

Amazon Elastic Compute Cloud (EC2) – Task-1

1. Search ec2.

The screenshot shows the Amazon Elastic Compute Cloud (EC2) homepage. At the top, there's a dark banner with the text "Amazon Elastic Compute Cloud (EC2)" and "Create, manage, and monitor virtual servers in the cloud." Below this, a description states: "Amazon Elastic Compute Cloud (Amazon EC2) offers the broadest and deepest compute platform, with over 600 instance types and a choice of the latest processors, storage, networking, operating systems, and purchase models to help you best match the needs of your workload." To the right of the banner, there's a section titled "Launch a virtual server" with buttons for "Launch instance", "View dashboard", "Get started walkthroughs", and a link to "Get started tutorial". Below the banner, there are several sections: "Benefits and features" which highlights "EC2 offers ultimate scalability and control" with bullet points about control, variety, availability, and global scalability; "Additional actions" with links to "View running instances" and "Migrate a server"; "Pricing (US)" with links to "EC2 pricing options", "Use the AWS pricing calculator", and "Manage budgets"; "Use cases" with two categories: "Run cloud-native and enterprise applications" and "Scale for HPC applications"; and "Additional resources".

2. Launch instance.
3. Use below config.

The screenshot shows the "Launch an instance" page in the AWS Management Console. The page title is "Launch an instance" with an "Info" link. Below the title, a description states: "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." The page is divided into several sections: "Name and tags" with a text input field containing "webserver" and an "Add additional tags" button; "Application and OS Images (Amazon Machine Image)" with a search bar and a "Quick Start" section. The "Quick Start" section displays a grid of operating system logos: Amazon Linux, macOS, Ubuntu, Windows, Red Hat, SUSE Linux, and Debian. To the right of the grid, there's a "Browse more AMIs" link with a magnifying glass icon and a description: "Including AMIs from AWS, Marketplace and the Community". Below the grid, there's a section titled "Amazon Machine Image (AMI)" which shows the selected AMI: "Amazon Linux 2023 kernel-6.1 AMI" with details like "ami-0861f4e788f5069dd (64-bit (x86), uefi-preferred) / ami-0fad8318b9405c6fb (64-bit (Arm), uefi)", "Virtualization: hvm", "ENA enabled: true", and "Root device type: ebs".

Create new key pair.

Description

Amazon Linux 2023 (kernel-6.1) is a modern, general purpose Linux-based OS that comes with 5 years of long term support. It is optimized for AWS and designed to provide a secure, stable and high-performance execution environment to develop and run your cloud applications.

Amazon Linux 2023 AMI 2023.8.20250818.0 x86_64 HVM kernel-6.1

Architecture

64-bit (x86)

Boot mode

uefi-preferred

AMI ID

ami-0861f4e788f5069dd

Publish Date

2025-08-13

Username

ec2-user



Verified provider

▼ Instance type [Info](#) | [Get advice](#)

Instance type

t3.micro

Family: t3 2 vCPU 1 GiB Memory Current generation: true On-Demand Linux base pricing: 0.0112 USD per Hour
On-Demand SUSE base pricing: 0.0112 USD per Hour On-Demand Windows base pricing: 0.0204 USD per Hour
On-Demand Ubuntu Pro base pricing: 0.0147 USD per Hour On-Demand RHEL base pricing: 0.04 USD per Hour

Free tier eligible

☐ All generations

[Compare instance types](#)

[Additional costs apply for AMIs with pre-installed software](#)

▼ Key pair (login) [Info](#)

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

Select

[Create new key pair](#)

Create key pair

Key pair name

Key pairs allow you to connect to your instance securely.

server1

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

Private key file format

☒ .pem

For use with OpenSSH

☐ .ppk

For use with PuTTY

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](#)

Cancel

Create key pair

Keep config as it is

Key pair name - *required*

server1

Create new key pair

▼ Network settings [Info](#)

Edit

Network | [Info](#)

vpc-001a598d13d5580c0

Subnet | [Info](#)

No preference (Default subnet in any availability zone)

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

We'll create a new security group called 'launch-wizard-1' with the following rules:

☒ Allow SSH traffic from

Helps you connect to your instance

Anywhere

0.0.0.0/0

☒ Allow HTTPS traffic from the internet

To set up an endpoint, for example when creating a web server

☒ Allow HTTP traffic from the internet

To set up an endpoint, for example when creating a web server

Rules with source of 0.0.0.0/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only.

