PROJECT:2

HOW TO DEPLOY A STATIC WEBSITE USING S3 BUCKET

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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.

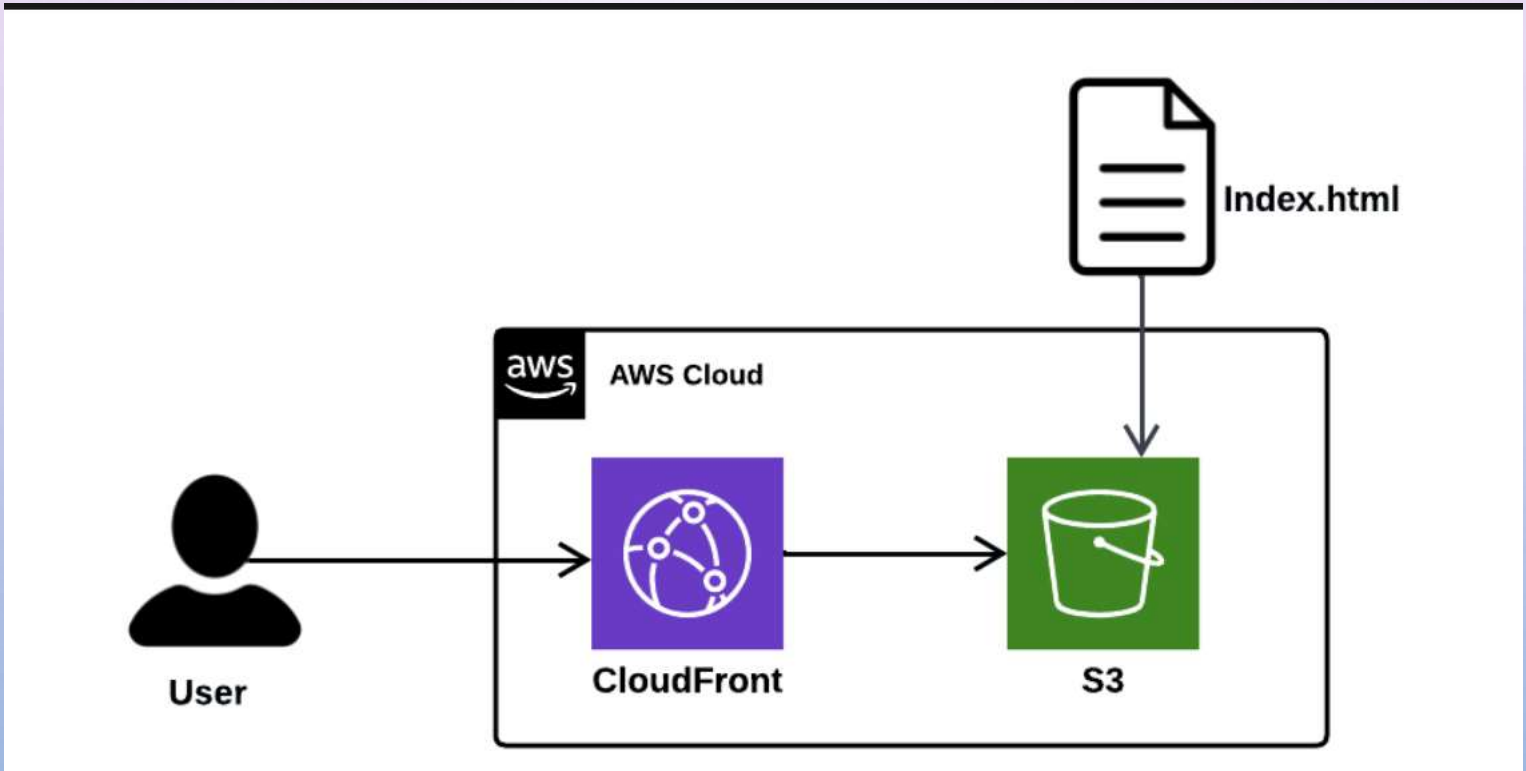
3. **Fast Loading**: Since there is no need for server-side processing, static websites can load very quickly, which is beneficial for user experience and SEO.

