

School of Computer Science, Engineering and Applications (SCSEA)
B.C.A. TY (CCSA)
Subject: Advanced Cloud Computing (P)

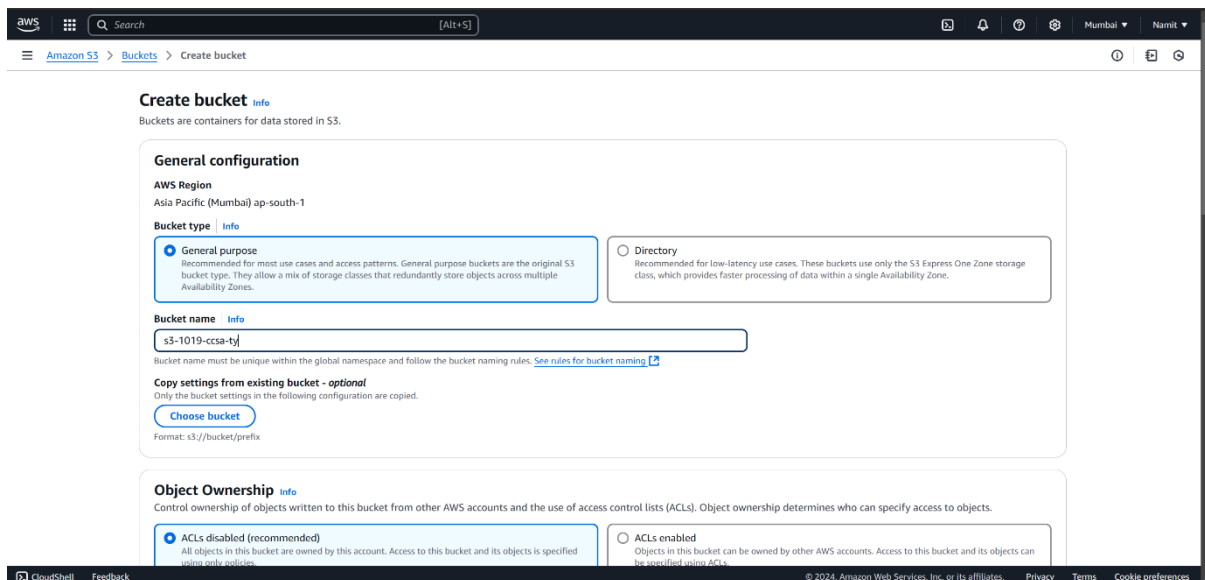
Name of the Student: Namit Agarwal

PRN: 20220801019

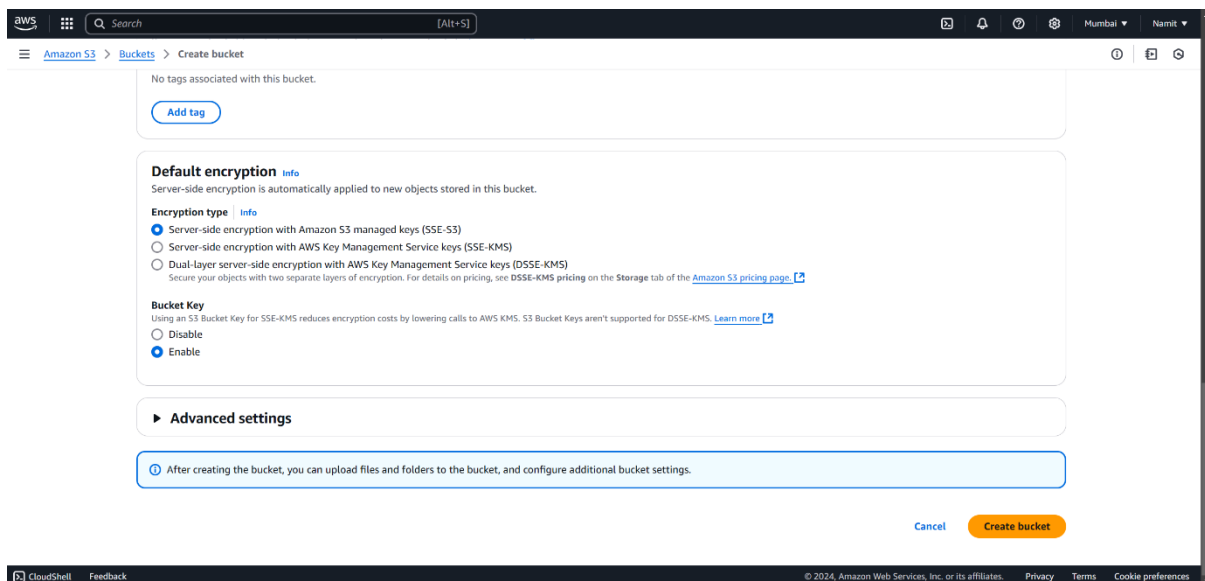
Title of Practical: Securely access S3 images using Amazon Cloud Front

