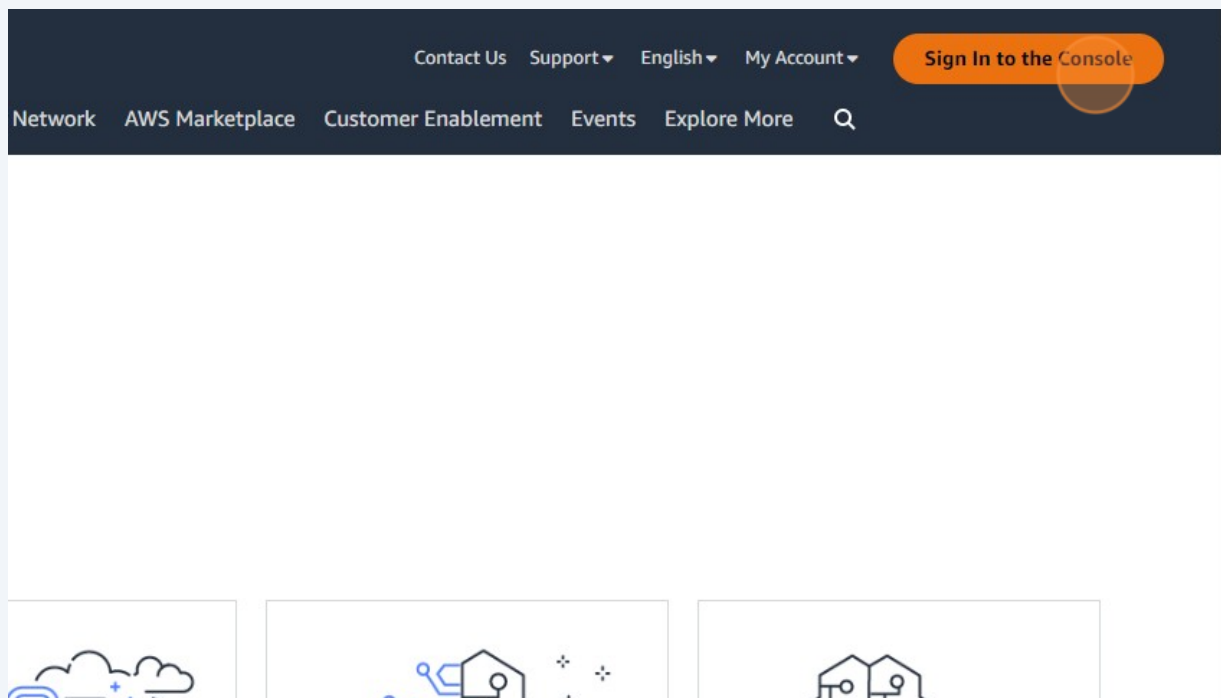


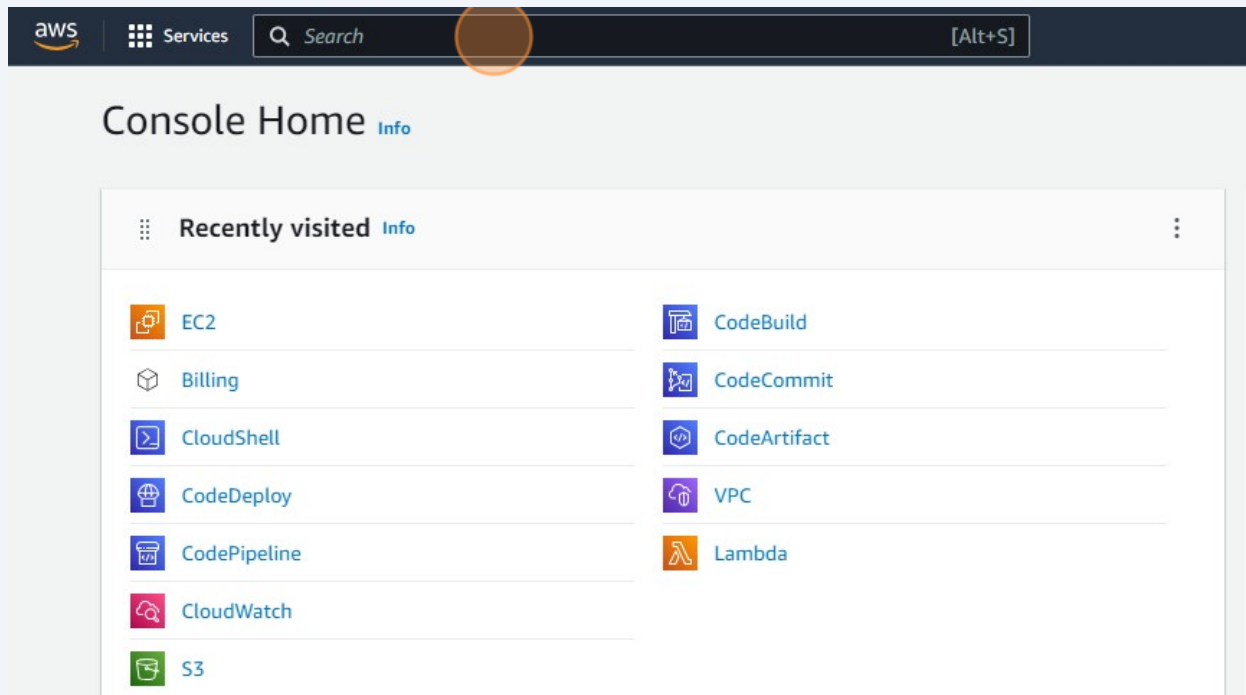
Setting up EC2 Instance on AWS