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



STEP1: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

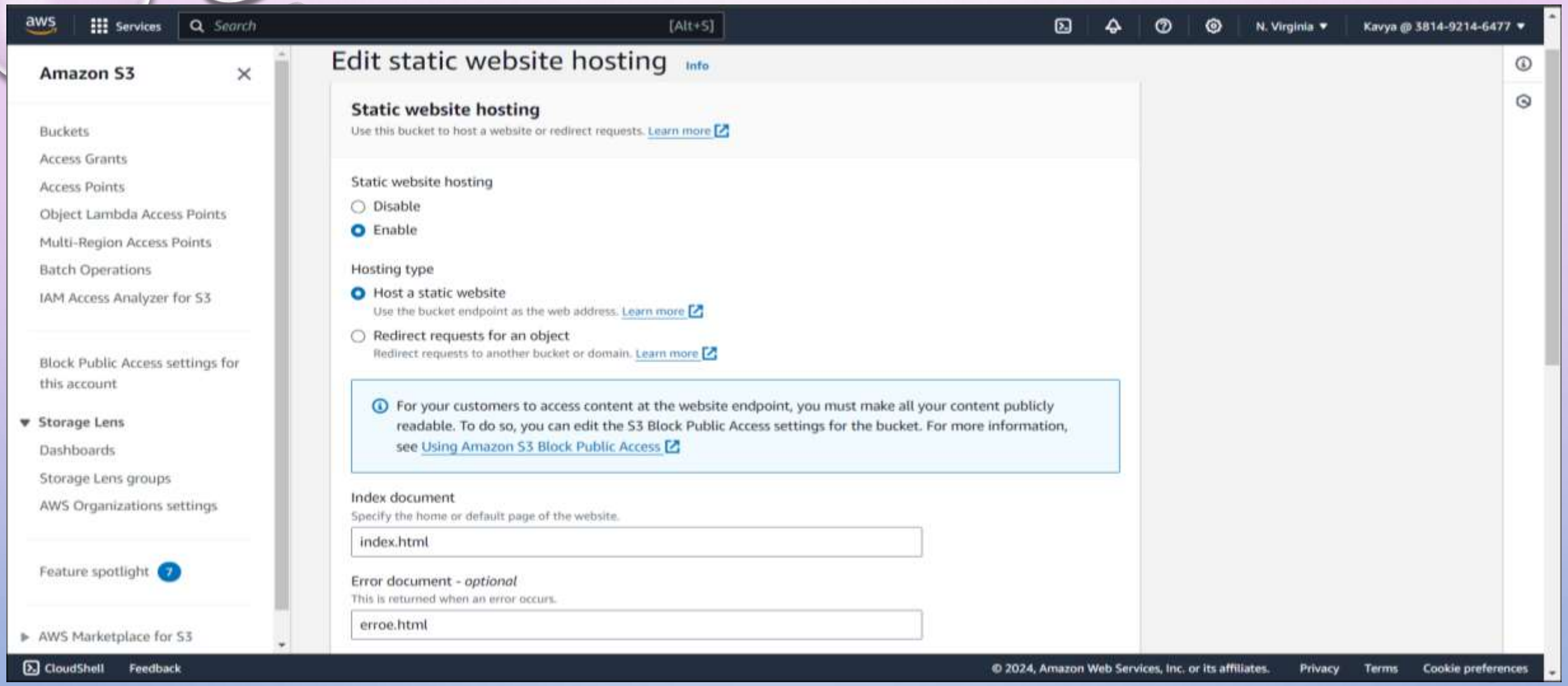
- Click in your s3 bucket and navigate to “properties” tabs.
- Click on the "**Properties**" tab found at the top.
- Scroll down to find "Static website hosting"
- Click on **Edit button** .

.

