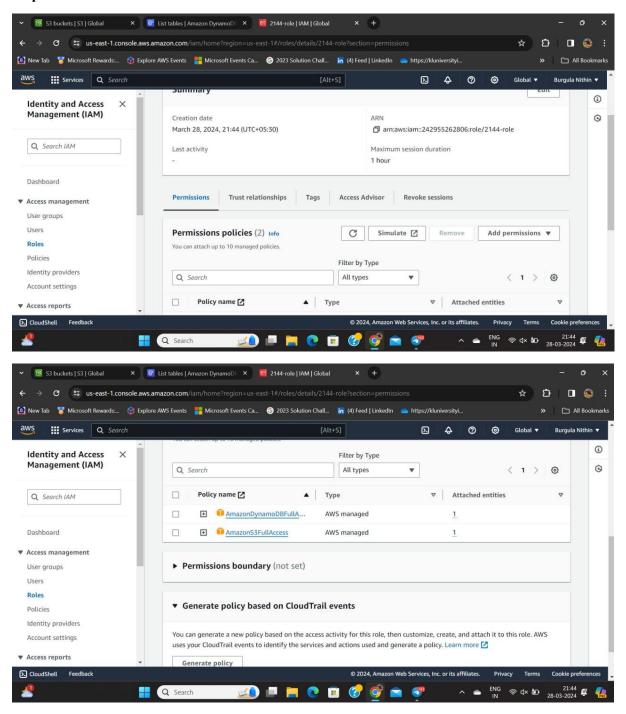
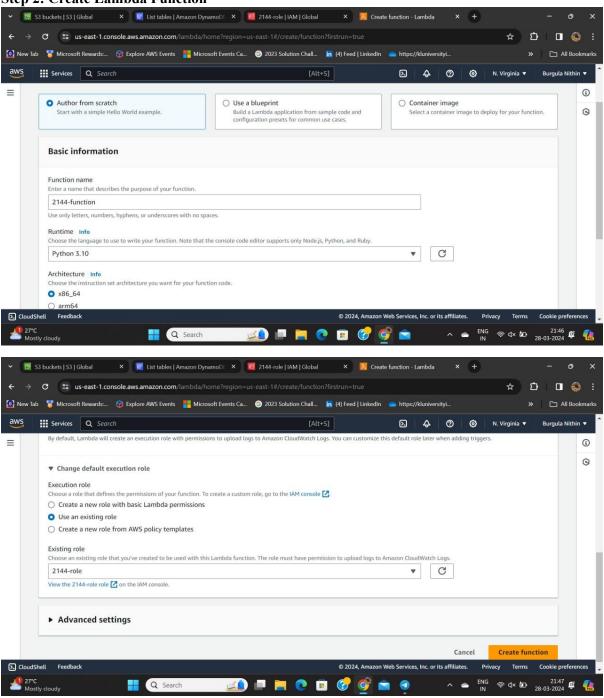
STORAGE CLOUD FILE

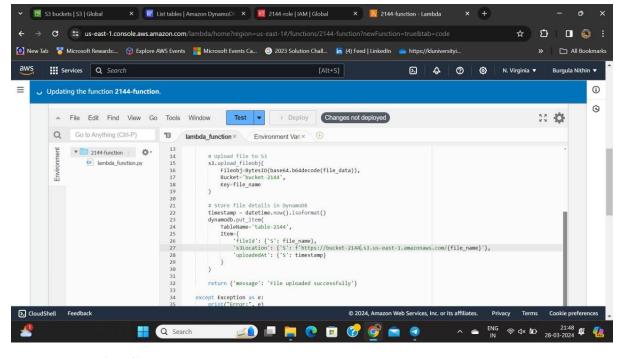
Services Used: S3, DynamoDB, Lambda, API Gateway, IAM Role

