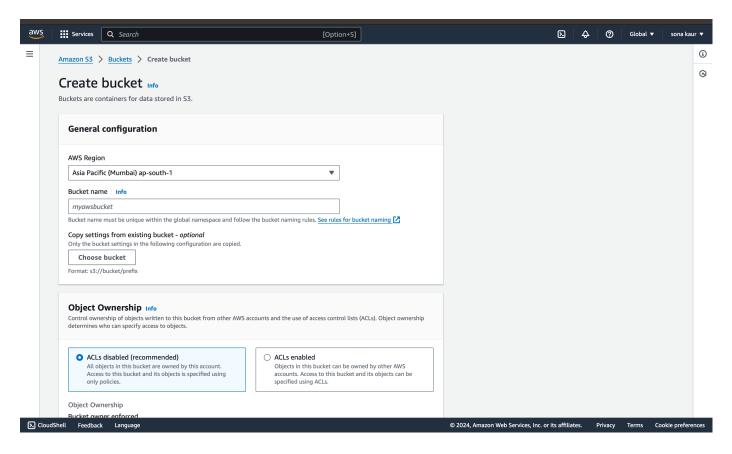
HOSTING A STATIC WEBSITE BY USING S3.

• Amazon simple storage services S3 provides the object based storage where data is stored in the form of s3 bucket in district unit which is called object instead of files. Amazon S3 buckets are similar to file folders and can be used to store, retrieve, backup and access objects. First we will start creating a s3 bucket by clicking create bucket and after that we will be able to see some general configuration in which we will select our region in this I have selected my nearest region Mumbai. We will give name to our s3 bucket which should be unique because it works globally.



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.

• In block public access settings for this bucket we will unselect the defaults and select the acknowledge point for public access. In bucket versioning we will keep it disable as we don't want it right now to prevent any datas and click to create bucket.

Bucket Versioning

Versioning is a means of keeping multiple variants of an object in the same bucket. You can use versioning to preserve, retrieve, and restore every version of every object stored in your Amazon S3 bucket. With versioning, you can easily recover from both unintended user actions and application failures. Learn more

Bucket Versioning

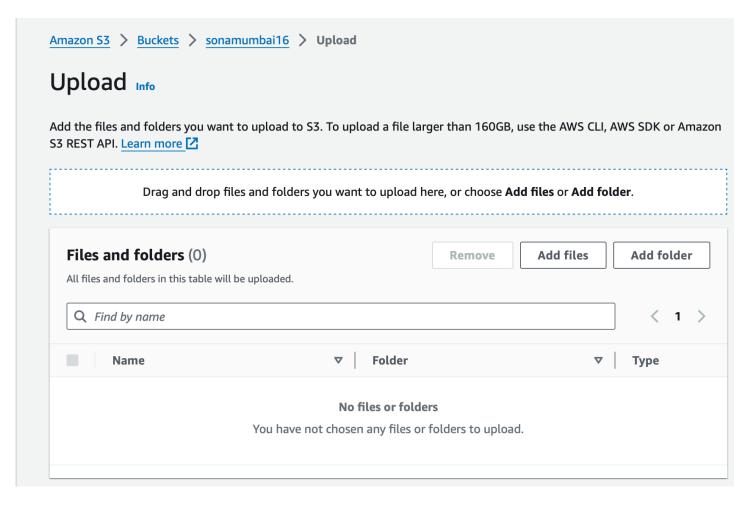
- Disable
- Enable

• Now we will make a simple index.html file and save it to our computer and we will upload it. We will try to open it and see the object by clicking in url provided there as we can see it is saying access denied. So, we need to generate a S3 policy for this.

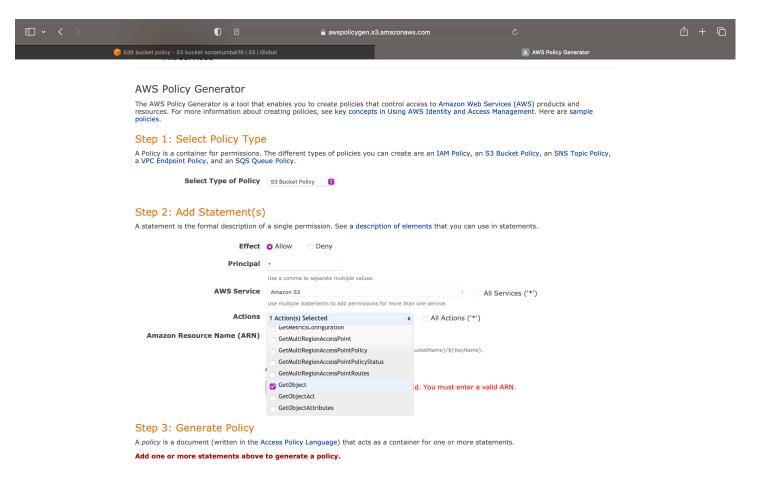
Default encryption Info Server-side encryption is automatically applied to new objects stored in this bucket.
Encryption type Info
Server-side encryption with Amazon S3 managed keys (SSE-S3)
Server-side encryption with AWS Key Management Service keys (SSE-KMS)
 Dual-layer server-side encryption with AWS Key Management Service keys (DSSE-KMS) Secure your objects with two separate layers of encryption. For details on pricing, see DSSE-KMS pricing on the Storage tab of the Amazon S3 pricing page.
Bucket Key Using an S3 Bucket Key for SSE-KMS reduces encryption costs by lowering calls to AWS KMS. S3 Bucket Keys aren't supported for DSSE-KMS. Learn more Disable
• Enable
► Advanced settings
(3) After creating the bucket, you can upload files and folders to the bucket, and configure additional bucket settings.

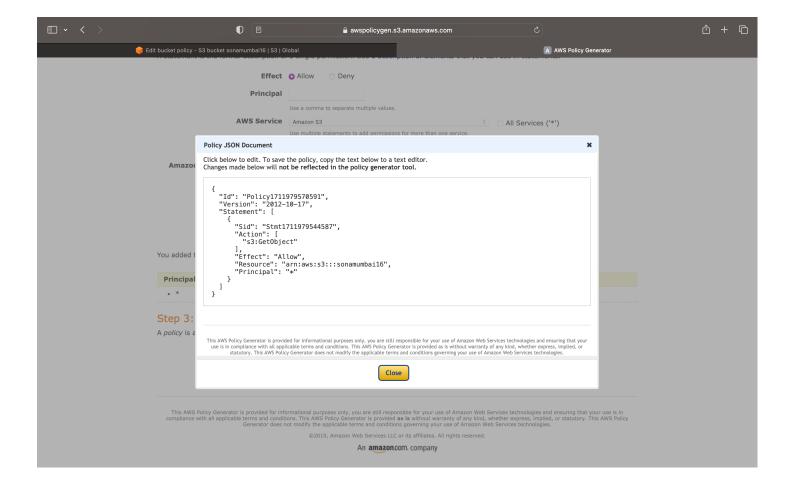
Create bucket

Cancel



• We will go to Amazon policy generator to generate a policy to see our object. In actions we will select get object and copy the ARN (Amazon resource name) from the object page and paste it to the amazon policy generator page add statement and generate policy.





- We will copy the generated JSON policy and paste it in our object permission page at bucket policy and edit it by adding /* after bucket name and save changes. Now we will open url and we will be able to see the object.
- In properties we will change the static website hosting to enable and fill the essentials and save changes. Now we are ready to host static website by using s3.

