



PROJECT 2

Deploy A Static Website Using Amazon

Presented by AMOD PATHAK



Introduction :-

Through this project we will learn about creation of a static website.

We will learn to create static website and deploy it using AWS services.

A static website is a site that consist of different files such as HTML, CSS and JavaScript . Also it doesn't require server-side processing or a database.



STEPS/TOPICS

1. Sign in to AWS console and open the amazon s3 console.
2. Create a bucket.
3. Enable static website hosting.
4. Add a bucket policy that makes your bucket content publicly available.(Using ACL)
5. Hit your URL for your HTML file

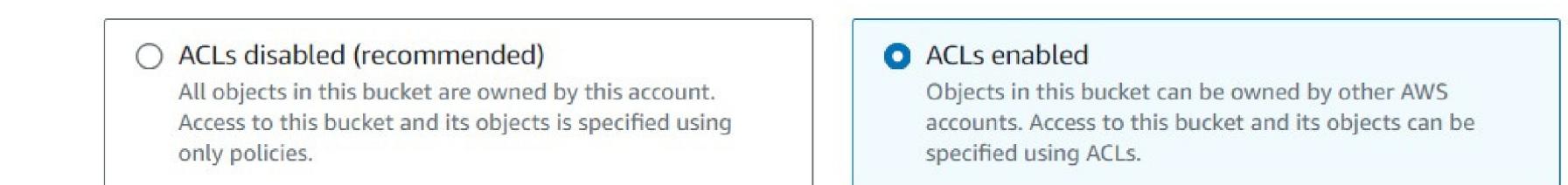
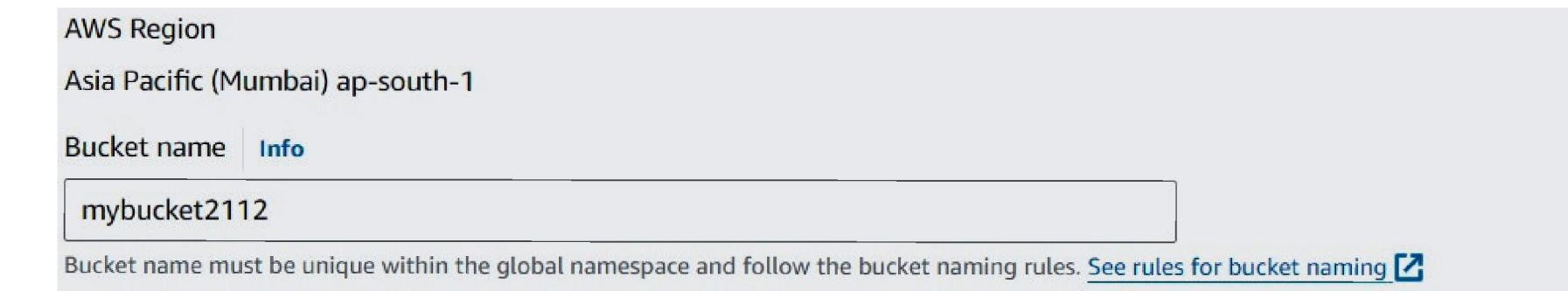


STEP -1 : SIGN IN TO AWS MANAGEMENT CONSOLE

1. First open AWS management console and then Sign in using your details
2. Now open “Services” option and open Amazon S3 console

STEP -2 : CREATE A BUCKET

1. Choose “Create Bucket”
2. Enter the Bucket name “mybucket2112”(You can create an unique bucket name)
3. Choose the region where you want to create a bucket.(The region that you choose determines your Amazon S3 website endpoint)
4. Now select the option “ACL enabled”
5. Remove selection from “block all public access” and give permission in next block
6. Now click on “Create bucket”
7. Now your bucket has been created
8. Now open your bucket to upload files



