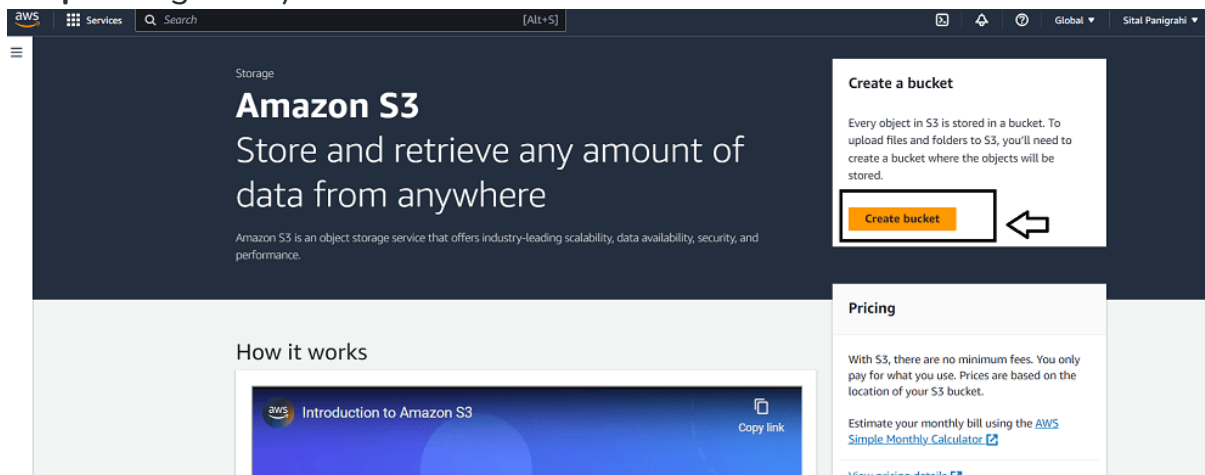


CONNECTING EC2 WITH S3

Step 1: Log in to your Console and search S3 → Click on create bucket



Step 2: Give it a unique name(follow S3 naming convention) →Choose region(Keep other things as it is)→ Click on create

Create bucket [Info](#)

Buckets are containers for data stored in S3. [Learn more](#)

General configuration

Bucket name

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

AWS Region

Copy settings from existing bucket - *optional*

Only the bucket settings in the following configuration are copied.

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.

<input checked="" type="radio"/> 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.	<input type="radio"/> 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.
--	--

Now open the bucket→ Click on Upload → Choose on Add file→ select file from system →Click on Upload.

The image consists of two screenshots from the AWS S3 console.

Top Screenshot: Shows the 's3bucketsaws' bucket page. The 'Objects (0)' section is visible. The 'Upload' button is highlighted with a red box and an arrow pointing to it. Below the buttons, there is a search bar and a table with columns: Name, Type, Last modified, Size, and Storage class. The table is empty, showing 'No objects'.

Bottom Screenshot: Shows the 'Add files' dialog. The 'Files and folders (1 Total, 11.0 MB)' section is visible. The 'Add files' button is highlighted with a red box. Below the buttons, there is a search bar and a table with columns: Name, Folder, Type, and Size. The table contains one row: 'Working Capital.docx' with a size of '11.0 MB'. The 'Destination' section shows 's3://s3bucketsaws'. The 'Permissions' and 'Properties' sections are also visible. The 'Upload' button is highlighted with a red box at the bottom right.

Step 4: Now let's create an instance, for that Click on "launch instance"→ Give it a name→ Choose AMI(Here I have taken **Linux 2 kernel**)→Choose t3.micro as instance type→Go to advanced, In IAM instance profile→ Click on "Create new IAM profile"

Step 1
Select trusted entity

Step 2
Add permissions

Step 3
Name, review, and create

Select trusted entity [Info](#)

Trusted entity type

- ☒ **AWS service**
Allow AWS services like EC2, Lambda, or others to perform actions in this account.
- ☐ **AWS account**
Allow entities in other AWS accounts belonging to you or a 3rd party to perform actions in this account.
- ☐ **Web identity**
Allows users federated by the specified external web identity provider to assume this role to perform actions in this account.
- ☐ **SAML 2.0 federation**
Allow users federated with SAML 2.0 from a corporate directory to perform actions in this account.
- ☐ **Custom trust policy**
Create a custom trust policy to enable others to perform actions in this account.

