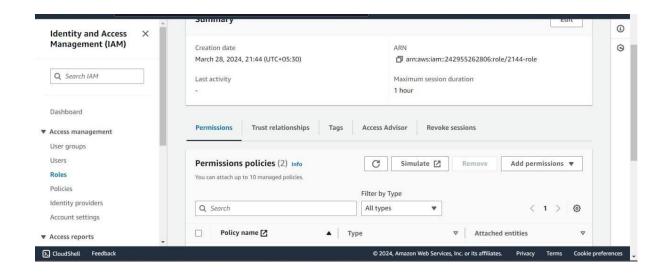
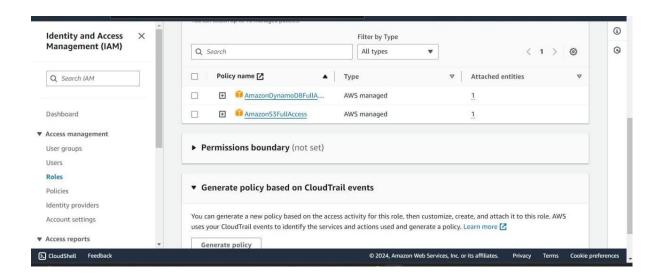
STORAGE CLOUD FILE

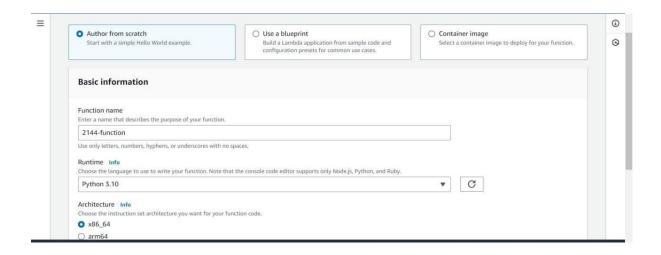
Services Used: S3, DynamoDB, Lambda, API Gateway, IAM Role

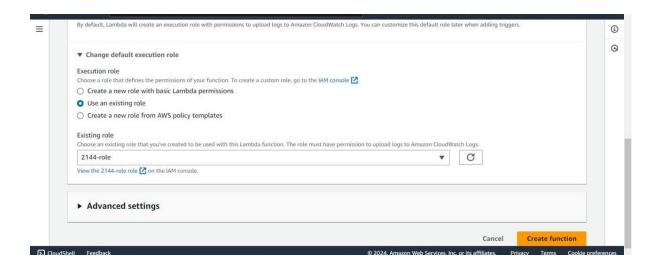
Steps 1: Create IAM Role

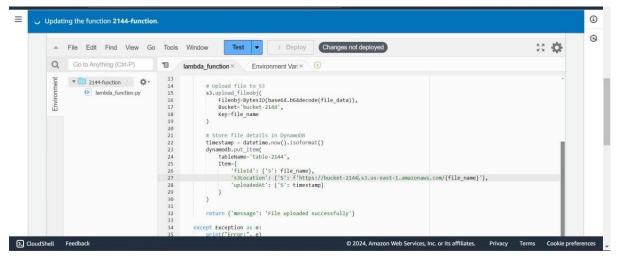




Step 2: Create Lambda Function







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}

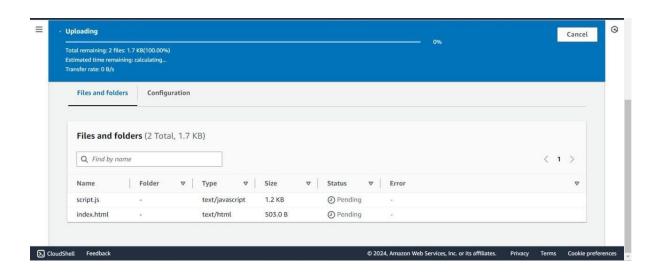
}

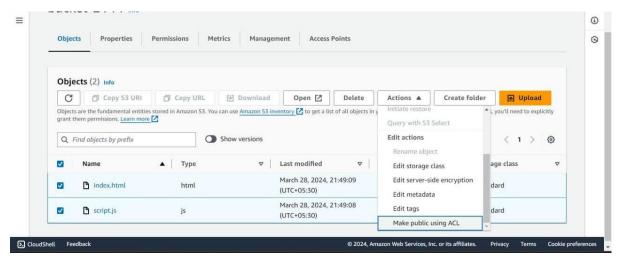
)

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:

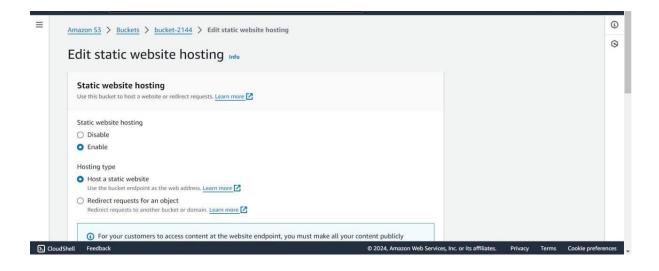
```
function uploadFile() {
  var fileInput = document.getElementById("pdfFile");
  var file = fileInput.files[0];
  var reader = new FileReader();
  reader.onload = function (event) {
    var fileData = event.target.result;
    var params = {
      fileName: file.name,
      fileData: fileData,
    };
    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),
```

