How do I create a static website using Amazon Simple Storage Service (Amazon S3)?

Short description

You can create a static website by creating an S3 bucket, enabling website hosting, and uploading website files to the S3 bucket using the Amazon Simple Storage Service (Amazon S3).

Before you begin

Ensure you have an AWS account. For more information, see How do I create and activate a new AWS account?

Resolution

Amazon S3 allows you to create public cloud object storage containers known as buckets. You can create a new bucket using the Amazon S3 console and store all your static website files. You can upload these static files in your desired bucket within the console by clicking **Upload** in the **Object** tab or by dragging and dropping your files.

After uploading your static website files to your bucket, you can enable the static website hosting settings in the **Properties** tab of your bucket. You must configure and provide the name of your index document. For more information, see Configuring an index document. You can also provide an optional custom error document for error handling. For more information, see Configuring a custom error document.

To make your website publicly accessible, you must configure bucket permissions by providing a **Bucket policy** that allows read access to your website to all users. You can add the policy in the **Permissions** tab of your bucket. After completing all the required configuration, you can access your static website using the S3 website endpoint URL. You can obtain the endpoint from the **Static Website Hosting** section of the bucket's properties.

To host a static website using Amazon S3:

1. [Create an Amazon S3 bucket](#).
2. Upload the static website files to your bucket:
    a. In the **Buckets** list, choose your newly created bucket.
    b. Select the **Objects** tab and choose **Upload**.
       For more information, see [Upload an object to your bucket](#).
3. [Enable static website hosting using the S3 console](#).
4. Configure bucket permissions:
    a. Navigate to the **Permissions** tab in your bucket.
    b. Scroll to the **Bucket policy** section and select **Edit**.
    c. Copy and paste the following bucket policy in the **Bucket Policy Editor**:

```
{
    "Version": "2012-10-17",
    "Statement": [
        {
            "Sid": "PublicReadGetObject",
            "Effect": "Allow",
            "Principal": "*",
            "Action": [
                "s3:GetObject"
            ],
            "Resource": [
                "arn:aws:s3:::Bucket-Name/*"
            ]
        }
    ]
}
```

> **Note:** Replace `Bucket-name` with the name of your bucket.

    d. Select **Save changes**.
5. Access your static website:
    a. Navigate to the **Properties** tab of your bucket.
    b. Copy the website endpoint URL from the **Static website hosting** section and paste it into a web browser.

You are now able to access your static website created using Amazon S3.