Use case
Allow an AWS service like EC2, Lambda, or others to perform actions in this account.

Service or use case

Choose a use case for the specified service.
 Use case
☒ **EC2**
 Allows EC2 instances to call AWS services on your behalf.

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Add permissions [Info](#)

Permissions policies (1/876) [Info](#)

Choose one or more policies to attach to your new role.

Filter by Type
 1 match

<input checked="" type="checkbox"/>	Policy name ?	Type	Description
<input checked="" type="checkbox"/>	AmazonS3FullAccess	AWS managed	Provides full access to all buckets via the ...

► Set permissions boundary - optional

Cancel Previous **Next**

Step 6: Now in launch template→ In IAM instance profile→ refresh and select newly created IAM role.

Step 7: Now, after launching SSH into the server.

```
ec2-user@ip-172-31-35-3:~  
Microsoft Windows [Version 10.0.22621.2283]  
(c) Microsoft Corporation. All rights reserved.  
  
C:\Users\sital\OneDrive\Desktop>ls  
'ls' is not recognized as an internal or external command,  
operable program or batch file.  
  
C:\Users\sital\OneDrive\Desktop> ssh -i mykeypair.pem ec2-user@13.51.200.78  
The authenticity of host '13.51.200.78 (13.51.200.78)' can't be established.  
ED25519 key fingerprint is SHA256:JhkDiEwp1dD6NORxpSYs+79zP1Adnd6XKSJx5zk2Ts0.  
This key is not known by any other names  
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes  
Warning: Permanently added '13.51.200.78' (ED25519) to the list of known hosts.  
  
  __|  __|_  )  
  _| (  /   Amazon Linux 2 AMI  
  ---|\---|---|  
  
https://aws.amazon.com/amazon-linux-2/  
5 package(s) needed for security, out of 36 available  
Run "sudo yum update" to apply all updates.  
[ec2-user@ip-172-31-35-3 ~]$ |
```

Step 8: Run following coomands

sudo su

wget https://s3.amazonaws.com/mountpoint-s3-release/latest/x86_64/mount-s3.rpm

```
root@ip-172-31-35-3:/home/ec2-user$  
[ec2-user@ip-172-31-35-3 ~]$  
[ec2-user@ip-172-31-35-3 ~]$ sudo su  
[root@ip-172-31-35-3 ec2-user]# wget https://s3.amazonaws.com/mountpoint-s3-release/latest/x86_64/mount-s3.rpm
```

Install the mount-s3

yum install ./mount-s3.rpm

```
root@ip-172-31-35-3/home/ ~$  
[ec2-user@ip-172-31-35-3 ~]$  
[ec2-user@ip-172-31-35-3 ~]$ sudo su  
[root@ip-172-31-35-3 ec2-user]# wget https://s3.amazonaws.com/mountpoint-s3-release/latest/x86_64/mount-s3.rpm  
--2023-09-15 05:50:47-- https://s3.amazonaws.com/mountpoint-s3-release/latest/x86_64/mount-s3.rpm  
Resolving s3.amazonaws.com (s3.amazonaws.com)... 52.217.226.200, 16.182.96.0, 54.231.196.232, ...  
Connecting to s3.amazonaws.com (s3.amazonaws.com)[52.217.226.200]:443... connected.  
HTTP request sent, awaiting response... 200 OK  
Length: 10443024 (10.0M) [binary/octet-stream]  
Saving to: 'mount-s3.rpm'  
  
100%[=====] 10,443,024 9.08MB/s in 1.1s  
  
2023-09-15 05:50:49 (9.08 MB/s) - 'mount-s3.rpm' saved [10443024/10443024]  
  
[root@ip-172-31-35-3 ec2-user]# ls  
mount-s3.rpm  
[root@ip-172-31-35-3 ec2-user]# yum install ./mount-s3.rpm
```

Now, use this command to list of all the buckets present in your AWS S3

aws s3 ls

```
[root@ip-172-31-35-3 ec2-user]# aws s3 ls  
2023-09-15 05:31:40 s3bucketsaws  
[root@ip-172-31-35-3 ec2-user]# |
```

