**Project:**

**Create a static website using aws S3**

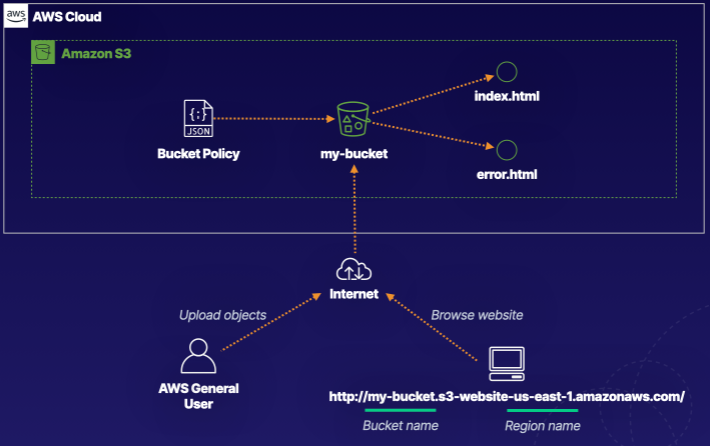
**Objective:**

Create and configure a simple static website. It will through configuring that static website with a custom error page. To demonstrate how to create a cost-efficient website hosting for sites that consist of files like HTML, CSS, JavaScript, fonts, and images.

**Service Used:**

Aws S3

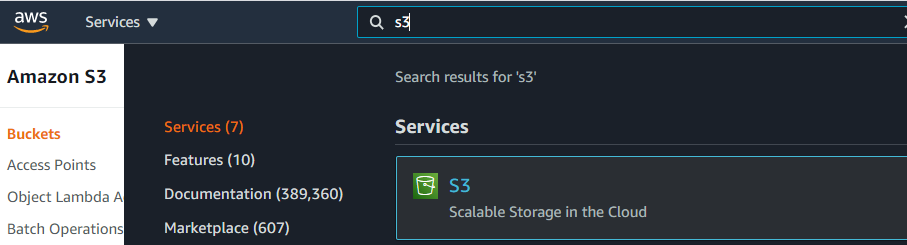
**Flow:**



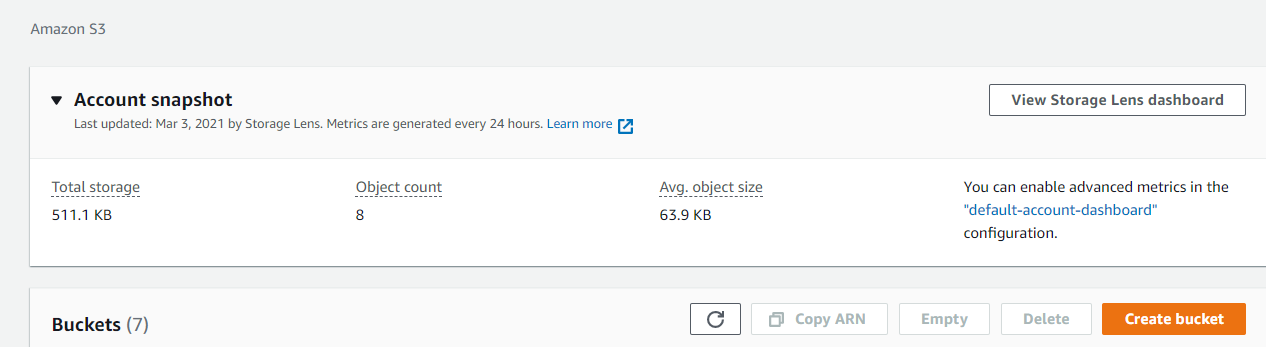
Log in to the AWS console.

S3 is a global service.

Go to S3 service

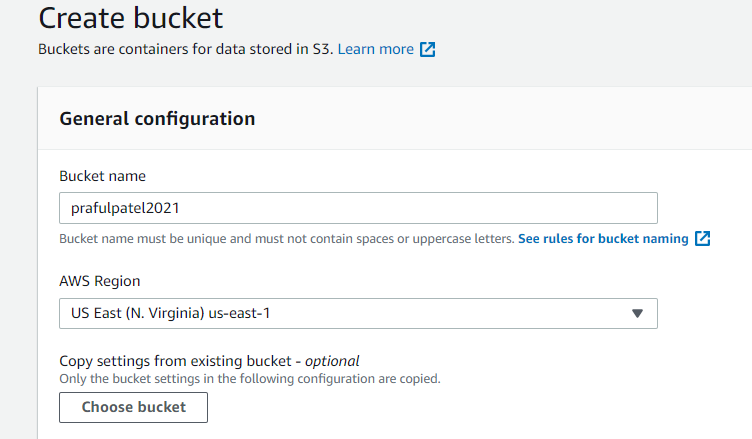


Create S3 Bucket



Navigate to S3.

Click Create bucket.

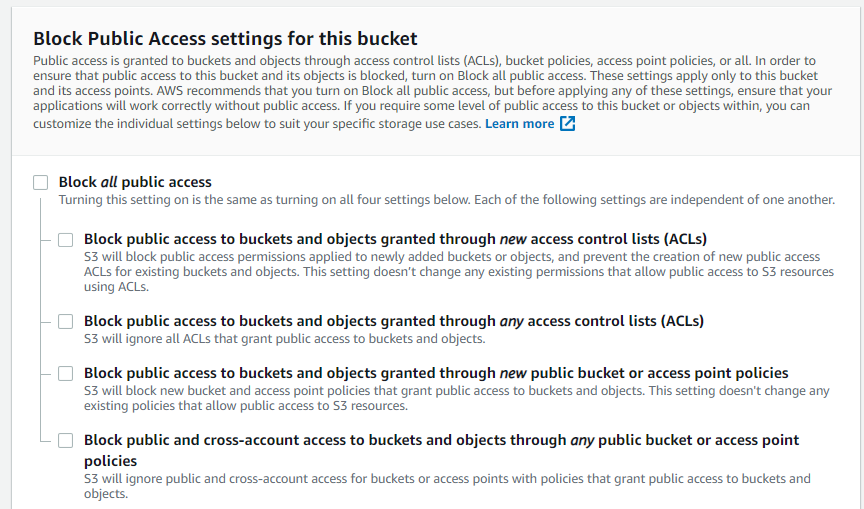


Set the following values:

Bucket name: scubasyndrome- with the AWS account number or another series of numbers at the end to make it globally unique

Region: US East (N. Virginia) us-east-1

In the Bucket settings for Block Public Access section, un-check Block all public access.