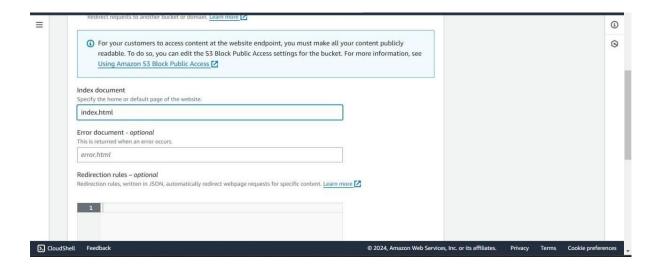
```
.then((response) => response.json())
.then((data) => {
    console.log("File uploaded successfully. Response: ", data);
    document.getElementById("message").innerHTML =
        "File uploaded successfully!";
})
.catch((error) => {
    console.error("Error uploading file: ", error);
    document.getElementById("message").innerHTML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

Index.html:

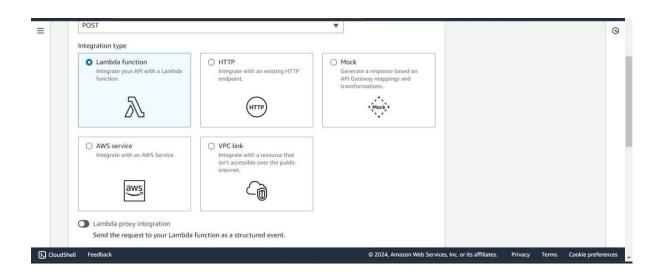
```
<!DOCTYPE html>
<html lang="en">
<head>
 <meta charset="UTF-8"/>
 <meta name="viewport" content="width=device-width, initial-scale=1.0" />
 <title>Cloud File Manager</title>
 <link rel="stylesheet" href="./style.css" />
</head>
<body>
 <header>
  <h1>Cloud File Manager</h1>
  Upload, download, and 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>
```

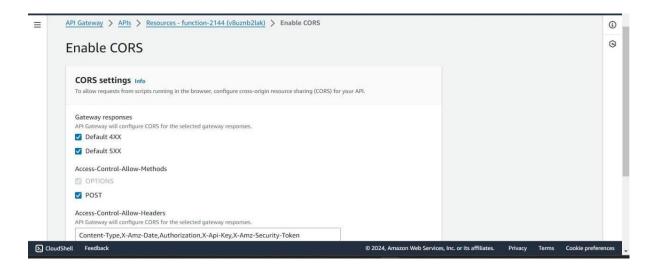
```
</section>
  <section id="file-list-section">
   <h2>Your Files</h2>
   ul id="file-list">
  </section>
 </main>
 <!-- Add buttons for download and delete actions -->
 <section id="file-actions-section">
  <h2>File Actions</h2>
  <div id="file-actions">
   <!-- These buttons will be dynamically populated 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>
```

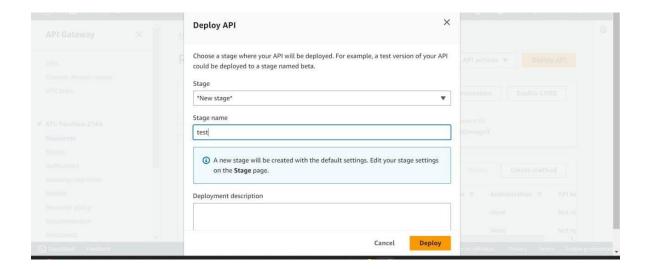


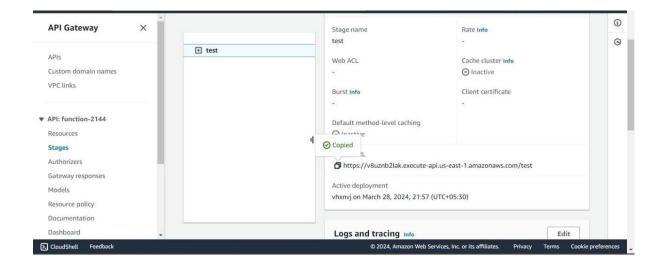


Step 4: Work with Api Gateway

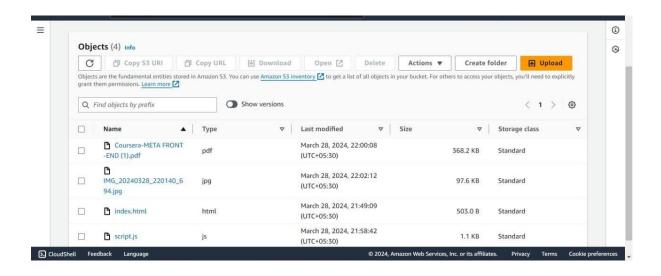








Output:



Using URL files can be uploaded

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

Upload PDF

Choose File No file chosen

Upload