Steps 1: Create IAM Role



Step 2: Create Lambda Function





Lambda Function Code:

```
import boto3
```

import base64

from io import BytesIO

from datetime import datetime

```
s3 = boto3.client('s3')

dynamodb = boto3.client('dynamodb')

def lambda_handler(event, context):

try:

file_name = event['fileName']

file_data = event['fileData'].split(',')[1]

# Upload file to S3

s3.upload_fileobj(

Fileobj=BytesIO(base64.b64decode(file_data)),

Bucket='bucket-2144',

Key=file_name
```

```
# Store file details in DynamoDB

timestamp = datetime.now().isoformat()

dynamodb.put_item(

TableName='table-2144',

Item={
    'fileId': {'S': file_name},
    's3Location': {'S': f'https://bucket-2144.s3.us-east-1.amazonaws.com/{file_name}'},
    'uploadedAt': {'S': timestamp}

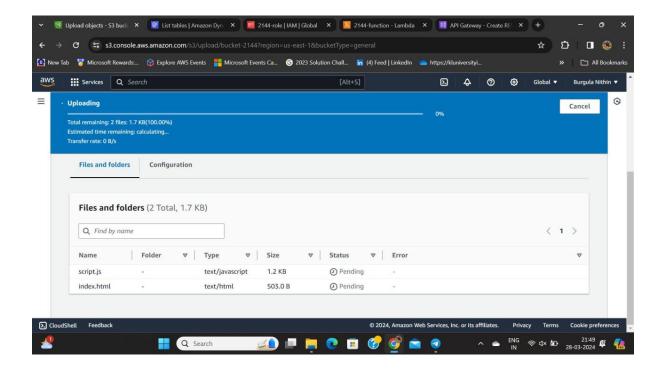
}

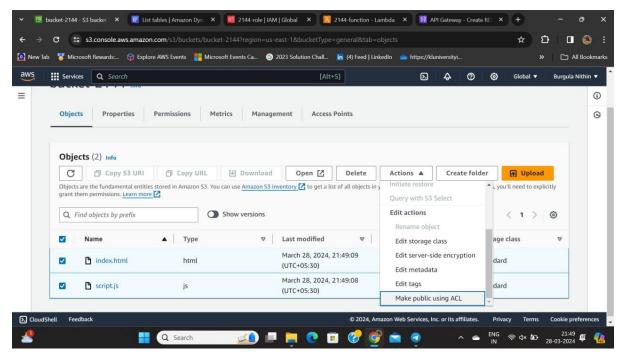
)

return {'message': 'File uploaded successfully'}

except Exception as e:
    print("Error:", e)
    raise Exception('Failed to upload file')
```

Step 3: Upload script.js and index.html





Script.js:

```
function uploadFile() {
  var fileInput = document.getElementById("pdfFile");
 var file = fileInput.files[0];
 var reader = new FileReader();
  reader.onload = function (event) {
    var fileData = event.target.result;
    var params = {
     fileName: file.name,
     fileData: fileData,
    invokeLambdaFunction(params);
  reader.readAsDataURL(file);
function invokeLambdaFunction(params) {
 // Replace 'YOUR_API_GATEWAY_URL' with the actual URL of your deployed API
Gateway
 var apiGatewayUrl =
    "https://v8uznb2lak.execute-api.us-east-1.amazonaws.com/test";
 fetch(apiGatewayUrl, {
   method: "POST",
    headers: {
      "Content-Type": "application/json",
    body: JSON.stringify(params),
```

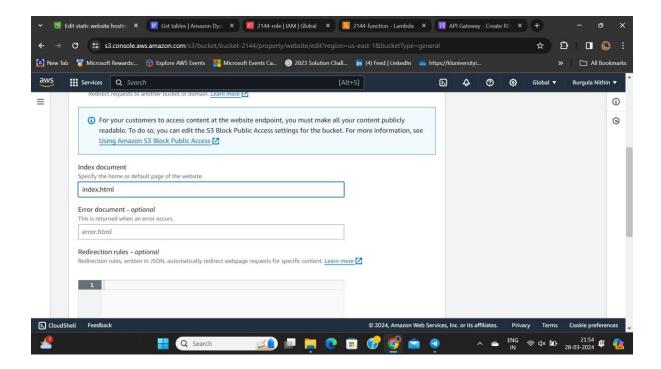
```
.then((response) => response.json())
.then((data) => {
    console.log("File uploaded successfully. Response: ", data);
    document.getElementById("message").innerHTML =
        "File uploaded successfully!";
})
.catch((error) => {
    console.error("Error uploading file: ", error);
    document.getElementById("message").innerHTML = "Error uploading file!";
});
}
```

Index.html: <!DOCTYPE html> <html lang="en"> <head> <meta charset="UTF-8"/> <meta name="viewport" content="width=device-width, initial-scale=1.0" /> <title>Cloud File Manager</title> <link rel="stylesheet" href="./style.css" /> </head> <body> <header> <h1>Cloud File Manager</h1> Upload, download, and manage your files securely in the cloud. </header> <main> <section id="upload-section"> <h2>Upload File</h2> <form id="upload-form"> <input type="file" id="pdfFile" accept=".pdf" required /> <button type="submit">Upload</button> </form> <div id="upload-message"></div>

