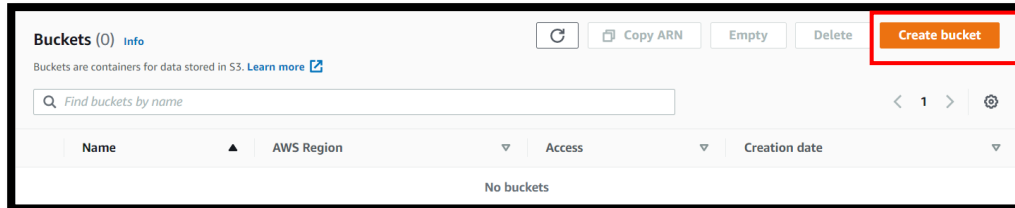


# Cloud Plus Plus Services



**Enable S3 bucket of static website hosting.**

**Step 1:** In AWS console go to **S3** services. Select **Buckets** and click on **Create bucket**.



**Step 2:** Give a bucket name as **bucketname.com**

Select a **Region** where you want to create the bucket.

**General configuration**

Bucket name

Bucket name must be unique and must not contain spaces or uppercase letters. [See rules for bucket naming](#)

AWS Region

Copy settings from existing bucket - *optional*  
Only the bucket settings in the following configuration are copied.

**Uncheck** the **Block all public access** box and **acknowledge**.

# Cloud Plus Plus Services



## 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



### 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.

Click on **Create bucket** in bottom.

Check your created bucket.

Name	AWS Region	Access	Creation date
bucketname.com	US East (N. Virginia) us-east-1	Objects can be public	

**Step 3:** Here make the bucket public by applying policy.

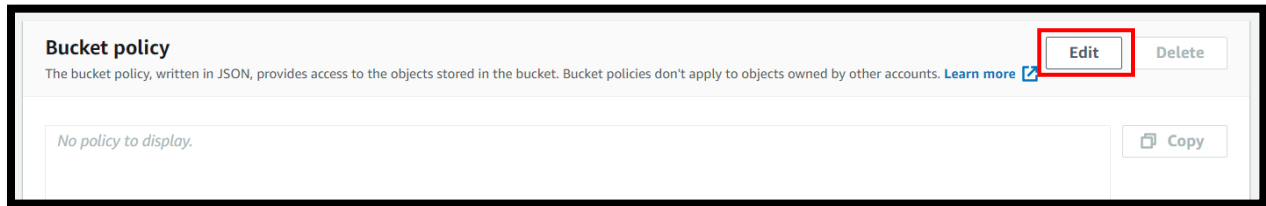
- Click on Bucket and open.
- Go to **Permissions**.

Amazon S3 > bucketname.com

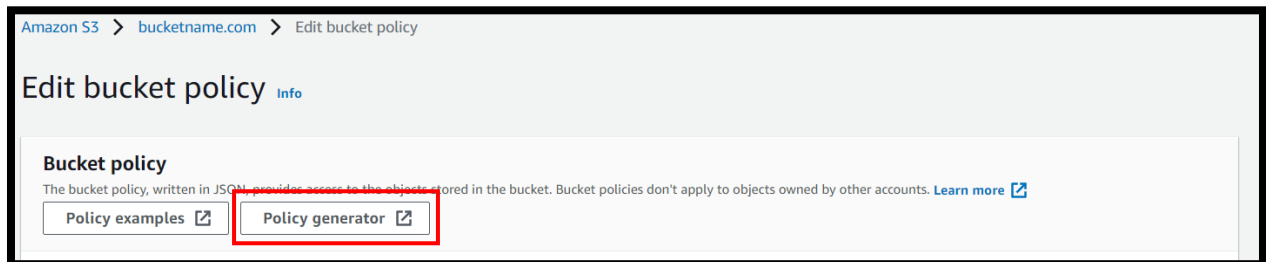
bucketname.com Info

Objects | Properties | **Permissions** | Metrics | Management | Access Points

- Scroll down Click **Edit** bucket Policy



- Click on **Policy generator**.



New tab of Policy generator will open.

- Select **Type of Policy** as **S3 Bucket Policy** from drop down.
- In the textbox labelled as **Principal** enter asterisk (\*).
- Ensure that the AWS Service, **Amazon S3** is selected.
- Select the **GetObject** option from the **Actions** drop down.
- Copy and paste the **ARN** from the previous browser window and put /\* after the complete ARN. It will appear like **arn:aws:s3:::bucketname.com/\***
- Click on **Add Statement**.

