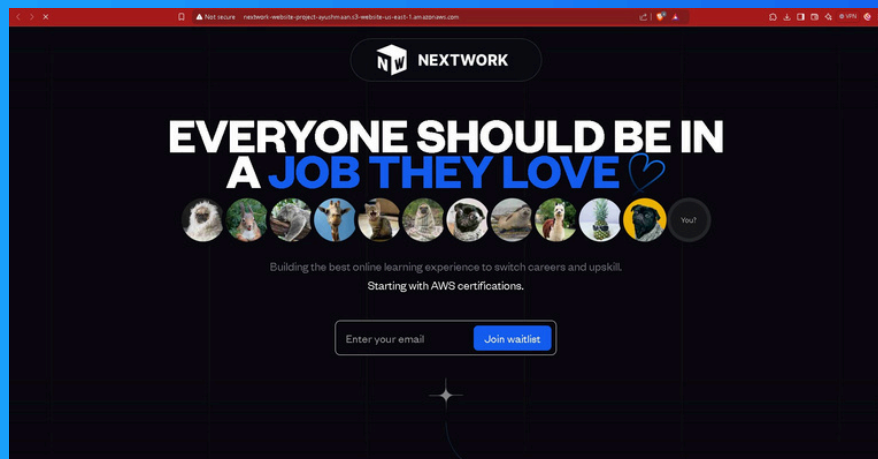




Host a Website on Amazon S3

AS

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Introducing Today's Project!

What is Amazon S3

AmazonS3 (SimpleStorage Service) is a scalable, high-speed, web-based cloud storage service designed for online backup and archiving of data, applications and static web hosting.

How I used Amazon S3 in this project

Used the S3 as my source for the website, where I upload all my website contents and using ACLs made the objects public and created a static website that can be hosted easily and accessed over the internet without any need for infrastructure.

One thing I didn't expect in this project was...

How easy is to bring your own code and use it to deploy a website without worrying about infrastructure or any other complexities.

This project took me...

From creating bucket to seeing the website took me less than 5 min if eliminate the object upload time.



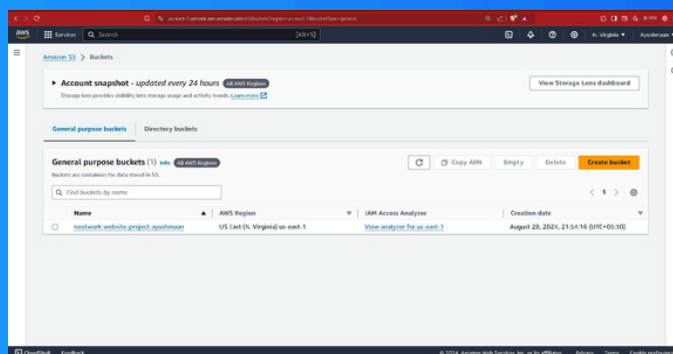
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How I Set Up an S3 Bucket

Creating an S3 bucket took me around a minute.

The Region I picked for my S3 bucket was us-east-1 because it has almost all the AWS services enabled making it easy to use other services as well.

S3 bucket names are globally unique! This means you've to create a bucket name that's never been created or exists on the AWS at the moment, which makes it unique as well as is fun to create new names for it.





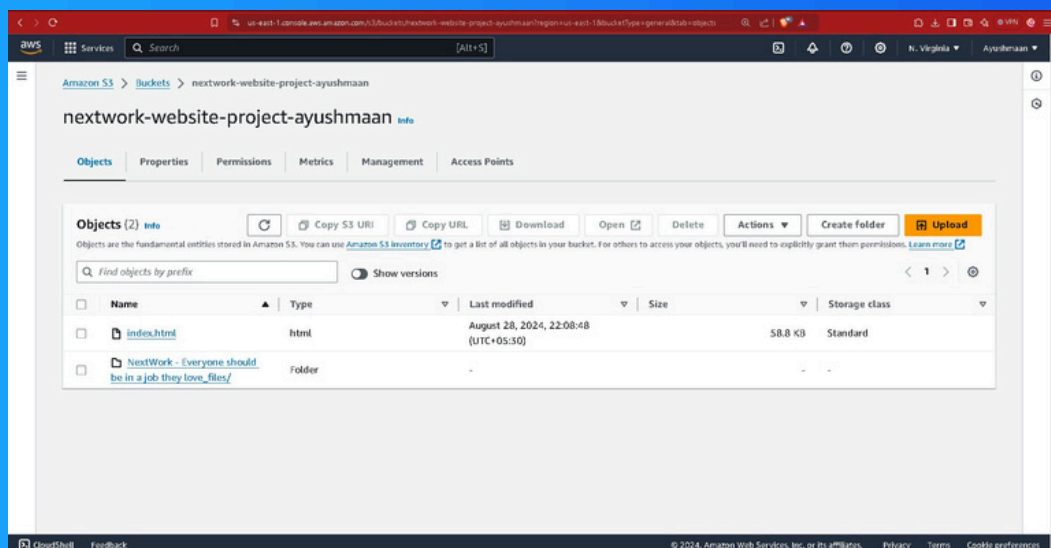
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Upload Website Files to S3

index.html and image assets

necessary declaration of my folder location and it's content, other is the folder that I uploaded two files to my S3 bucket - they were an index.html file containing contains some images and codes for the website.