1 Navigate to aws.amazon.com

2 Click "Sign In to the Console"

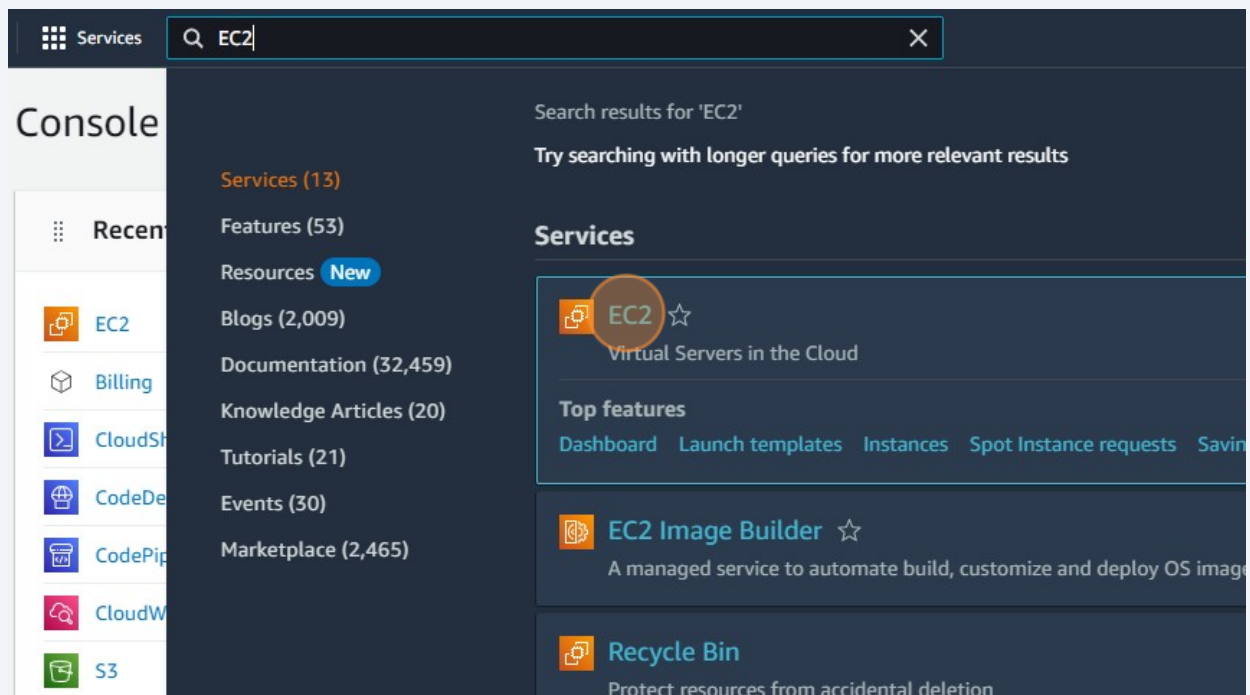


3 Click the "Search" field.