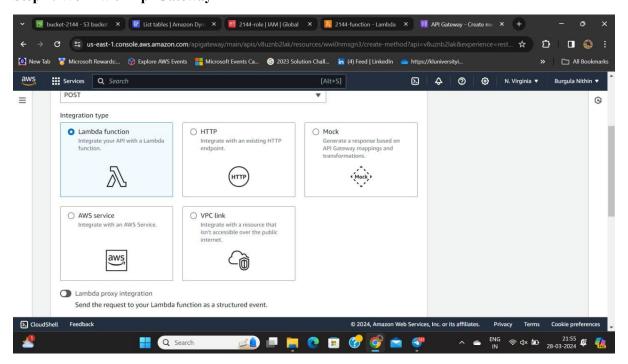
```
</section>
   <section id="file-list-section">
    <h2>Your Files</h2>
    ul id="file-list">
   </section>
 </main>
 <!-- Add buttons for download and delete actions -->
 <section id="file-actions-section">
   <h2>File Actions</h2>
   <div id="file-actions">
    <!-- These buttons will be dynamically populated with file names on page load -->
   </div>
 </section>
 <script src="https://sdk.amazonaws.com/js/aws-sdk-2.984.0.min.js"></script>
 <script src="script.js"></script>
</body>
</html>
    📴 Edit static website hostin 🗴 📴 List tables | Amazon Dyn 🗴 🔟 2144-role | IAM | Global 🗴 💹 2144-function - Lambda 🗴 🔟 API Gateway - Create RE 🗴 🕇
     → C s3.console.aws.amazon.com/s3/bucket/bucket-2144/property/website/edit?region=us-east-1&bucketType=general
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        Amazon S3 > Buckets > bucket-2144 > Edit static website hosting
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        Edit static website hosting Info
          Static website hosting
                            te or redirect requests. Learn more
          Static website hosting

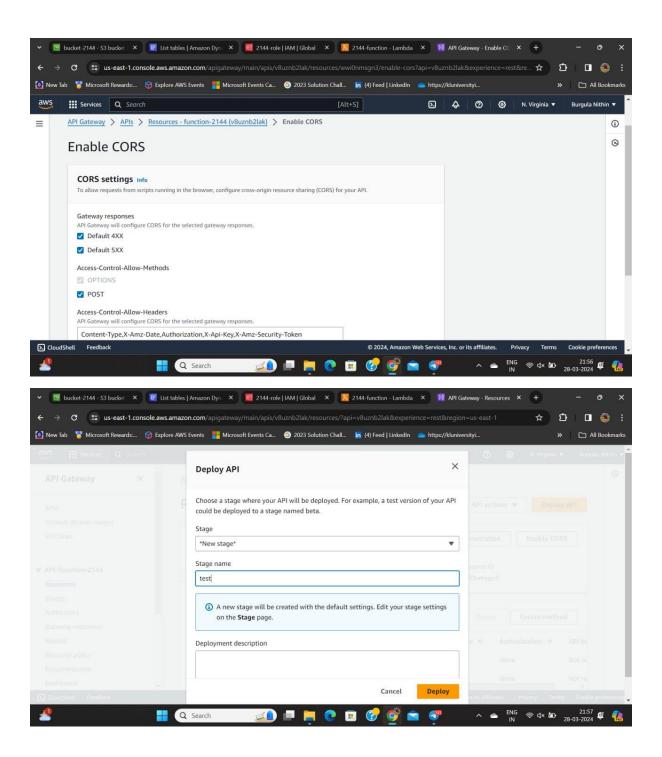
    Disable

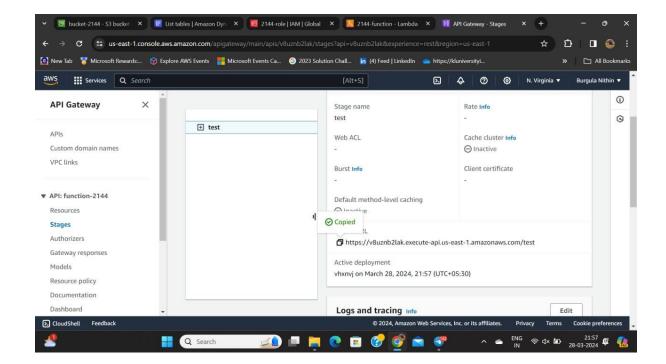
          O Enable
          Hosting type
             Use the bucket endpoint as the web address. Learn more [2]
          Redirect requests for an object
Redirect requests to another bucket or domain. Learn more
            (1) For your customers to access content at the website endpoint, you must make all your content publicly
                                                   🞿 💷 🤚 😍 🖫 🔗 😭 🛋
                            Q Search
```



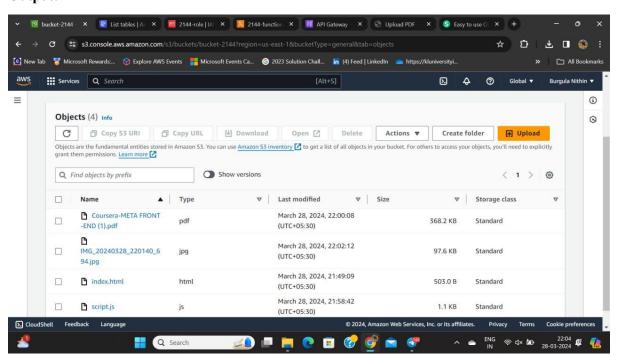
Step 4: Work with Api Gateway







Output:



Using URL files can be uploaded

URL: http://bucket-2144.s3-website-us-east-1.amazonaws.com/

