 5: Tag Instance

A tag consists of a case-sensitive key-value pair. For example, you could define a tag with key = Name and value = Webserver. [Learn more](#) about tagging your Amazon EC2 resources.

Key (127 characters maximum)	Value (255 characters maximum)
<input type="text" value="Name"/>	<input type="text"/>

**Create Tag** (Up to 10 tags maximum)

[Cancel](#) [Previous](#) [Review and Launch](#) **Next: Configure Security Group**

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8. Configure the security group. The security group determines who can access the machine, and acts as a firewall, blocking traffic coming from unwanted IP addresses. We use a preexisting security group. Click Review and Launch.

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### 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	Name	Description
<input type="checkbox"/>	sg-c8ac59ac @sc-mycluster	StarCluster-0_95_6
<input checked="" type="checkbox"/>	sg-21c52246cadamazon	cad system
<input type="checkbox"/>	sg-4ddb8328default	default VPC security group
<input type="checkbox"/>	sg-d2dc84b7launch-wizard-1	launch-wizard-1 created 2015-02-10T15:35:28.200-05:00
<input type="checkbox"/>	sg-2ede864blaunch-wizard-2	launch-wizard-2 created 2015-02-10T15:51:55.293-05:00
<input type="checkbox"/>	sg-e47f2481 launch-wizard-3	launch-wizard-3 created 2015-02-11T12:53:16.414-05:00
<input type="checkbox"/>	sg-1e7c277b launch-wizard-4	launch-wizard-4 created 2015-02-11T13:14:59.160-05:00
<input type="checkbox"/>	sg-164c6b73myStack-WebServerSecurityGroup-1S37AXX006MM1	Enable HTTP access via port 80
<input type="checkbox"/>	sg-df5564ba ownCloud - Share files- music- calendar provided by TurnKey Linux-13-0--AutogenByAWSMP-This security group was generated by AWS Marketplace and is based on recommended settings for ownCloud - Share files musi	
<input type="checkbox"/>	sg-81075de4webserver access	webserver access

Inbound rules for sg-21c52246 (Selected security groups: sg-21c52246)

Type <i>i</i>	Protocol <i>i</i>	Port Range <i>i</i>	Source <i>i</i>
All traffic	All	All	0.0.0.0/0

# Access the Instance

After the instance has finished starting up, the system may be accessed using

`https://host_address:8000`

where the `host_address` is the public IP of the instance

The credentials for logging in are

Login Name: `user1`

Password: `CADcompute!`



Sign In

Username:

Password:

Sign In