Now create directory

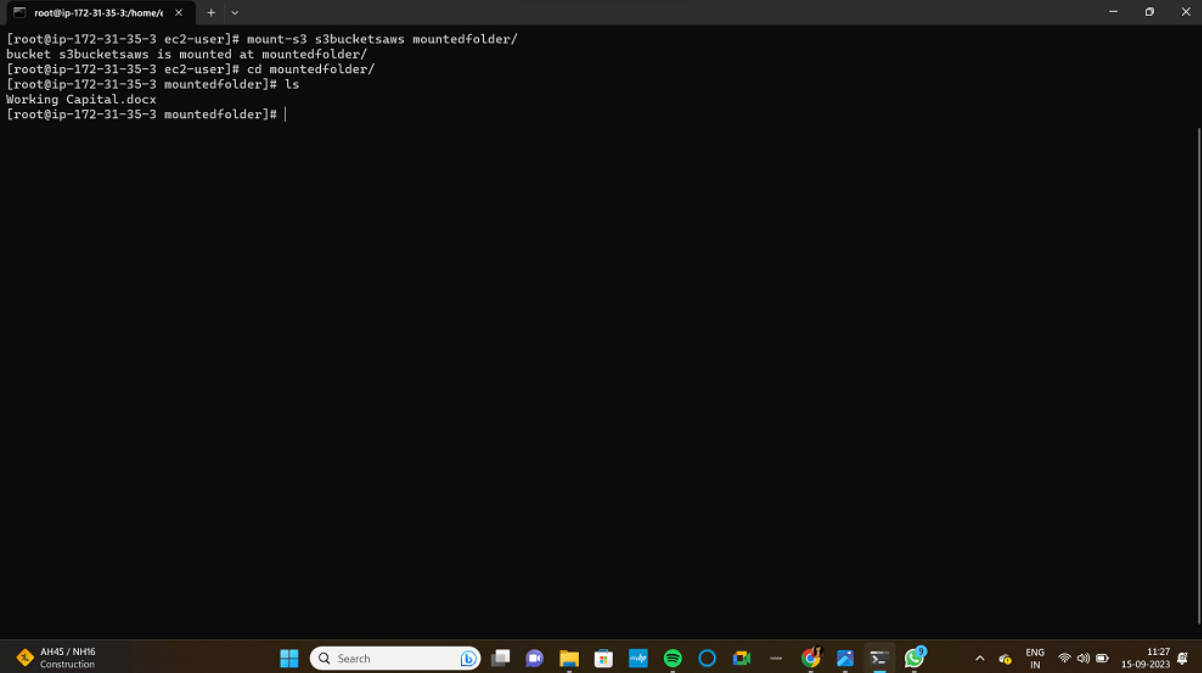
mkdir {name of directory}

```
[root@ip-172-31-35-3 ec2-user]# aws s3 ls  
2023-09-15 05:31:40 s3bucketsaws  
[root@ip-172-31-35-3 ec2-user]# clear  
[root@ip-172-31-35-3 ec2-user]# mkdir mountedfolder  
[root@ip-172-31-35-3 ec2-user]# ls  
mountedfolder mount-s3.rpm
```

Now to mount the required bucket

mount-s3 s3bucketsaws[name of the bucket] mountedfolder/[directory where to be mounted]

Now, go to the directory and do “ls”
you can find your files.



```
root@ip-172-31-35-3/home/ ~  
[root@ip-172-31-35-3 ec2-user]# mount-s3 s3bucketsaws mountedfolder/  
bucket s3bucketsaws is mounted at mountedfolder/  
[root@ip-172-31-35-3 ec2-user]# cd mountedfolder/  
[root@ip-172-31-35-3 mountedfolder]# ls  
Working Capital.docx  
[root@ip-172-31-35-3 mountedfolder]# |
```

The image shows a terminal window with a dark background. The terminal output shows the successful mounting of an S3 bucket named 's3bucketsaws' to a local directory 'mountedfolder/'. The user then navigates into this directory and runs the 'ls' command, which lists a file named 'Working Capital.docx'. The terminal window is titled 'root@ip-172-31-35-3/home/ ~'. Below the terminal window, a Windows taskbar is visible, showing the Start button, a search bar, and several application icons. The system tray on the right indicates the language is 'ENG IN', the date is '15-09-2023', and the time is '11:27'.