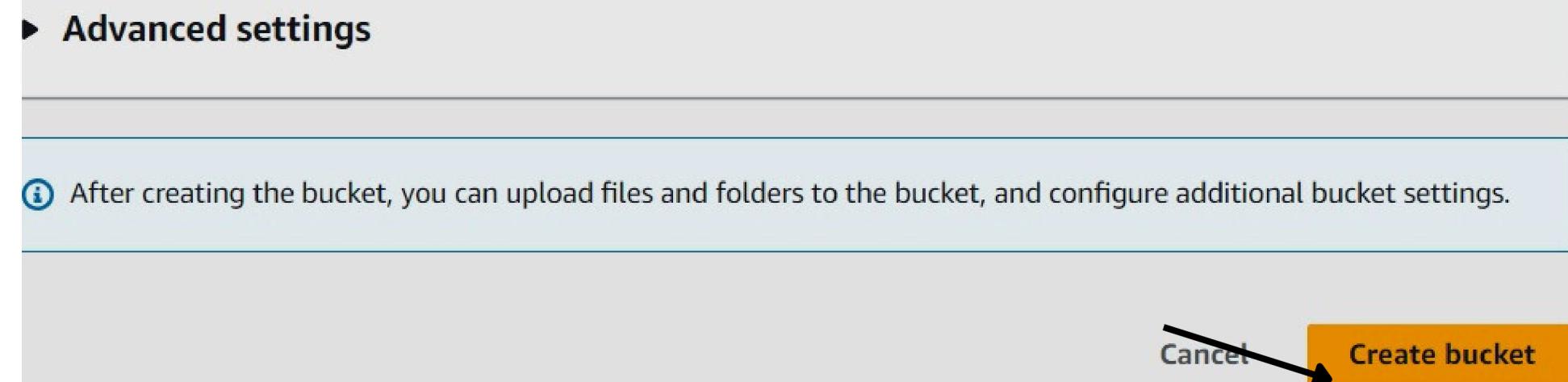
Block all public access
Turning this setting on is the same as turning on all four settings below. Each of the following settings are independent of one another.

- 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.



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.



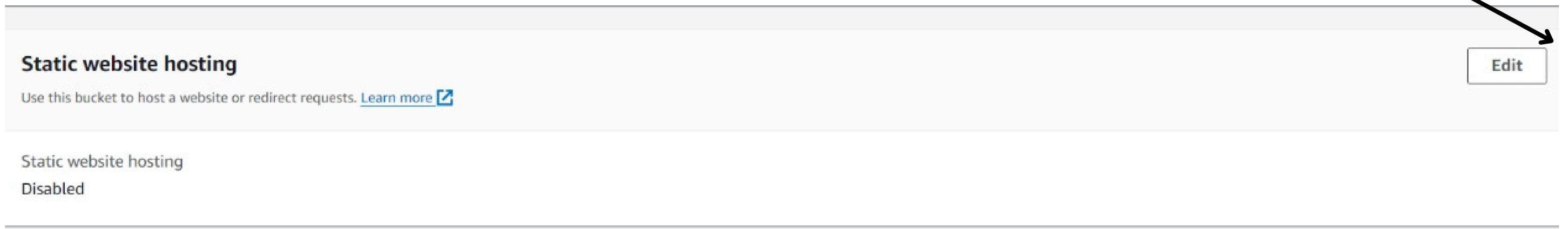
9. Now upload the HTML file in your bucket by clicking the upload button and add files

The screenshot shows the 'General purpose buckets' list page. It displays one bucket named 'mybucket2112' in the Asia Pacific (Mumbai) region (ap-south-1). The bucket was created on June 15, 2024, at 13:38:02 (UTC-03:00). The page includes a search bar, a 'Create bucket' button, and navigation controls for pages 1 and 2.