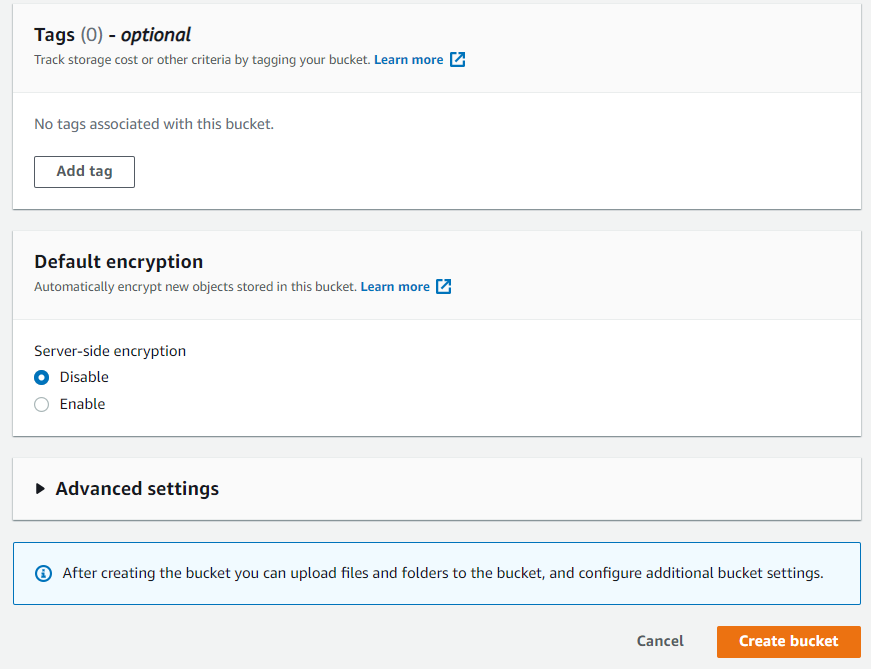


Ensure all four permissions restrictions beneath it are also un-checked.

Check the box to acknowledge that turning off all public access might result in the bucket and its objects becoming public.

Leave the rest of the settings as their defaults.

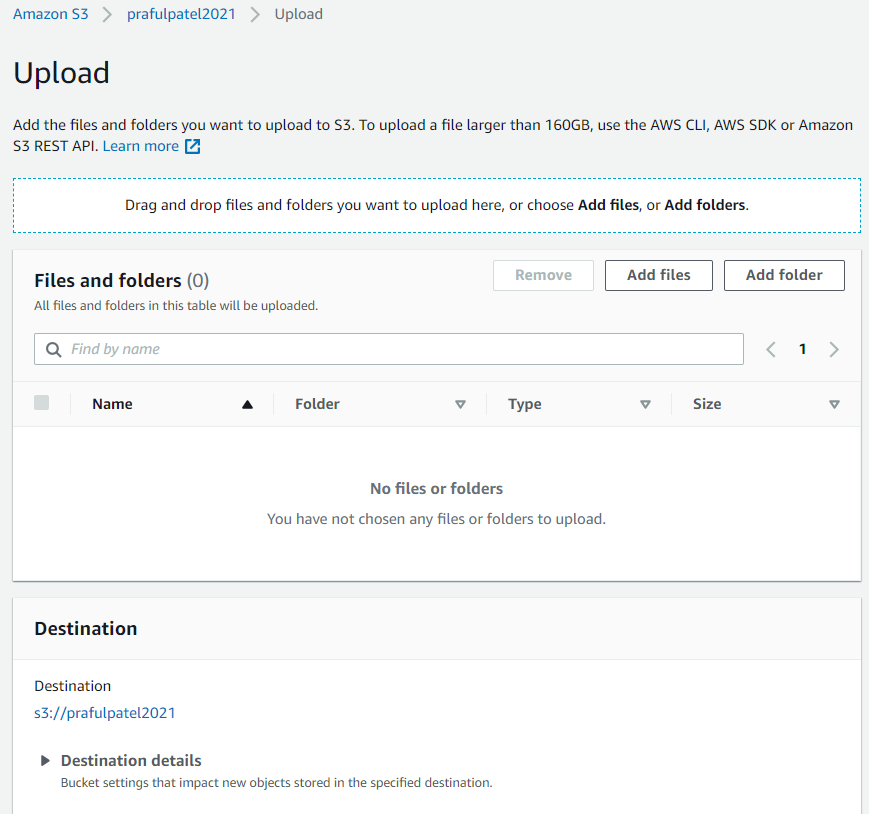
Click Create bucket.



Select the bucket name.

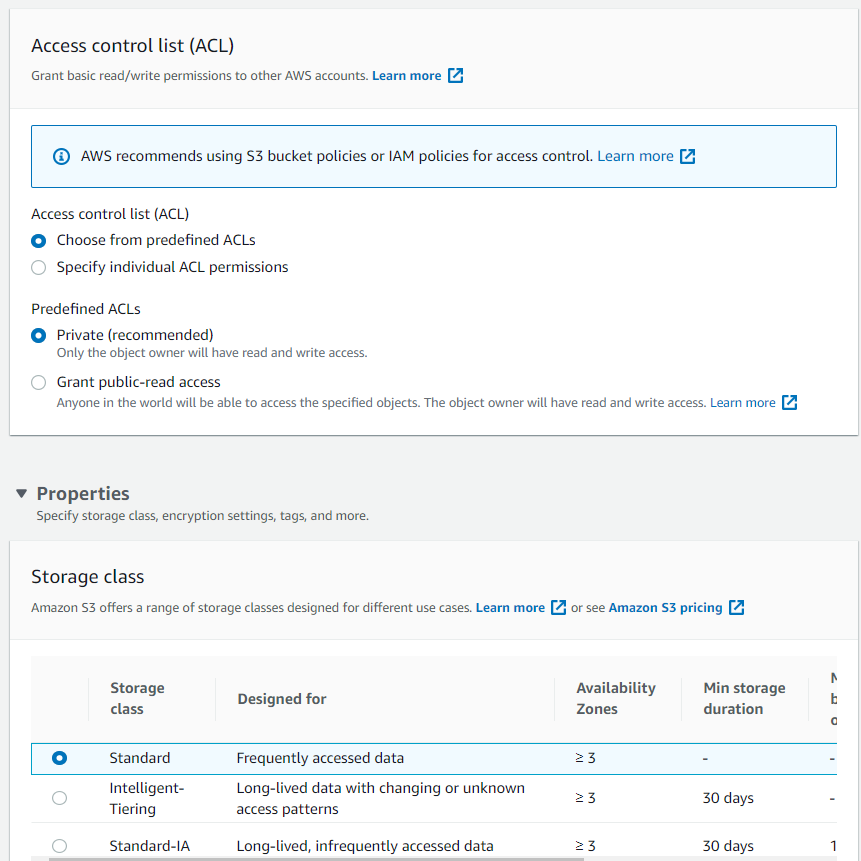


Click Upload.

