

1. Create an EC2 Instance

Step 1: Name your EC2 Instance and select your desired Application OS Image and architecture.

It seems like you may be new to launching instances in EC2. Take a walkthrough to learn about EC2, how to launch instances and about best practices

Do not show me this message again

Take a walkthrough

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 Cloud server

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

SUSE Linux

Debian

Browse more AMIs

Including AMIs from AWS, Marketplace and the Community

Amazon Machine Image (AMI)

Ubuntu Server 24.04 LTS (HVM), SSD Volume Type

ami-09a9858973b288bdd (64-bit (x86)) / ami-001e33773aeed45f (64-bit (Arm))

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

Free tier eligible

Description

Ubuntu Server 24.04 LTS (HVM),EB5 General Purpose (SSD) Volume Type. Support available from Canonical (<http://www.ubuntu.com/cloud/services>).

Canonical, Ubuntu, 24.04, amd64 noble image

Architecture

64-bit (x86)

AMI ID

ami-09a9858973b288bdd

Username

ubuntu

Verified provider

Summary

Number of instances

1

Software Image (AMI)

Canonical, Ubuntu, 24.04, amd64...read more

ami-09a9858973b288bdd

Virtual server type (instance type)

t3.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, 750 hours of public IPv4 address usage per month, 30 GiB of EBS storage, 2 million I/Os, 1 GB of snapshots, and 100 GB of bandwidth to the internet.

Cancel

Launch instance

Preview code

Step 2: Now generate a key pair and save it locally on your PC and allow traffic from SSH and Known IP Addresses.

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

Murtaza Instance Key

Create new key pair

Network settings

Network

vpc-00b0c4e80620153e9

Subnet

No preference (Default subnet in any availability zone)

Auto-assign public IP

Enable

Additional charges apply when outside of free tier allowance

Firewall (security groups)

Create security group

Select existing security group

We'll create a new security group called 'launch-wizard-2' with the following rules:

Allow SSH traffic from

Anywhere

Allow HTTPS traffic from the internet

Allow HTTP traffic from the internet

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.

Software Image (AMI)

Canonical, Ubuntu, 24.04, amd64...read more

ami-09a9858973b288bdd

Virtual server type (instance type)

t3.micro

Firewall (security group)

New security group

Storage (volumes)

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Cancel

Launch instance

Preview code

Remaining all the settings during the instance creation will remain the same. Step 3: Once created, start the EC2 instance and choose your connection type:

