

S3: Static website hosting

- Trainer will provide the static website page

<https://github.com/amitopenwriteup/static-website-example.git>

- Download and upload all the website of static website
-
- In bucket, go to properties section of bucket

The screenshot shows the AWS S3 console interface for a bucket named 'myamit23bucket'. The 'Properties' tab is selected, showing the 'Bucket overview' section. It displays the 'AWS Region' as 'Asia Pacific (Mumbai) ap-south-1' and the 'Amazon Resource Name (ARN)' as 'arn:aws:s3:::myamit23bucket'. Other tabs like 'Objects', 'Permissions', 'Metrics', 'Management', and 'Access Points' are visible at the top.

Provide the source info

The screenshot shows the 'Origin' configuration form in the AWS S3 console. It includes fields for 'Origin domain' (with a search bar containing 'mybucket23amit.s3.us-east-1.amazonaws.com'), 'Origin path - optional' (with a text box containing '/static-website-example-master/static-website-example-master'), and 'Name' (with a text box containing 'mybucket23amit.s3.us-east-1.amazonaws.com'). A warning message is displayed: 'This S3 bucket has static web hosting enabled. If you plan to use this distribution as a website, we recommend using the S3 website endpoint rather than the bucket endpoint.' A button labeled 'Use website endpoint' is also present.

- End of the page you will find, Static website hosting tab

Enable the static website

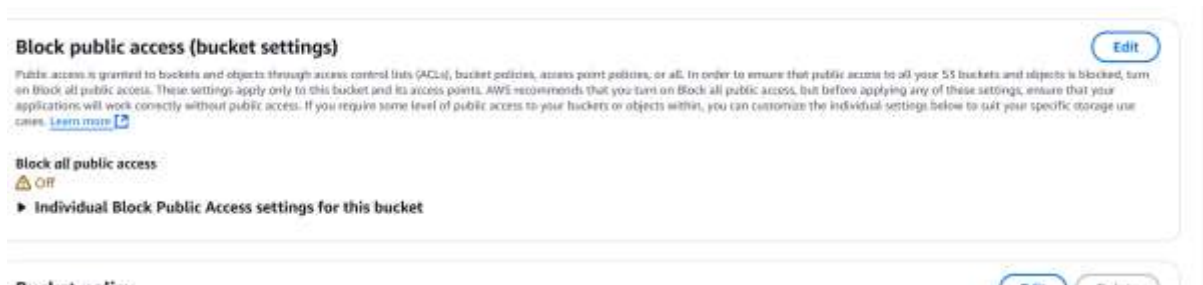
Check the link and you will find the website