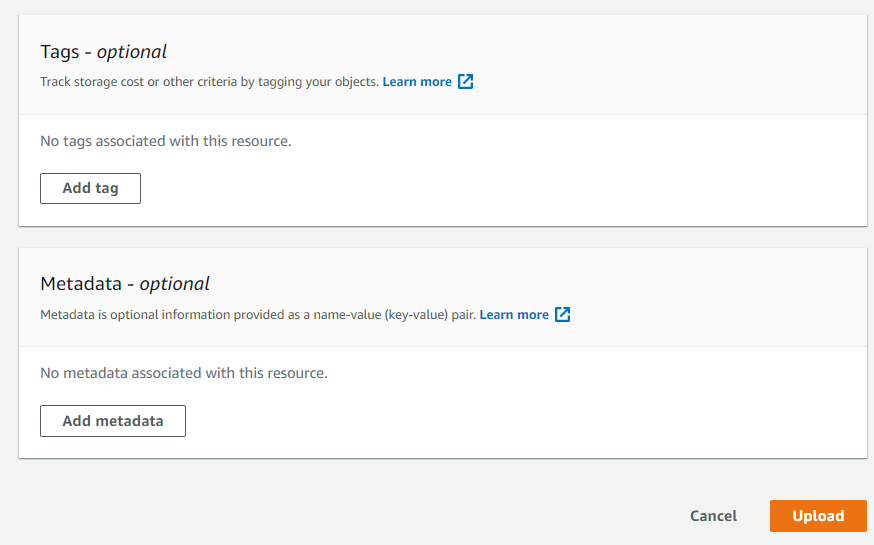


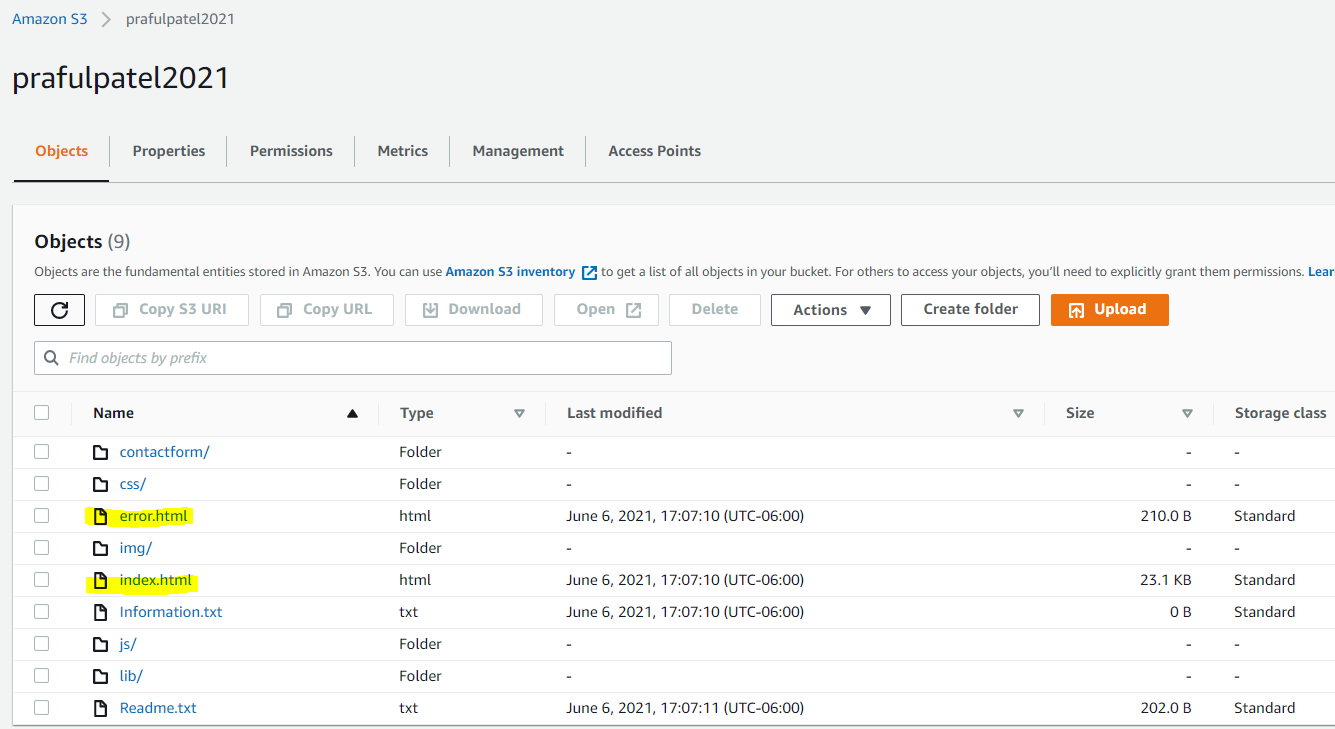
Click Add files, and upload your own or the error.html and index.html

Leave the rest of the settings as their defaults.



Click Upload.

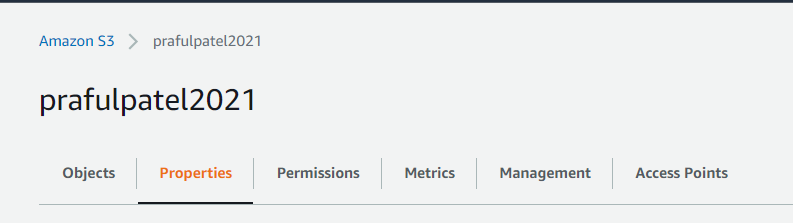




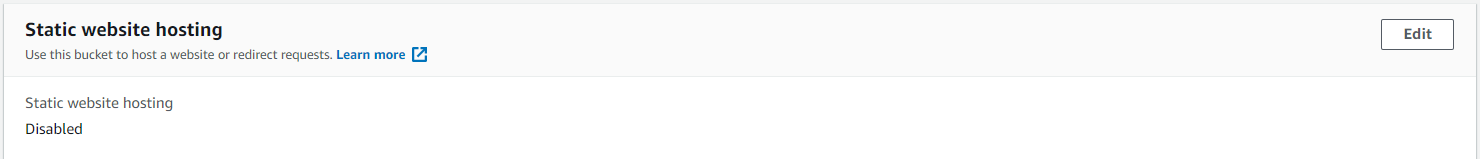
Click Exit in the upper right.

Enable Static Website Hosting

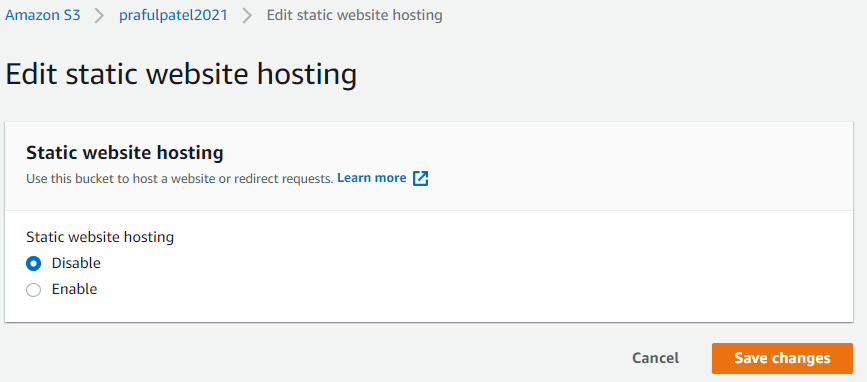
Click the Properties tab.



Scroll to the bottom of the screen to find the Static website hosting section.



On the right in the Static website hosting section, click Edit.



