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EC2 > Instances > Launch an instance

## Launch an instance

Amazon EC2 allows you to create virtual machines, or instances, that run on the AWS Cloud. Quickly get started by following the simple steps below.

### Name and tags

Name

My-server-1

Add additional tags

### Application and OS Images (Amazon Machine Image)

An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. Search or Browse for AMIs if you don't see what you are looking for below

Search our full catalog including 1000s of application and OS images

Recents

Quick Start

Amazon Linux

macOS

Ubuntu

Windows

Red Hat

5

### Summary

Number of instances

1

Software Image (AMI)

Canonical, Ubuntu, 22.04 LTS, ...read more

ami-0557a15b87f6559cf

Virtual server type (instance type)

t2.micro

Firewall (security group)

New security group

Storage (volumes)

1 volume(s) - 8 GiB

Free tier: In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) instance usage on free tier

Cancel

Launch instance

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Application and OS Images (Amazon Machine Image)

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Browse more AMIs

Including AMIs from AWS, Marketplace and the Community

Amazon Machine Image (AMI)

Ubuntu Server 22.04 LTS (HVM), SSD Volume Type

ami-0557a15b87f6559cf (64-bit (x86)) / ami-0f9bd9098aca2d42b (64-bit (Arm))

Virtualization: hvm ENA enabled: true Root device type: ebs

Free tier eligible

Description

Canonical, Ubuntu, 22.04 LTS, amd64 jammy image build on 2023-02-08

Architecture

AMI ID

Verified provider

64-bit (x86)

ami-0557a15b87f6559cf

### Summary

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On-Demand Windows pricing: 0.0162 USD per Hour

On-Demand SUSE pricing: 0.0116 USD per Hour

On-Demand RHEL pricing: 0.0716 USD per Hour

On-Demand Linux pricing: 0.0116 USD per Hour

Key pair (login)

You can use a key pair to securely connect to your instance. Ensure the instance.

Key pair name - required

My-instance-keypair

Network settings

VPC - required

vpc-06650ced2ea777ae7

172.31.0.0/16

Subnet

subnet-06428c4144baec53e

VPC vpc-06650ced2ea777ae7

Domain: 328718778235

Availability Zone: us-east-1b

IP addresses available: 4091

Auto-assign public IP

Enable

Create key pair

Key pairs allow you to connect to your instance securely.

Enter the name of the key pair below. When prompted, store the private key in a secure and accessible location on your computer. You will need it later to connect to your instance. [Learn more](#)

Key pair name

MY-instance-keypair-1

The name can include up to 255 ASCII characters. It can't include leading or trailing spaces.

Key pair type

☒ RSA

RSA encrypted private and public key pair

☐ ED25519

ED25519 encrypted private and public key pair (Not supported for Windows instances)

Private key file format

☒ .pem

For use with OpenSSH

☐ .ppk

For use with PuTTY

Cancel

Create key pair

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Instance type

Instance type

t2.micro

Family: t2

1 vCPU

1 GiB Memory

On-Demand Windows pricing: 0.0162 USD per Hour

On-Demand SUSE pricing: 0.0116 USD per Hour

On-Demand RHEL pricing: 0.0716 USD per Hour

On-Demand Linux pricing: 0.0116 USD per Hour

Free tier eligible

Compare instance types

Key pair (login)

You can use a key pair to securely connect to your instance. Ensure that you have access to the selected key pair before you launch the instance.

Key pair name - required

MY-instance-keypair-1

Create new key pair

Network settings

Configure storage

Advanced

1x

8

GiB

gp2

Root volume (Not encrypted)

Summary

Number of instances

1

Software Image (AMI)

Canonical, Ubuntu, 22.04 LTS, [read more](#)

ami-0557a15b87f6559cf

Virtual server type (instance type)

t2.micro

Firewall (security group)

server-sg-1

Storage (volumes)

1 volume(s) - 8 GiB

Free tier: In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) instance usage on free tier

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Launch instance

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▼ Network settings Info

VPC - required Info

vpc-06650ced2ea777ae7 (default)

Subnet Info

subnet-0dd4b6c6342544ab0  
VPC: vpc-06650ced2ea777ae7 Owner: 228718778226 Availability Zone: us-east-1f  
IP addresses available: 4091 CIDR: 172.31.64.0/20

Auto-assign public IP Info

Enable

Firewall (security groups) Info

A security group is a set of firewall rules that control the traffic for your instance. Add rules to allow specific traffic to reach your instance.