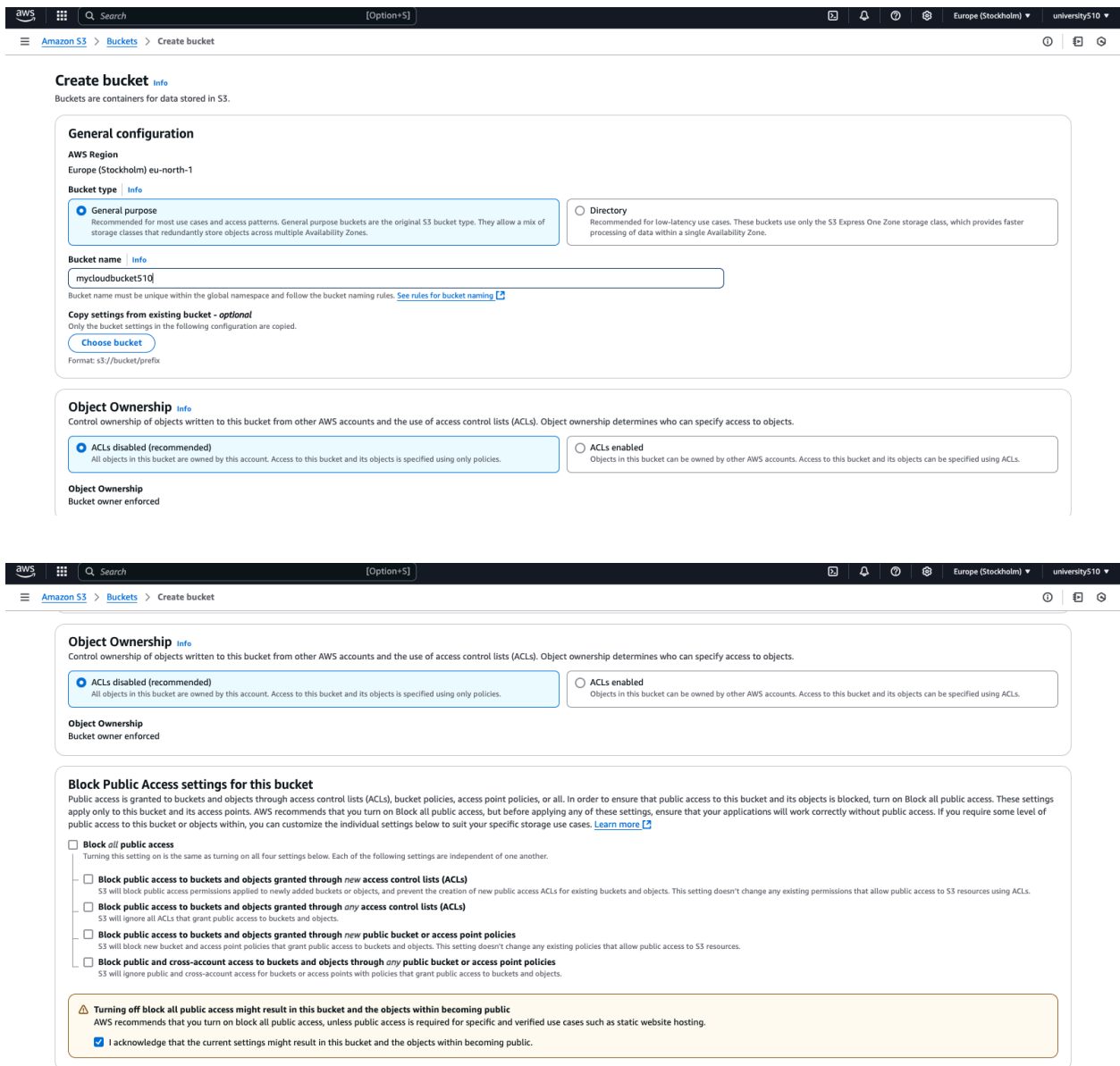
The screenshot shows the AWS Management Console interface for connecting to an EC2 instance. The breadcrumb navigation at the top reads: EC2 > Instances > i-0111fe2694fbc0d87 > Connect to instance. The main heading is "Connect to instance" with a sub-note: "Connect to your instance i-0111fe2694fbc0d87 (My Cloud server) using any of these options". Below this, there are four tabs: "EC2 Instance Connect" (selected), "Session Manager", "SSH client", and "EC2 serial console". Under the "EC2 Instance Connect" tab, the "Instance ID" is "i-0111fe2694fbc0d87 (My Cloud server)". The "Connection Type" section has two radio buttons: "Connect using EC2 Instance Connect" (selected) and "Connect using EC2 Instance Connect Endpoint". Below the radio buttons, there are two options: "Public IPv4 address" (selected) with the value "16.171.170.127", and "IPv6 address" which is empty. The "Username" field contains "ubuntu". A note at the bottom states: "Note: In most cases, the default username, ubuntu, is correct. However, read your AMI usage instructions to check if the AMI owner has changed the default AMI username." At the bottom right of the form are "Cancel" and "Connect" buttons.

Step 4: After following these steps, our connection with cloud will be established and now you can easily perform activities.

The screenshot shows a terminal window with the following text:
Welcome to Ubuntu 24.04.1 LTS (GNU/Linux 6.8.0-1021-aws x86_64)
* Documentation: https://help.ubuntu.com
* Management: https://landscape.canonical.com
* Support: https://ubuntu.com/pro
System information as of Sat Feb 8 18:00:32 UTC 2025
System load: 0.12 Temperature: -273.1 C
Usage of /: 24.9% of 6.71GB Processes: 111
Memory usage: 23% Users logged in: 0
Swap usage: 0% IPv4 address for ens5: 172.31.44.60
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 comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.
ubuntu@ip-172-31-44-60:~\$
Below the terminal output, the instance details are shown: "i-0111fe2694fbc0d87 (My Cloud server)" and "PublicIPs: 16.171.170.127 PrivateIPs: 172.31.44.60".

Now, as we can see that we are now connected to the EC2 Instance Server.

Create an S3 bucket, upload an image and view it.



Create bucket [Info](#)

Buckets are containers for data stored in S3.

General configuration

AWS Region
Europe (Stockholm) eu-north-1

Bucket type [Info](#)

☒ **General purpose**
Recommended for most use cases and access patterns. General purpose buckets are the original S3 bucket type. They allow a mix of storage classes that redundantly store objects across multiple Availability Zones.