1. Create an S3 Bucket

1. Go to the **S3 Service** and click on **Create Bucket**.
2. Provide a **unique name** for the S3 bucket.



3. Create bucket



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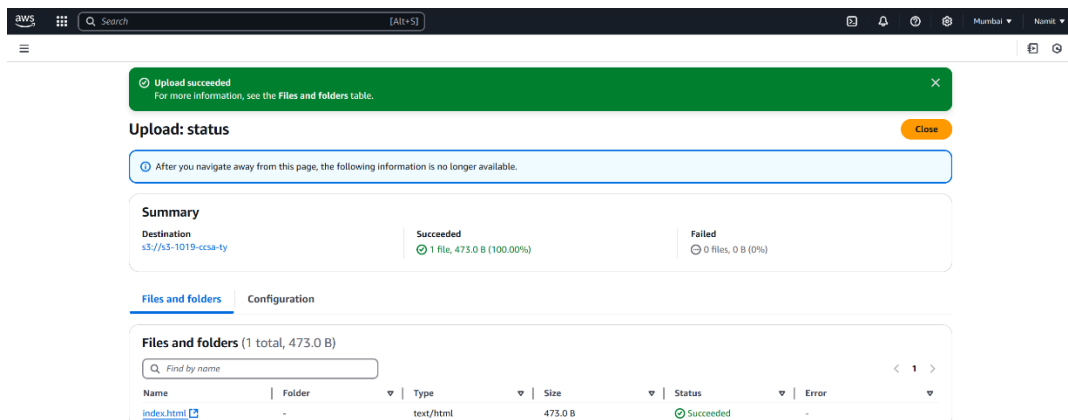
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4. Navigate to the S3 bucket you just created and upload your index.html file.



The screenshot shows the AWS S3 console interface. At the top, there's a green notification bar stating "Upload succeeded" for the file "index.html" (473.0 B) in the bucket "s3://s3-1019-ccsa-ty". Below this, the "Upload: status" section shows a summary table with columns for Destination, Succeeded, and Failed. The "Files and folders" section shows a table with one entry: "index.html" (text/html, 473.0 B, Succeeded).

Destination	Succeeded	Failed
s3://s3-1019-ccsa-ty	1 file, 473.0 B (100.00%)	0 files, 0 B (0%)

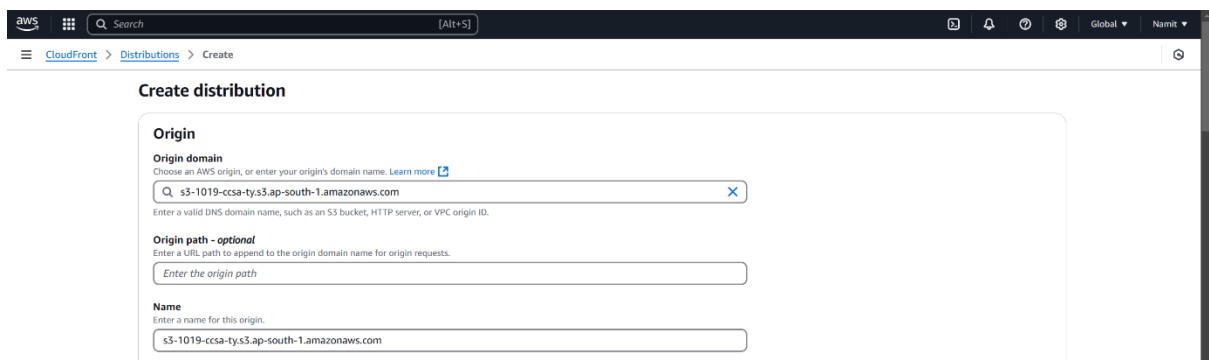
Name	Folder	Type	Size	Status	Error
index.html	-	text/html	473.0 B	Succeeded	-



```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Light sky</title>
  <script src="https://cdn.tailwindcss.com"></script>
</head>
<body class="h-svh w-screen bg-[#212121] flex items-center justify-center">
  
</body>
</html>
```

2. Set Up CloudFront Distribution

1. Go to the **CloudFront Service** and click on **Create Distribution**.
2. In the **Origin Domain** section, select the S3 bucket you just created.