Name	AWS Region	IAM Access Analyzer	Creation date
mybucket2112	Asia Pacific (Mumbai) ap-south-1	View analyzer for ap-south-1	June 15, 2024, 13:38:02 (UTC-03:00)

STEP -3:ENABLE STATIC WEBSITE HOSTING

10. Now click “properties” then go to static website hosting and click on “edit”



Static website hosting

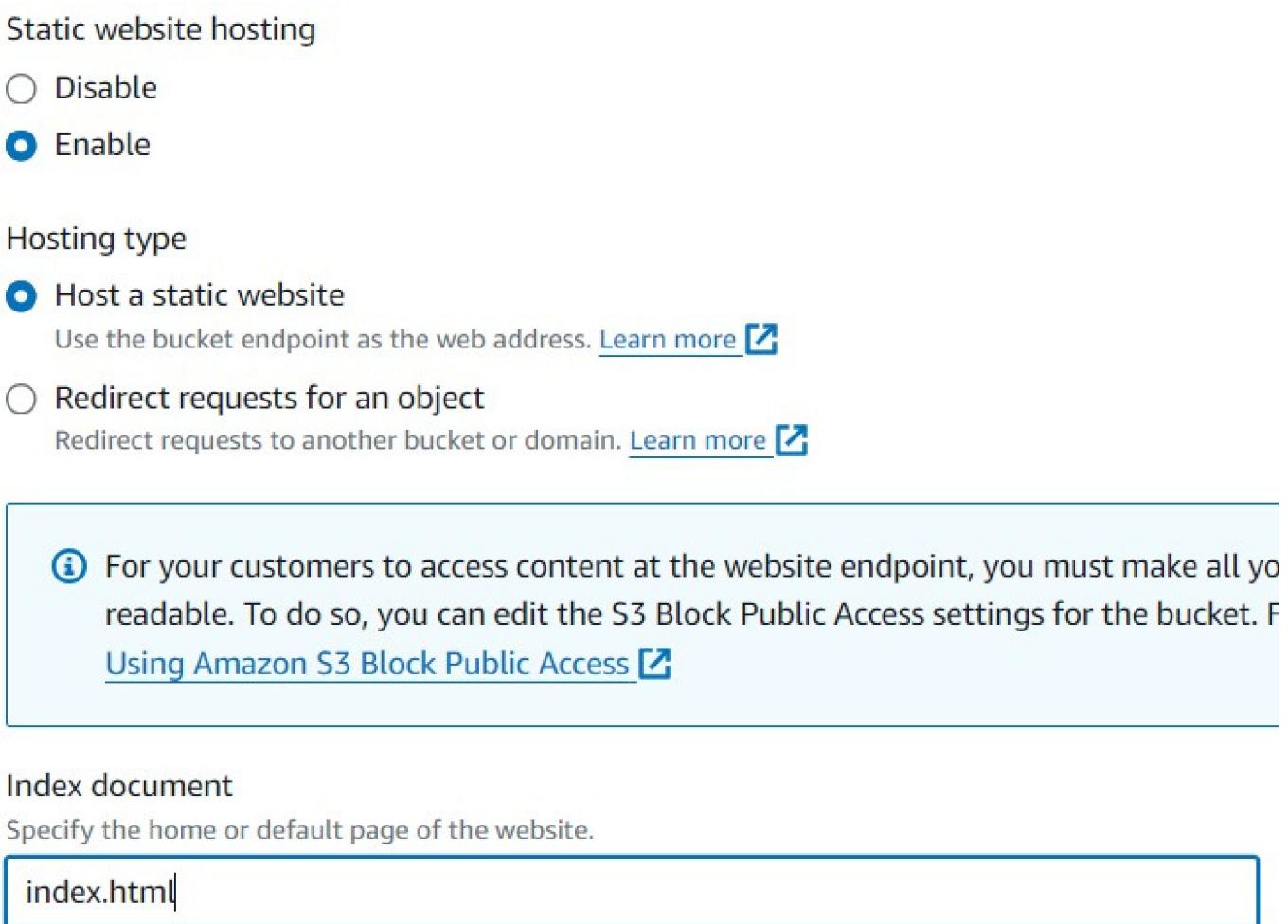
Use this bucket to host a website or redirect requests. [Learn more](#)

Static website hosting

Disabled

11. Enable static website hosting and enter your file name under “index document”

12. Save changes



Static website hosting

Disable
 Enable

Hosting type

Host a static website
Use the bucket endpoint as the web address. [Learn more](#)