Create security group Select existing security group

Security group name - required

server-tsg

This security group will be added to all network interfaces. The name can't be edited after the security group is created. Max length is 255 characters. Valid characters: a-z, A-Z, 0-9, spaces, and \_-./!@#%&'()\*~+-=,;:[]{}|`~\*

Description - required Info

launch-wizard-1 created 2023-03-02T04:26:00.313Z

Inbound security groups rules

▼ Summary

Number of instances Info

1

Software Image (AMI)

Amazon Linux 2 Kernel 5.10 AMI...read more  
ami-006dcf34c09e50022

Virtual server type (instance type)

t2.micro

Firewall (security group)

New security group

Storage (volumes)

1 volume(s) - 8 GiB

Free tier: In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) instance usage on free tier.  
Make sure you meet 30 CPU or GPU instance

Cancel Launch instance

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▼ Security group rule 1 (TCP, 22, 0.0.0.0/0)

Remove

Type Info

ssh

Protocol Info

TCP

Port range Info

22

Source type Info

Anywhere

Source Info

0.0.0.0/0

Description - optional Info

e.g. SSH for admin desktop

▼ Security group rule 2 (TCP, 80, 0.0.0.0/0)

Remove

Type Info

HTTP

Protocol Info

TCP

Port range Info

80

Source type Info

Anywhere

Source Info

0.0.0.0/0

Description - optional Info

e.g. SSH for admin desktop

▼ Security group rule 3 (TCP, 443, 0.0.0.0/0)

Remove

Type Info

HTTPS

Protocol Info

TCP

Port range Info

443

Source type Info

Anywhere

Source Info

0.0.0.0/0

Description - optional Info

e.g. SSH for admin desktop

▼ Summary

Number of instances Info

1

Software Image (AMI)

Amazon Linux 2 Kernel 5.10 AMI...read more  
ami-006dcf34c09e50022

Virtual server type (instance type)

t2.micro

Firewall (security group)

New security group

Storage (volumes)

1 volume(s) - 8 GiB

Free tier: In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) instance usage on free tier AMIs per month, 30 GiB of EBS storage, 2 million I/Os, 1 GiB of snapshots, and 100 GiB of bandwidth to the internet.

Cancel Launch instance

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New EC2 Experience

EC2 Dashboard

EC2 Global View

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Instances

Instance Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances

Dedicated Hosts

Scheduled Instances

Capacity Reservations

Images

AMIs

AMI Catalog

Successfully terminated i-090fe9e2eaf85c39d

Instances (1/3) Info

Find instance by attribute or tag (case-sensitive)

	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 D
<input type="checkbox"/>	My-server-1	i-04e5f7d2e91fb21ec	Terminated	t2.micro	-	No alarms	us-east-1b	-
<input checked="" type="checkbox"/>	My-server-1	i-08615ea257eb28bd2	Running	t2.micro	2/2 checks passed	No alarms	us-east-1f	ec2-3-236-96
<input type="checkbox"/>	My-server-1	i-090fe9e2eaf85c39d	Terminated	t2.micro	-	No alarms	us-east-1f	-

Instance: i-08615ea257eb28bd2 (My-server-1)

Details

Security

Networking

Storage

Status checks

Monitoring

Tags

Instance summary Info

Instance ID

i-08615ea257eb28bd2 (My-server-1)

IPv6 address

-

Hostname type

IP name: ip-172-31-69-0.ec2.internal

Answer private resource DNS name

IPv4 (A)

Public IPv4 address

3.236.96.93 | open address

Instance state

Running

Private IP DNS name (IPv4 only)

ip-172-31-69-0.ec2.internal

Instance type

t2.micro

Private IPv4 addresses

172.31.69.0

Public IPv4 DNS

ec2-3-236-96-93.compute-1.amazonaws.com | open address

Elastic IP addresses

-

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Connect to instance Info

Connect to your instance i-08615ea257eb28bd2 (My-server-1) using any of these options

EC2 Instance Connect

Session Manager

SSH client

EC2 serial console

Instance ID

i-08615ea257eb28bd2 (My-server-1)

1. Open an SSH client.

2. Locate your private key file. The key used to launch this instance is MY-instance-keypair-1.pem

3. Run this command, if necessary, to ensure your key is not publicly viewable.

chmod 400 MY-instance-keypair-1.pem

4. Connect to your instance using its Public DNS:

ec2-3-236-96-93.compute-1.amazonaws.com

Example:

ssh -i "MY-instance-keypair-1.pem" ubuntu@ec2-3-236-96-93.compute-1.amazonaws.com

Note: In most cases, the guessed user name is correct. However, read your AMI usage instructions to check if the AMI owner has changed the default AMI user name.

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```
ubuntu@ip-172-31-69-0: ~
Microsoft Windows [Version 10.0.19045.2604]
(c) Microsoft Corporation. All rights reserved.

