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# Host a Website on Amazon S3



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# Introducing Today's Project!

## What is Amazon S3

Amazon S3 is a platform to store and access data from anywhere on the web!

## How I used Amazon S3 in this project

In today's project, I created an S3 bucket, in which I uploaded content, in the form of html files and assets, and served it while modifying the ACL permissions to allow anyone to view the content.

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

I didn't expect to have any permission issues when accessing the endpoint. But this was very easy to resolve.

## This project took me...

This project only took me about one hour.



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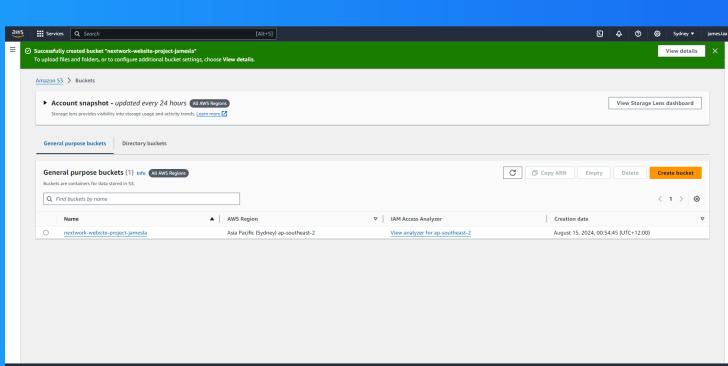
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# How I Set Up an S3 Bucket

Creating an S3 bucket took me about 30 seconds. I found it quite simple and straight forward.

The region I picked for my S3 bucket was Asia Pacific (Sydney) because it is the closest region to me.

S3 Bucket names are globally unique! This means that nobody, using AWS, is able to use the same Bucket name as the one I used to name my bucket.





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# Upload Website Files to S3

## index.html and image assets

I uploaded two files to my S3 bucket - they were an index.html file, and a folder containing assets for the website

Both files are necessary for this project as the purpose for the bucket is to deploy some content.

Files and folders (44 Total, 2.7 MB)		<input type="button" value="Remove"/>	<input type="button" value="Add files"/>	<input type="button" value="Add folder"/>
All files and folders in this table will be uploaded.				
<input type="checkbox"/>	Name		▼	Folder
<input type="checkbox"/>	1.jpg	NextWork - Everyone should be in a job they lov		
<input type="checkbox"/>	10.jpg	NextWork - Everyone should be in a job they lov		
<input type="checkbox"/>	11.jpg	NextWork - Everyone should be in a job they lov		
<input type="checkbox"/>	12.jpg	NextWork - Everyone should be in a job they lov		
<input type="checkbox"/>	2.jpg	NextWork - Everyone should be in a job they lov		
<input type="checkbox"/>	3.jpg	NextWork - Everyone should be in a job they lov		
<input type="checkbox"/>	4.jpg	NextWork - Everyone should be in a job they lov		
<input type="checkbox"/>	5.jpg	NextWork - Everyone should be in a job they lov		
<input type="checkbox"/>	6475b3ff555ad35ace9c09cc_tiktok-icon.svg	NextWork - Everyone should be in a job they lov		
<input type="checkbox"/>	6571371f7bfba8311970da19_NextWork-Logo.svg	NextWork - Everyone should be in a job they lov		



# Static Website Hosting on S3

Website hosting is what allows my website to become public on the internet. It basically tells the bucket that the purpose of this bucket is to host a website and it creates an URL for you.

To enable website hosting with my S3 bucket, I went to the properties tab in my bucket overview, and scrolled down to where the Static Website Hosting section was. From there I edited this property and enabled Static Website Hosting.

## Access Control Lists (ACL)

An ACL is a set of rules that decides who can get access to a resource. Enabling this in the S3 setup lets me control who can access and do things with the objects I upload into my bucket.



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# Bucket Endpoints

Once static website is enabled, S3 produces a bucket endpoint URL, which is the URL that users can use to view the static website.

Edit static website hosting [Info](#)

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

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 content publicly 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.

**Error document - optional**  
This is returned when an error occurs.

**Redirection rules - optional**  
Redirection rules, written in JSON, automatically redirect webpage requests for specific content. [Learn more](#)



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# An error!

When I first visited the bucket endpoint, I saw a 403 Forbidden error, indicating that I did not have the necessary permissions to access the endpoint.

The reason for this error was due to the lack of permissions on the ACLs.

## 403 Forbidden

- Code: AccessDenied
- Message: Access Denied
- RequestId: 3T94WJGYP60166EC
- HostId: 5IV90DY65+bwYPIuPFXN53qnBNf8+CQpWE/GZqNwZ3TYKXBF0H4fPtW+YVkgAnVYF1Du4Qd7L8g=

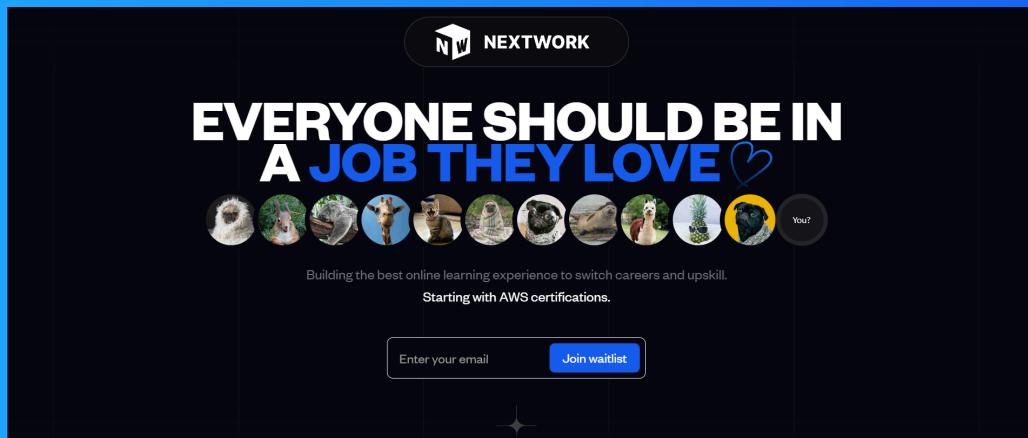


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# Success!

To resolve this connection error, I selected the objects in my S3 bucket, and clicked the button "Make public using ACL" under the Actions dropdown.





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