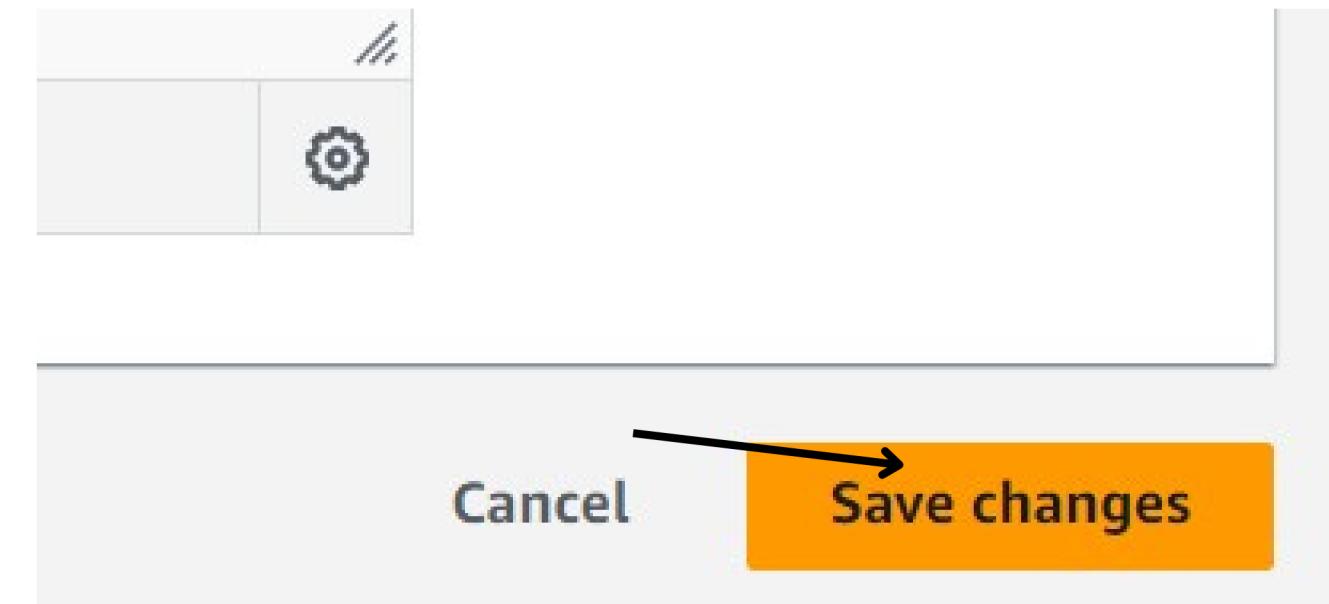
Redirect requests for an object
Redirect requests to another bucket or domain. [Learn more](#)

For your customers to access content at the website endpoint, you must make all your objects 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](#).

Index document

Specify the home or default page of the website.

index.html



STEP -4: Add a bucket policy that makes your bucket content publicly available(Using ACL)

13. Now go to “objects” and select your index html file and under “action” select “MAKE PUBLIC USING ACL”

mybucket2112 [Info](#)

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

Objects (1) [Info](#)

C Copy S3 URI Copy URL Download Open Delete Actions Create folder

Find objects by prefix

<input checked="" type="checkbox"/> Name	Type	Last modified	Size
index.html	html	June 15, 2024, 13:43:39 (UTC-03:00)	

Actions ▾ Share with a presigned URL
Calculate total size
Copy
Move
Initiate restore
Query with S3 Select
Edit actions
Rename object
Edit storage class
Edit server-side encryption
Edit metadata
Edit tags
Make public using ACL

STEP -5:Hit your URL for your HTML file

14. Then under properties section go to static website hosting , now click on the given URL your HTML FILE will be opened

Static website hosting

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

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://mybucket2112.s3-website.ap-south-1.amazonaws.com> 



Thank you

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