C:\Users\hp>cd downloads

C:\Users\hp>Downloads>ssh -i "MY-instance-keypair-1.pem" ubuntu@ec2-3-236-96-93.compute-1.amazonaws.com
The authenticity of host 'ec2-3-236-96-93.compute-1.amazonaws.com (3.236.96.93)' can't be established.
ECDSA key fingerprint is SHA256:ELWJFgX1gMkZ3f47APgfaMEoRZi83vYA1806Sfn1xY.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added 'ec2-3-236-96-93.compute-1.amazonaws.com,3.236.96.93' (ECDSA) to the list of known hosts.
Welcome to Ubuntu 22.04.1 LTS (GNU/Linux 5.15.0-1028-aws x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:    https://landscape.canonical.com
 * Support:       https://ubuntu.com/advantage

System information as of Thu Mar  2 04:40:00 UTC 2023

System load:  0.0166015625   Processes:            101
Usage of /:   19.8% of 7.57GB Users logged in:        0
Memory usage: 19%           IPv4 address for eth0: 172.31.69.0
Swap usage:   0%

Expanded Security Maintenance for Applications is not enabled.

0 updates can be applied immediately.

Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status

The list of available updates is more than a week old.
To check for new updates run: sudo apt update

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@ip-172-31-69-0: ~
ubuntu@ip-172-31-69-0:~$ sudo apt update
sudo: apt: command not found
ubuntu@ip-172-31-69-0:~$ sudo apt update
Hit:1 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy InRelease
Get:2 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates InRelease [119 kB]
Get:3 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-backports InRelease [107 kB]
Get:4 http://security.ubuntu.com/ubuntu jammy-security InRelease [110 kB]
Get:5 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/universe amd64 Packages [14.1 MB]
Get:6 http://security.ubuntu.com/ubuntu jammy-security/main amd64 Packages [646 kB]
Get:7 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/universe Translation-en [5652 kB]
Get:8 http://security.ubuntu.com/ubuntu jammy-security/main Translation-en [135 kB]
Get:9 http://security.ubuntu.com/ubuntu jammy-security/main amd64 c-n-f Metadata [8524 B]
Get:10 http://security.ubuntu.com/ubuntu jammy-security/restricted amd64 Packages [582 kB]
Get:11 http://security.ubuntu.com/ubuntu jammy-security/restricted Translation-en [90.4 kB]
Get:12 http://security.ubuntu.com/ubuntu jammy-security/universe amd64 Packages [694 kB]
Get:13 http://security.ubuntu.com/ubuntu jammy-security/universe Translation-en [110 kB]
Get:14 http://security.ubuntu.com/ubuntu jammy-security/universe amd64 c-n-f Metadata [13.4 kB]
Get:15 http://security.ubuntu.com/ubuntu jammy-security/multiverse amd64 Packages [4960 B]
Get:16 http://security.ubuntu.com/ubuntu jammy-security/multiverse Translation-en [996 B]
Get:17 http://security.ubuntu.com/ubuntu jammy-security/multiverse amd64 c-n-f Metadata [240 B]
Get:18 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/universe amd64 c-n-f Metadata [286 kB]
Get:19 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/multiverse amd64 Packages [217 kB]
Get:20 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/multiverse Translation-en [112 kB]
Get:21 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/multiverse amd64 c-n-f Metadata [8372 B]
Get:22 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 Packages [938 kB]
Get:23 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main Translation-en [203 kB]
Get:24 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 c-n-f Metadata [13.6 kB]
Get:25 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/restricted amd64 Packages [680 kB]
Get:26 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/restricted Translation-en [106 kB]
Get:27 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/restricted amd64 c-n-f Metadata [584 B]
Get:28 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/universe amd64 Packages [874 kB]
Get:29 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/universe Translation-en [171 kB]
Get:30 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/universe amd64 c-n-f Metadata [17.8 kB]
Get:31 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/multiverse amd64 Packages [9696 B]
Get:32 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/multiverse Translation-en [3260 B]
Get:33 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/multiverse amd64 c-n-f Metadata [444 B]
Get:34 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/main amd64 Packages [40.7 kB]
Get:35 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/main Translation-en [9800 B]
Get:36 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/main amd64 c-n-f Metadata [392 B]
```

```
ubuntu@ip-172-31-69-0: ~  
To check for new updates run: sudo apt update  
  
Last login: Thu Mar  2 04:40:02 2023 from 117.205.68.99  
ubuntu@ip-172-31-69-0:~$ sudo apt install nodejs  
Reading package lists... Done  
Building dependency tree... Done  
Reading state information... Done  
nodejs is already the newest version (12.22.9~dfsg-1ubuntu3).  
0 upgraded, 0 newly installed, 0 to remove and 36 not upgraded.  
ubuntu@ip-172-31-69-0:~$
```

```
ubuntu@ip-172-31-69-0: ~  
To check for new updates run: sudo apt update  
  
Last login: Thu Mar  2 04:40:02 2023 from 117.205.68.99  
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Reading package lists... Done  
Building dependency tree... Done  
Reading state information... Done  
nodejs is already the newest version (12.22.9~dfsg-1ubuntu3).  
0 upgraded, 0 newly installed, 0 to remove and 36 not upgraded.  
ubuntu@ip-172-31-69-0:~$ node -v  
v12.22.9  
ubuntu@ip-172-31-69-0:~$
```