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Host a Website on Amazon S3



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Finance, Construction with Electrical/Energy, Hospitality And Tourism, Languages, Manufacturing
And Textile)



Introducing Today's Project!

In this project, I will demonstrate how to host a website on S3. I'm doing this project to learn more about Storage service and how to securely help an organization host its website.

Tools and concepts

Services I used were Simple Storage Services and the Key concepts I learnt include creating a bucket, uploading a file, making it public and finally hostinhg a static website.

Project reflection

This project took me approximately 30 minute. The most challenging part was removing the 404 error. It was most rewarding to see after removing the error my website successfully hosted.

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How I Set Up an S3 Bucket

Creating an S3 bucket took me just 3 minutes.

The Region I picked for my S3 bucket was Singapore because I find it near my location.

S3 bucket names are globally unique! This means the name should not be already in use all over the world to make it specific to the organization.

The screenshot shows the AWS S3 console interface. At the top, there are two tabs: "General purpose buckets" (which is selected) and "Directory buckets". Below the tabs, a message states: "General purpose buckets (1) Info All AWS Regions Buckets are containers for data stored in S3." A search bar labeled "Find buckets by name" contains the placeholder text "nextwork-project-1". To the right of the search bar are navigation arrows and a refresh icon. Further to the right are buttons for "Copy ARN", "Empty", "Delete", and "Create bucket" (which is highlighted in orange). Below the search bar is a table with four columns: "Name", "AWS Region", "IAM Access Analyzer", and "Creation date". The table contains one row for the bucket "nextwork-project-1", which was created in the "Asia Pacific (Singapore) ap-southeast-1" region on April 27, 2025, at 07:50:41 (UTC-07:00). There is also a link "View analyzer for ap-southeast-1".

Name	AWS Region	IAM Access Analyzer	Creation date
nextwork-project-1	Asia Pacific (Singapore) ap-southeast-1	View analyzer for ap-southeast-1	April 27, 2025, 07:50:41 (UTC-07:00)

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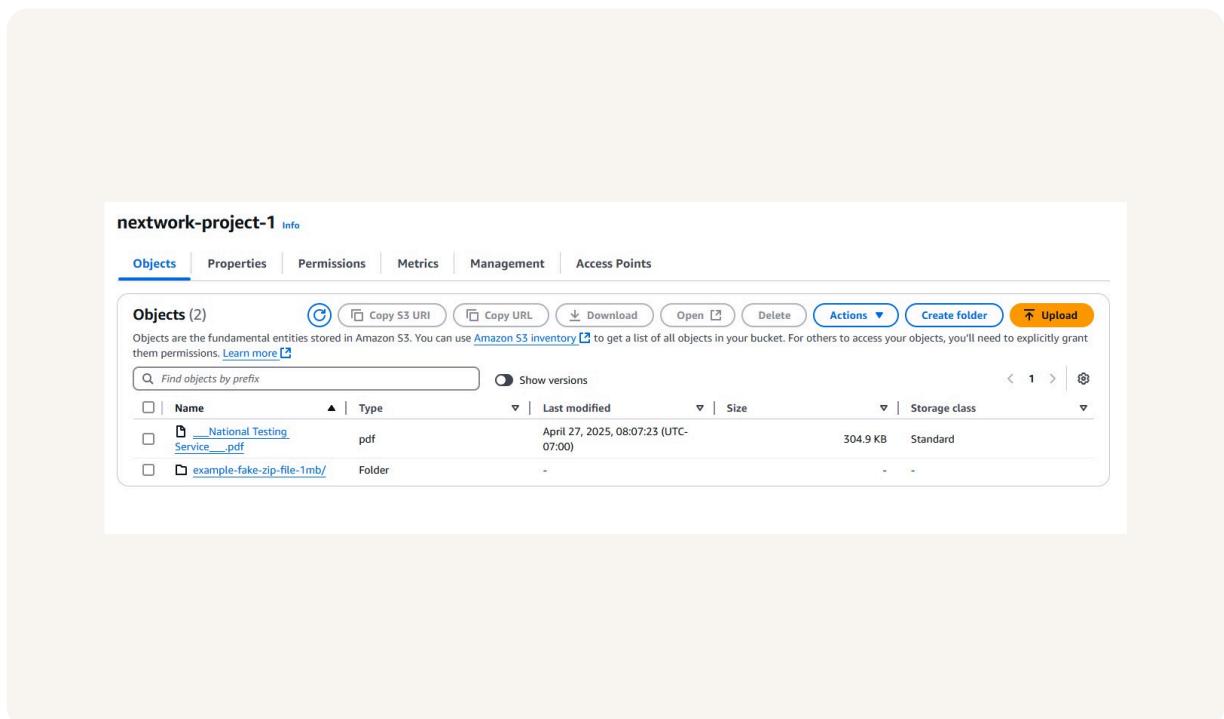
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Upload Website Files to S3

index.html and image assets

I uploaded two files to my S3 bucket - they were a HTML file and the unzip folder having image and text codes.

