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Host a Website on Amazon S3



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Introducing Today's Project!

Today's project is...

Use Amazon s3(simple storage service) to host a static webpage. create a bucket with unique name enabling all the acl & bucket policies public, anyone access bucket & webpage.<http://nextwork-website-project-shivani.s3-website.us-east-2.amazonaws.com>

Static website hosting means...

<http://nextwork-website-project-shivani.s3-website.us-east-2.amazonaws.com/>

In AWS, I enabled static website hosting by...

ACLS, Permissions public

One thing I didn't expect...

sceret missions in the video was fun. i was able to create a domain and register my website connect to route 53.

This project took me...

I got to know so much about the s3 bucket which is very helpful.



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Create an S3 Bucket

Creating an S3 Bucket took me...

-S3 _create bucket _update the permissions -click on create

My Region configurations

Ohio, its near to my location and easy to access without any latency.

My Access Control List configurations

No ACLs , its the permission to the objects in the bucket , assigning who can access them.

S3 bucket naming is important!

Every bucket is uniquely named, data needs to be secure and see who can access the data. it will be easy to identify.



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The screenshot shows the AWS S3 console interface. At the top, a green banner displays a success message: "Successfully created bucket 'nextwork-website-project-shivani'". Below the banner, there's a navigation bar with "Amazon S3 > Buckets". A callout box highlights the "Account snapshot - updated every 24 hours" feature and provides a link to "View Storage Lens dashboard". The main content area shows a table of "General purpose buckets". The table has one item: "nextwork-website-project-shivani" located in "US East (Ohio) us-east-2". The table includes columns for Name, AWS Region, IAM Access Analyzer, and Creation date. Action buttons like "Copy ARN", "Empty", "Delete", and "Create bucket" are visible at the top right of the table.

Name	AWS Region	IAM Access Analyzer	Creation date
nextwork-website-project-shivani	US East (Ohio) us-east-2	View analyzer for us-east-2	July 18, 2024, 09:38:14 (UTC-04:00)



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Upload Website Files to S3

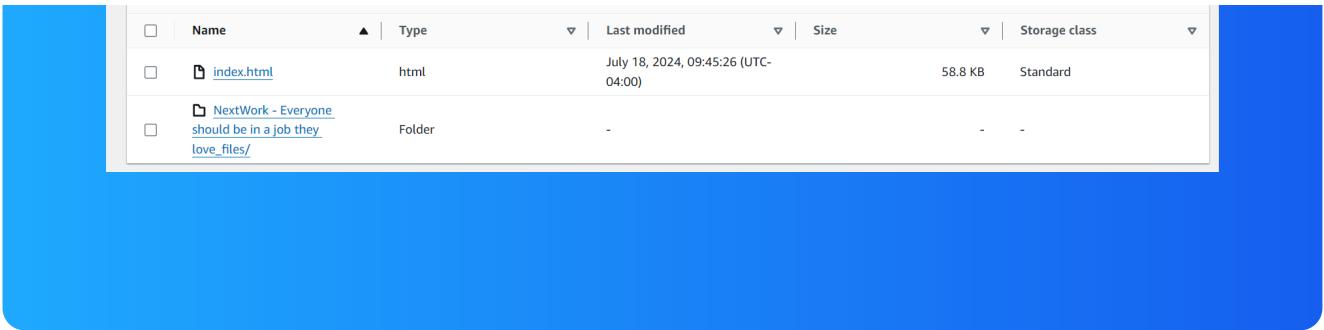
Next, I uploaded the following files...

One is the html and other is folder for images used in HTML.

How these files work...

yes html file has these images from the folder accessed.

The screenshot shows the AWS S3 console interface. At the top, it displays the bucket name: "nextwork-website-project-shivani" with an "Info" link. Below the bucket name is a navigation bar with tabs: "Objects" (which is underlined in blue), "Properties", "Permissions", "Metrics", "Management", and "Access Points". Under the "Objects" tab, there is a sub-header "Objects (2) Info". Below this, there is a toolbar with several buttons: "Copy S3 URI", "Copy URL", "Download", "Open", "Delete", "Actions ▾", "Create folder", and a large orange "Upload" button. A note below the toolbar states: "Objects are the fundamental entities stored in Amazon S3. You can use [Amazon S3 inventory](#) to get a list of all objects in your bucket. For others to access your objects, you'll need to explicitly grant them permissions. [Learn more](#)". At the bottom of the screen, there is a search bar with the placeholder "Find objects by prefix" and a "Show versions" link. On the right side, there are navigation arrows and a refresh icon.