▼ Configure storage [Info](#)

Advanced

Then launch instance.

☒ Allow HTTP traffic from the internet

To set up an endpoint, for example when creating a web server

Rules with source of 0.0.0.0/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only.

▼ Configure storage [Info](#)

Advanced

1x 8 GiB gp3 Root volume, 3000 IOPS, Not encrypted

Add new volume

Click refresh to view backup information

The tags that you assign determine whether the instance will be backed up by any Data Lifecycle Manager policies.

0 x File systems

Edit

► Advanced details [Info](#)

t5.micro

Firewall (security group)

New security group

Storage (volumes)

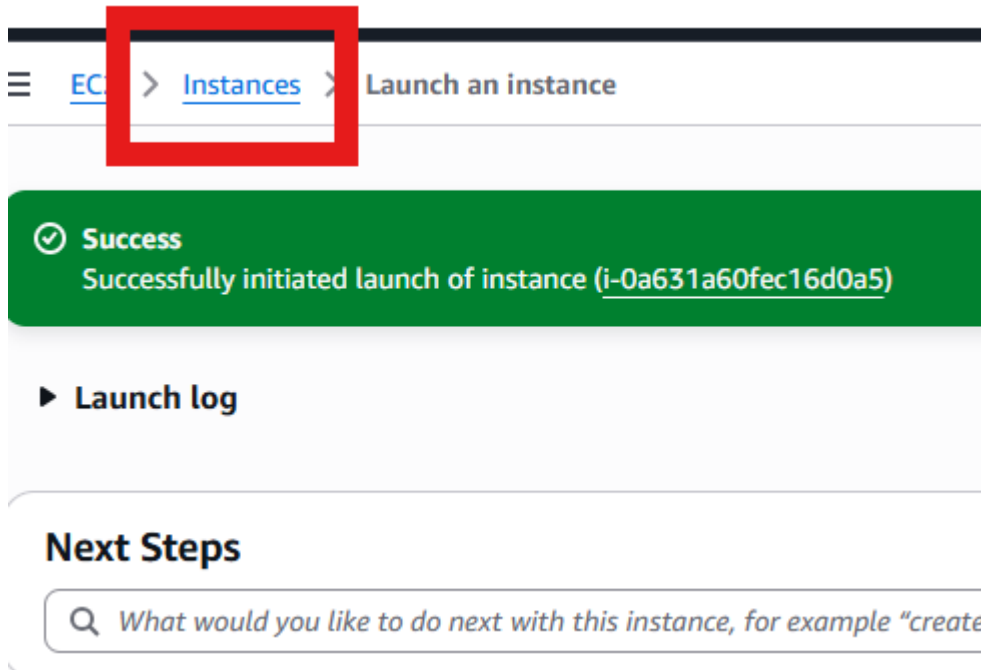
1 volume(s) - 8 GiB

Cancel

Launch instance

Preview code

Click on instances.



Once check become 2/2 till then wait

Find Instance by attribute or tag (case-sensitive)

All states

<

1

>

<input type="checkbox"/>	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public IPv4 ...	Elastic IP
<input type="checkbox"/>	webserver	i-0a631a60fec16d0a5	Running	t3.micro	Initializing	View alarms +	ap-south-1a	ec2-52-66-206-142.ap-...	52.66.206.142	-

Select ec2 and connect.