☐ **Directory**
Recommended for low-latency use cases. These buckets use only the S3 Express One Zone storage class, which provides faster processing of data within a single Availability Zone.

Bucket name [Info](#)
mycloudbucketS10
Bucket name must be unique within the global namespace and follow the bucket naming rules. [See rules for bucket naming](#)

Copy settings from existing bucket - optional
Only the bucket settings in the following configuration are copied.
[Choose bucket](#)
Format: s3://bucket/prefix

Object Ownership

[Info](#)
Control ownership of objects written to this bucket from other AWS accounts and the use of access control lists (ACLs). Object ownership determines who can specify access to objects.

☒ **ACLs disabled (recommended)**
All objects in this bucket are owned by this account. Access to this bucket and its objects is specified using only policies.

☐ **ACLs enabled**
Objects in this bucket can be owned by other AWS accounts. Access to this bucket and its objects can be specified using ACLs.

Object Ownership
Bucket owner enforced

Block Public Access settings for this bucket

Public access is granted to buckets and objects through access control lists (ACLs), bucket policies, access point policies, or all. In order to ensure that public access to this bucket and its objects is blocked, turn on Block all public access. These settings apply only to this bucket and its access points. AWS recommends that you turn on Block all public access, but before applying any of these settings, ensure that your applications will work correctly without public access. If you require some level of public access to this bucket or objects within, you can customize the individual settings below to suit your specific storage use cases. [Learn more](#)

☒ **Block all public access**
Turning this setting on is the same as turning on all four settings below. Each of the following settings are independent of one another.

- ☐ **Block public access to buckets and objects granted through new access control lists (ACLs)**
S3 will block public access permissions applied to newly added buckets or objects, and prevent the creation of new public access ACLs for existing buckets and objects. This setting doesn't change any existing permissions that allow public access to S3 resources using ACLs.
- ☐ **Block public access to buckets and objects granted through any access control lists (ACLs)**
S3 will ignore all ACLs that grant public access to buckets and objects.
- ☐ **Block public access to buckets and objects granted through new public bucket or access point policies**
S3 will block new bucket and access point policies that grant public access to buckets and objects. This setting doesn't change any existing policies that allow public access to S3 resources.
- ☐ **Block public and cross-account access to buckets and objects through any public bucket or access point policies**
S3 will ignore public and cross-account access for buckets or access points with policies that grant public access to buckets and objects.

Turning off block all public access might result in this bucket and the objects within becoming public
AWS recommends that you turn on block all public access, unless public access is required for specific and verified use cases such as static website hosting.

☒ I acknowledge that the current settings might result in this bucket and the objects within becoming public.

Step 2: Once Created, head inside the bucket, move towards the permission and create policy using aws policy generator.

Apply the following policies as

Type of policy: S3 Bucket

Principal: * (ALL)

Actions: Get object ()

AWS Policy Generator

The AWS Policy Generator is a tool that enables you to create policies that control access to [Amazon Web Services \(AWS\)](#) products and resources. For more information about creating policies, see [key concepts in Using AWS Identity and Access Management](#). Here are [sample policies](#).

Step 1: Select Policy Type

A Policy is a container for permissions. The different types of policies you can create are an [IAM Policy](#), an [S3 Bucket Policy](#), an [SNS Topic Policy](#), a [VPC Endpoint Policy](#), and an [SQS Queue Policy](#).

Select Type of Policy S3 Bucket Policy

Step 2: Add Statement(s)

A statement is the formal description of a single permission. See [a description of elements](#) that you can use in statements.

Effect ☒ Allow ☐ Deny

Principal

Use a comma to separate multiple values.

AWS Service Amazon S3

Use multiple statements to add permissions for more than one service.

☐ All Services (*)

Actions 1 Action(s) Selected

☐ All Actions (*)

Amazon Resource Name (ARN) arn:aws:s3:::mycloudbu

ARN should follow the following format: `arn:aws:s3:::{BucketName}/{Key}`.
Use a comma to separate multiple values.

[Add Conditions \(Optional\)](#)

[Add Statement](#)

Step 3: Generate Policy

A *policy* is a document (written in the [Access Policy Language](#)) that acts as a container for one or more statements.

Add one or more statements above to generate a policy.

awspolicygen.s3.amazonaws.com/policygen.html

Principal

Use a comma to separate multiple values.

AWS Service Amazon S3

Use multiple statements to add permissions for more than one service.