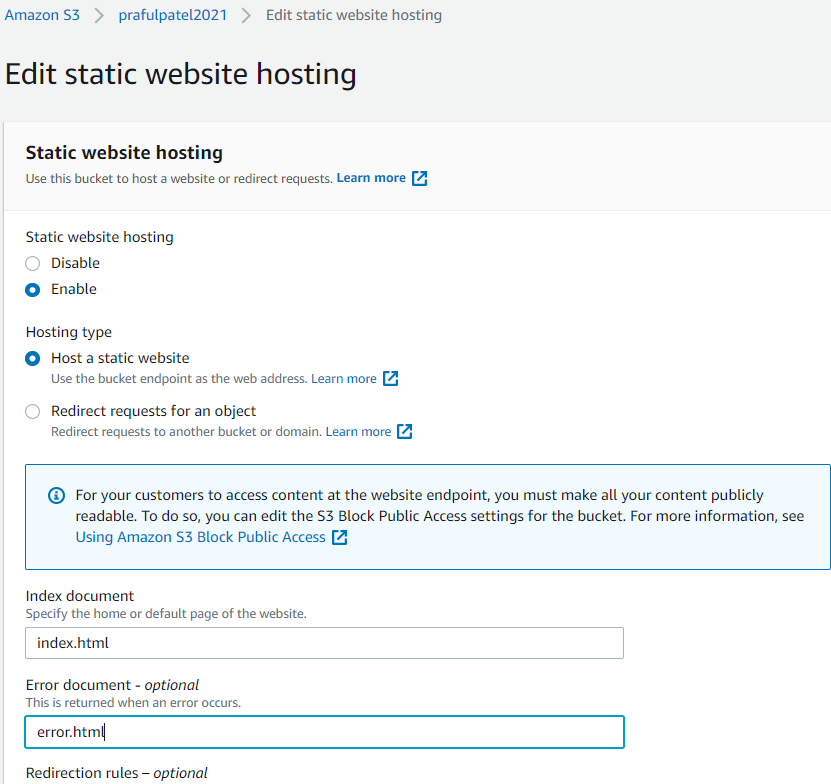
On the Edit static website hosting page, set the following values:

Static website hosting: Enable

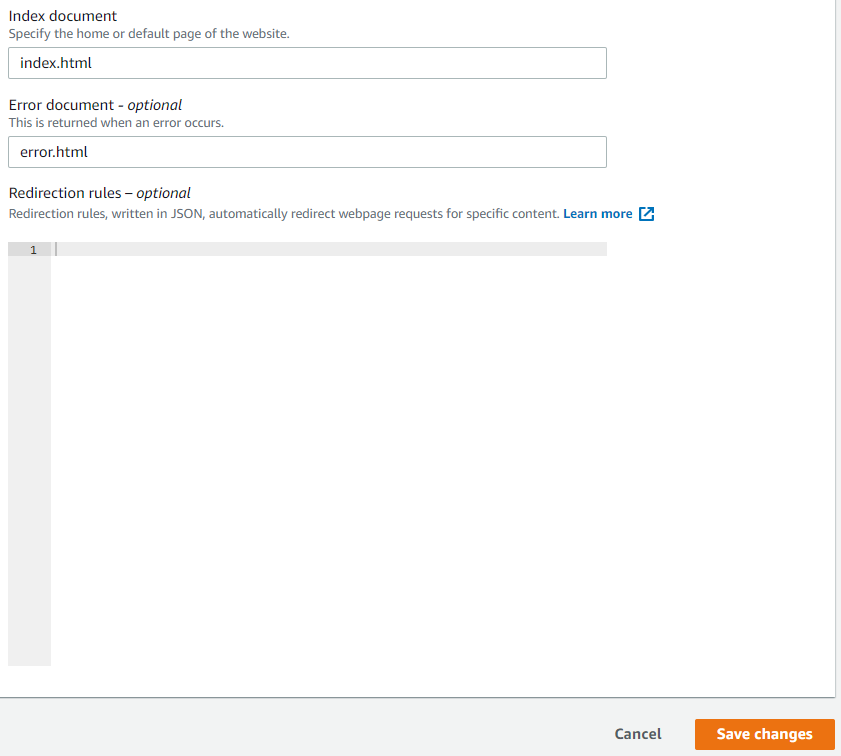
Hosting type: Host a static website

Index document: index.html

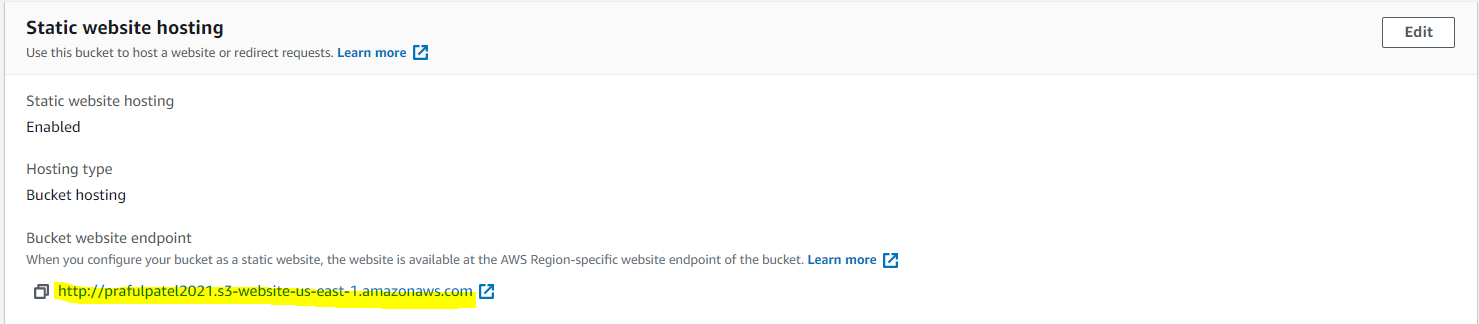
Error document: error.html



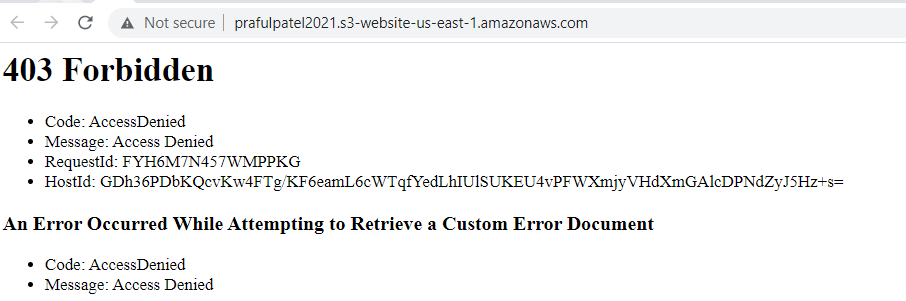
Click Save changes.



Scroll back down to the Static website hosting section.

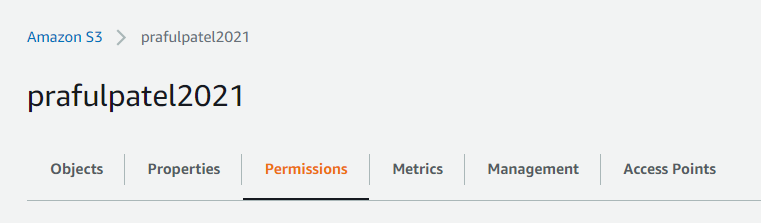


Open the listed endpoint URL in a new browser tab. We'll see a 403 Forbidden error message.