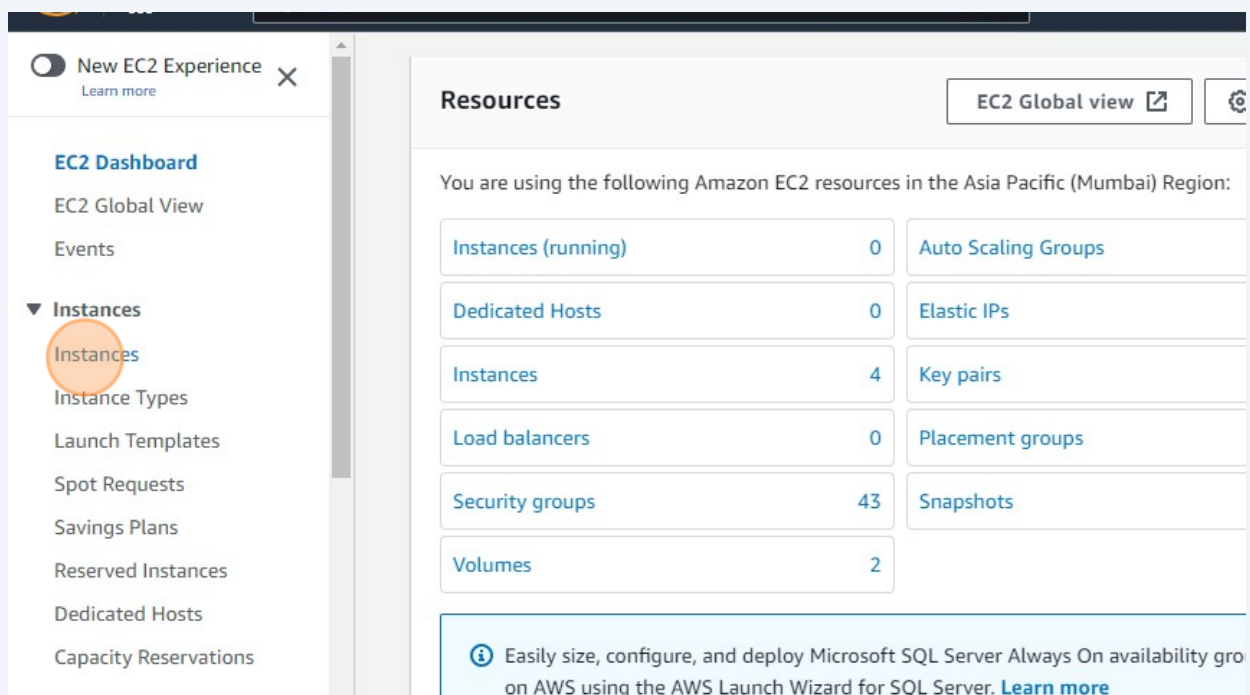


4 Search for 'EC2'

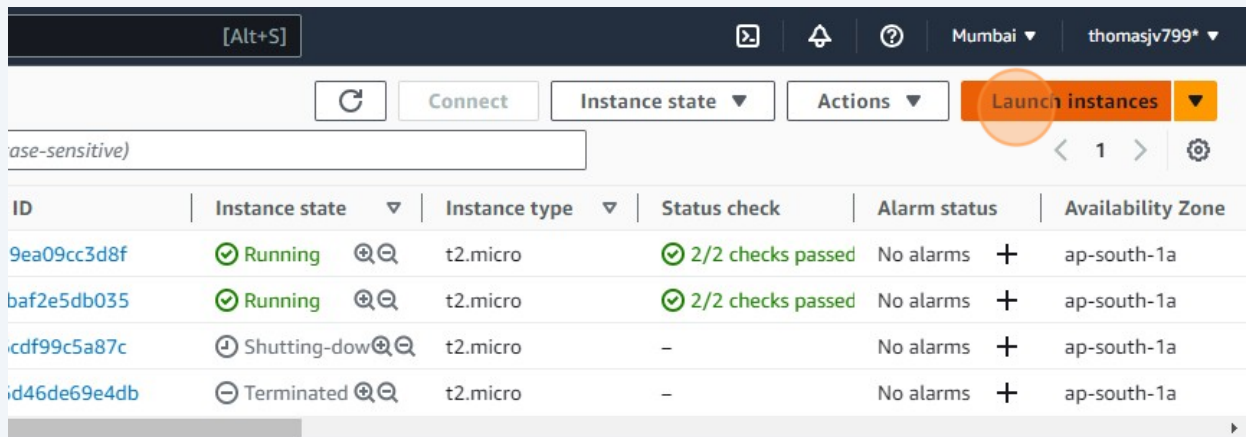
5 Click "EC2"