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Static Website Hosting on S3

Static website hosting means...

store and view a static web page, on internet using a url.

How I enabled hosting...

-ACLS public -Permissions for bucket polices -Bucket versioning -Upload the files into the bucket -Enable the static web page hosting(which creates the URL)



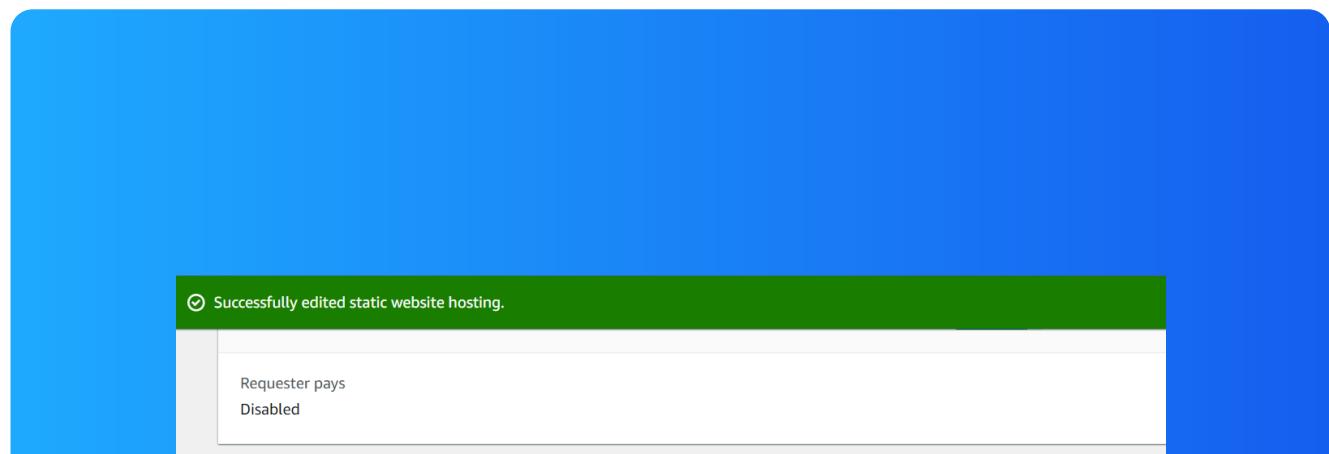
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Bucket Endpoints

Bucket Endpoint URLs

The URL will help us access the page.



The screenshot shows the AWS S3 console with a bucket named '3-website'. Under the 'Static website hosting' section, it indicates that static website hosting is enabled and the hosting type is Bucket hosting. In the 'Bucket website endpoint' section, there is a note: 'When you configure your bucket as a static website, the website is available at the AWS Region-specific website endpoint of the bucket.' Below this note is a green button labeled 'Bucket website endpoint copied' with a clipboard icon.

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An error!

When I first visited the bucket endpoint URL, I saw...

403 forbidden

Why did I get an error?

Acls not being public on for your buckets

The screenshot shows a 403 Forbidden error page. At the top, there are several navigation links: "Examples using php...", "html - How can i pr...", "How to handle HTM...", "Transform plain text...", "php - sending multi...", and "Developing Clo...". Below the links, the text "403 Forbidden" is displayed in large, bold, black font. Underneath, there is a bulleted list of error details:

- Code: AccessDenied
- Message: Access Denied
- RequestId: QPD4SJS4AZ0B9SM5
- HostId: v0l0UaAaNd5WilJqYumJ2jvedXJMzWMJutHzm+9WowxTQChTrGSvdtWB+dxtzABLk52xV5GYwg0=



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Success

How I resolved my error...

By making the acls public

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- RequestId: QPD4SJS4AZ0B9SM5
- HostId: v0l0UaAaNd5WilJqYumJ2jvedXJMzWMJutHzm+9WowxTQChTrGSvdtWB+dxtzABLk52xV5GYwg0=

The rest of the page is blank white space.



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