Instances (1/1) Info

Last updated less than a minute ago

Connect

Instance state

Actions

Launch instances

Find Instance by attribute or tag (case-sensitive)

All states

< 1 >

<input checked="" type="checkbox"/>	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public IPv4 ...	Elastic IP
<input checked="" type="checkbox"/>	webserver	i-0a631a60fec16d0a5	Running	t3.micro	Initializing	View alarms +	ap-south-1a	ec2-52-66-206-142.ap-...	52.66.206.142	-

Come to ssh client and copy example below

Connect Info

Connect to an instance using the browser-based client.

EC2 Instance Connect Session Manager **SSH client** EC2 serial console

Instance ID
i-0a631a60fec16d0a5 (webserver)

1. Open an SSH client.
2. Locate your private key file. The key used to launch this instance is server1.pem
3. Run this command, if necessary, to ensure your key is not publicly viewable.
`chmod 400 "server1.pem"`
4. Connect to your instance using its Public DNS:
`ec2-52-66-206-142.ap-south-1.compute.amazonaws.com`

example:
`ssh -i "server1.pem" ec2-user@ec2-52-66-206-142.ap-south-1.compute.amazonaws.com`

ons to check if the AMI owner has changed the default AMI username.

Cancel

Then open cmd

EC2 > Instances > i-0a631a60fec16d0a5 > Connect to instance

Connect Info

Connect to an instance using the browser-based client.

EC2 Instance Connect | Session Manager | **SSH client** | EC2 serial console

Instance ID
i-0a631a60fec16d0a5 (webserver)

1. Open an SSH client.
2. Locate your private key file. The key used to launch this instance is `server1.pem`.
3. Run this command, if necessary, to ensure your key is not world-readable:
`chmod 400 "server1.pem"`
4. Connect to your instance using its Public DNS:
`ec2-52-66-206-142.ap-south-1.compute.amazonaws.com`

`ssh -i "server1.pem" ec2-user@ec2-52-66-206-142.ap-south-1.compute.amazonaws.com`

Note: In most cases, the guessed username is correct. However, you can specify a username using the `-u` option.

✔ Command copied

Best match

- Command Prompt (System)

Search the web

- cmd - See more search results
- cmd run as administrator
- cmd prompt
- cmd commands
- cmd administrator

Apps

- Git CMD
- Install Additional Tools for Node.js
- Anaconda Prompt
- sparkR.cmd
- sparkR2.cmd

Folders

CloudShell Feedback

75°F Haze

cmd

Check location where your pem key downloaded when you create new key.

Recent download history

- server1.pem
1,678 B • 4 minutes ago
- Sandeep Das resume compressed

For me it is in downloads so I type `cd downloads`

```
Microsoft Windows [Version 10.0.26100.4946]  
(c) Microsoft Corporation. All rights reserved.  
  
C:\Users\sande>cd downloads  
  
C:\Users\sande\Downloads>
```

And then simply copy paste example in cmd.

This will ask fingerprint type yes.

```
C:\Users\sande\Downloads>ssh -i "server1.pem" ec2-user@ec2-52-66-206-142.ap-south-1.compute.amazonaws.com
The authenticity of host 'ec2-52-66-206-142.ap-south-1.compute.amazonaws.com (52.66.206.142)' can't be established.
ED25519 key fingerprint is SHA256:owtRrZa6PXpn+29S4+45G+XGkbh/WcUtfSUajRY41xE.
This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added 'ec2-52-66-206-142.ap-south-1.compute.amazonaws.com' (ED25519) to the list of known hosts.

      #_
     _\_ #####_      Amazon Linux 2023
    _/_\_ #####\_
   _/_/_\_ #####\_
  _/_/_/_\_ #####|
 _/_/_/_/_\_ #/_ --- https://aws.amazon.com/linux/amazon-linux-2023
_/_/_/_/_/_\_ V~' ' ->
      _/_/_/_/_/_\_/
     _/_/_/_/_/_\_/
    _/_/_/_/_/_\_/
   _/_/_/_/_/_\_/
  _/_/_/_/_/_\_/
 _/_/_/_/_/_\_/
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[ec2-user@ip-172-31-46-163 ~]$ |
```

So from your pc you are able to access.