Both files are necessary for this project as they together will result in a more structured and clean looking website.





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Static Website Hosting on S3

Website hosting means letting other's see the contents you're willing to share with them through images, texts or videos for their consumption over a specific webpage which they can access over the internet through their browser with an URL.

To enable website hosting with my S3 bucket, I went to "Permissions" and searched for the section "Static Website Hosting" and enable it.

Access Control Lists ACL

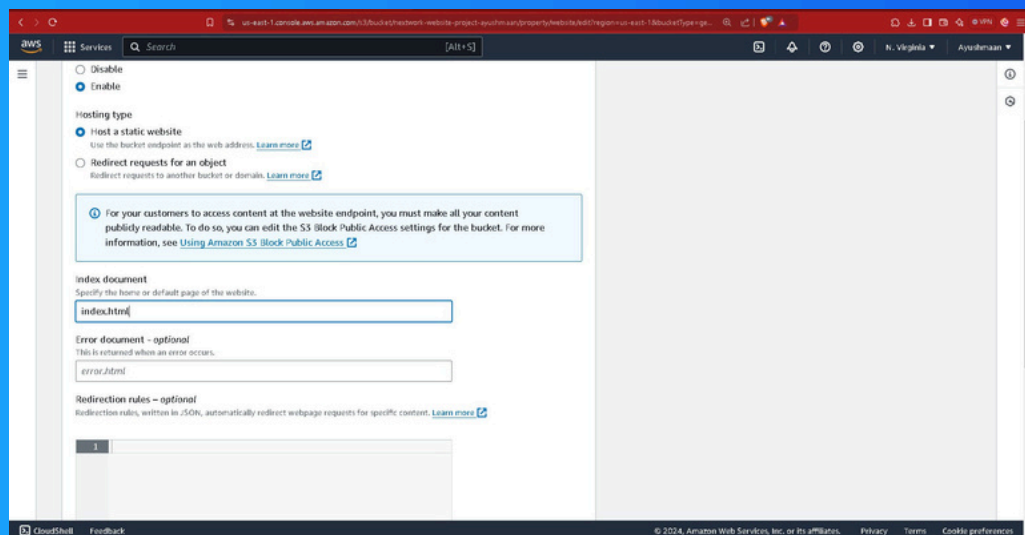
An ACL is a block of permissions per object or per bucket to allow the access of other users and their limit their actions based upon the requirement.



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Bucket Endpoints

Once static website is enabled, S3 produces a bucket endpoint URL, which is accessible over the internet by anyone having the URL, make sure the ACLs allow the public access for others or even you to see the content with the URL.



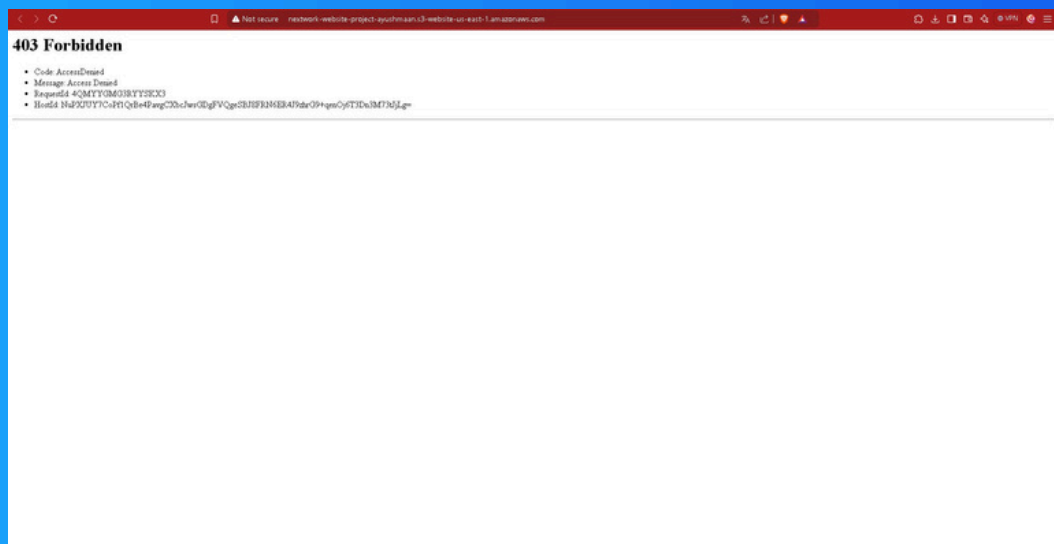


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An error!

When I first visited the bucket endpoint URL, I saw "403 Forbidden Code: AccessDenied Message: Access Denied" error.

The reason for this error was the bucket can be accessed publicly but we've not made it's objects public which means even though our bucket is fully accessible it's objects still remain inaccessible.





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Success!

To resolve this connection error, I selected all the objects then "Action" --> "Make public using ACL" save the changes and access the URL again in my case "http://nextwork-website-project-ayushmaan.s3-website-us-east-1.amazonaws.com/"

