

# Cloud

## PROJECT:2

HOW TO DEPLOY A STATIC WEBSITE USING S3 BUCKET

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# OVERVIEW

- CREATE A S3 GENERAL PURPOSE BUCKET IN AWS CONSOLE.
- ENABLE WEBSITE HOSTING SETTINGS UNDER NAVIGATION PANEL.
- UPLOAD YOUR WEBSITE.
- CREATE A POLICY FOR YOU WEBSITE.
- TEST YOUR WEBSITE PAGE.

# STATIC WEBSITE

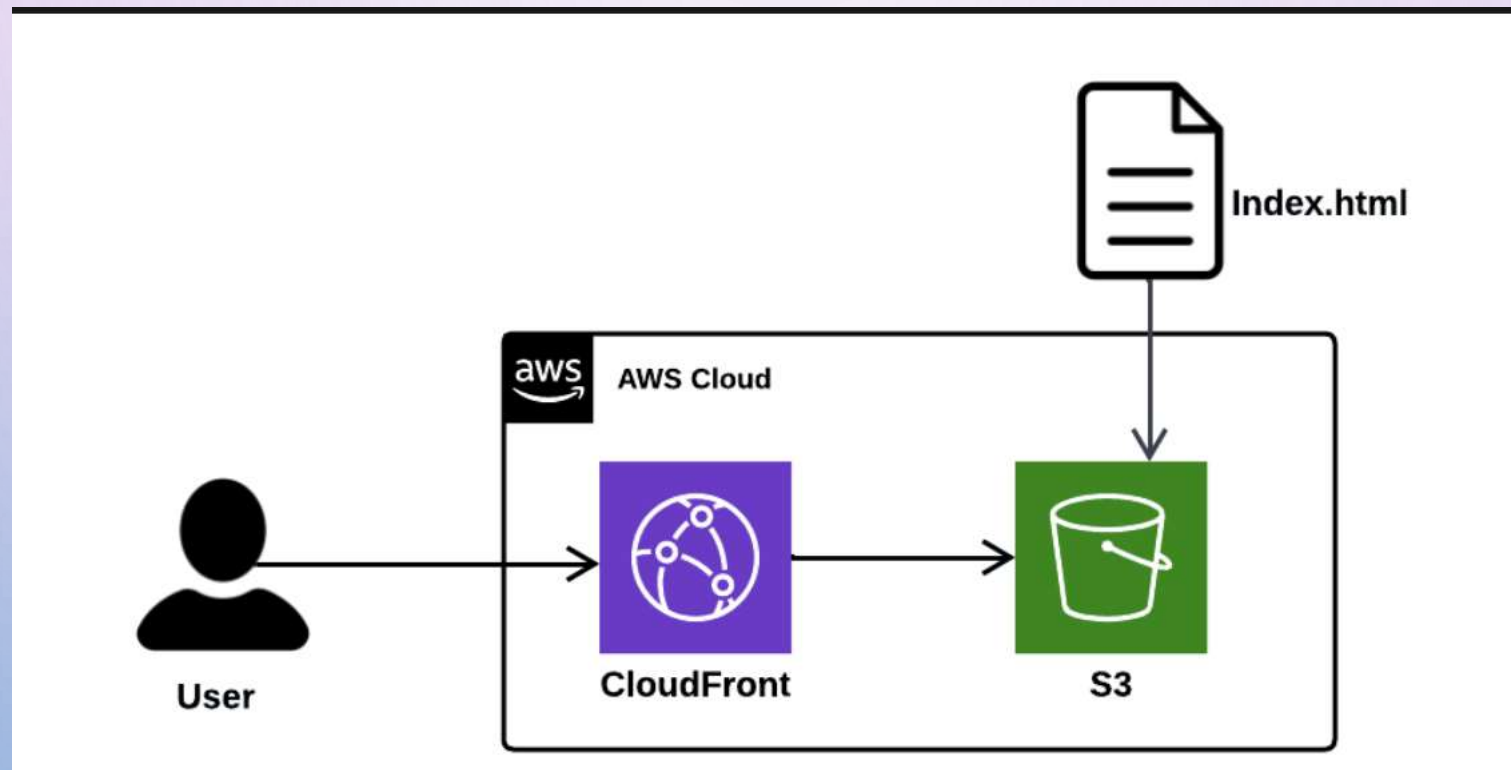
A "static website" refers to a type of website that is delivered to the user's web browser exactly as stored, without any server-side processing. In other words, the content of the web pages is fixed and displays the same information to every visitor. Here are some key characteristics of static websites:

1. **\*\*Fixed Content\*\***: The content of each web page is pre-defined and does not change based on user interactions or other variables.
2. **\*\*No Server-side Processing\*\***: There is no database or application logic on the server to generate content dynamically. Instead, all HTML, CSS, and JavaScript files are already prepared and served directly to the browser.
3. **\*\*Fast Loading\*\***: Since there is no need for server-side processing, static websites can load very quickly, which is beneficial for user experience and SEO.
4. **\*\*Simplicity\*\***: Static websites are relatively simple to create and maintain compared to dynamic websites that require server-side scripting and databases.
5. **\*\*Security\*\***: They are often more secure because there are fewer points of entry for malicious attacks compared to dynamic websites that interact with databases and execute server-side scripts.