•In static website dialog box

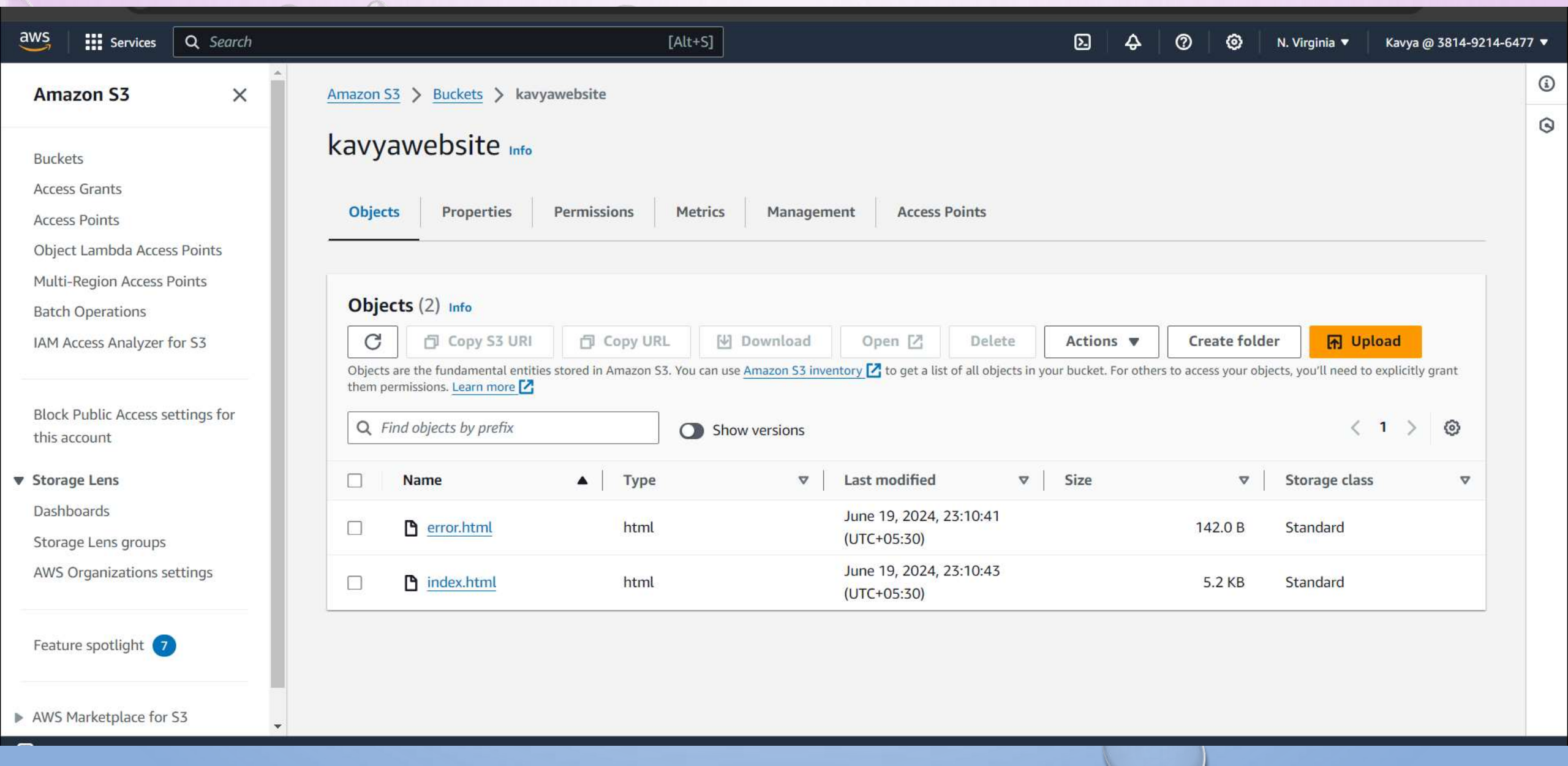
•Static website Hosting: Select **Enable.**

- Hosting type: Choose **Host a static website.**
- Index document : Type index.html
- Error document : Type error.html
- Click on save Changes



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.