Both files are necessary for this project as both complete the website.



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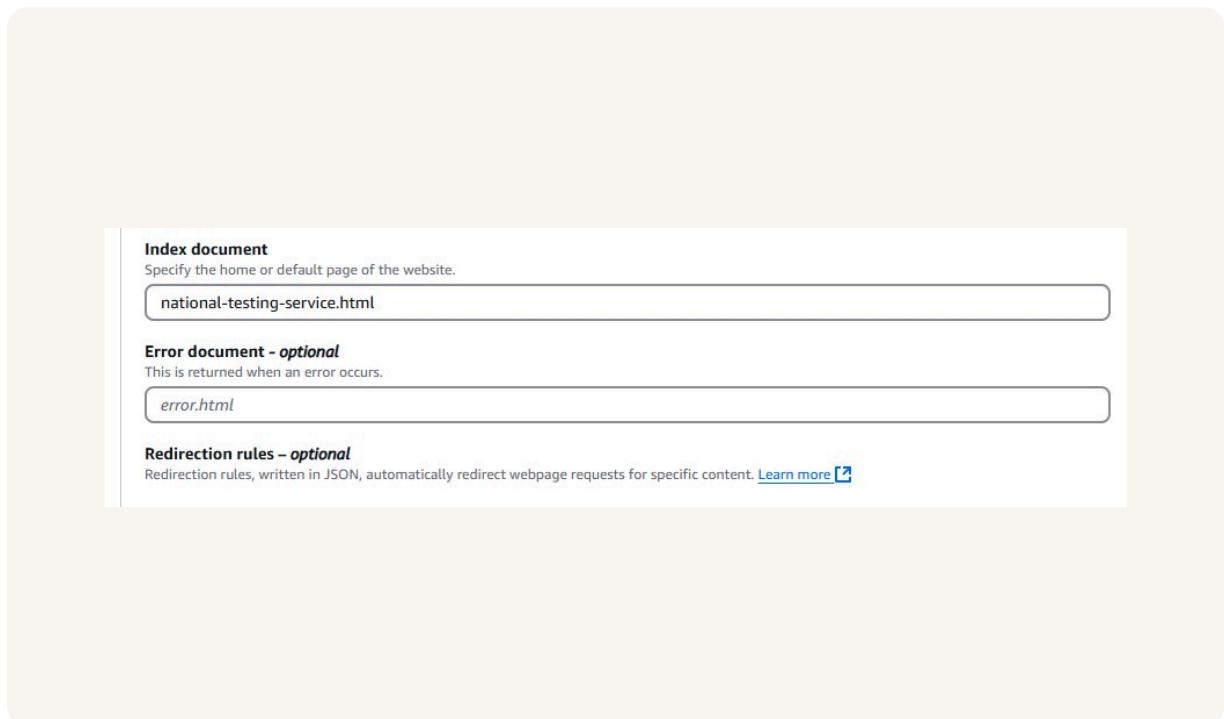
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Static Website Hosting on S3

Website hosting means to give website specific path to access and make it available for public online.

To enable website hosting with my S3 bucket, I clicked the properties option of bucket and scrolled down to static website hosting option and clicked edit, and enabled it.

An ACL is a set of rules that decides who can get access to a resource. I enable ACL.



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Bucket Endpoints

Once static website is enabled, S3 produces a bucket endpoint URL, which is
<http://nextwork-project-1.s3-website-ap-southeast-1.amazonaws.com>

When I first visited the bucket endpoint URL, I saw 404 error. The reason for this error was my file is private by default.

403 Forbidden

- Code: AccessDenied
- Message: Access Denied
- RequestId: A4571GOBH3TYDE6X
- HostId: VerG1AvREjJVfTy3204P6X1Tp/n7KnBuozTLFsv3wwdg48TzUBKXfGJEgQ+z0sziBGfzzhwhafzZzTn1lFZ8gEAZfYNtxJOWlp3z//7Qd4=

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Success!

To resolve this 403 Forbidden error, I went to the object section and made it public.





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