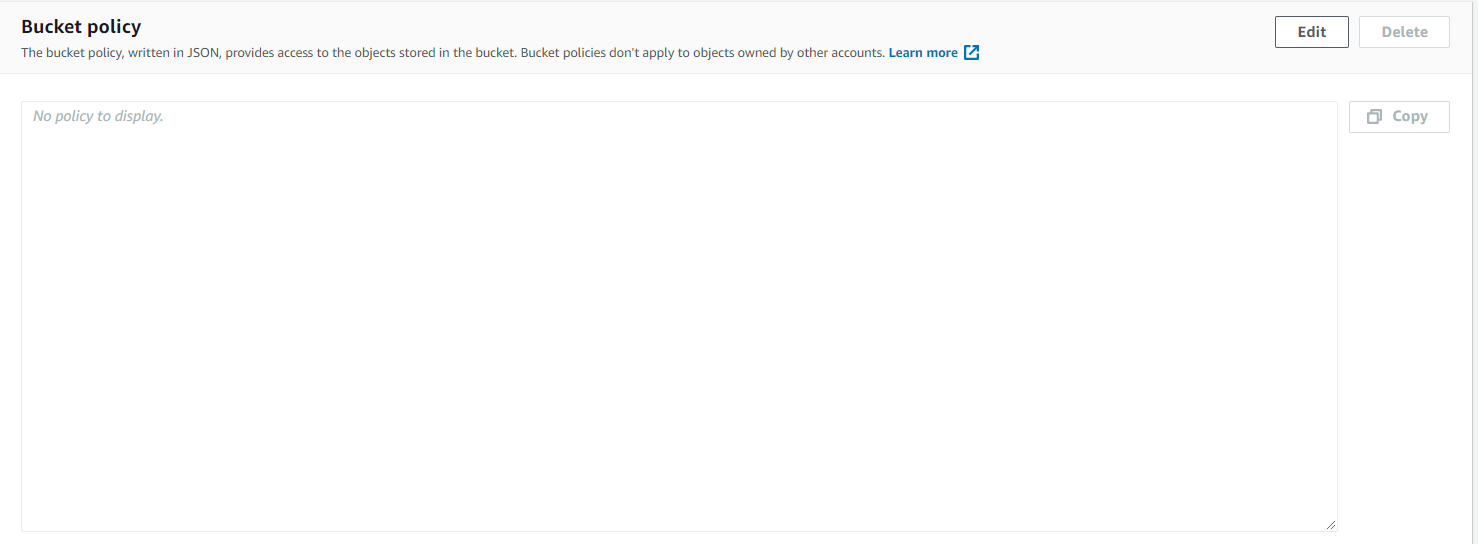


Apply Bucket Policy

Back in S3, click the Permissions tab.



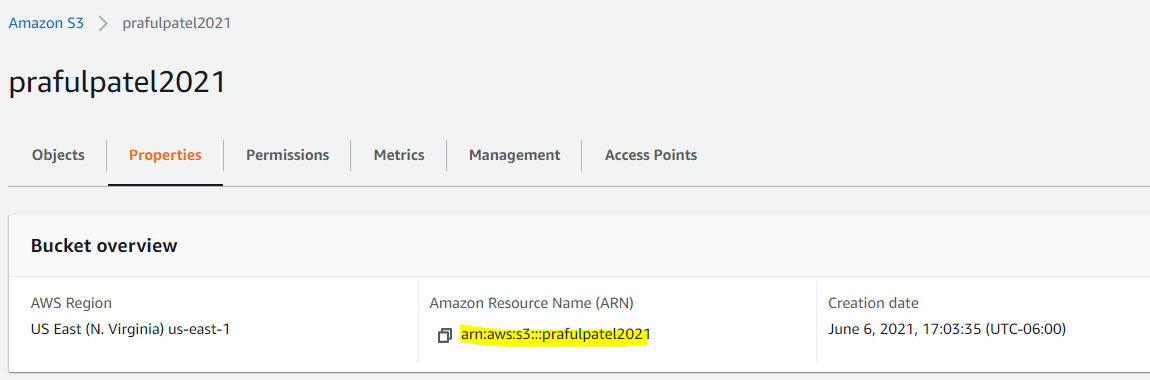
In the Bucket policy section, click Edit.



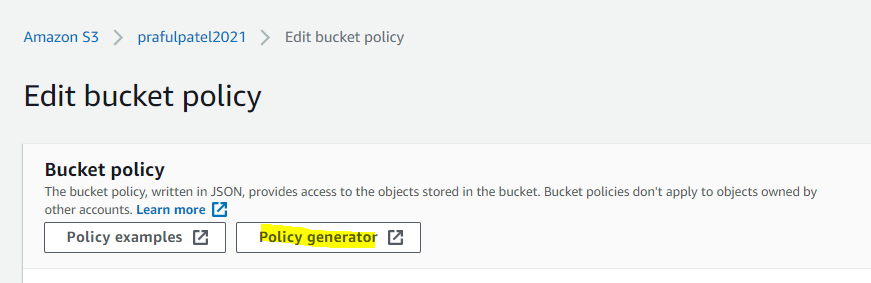
In the Policy box, enter the following JSON statement (replacing <BUCKET\_ARN> with the bucket ARN provided right above the Policy box):

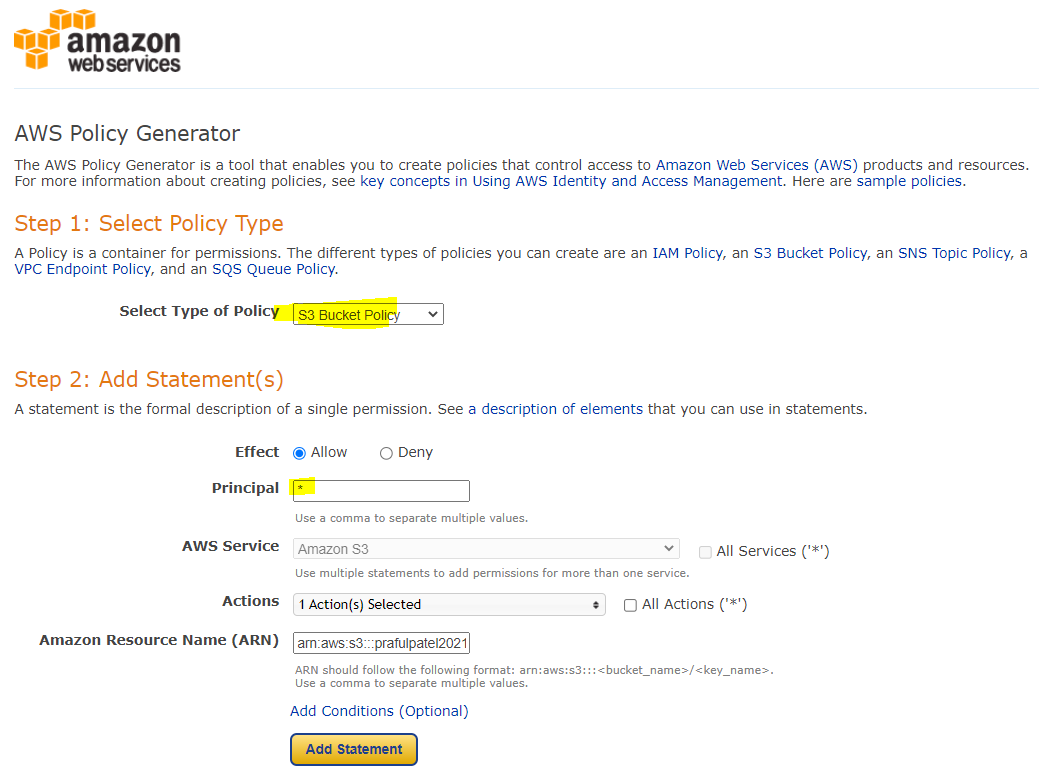
Generate a Bucket policy using Policy generator