STEP 4: Create a policy for static website

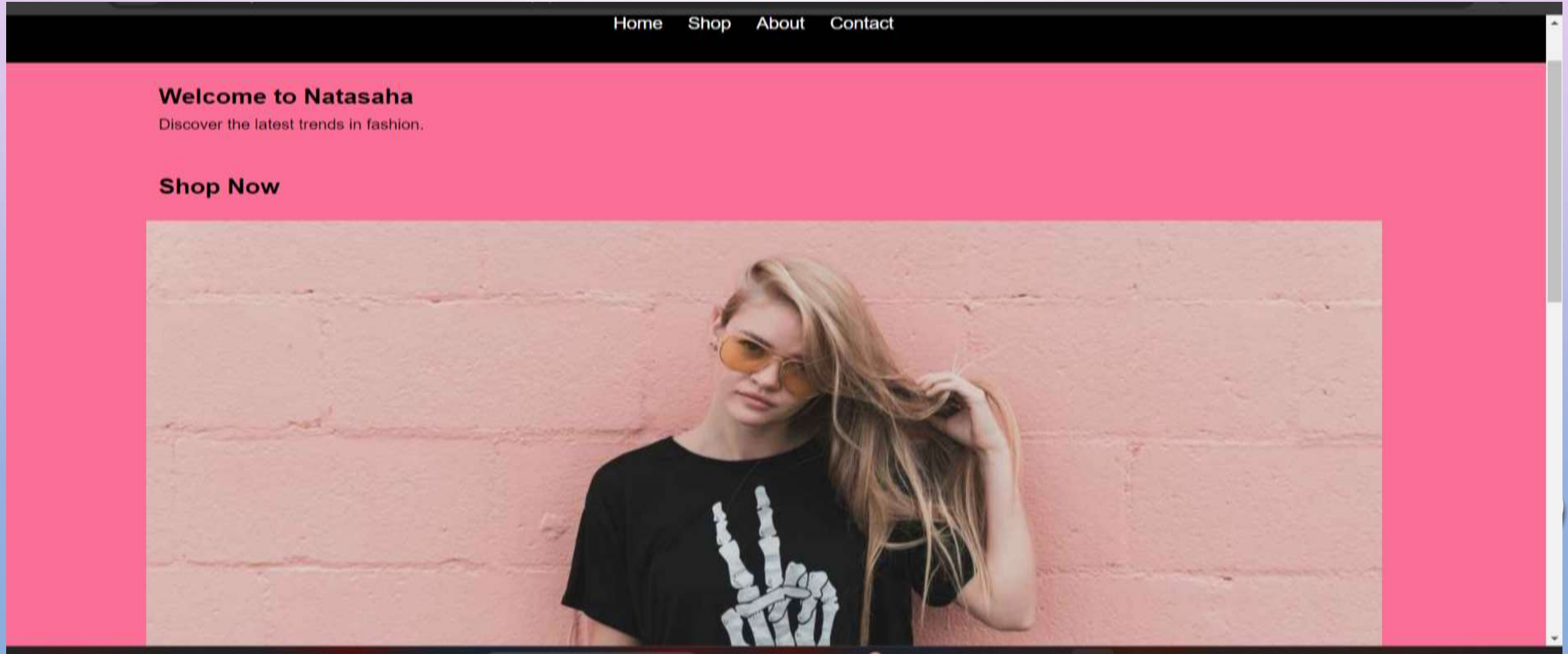
- TO CONFIGURE YOUR S3 BUCKET, ACCESS THE **PERMISSIONS** TAB AND MAKE THE NECESSARY CONFIGURATIONS.
- IN THE **PERMISSIONS** TAB, CLICK ON THE **EDIT** BUTTON BESIDE THE **BUCKET POLICY**.
- YOU WILL BE ABLE TO SEE A BLANK POLICY EDITOR.
- IN THE POLICY BELOW, **UPDATE** THE BUCKET ARN ON THE RESOURCE 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-WEBSITE-US-EAST-1.AMAZONAWS.COM



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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