6 On the Right side now click on "Instances"



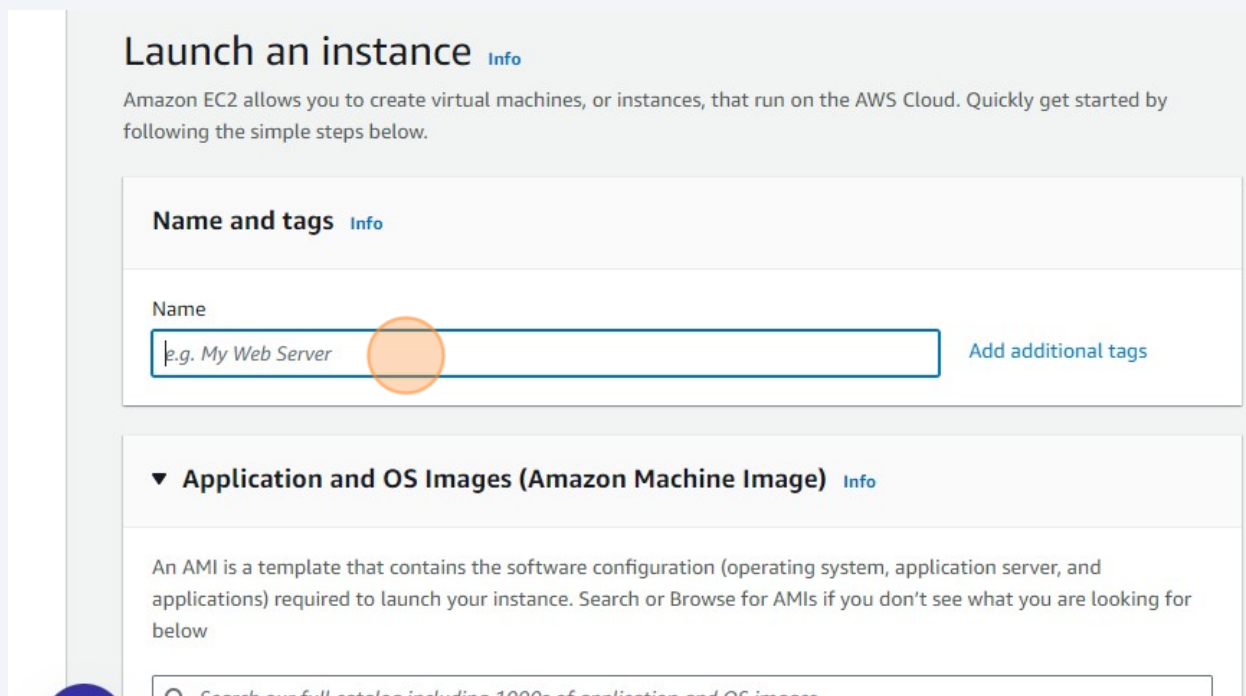
7 Once then on right top corner, Click "Launch instances"



The screenshot shows the AWS Management Console interface. At the top, there's a navigation bar with the user's name 'thomasjv799*' and the region 'Mumbai'. Below the navigation bar, there's a toolbar with buttons for 'Connect', 'Instance state', 'Actions', and 'Launch instances'. The 'Launch instances' button is highlighted with an orange circle. Below the toolbar, there's a table of instances. The table has columns for ID, Instance state, Instance type, Status check, Alarm status, and Availability Zone. The table contains four rows of instance data.