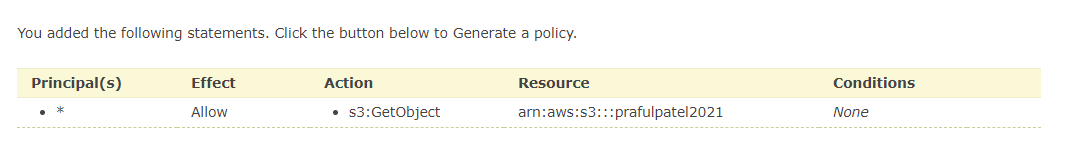
Find the ARN and copy

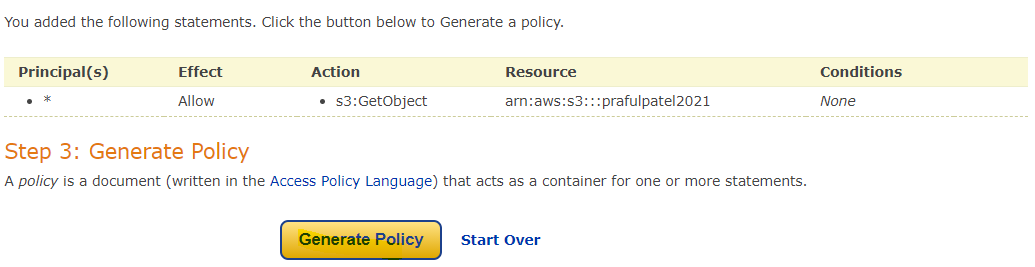


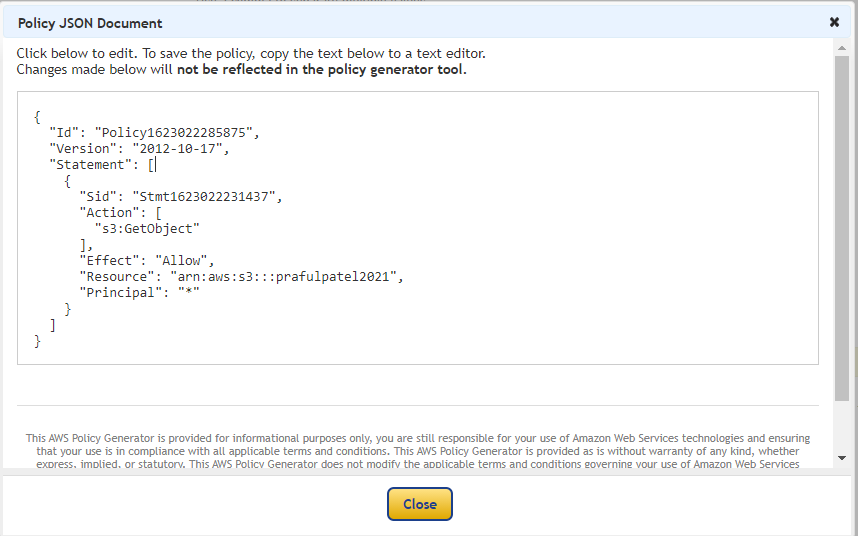
Go to Policy Generator











{

"Id": "Policy1623022285875",

"Version": "2012-10-17",

"Statement": [

{

"Sid": "Stmt1623022231437",

"Action": [

"s3:GetObject"

],

"Effect": "Allow",

"Resource": "arn:aws:s3:::prafulpatel2021",

"Principal": "\*"

}

]

}

{

"Version": "2012-10-17",

"Statement": [

{

"Sid": "PublicReadGetObject",

"Effect": "Allow",

"Principal": "\*",

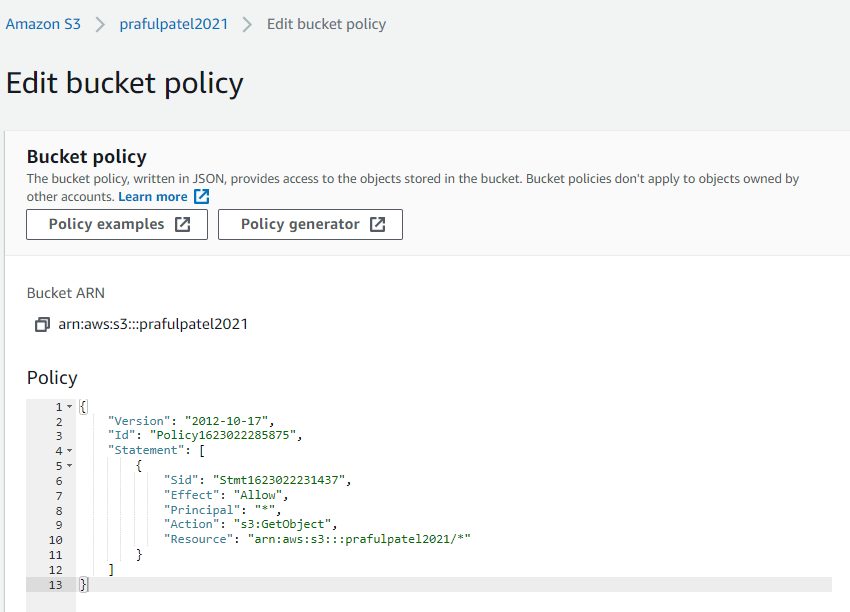
"Action": "s3:GetObject",

"Resource": "arn:aws:s3:::prafulpatel2021/\*"

}

]

}



Note: Ensure the trailing /\* is present so the policy applies to all objects within the bucket.

{

"Id": "Policy1623022285875",

"Version": "2012-10-17",

"Statement": [

{

"Sid": "Stmt1623022231437",

"Action": [

"s3:GetObject"

],

"Effect": "Allow",

"Resource": "arn:aws:s3:::prafulpatel2021/\*­",

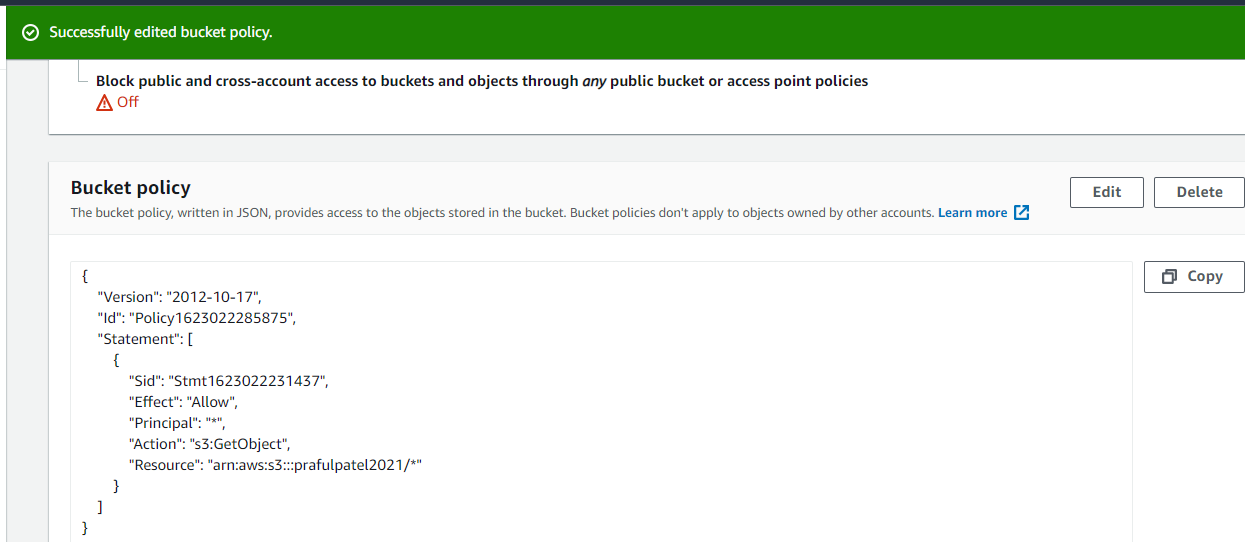
"Principal": "\*"