**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

**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  ☐ All Services (\*)

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

Actions  ☐ All Actions (\*)

Amazon Resource Name (ARN)

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

Add Conditions (Optional)

Scroll down and click on **Generate Policy**.

You added the following statements. Click the button below to Generate a policy.

Principal(s)	Effect	Action	Resource	Conditions
• *	Allow	• s3:GetObject	arn:aws:s3:::bucketname.com/*	None

**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.

**Generate Policy** Start Over

Copy the JSON code from the Policy JSON Document window.

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": "Policy1638624980443",
  "Version": "2012-10-17",
  "Statement": [
    {
      "Sid": "Stmt1638624819238",
      "Action": [
        "s3:GetObject"
      ],
      "Effect": "Allow",
      "Resource": "arn:aws:s3:::bucketname.com/*",
      "Principal": "*"
    }
  ]
}
```

This AWS Policy Generator is provided for informational purposes only, you are still responsible for your use of Amazon Web Services technologies and ensuring that your use is in accordance with all applicable laws and conditions. This AWS Policy Generator is provided as-is without warranty of any kind. [Learn more](#)

Close

**Step 4:** Paste this JSON code in the text area under **Bucket policy editor**. Scroll down and click on **Save changes**.

Bucket ARN

arn:aws:s3:::bucketname.com


Policy

```
1 {
2   "Id": "Policy1638624980443",
3   "Version": "2012-10-17",
4   "Statement": [
5     {
6       "Sid": "Stmt1638624819238",
7       "Action": [
8         "s3:GetObject"
9       ],
10      "Effect": "Allow",
11      "Resource": "arn:aws:s3:::bucketname.com/*",
12      "Principal": "*"
13    }
14  ]
15 }
```

# Cloud Plus Plus Services



Navigate to the bucket level and you will notice the bucket access will be **public**.

Name	AWS Region	Access	Creation date
<input type="radio"/> bucketname.com	US East (N. Virginia) us-east-1	 Public	December 4, 2021, 18:15:47 (UTC+05:30)

**Step 5:** Upload four images in the bucket created above. We assume following images are uploaded for rest of the document.

- Image1.jpeg
- Image2.jpeg
- Image3.jpeg
- Image4.jpeg

Create a file named as **index.html** (note that the extension of the file is .html)

Add the following code in the html file and save.

```
<html xmlns="http://www.w3.org/1999/xhtml" >
<head>
<title>My Website Home Page</title>
</head>
<body>
<h1>Welcome to my website</h1>
<p>Now hosted on Amazon S3!</p>
<a href="Image1.jpeg">IMAGE 1</a>
<a href="Image2.jpeg">IMAGE 2</a>
<a href="Image3.jpeg">IMAGE 3</a>
<a href="Image4.jpeg">IMAGE 4</a>
</body>
</html>
```

Create a file named as **error.html** (note that the extension of the file is .html)

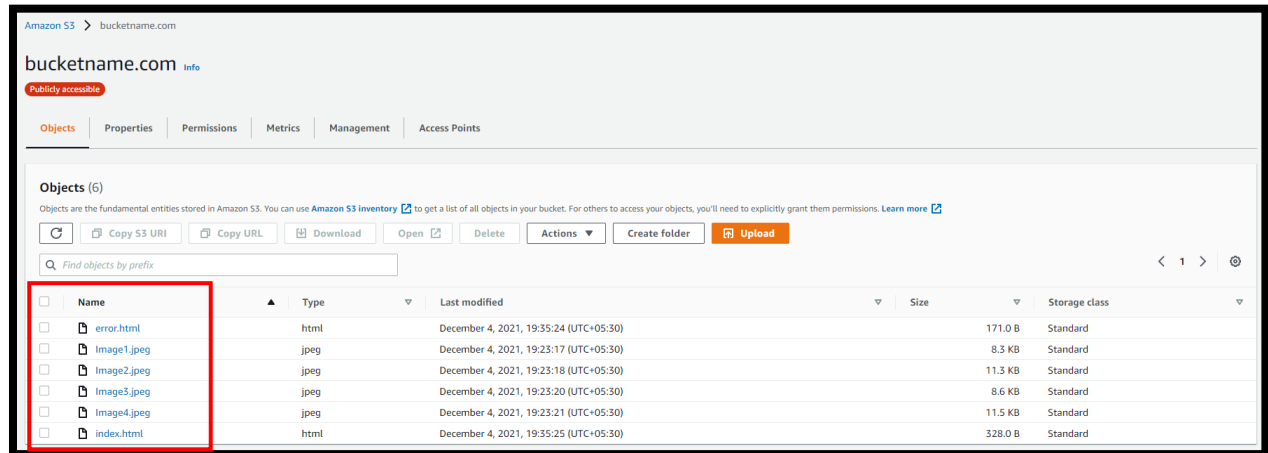
Add the following code in the html file and save.