If you click on bucket website endpoint, it will give the error message

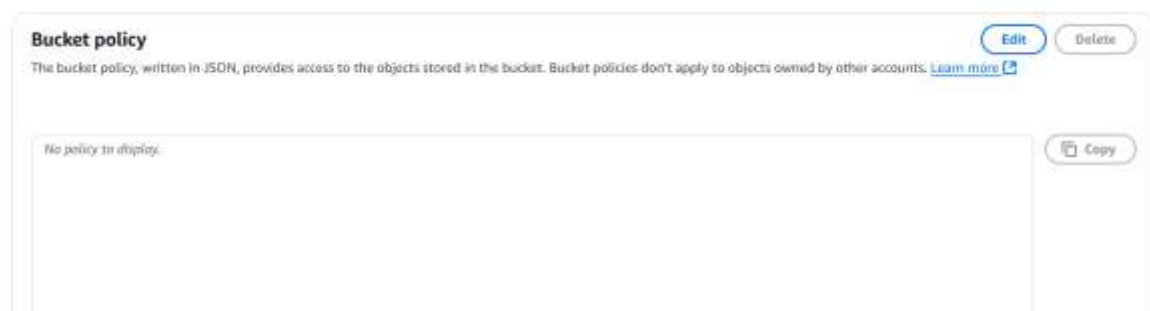
Go to Bucket Permission tab



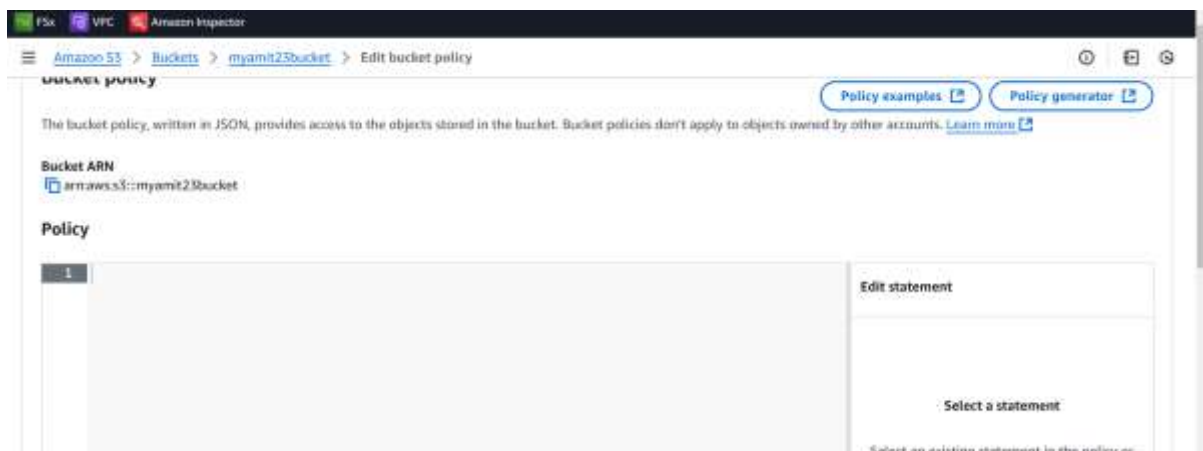
Click on edit and off the public access



If you check the website endpoint, still it will not accessible since we have not created the policy



Click on Edit of bucket policy, and click on policy generator



Select the policy type: S3bucket policy

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.

Provide principal: Whom to provide the access

Effect ☒ Allow ☐ Deny

Principal

Use a comma to separate multiple values.

AWS Service Amazon S3

☐ All Services

In Action field, select get object

Use a comma to separate multiple values.

AWS Service Amazon S3

☐ All Services

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

Actions 1 Action(s) Selected

- ☐ GetMultiRegionAccessPointPolicy
- ☐ GetMultiRegionAccessPointPolicyStatus
- ☐ GetMultiRegionAccessPointRoutes
- ☒ GetObject
- ☐ GetObjectAcl
- ☐ GetObjectAttributes
- ☐ GetObjectLegalHold
- ☐ GetObjectRetention

☐ All Actions ('*')

Resource Name (ARN)

{BucketName}/{KeyName}.

More Principals.

Generate Policy

Bucket Arn, you will go to bucket tab

Edit bucket policy [info](#)

Bucket policy

[Policy examples](#)[Policy generator](#)

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](#)

Bucket ARN
[icon](#) am:aws:s3::myarnit23bucket

Policy

1

Edit statement

Click on Add statement, and generate policy

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

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

| Principal(s) | Effect | Action | Resource | Conditions |
|--------------|--------|----------------|----------------------------|------------|
| • mybucket | Allow | • s3:GetObject | am:aws:s3::myarnit23bucket | None |