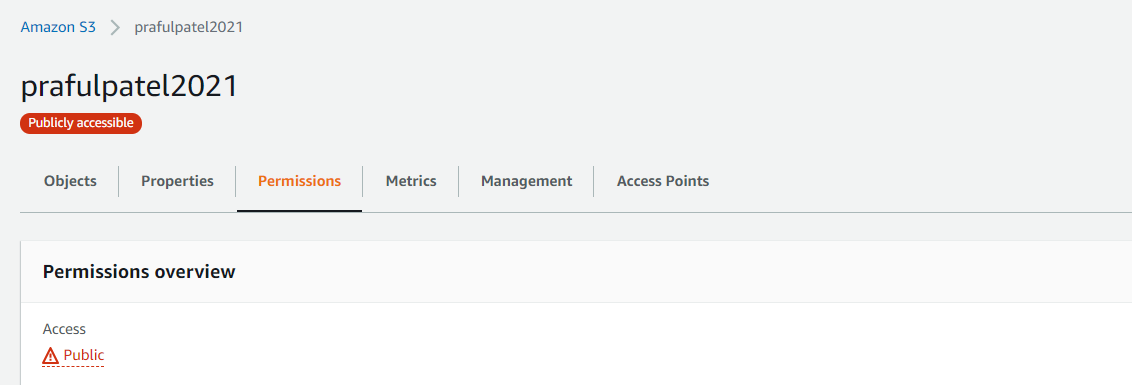
}

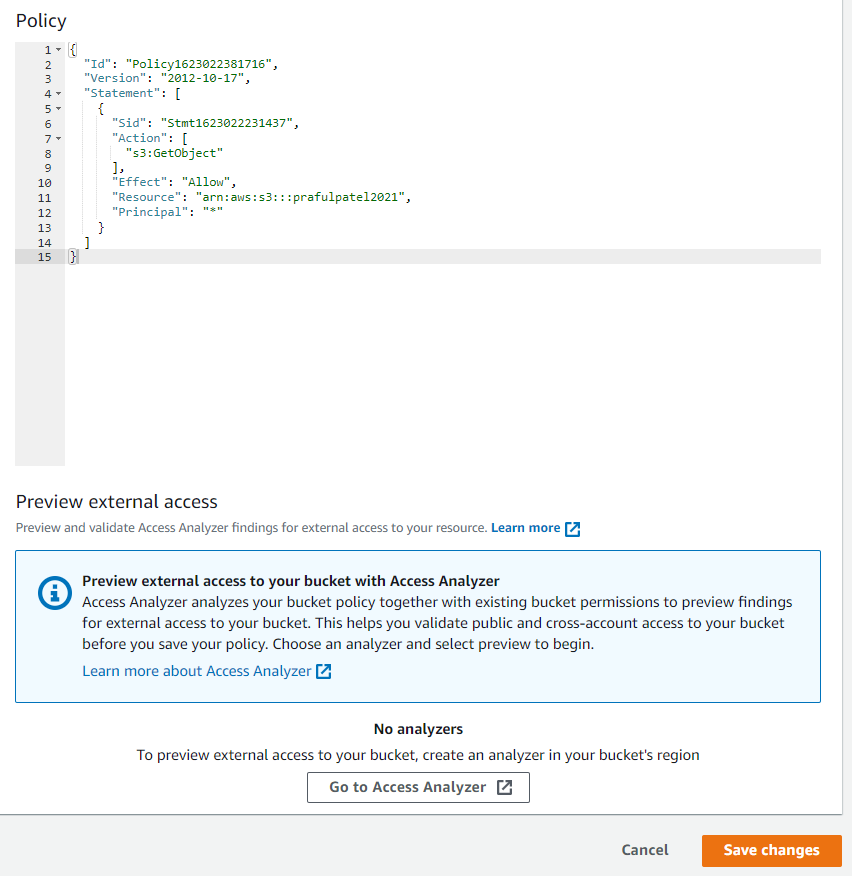
]

}

Click Save changes.