ID	Instance state	Instance type	Status check	Alarm status	Availability Zone
9ea09cc3d8f	Running	t2.micro	2/2 checks passed	No alarms	ap-south-1a
baf2e5db035	Running	t2.micro	2/2 checks passed	No alarms	ap-south-1a
cdf99c5a87c	Shutting-down	t2.micro	-	No alarms	ap-south-1a
id46de69e4db	Terminated	t2.micro	-	No alarms	ap-south-1a

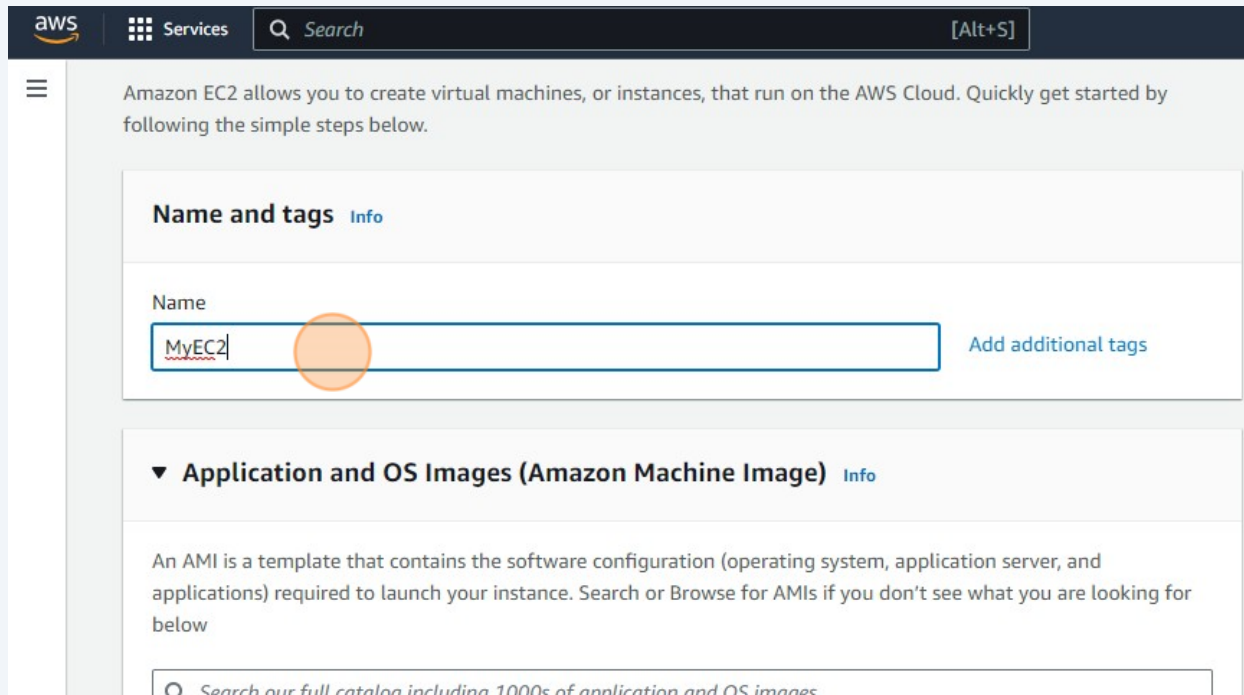
8 Click the "Name" field.



The screenshot shows the 'Launch an instance' page in the AWS Management Console. The page has a heading 'Launch an instance' with an 'Info' link. Below the heading, there's a paragraph explaining that Amazon EC2 allows you to create virtual machines, or instances, that run on the AWS Cloud. The page is divided into sections. The first section is 'Name and tags' with an 'Info' link. It contains a 'Name' field with a placeholder text 'e.g. My Web Server' and an 'Add additional tags' link. The 'Name' field is highlighted with an orange circle. Below the 'Name and tags' section, there's a section titled 'Application and OS Images (Amazon Machine Image)' with an 'Info' link. It contains a paragraph explaining that an AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. Below the paragraph, there's a search bar with a placeholder text 'Search our full catalog including 1000s of application and OS images'.

9 Add a Name for your Machine

10 I have added the name as "MyEC2"



The screenshot shows the AWS Management Console interface for creating an Amazon EC2 instance. The top navigation bar includes the AWS logo, 'Services', a search bar, and a keyboard shortcut '[Alt+S]'. A left-hand menu is partially visible. The main content area has a header stating: '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 'Name and tags' section is expanded, showing a 'Name' label and a text input field. The input field contains the text 'MyEC2' and is highlighted with an orange circle. To the right of the input field is a link that says 'Add additional tags'. Below this section, the 'Application and OS Images (Amazon Machine Image)' section is also expanded, showing a description of AMIs and a search bar with the placeholder text 'Search our full catalog including 1000s of application and OS images'.