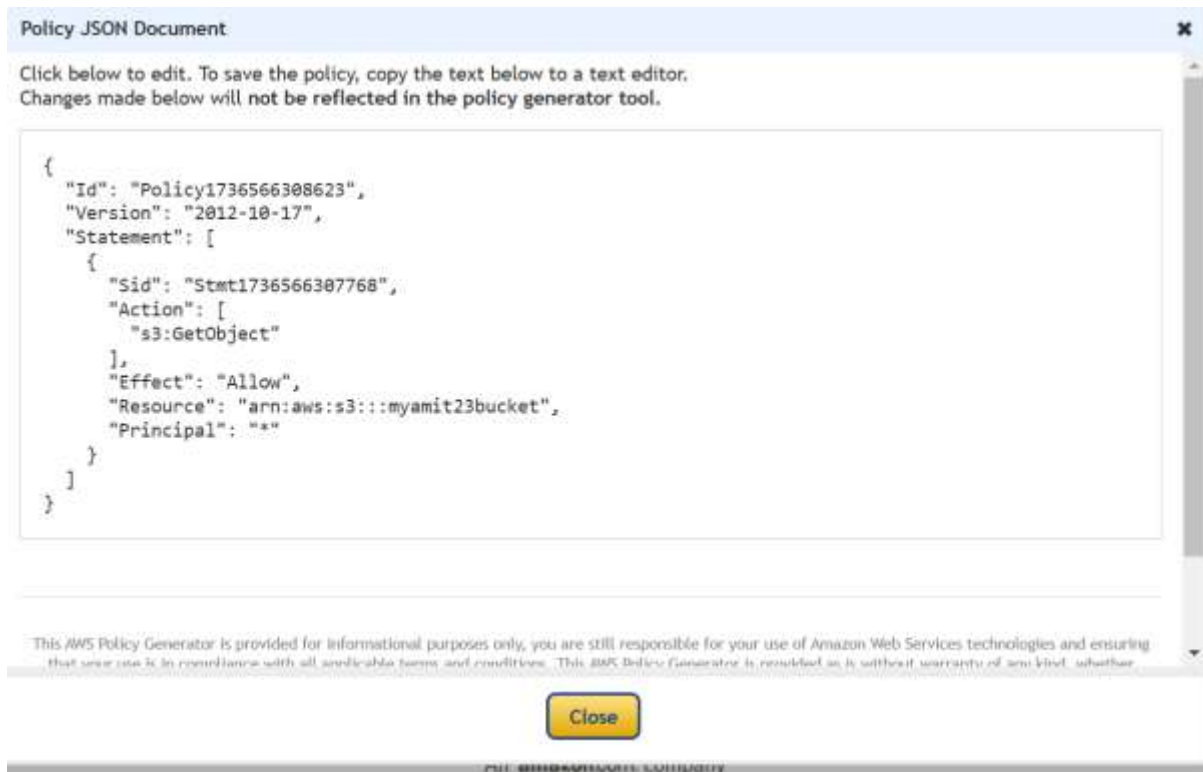
Step 3: Generate Policy

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

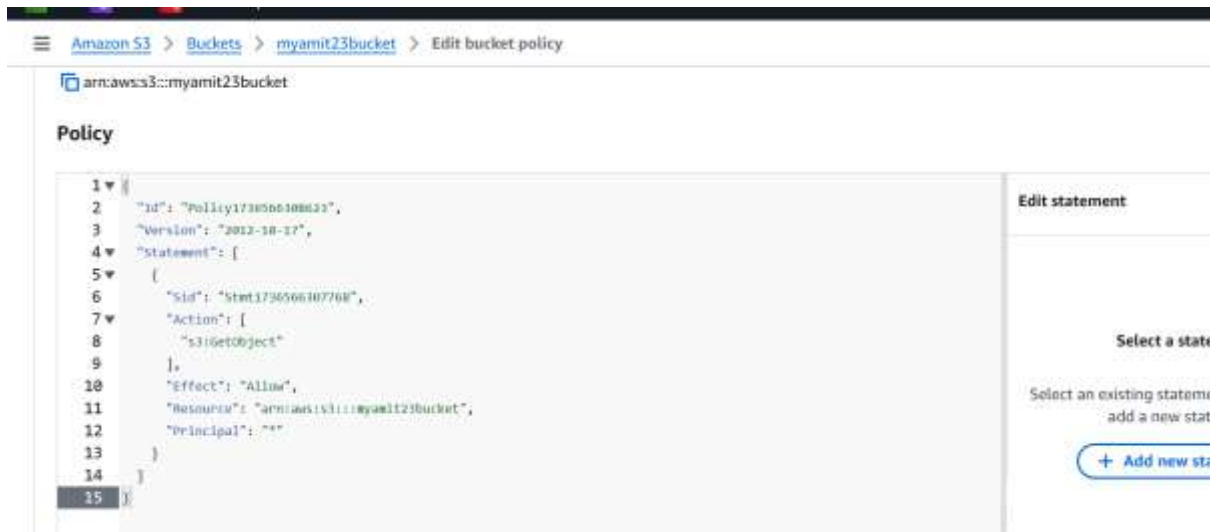
[Generate Policy](#)[Start Over](#)

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 compliance with all applicable terms and conditions. This AWS Policy Generator is provided as is without warranty of any kind, whether express, implied, or statutory. This AWS Policy Generator does not modify the applicable terms and conditions governing your use of Amazon Web Services technologies.

Copy the json format, from the site



Go to bucket add policy option copy this json , If try to change it will fail



Go to Resource, make this change

```

{
  "Version": "2012-10-17",
  "Id": "Policy1736566538815",

```

```
"Statement": [  
  {  
    "Sid": "Stmt1736566307768",  
    "Effect": "Allow",  
    "Principal": "*",  
    "Action": "s3:GetObject",  
    "Resource": "arn:aws:s3:::myamit23bucket/*"  
  }  
]  
}
```

Now save the changes. Now try to access the bucket endpoint, it must work