☐ All Services (*)

Actions Select Actions

☐ All Actions (*)

Amazon Resource Name (ARN) arn:aws:s3:::mycloudbu

ARN should follow the following format: `arn:aws:s3:::{BucketName}/{Key}`.
Use a comma to separate multiple values.

[Add Conditions \(Optional\)](#)

[Add Statement](#)

You added the following statement(s):

Principal(s) *

Step 3: Generate Policy

A policy is a document (written in the [Access Policy Language](#)) that acts as a container for one or more statements.

Add one or more statements above to generate a policy.

Policy JSON Document

Click below to edit. To save the policy, copy the text below to a text editor. Changes made below will not be reflected in the policy generator tool.

```
{
  "Id": "Policy1739038966575",
  "Version": "2012-10-17",
  "Statement": [
    {
      "Sid": "Stmnt1739038950274",
      "Action": [
        "s3:GetObject"
      ],
      "Effect": "Allow",
      "Resource": "arn:aws:s3:::mycloudbucket510",
      "Principal": "*"
    }
  ]
}
```

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eu-north-1.console.aws.amazon.com/s3/buckets/mycloudbucket510?region=eu-north-1&bucketType=general&tab=permissions

CloudShellFeedback

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Amazon S3> Buckets> mycloudbucket510

Successfully edited bucket policy.

Individual Block Public Access settings for this bucket

Bucket policy

The bucket policy, written in JSON, provides access to the objects stored in the bucket. Bucket policies don't apply to objects owned by other accounts. [Learn more](#)

```
{
  "Version": "2012-10-17",
  "Id": "Policy1739038966575",
  "Statement": [
    {
      "Sid": "Stmt1739038950274",
      "Effect": "Allow",
      "Principal": "*",
      "Action": "s3:GetObject",
      "Resource": "arn:aws:s3::mycloudbucket510/*"
    }
  ]
}
```

Copy

eu-north-1.console.aws.amazon.com/s3/upload/mycloudbucket510?region=eu-north-1&bucketType=general

CloudShellFeedback

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Amazon S3> Buckets> mycloudbucket510> Upload

Upload

Add the files and folders you want to upload to S3. To upload a file larger than 160GB, use the AWS CLI, AWS SDKs or Amazon S3 REST API. [Learn more](#)

Drag and drop files and folders you want to upload here, or choose [Add files](#) or [Add folder](#).

Files and folders (1 total, 207.6 KB)

All files and folders in this table will be uploaded.

Find by name

<input type="checkbox"/>	Name	Folder	Type	Size
<input type="checkbox"/>	bmw.jpg	-	image/jpeg	207.6 KB

Destination

[s3://mycloudbucket510](#)

Destination details

Bucket settings that impact new objects stored in the specified destination.

Permissions

Grant public access and access to other AWS accounts.

Properties

Specify storage class, encryption settings, tags, and more.

CancelUpload

eu-north-1.console.aws.amazon.com/s3/object/mycloudbucket510?region=eu-north-1&bucketType=general&prefix=bmw.jpg

Amazon S3 Buckets mycloudbucket510 bmw.jpg

Amazon S3

- General purpose buckets
- Directory buckets
- Table buckets
- Access Grants
- Access Points
- Object Lambda Access Points
- Multi-Region Access Points
- Batch Operations
- IAM Access Analyzer for S3

Block Public Access settings for this account

Storage Lens

- Dashboards
- Storage Lens groups
- AWS Organizations settings

Feature spotlight 11

bmw.jpg Info

Copy S3 URI Download Open Object actions

Properties Permissions Versions

Object overview

Owner
56b9960cb373657b7d21fa92c6b482927a6e272604046a36450eed42e4c82b48

AWS Region
Europe (Stockholm) eu-north-1

Last modified
February 8, 2025, 23:27:04 (UTC+05:00)

Size
207.6 KB

Type
jpg

Key
bmw.jpg

S3 URI
[s3://mycloudbucket510/bmw.jpg](https://mycloudbucket510/bmw.jpg)

Amazon Resource Name (ARN)
[arn:aws:s3::mycloudbucket510/bmw.jpg](https://mycloudbucket510/bmw.jpg)

Entity tag (Etag)
2898cda57817431b85a39db0b612c74b

Object URL
<https://mycloudbucket510.s3.eu-north-1.amazonaws.com/bmw.jpg>

<https://mycloudbucket510.s3.eu-north-1.amazonaws.com/bmw.jpg>