```
<html xmlns="http://www.w3.org/1999/xhtml" >
<head>
<title>Error Page</title>
</head>
<body>
<h1>Sorry!!</h1>
<p>It seems there is an error!</p>
</body>
</html>
```

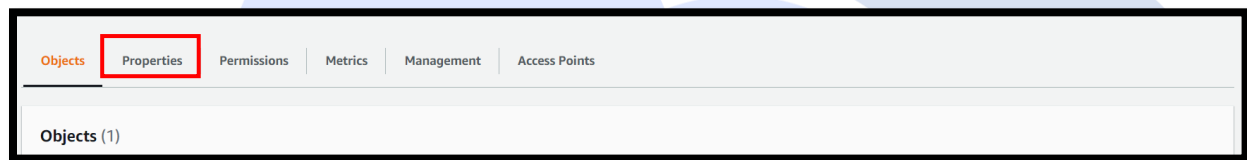
# Cloud Plus Plus Services



**Step 6:** Upload both **error.html** and **index.html** in the bucket.

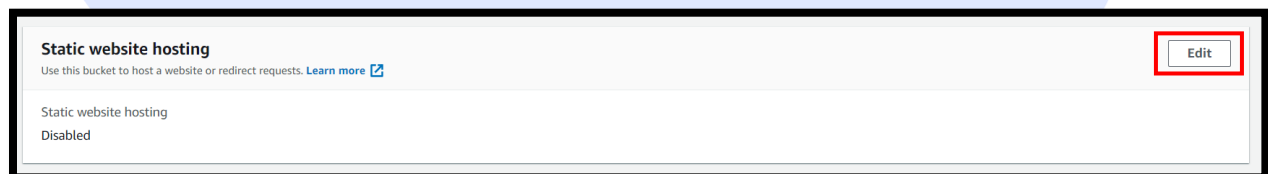


**Step 7:** In bucket level go to **Properties**.



Scroll down to bottom of the page.

Click **Edit** besides **Static website hosting**.



Click on **Enable** radio button for Static website hosting

- Hosting Type: **Host a static website**
  - For Index document type **index.html**
  - Similarly, for Error document type **error.html**
- Note: The file name is case-sensitive.

Click on **Save changes** button at bottom right corner.

# Cloud Plus Plus Services



**Static website hosting**  
Use this bucket to host a website or redirect requests. [Learn more](#)

Static website hosting  
☐ Disable  
☒ Enable

Hosting type  
☒ Host a static website  
Use the bucket endpoint as the web address. [Learn more](#)  
☐ Redirect requests for an object  
Redirect requests to another bucket or domain. [Learn more](#)

**Index document**  
Specify the home or default page of the website.

**Error document - optional**  
This is returned when an error occurs.

For your customers to access content at the website endpoint, you must make all your content publicly readable. To do so, you can edit the S3 Block Public Access settings for the bucket. For more information, see [Using Amazon S3 Block Public Access](#)

Check that this **Static Website hosting** property is applied.

**Static website hosting**  
Use this bucket to host a website or redirect requests. [Learn more](#) Edit

Static website hosting  
Enabled

Hosting type  
Bucket hosting

Bucket website endpoint  
When you configure your bucket as a static website, the website is available at the AWS Region-specific website endpoint of the bucket. [Learn more](#)  
<http://bucketname.com.s3-website-us-east-1.amazonaws.com>

**Step 8:** Click on the **Bucket website endpoint**.

**Static website hosting**  
Use this bucket to host a website or redirect requests. [Learn more](#) Edit

Static website hosting  
Enabled

Hosting type  
Bucket hosting

Bucket website endpoint  
When you configure your bucket as a static website, the website is available at the AWS Region-specific website endpoint of the bucket. [Learn more](#)  
<http://bucketname.com.s3-website-us-east-1.amazonaws.com>

Similar screen as below would appear. Click on any one of the **image hyperlink** and check if your static website is working.

# Cloud Plus Plus Services



Further if you don't need the website make sure you delete the bucket created in this lab.

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