The screenshot shows the "Create distribution" form in the AWS CloudFront console. The "Origin domain" field is populated with "s3-1019-ccsa-ty.s3.ap-south-1.amazonaws.com". The "Origin path - optional" field is empty. The "Name" field is populated with "s3-1019-ccsa-ty.s3.ap-south-1.amazonaws.com".

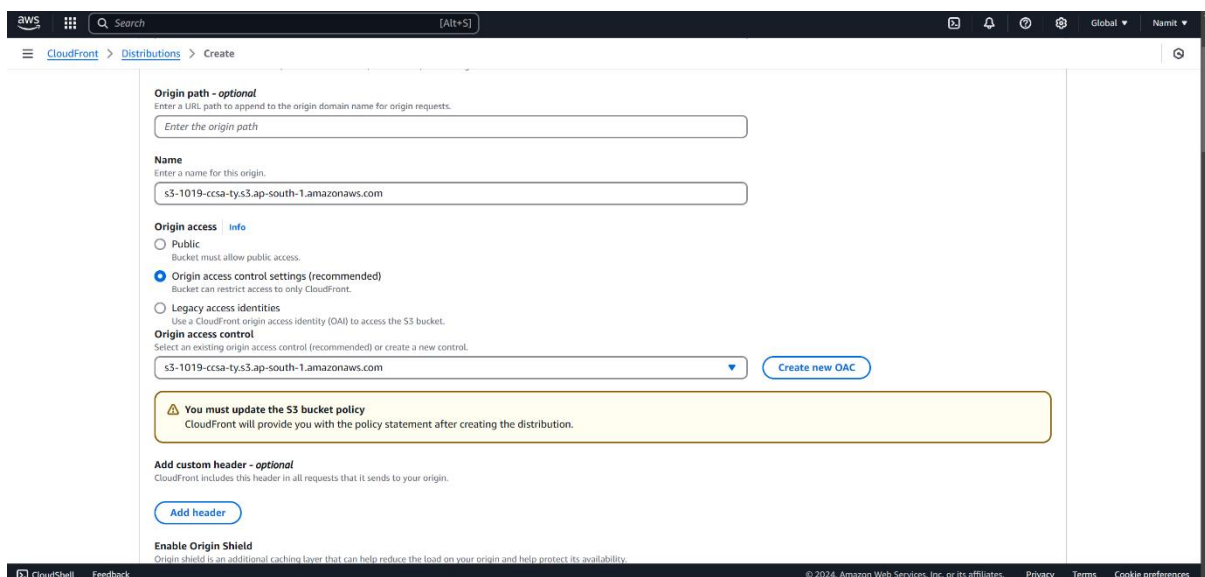
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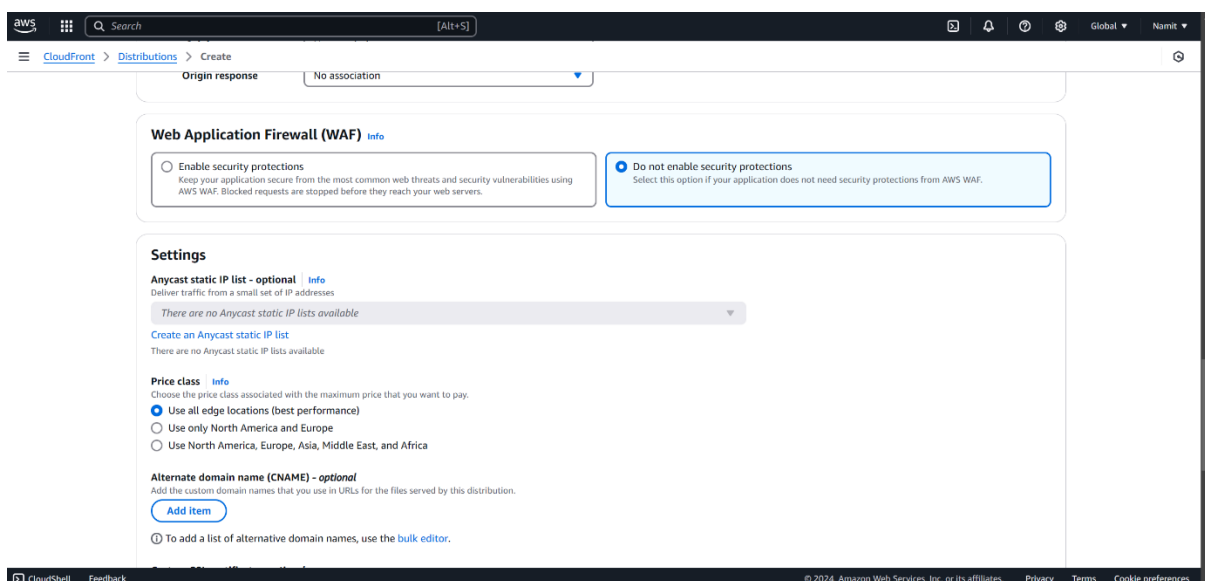
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3. In the **Origin Access** section, select the **Origin access control settings** and choose your S3 bucket in the **Origin access control** field.