Examples of static websites include small business websites, personal blogs, portfolio websites, and landing pages. They are typically suitable for sites that do not require frequent content updates or user interactions beyond simple forms or



# HOW IT WORKS



# STEP 1: CREATE A S3 BUCKET

- Go to AWS management console and sign in with your credentials
- Once logged in, you'll be in the AWS Management Console dashboard. Find and click on "**S3**" under "**Storage**", or you can type "S3" in the search bar and select it
- In the S3 dashboard, click on the "**Create bucket**" button.
- Enter a unique name for your bucket. Bucket names must be globally unique across all of AWS, so if your desired name is taken, you'll need to choose another.
- In the option **Block Public Access Setting**, uncheck the option
- Click on I acknowledge the current setting might result in this bucket and the object it becoming public checkbox
- Keep everything default and click on **Create Bucket button**.

# STEP 3:ENABLE A STATIC WEBSITE HOSTING

- Click in your s3 bucket and navigate to “properties” tabs.
- Click on the "**Properties**" tab found at the top.
- Scroll down to find "Static website hosting"
- Click on **Edit button** .
- In static website dialog box
- Static website Hosting: Select **Enable**.
- Hosting type: Choose **Host a static website**.
- Index document : Type index.html
- Error document : Type error.html
- Click on save Changes

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### Amazon S3

- Buckets
- Access Grants
- Access Points
- Object Lambda Access Points
- Multi-Region Access Points
- Batch Operations
- IAM Access Analyzer for S3

Block Public Access settings for this account

▼ Storage Lens

- Dashboards
- Storage Lens groups
- AWS Organizations settings

Feature spotlight 7

► AWS Marketplace for S3

## 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](#)

**Info** 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

**Error document - optional**

This is returned when an error occurs.

erroe.html

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Your bucket is configured for static website hosting, and you now have an S3 website url , Copy it for future use.



NOW UPLOAD TWO FILES INDEX.HTML AND ERROR.HTML TO YOUR S3 BUCKET THAT YOU HAVE CREATED.

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Amazon S3

Buckets

Access Grants

Access Points

Object Lambda Access Points

Multi-Region Access Points

Batch Operations

IAM Access Analyzer for S3

Block Public Access settings for this account

Storage Lens

Dashboards

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AWS Organizations settings

Feature spotlight 7

AWS Marketplace for S3

Amazon S3 > Buckets > kavyawebsite

kavyawebsite

Info

Objects

Properties

Permissions

Metrics

Management

Access Points

Objects (2)

Info

Copy S3 URI

Copy URL

Download

Open

Delete

Actions

Create folder



Upload

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](#)

Find objects by prefix

Show versions

< 1 >

	Name	Type	Last modified	Size	Storage class
<input type="checkbox"/>	 <a href="#">error.html</a>	html	June 19, 2024, 23:10:41 (UTC+05:30)	142.0 B	Standard
<input type="checkbox"/>	 <a href="#">index.html</a>	html	June 19, 2024, 23:10:43 (UTC+05:30)	5.2 KB	Standard

# STEP 4: Create a policy for static website

- TO CONFIGURE YOUR S3 BUCKET, ACCESS THE **PERMISSIONS** TAB AND MAKE THE NECESSARY CONFIGURATIONS.
  - IN THE **PERMISSIONS** TAB, CLICK ON THE **EDIT** BUTTON BESIDE THE **BUCKET POLICY**.
    - YOU WILL BE ABLE TO SEE A BLANK POLICY EDITOR.
- IN THE POLICY BELOW, **UPDATE** THE BUCKET ARN ON THE RESOURCE KEY VALUE AND **PASTE** THE BELOW POLICY CODE IN THE EDITOR.

```
{  
  "VERSION": "2012-10-17",  
  "ID": "POLICY1",  
  "STATEMENT": [  
    {  
      "SID": "STMT1",  
      "EFFECT": "ALLOW",  
      "PRINCIPAL": "*",  
      "ACTION": "S3:GETOBJECT",  
      "RESOURCE": "ARN:AWS:S3:::KAVYAWEBSITE/*"  
    }  
  ]  
}
```

NOW CLICK ON **SAVE CHANGES BUTTON**.

# RESULT

SEARCH THE URL TO SEE THE WEBSITE

:[HTTP://KAVYAWEBSITE.S3-WEBBSITE-US-EAST-1.AMAZONAWS.COM](http://KAVYAWEBSITE.S3-WEBBSITE-US-EAST-1.AMAZONAWS.COM)

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Your Name

Your Email

Your Message

Send Message



# CONCLUSION

Deploying a static website in an AWS S3 bucket offers a straightforward and cost-effective solution for hosting your web content. By leveraging S3's scalability, durability, and ease of configuration, you ensure your website is highly available and performs well under varying traffic conditions. Moreover, integrating with AWS CloudFront further enhances performance through global content delivery and added security features like SSL/TLS encryption