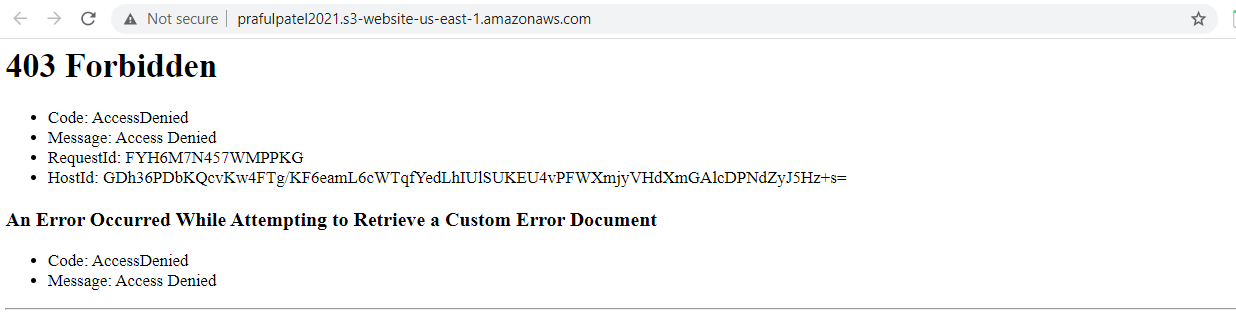




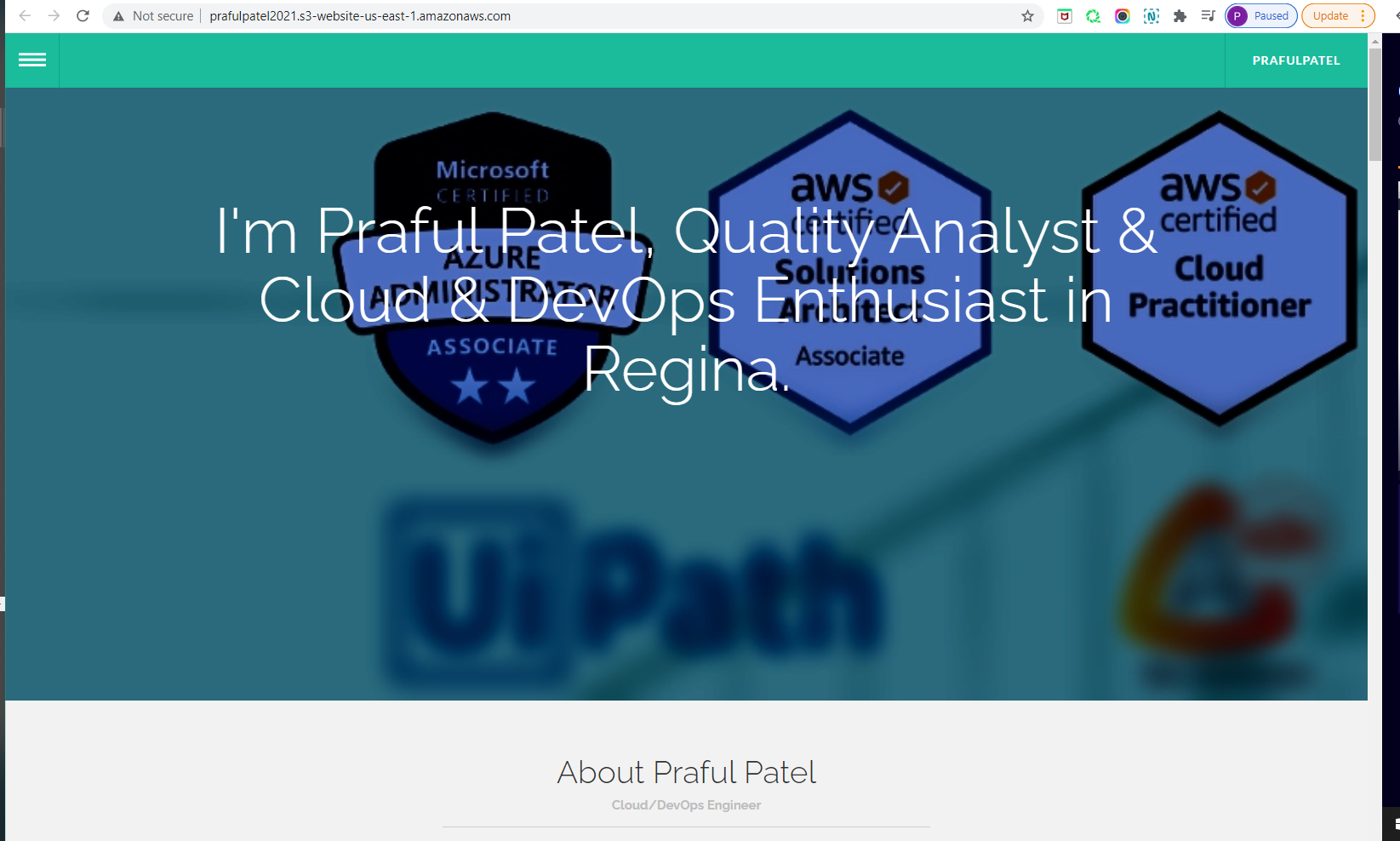


Refresh the browser tab with the static website (the endpoint URL we opened a minute ago). This time, it should load the site correctly.

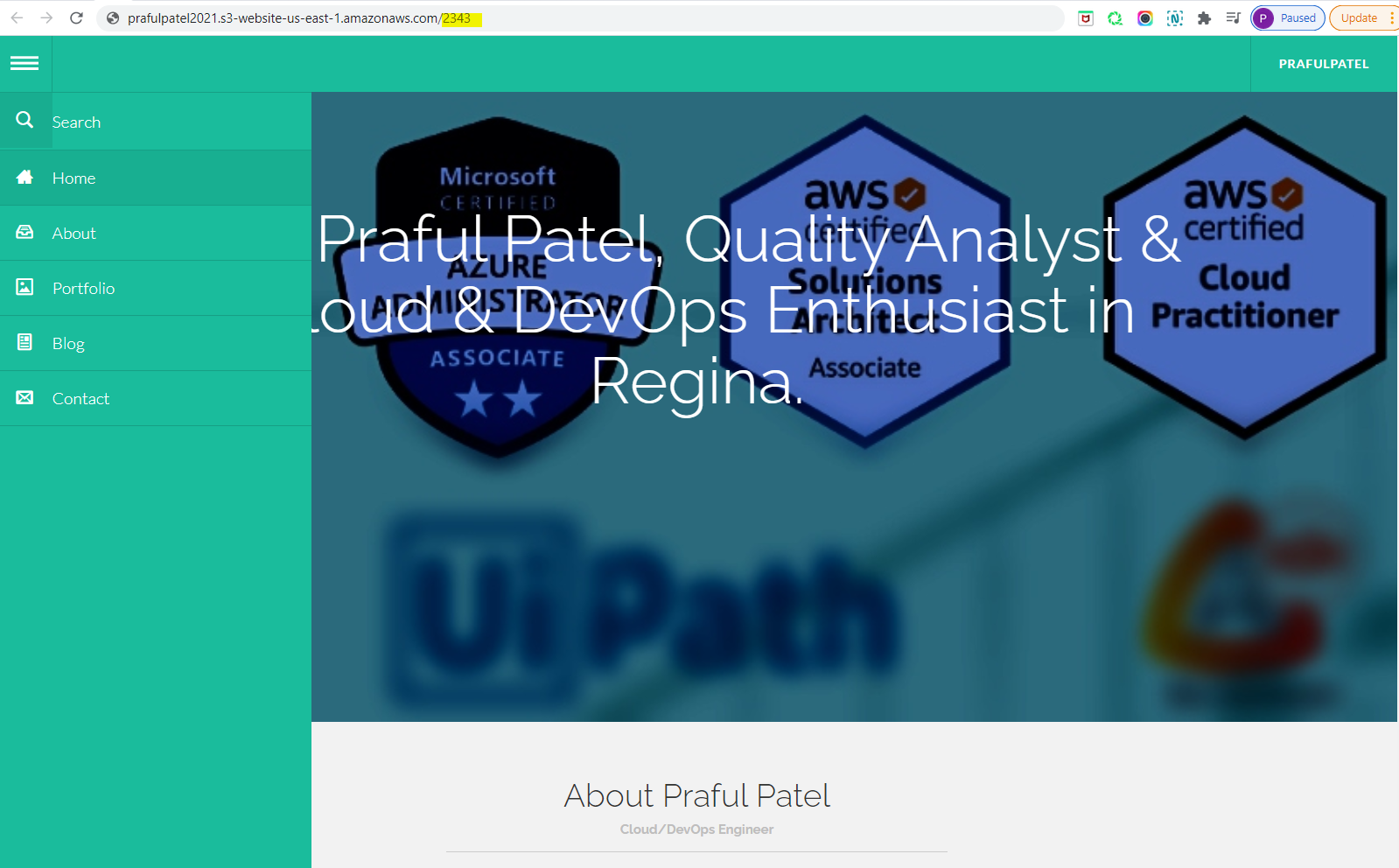
http://prafulpatel2021.s3-website-us-east-1.amazonaws.com



After Refresh Verify that the static web page URL is loaded correctly and web page is displayed



Add a / at the end of the URL and some random letters (anything that's knowingly an error). This will display our error.html info.



Do Refresh the URL after entering /222 and validate that the Error.html page is displayed

http://prafulpatel2021.s3-website-us-east-1.amazonaws.com/2343