11 Choose the OS or Master Image for your instance, I have choose Ubuntu here

below

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

Recents Quick Start

Amazon Linux macOS Ubuntu Windows Red Hat SUSE Linux

aws Mac ubuntu Microsoft Red Hat SUS

Browse more AMIs
Including AMIs from AWS, Marketplace and the Community

Amazon Machine Image (AMI)

Amazon Linux 2023 AMI Free tier eligible

ami-0ded8326293d3201b (64-bit (x86)) / ami-02bc45136ff0b128e (64-bit (Arm))
Virtualization: hvm ENA enabled: true Root device type: ebs

Description

Amazon Linux 2023 AMI 2023.1.20230725.0 x86_64 HVM kernel-6.1

12 Come below and Click "Create new key pair"

connect to your instance. Ensure that you have access to the selected key pair

Create new key pair

Edit

any availability zone)

Summary

Number of instances Info
1

Software Image (AMI)
Canonical, Ubuntu, 22.04 LTS, ...read more
ami-0f5ee92e2d63afc18

Virtual server type (instance type)
t2.micro

Firewall (security group)
New security group

Storage (volumes)
1 volume(s) - 8 GiB

Free tier is your first year

13 Click the "Key pair name" field.

The screenshot shows the AWS Management Console interface. On the left, the 'Key pair (login)' section is visible, with a description: 'You can use a key pair to securely connect to your instance before you launch the instance.' Below this, there is a 'Key pair name - required' label and a 'Select' dropdown menu. The main part of the image is a modal dialog titled 'Create key pair'. Inside this dialog, the 'Key pair name' field is a text input with the placeholder text 'Enter key pair name'. This field is highlighted with an orange circle. Below the name field, there is a note: 'The name can include up to 255 ASCII characters. It can't include leading or trailing spaces.' Under the 'Key pair type' section, there are two radio button options: 'RSA' (selected) and 'ED25519'. The 'RSA' option is described as 'RSA encrypted private and public key pair'. The 'ED25519' option is described as 'ED25519 encrypted private and public key pair'. At the bottom, the 'Private key file format' section has two radio button options: '.pem' (selected) and '.ppk'. The '.pem' option is described as 'For use with OpenSSH', and the '.ppk' option is described as 'For use with PuTTY'.

14 Type in a name for your file and choose configuration accordingly

15 Click "Create key pair"

Product name (required)
The product name can include up to 255 ASCII characters. It can't include leading or trailing spaces.

Key type
☒ RSA
RSA encrypted private and public key pair

☐ ED25519
ED25519 encrypted private and public key pair

Key file format
☒ PEM
Use with OpenSSH

☐ DER
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](#)

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16 After that, Click "Allow HTTPS traffic from the internet"

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-41' 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.

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17 Click "Allow HTTP traffic from the internet"

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-41' with the following rules:

☒ Allow SSH traffic from Anywhere
0.0.0.0/0
Helps you connect to your instance

☒ 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. 

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18 Click "Launch instance"

[Advanced](#)

Volume (Not encrypted)

General Purpose (SSD) or Magnetic storage 

Instance allows. Only the first 0 instance store

[Edit](#)

Software Image

Canonical, Ubuntu, 22.04 LTS, ...[read more](#)
ami-0f5ee92e2d63afc18

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 

[Cancel](#) [Launch instance](#) [Review commands](#)

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19

Once then when we go back to instances, we can see our machine being initialized.

The screenshot shows the AWS Management Console interface for EC2 Instances. The left sidebar contains navigation links for Services, EC2 Experience, Dashboard, and various instance-related options. The main content area is titled 'Instances (1)' and includes a search bar and a filter box. The filter box contains the text 'Instance ID = i-08218373aa24efb67'. Below the filter, a table lists the instance details:

Name	Instance ID	Instance state	Instance type
MyMachine	i-08218373aa24efb67	Pending	t2.micro

20

Clicking the Instance ID will give details of our machine.

The screenshot shows the detailed view of the EC2 instance 'MyMachine' (ID: i-08218373aa24efb67). The instance is in a 'Pending' state. The public IPv4 address is 13.234.202.6, and the private IPv4 address is 172.31.34.1. The instance type is t2.micro. The instance is located in the us-east-1 region, us-east-1a availability zone, and is part of the default VPC.

Instance ID	Public IPv4 address	Private IPv4 address
i-08218373aa24efb67 (MyMachine)	13.234.202.6 open address	172.31.34.1