# How I Hosted A Website on S3

Stuart Turley
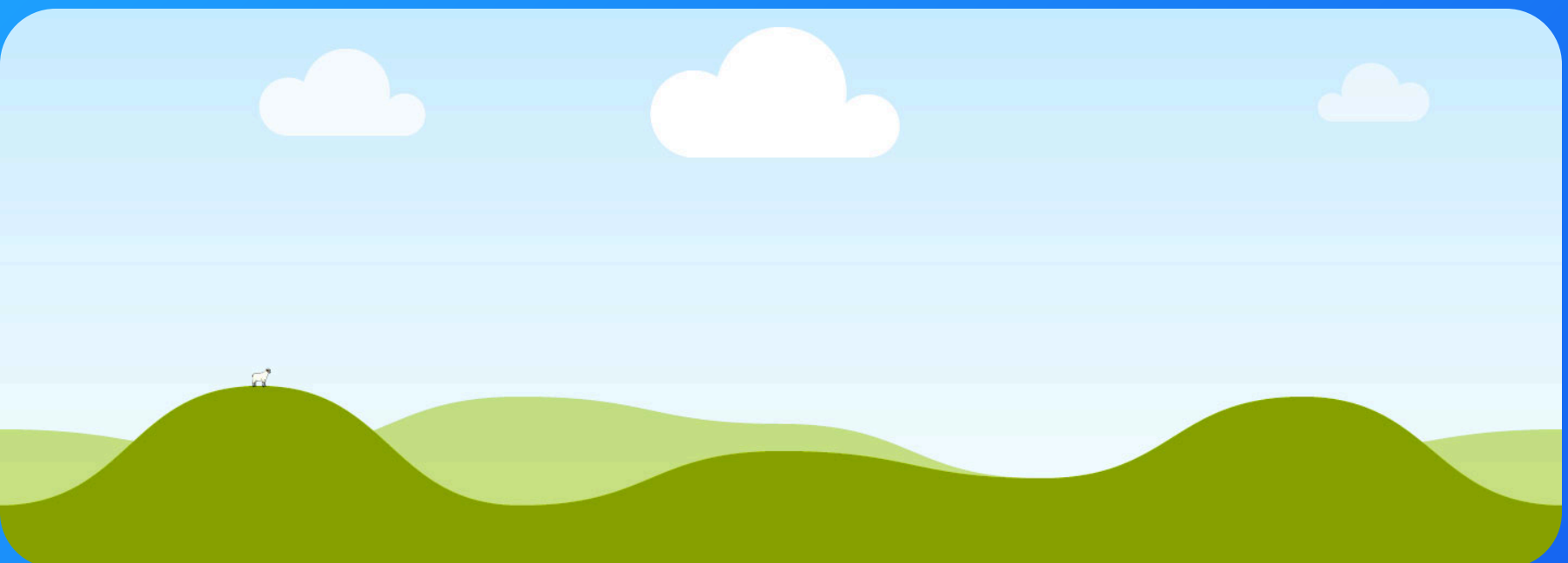
# Introducing Amazon S3!

## What it does & how it's useful

Amazon S3 is a scalable cloud service by AWS, which enables you to store objects of any size
Developers and teams use Amazon S3 because of its extremely high availiability (99.99999%) as well as offering strong security and cost effective pricing

## How I'm using it in today's project

I'm using Amazon S3 in this project to host a static website

## This project took me...

Project took me approx 30 mins, and documentation about the same.

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# Create an S3 bucket

- Creating an Amazon S3 bucket took me... [how much time did it take you?]

- Some of the configuration steps include:
    - The bucket's Region: London-eu-west-2
    - Access Control Lists: Configured ACL with public access
    - Bucket versioning: Disabled Versioning
    - Public Access: Public access Enabled

- S3 bucket name: nextwork-website-project-name-raziel007

My created bucket!

Amazon S3 > Buckets > nextwork-website-project-name-raziel007

## nextwork-website-project-name-raziel007 Info

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

**Objects (0)** Info

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. Lea

🔍 Find objects by prefix

| ☐ | Name ▲ | Type ▽ | Last modified ▽ | Size ▽ | Storage class ▽ |
|---|---|---|---|---|---|

**No objects**

You don't have any objects in this bucket.

⤴ Upload

# Upload website files to S3

- Next, I uploaded my website's files into my S3 bucket.

- There were 2 files to upload, these were index.html and a config file with images etc, this enabled the website to look professional

Objects successfully uploaded!

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# Static web hosting on S3

- Website hosting means...

- To enable website hosting: Configured these settings, Static web hosting: Choose Enable to allow website to be served
- Hosting type: Choose Host a static website.
- Index document: Enter index.html

Once static website is enabled, S3 produces a bucket endpoint URL: http://nextwork-website-project-name-raziel007.s3-website.eu-west-2.amazonaws.com/

Setting up static website hosting...

**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.

index.html

# An error!

- When I visited the bucket endpoint URL: 403 Error

- The reason for this error was: No public access yet, to make it public access, you select the bucket, action button, then allow public using ACL

The error!

## 403 Forbidden

- Code: AccessDenied
- Message: Access Denied
- RequestId: 1T1CM6HMQSHHS4CX
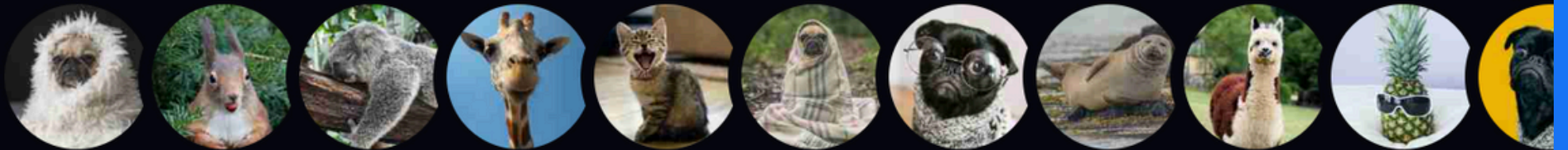- HostId: HkvcOdeAdCocANFLAL0hPk3uWvwsSoGtd3SAZKR5qtC9GzdsXNoXOPXsm1bexXNHr7CFt/V0pJE=

Voila! My website was up and running after resolving those errors

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# My key learnings

1. Static website hosting means, serving a one page website with fixed content, such as html, css and javascript, with only client side proccesing

2. The settings I used to make my website available to the public were, enabling static website hosting with public access via an ACL

3. My bucket endpoint URL initially still returned an error because bucket was set to private access
I had to resolve this by, enabling public access via ACL

4. One thing I didn't expect was, how simple and easy it was to set up and that AWS has hosting capabilities