The screenshot shows the AWS CloudFront 'Create' page, specifically the 'Origin Access' section. The 'Origin path' field is empty. The 'Name' field contains 's3-1019-ccsa-ty.s3.ap-south-1.amazonaws.com'. Under 'Origin access', the 'Origin access control settings (recommended)' option is selected. The 'Origin access control' dropdown menu is open, showing the same S3 bucket name. A yellow warning box states: 'You must update the S3 bucket policy. CloudFront will provide you with the policy statement after creating the distribution.' The 'Add custom header' section is also visible.

4. Ignore all other settings and scroll down to the **Web Application Firewall (WAF)** section. Select **Do not enable security protections**.



The screenshot shows the AWS CloudFront 'Create' page, specifically the 'Web Application Firewall (WAF)' section. The 'Origin response' dropdown is set to 'No association'. Under 'Web Application Firewall (WAF)', the 'Do not enable security protections' option is selected. The 'Settings' section is also visible, showing 'Anycast static IP list' and 'Price class' options.

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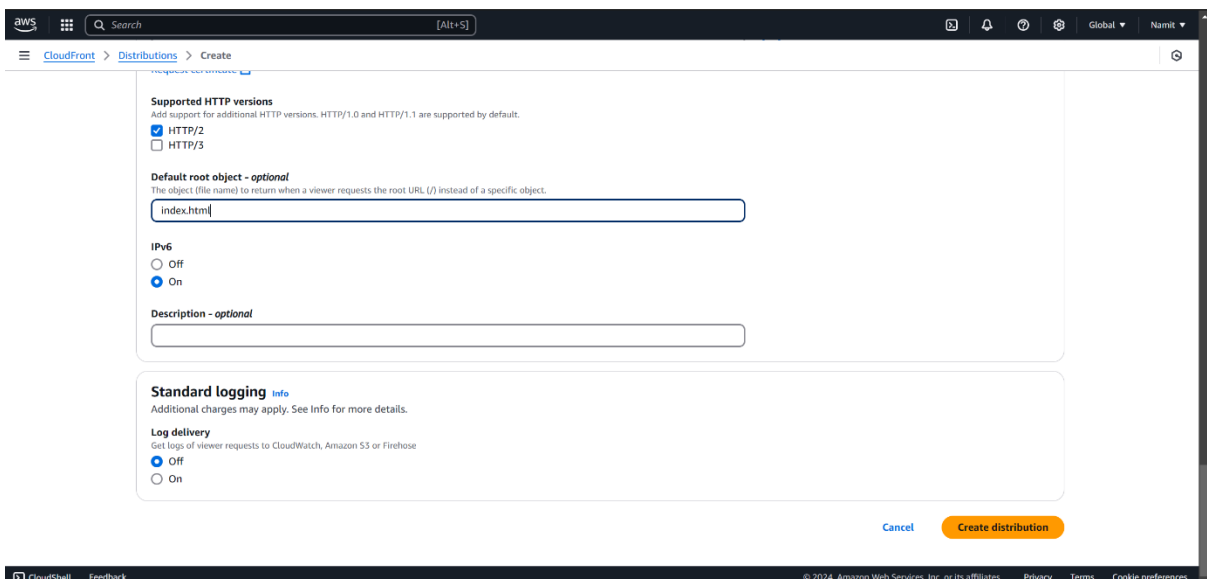
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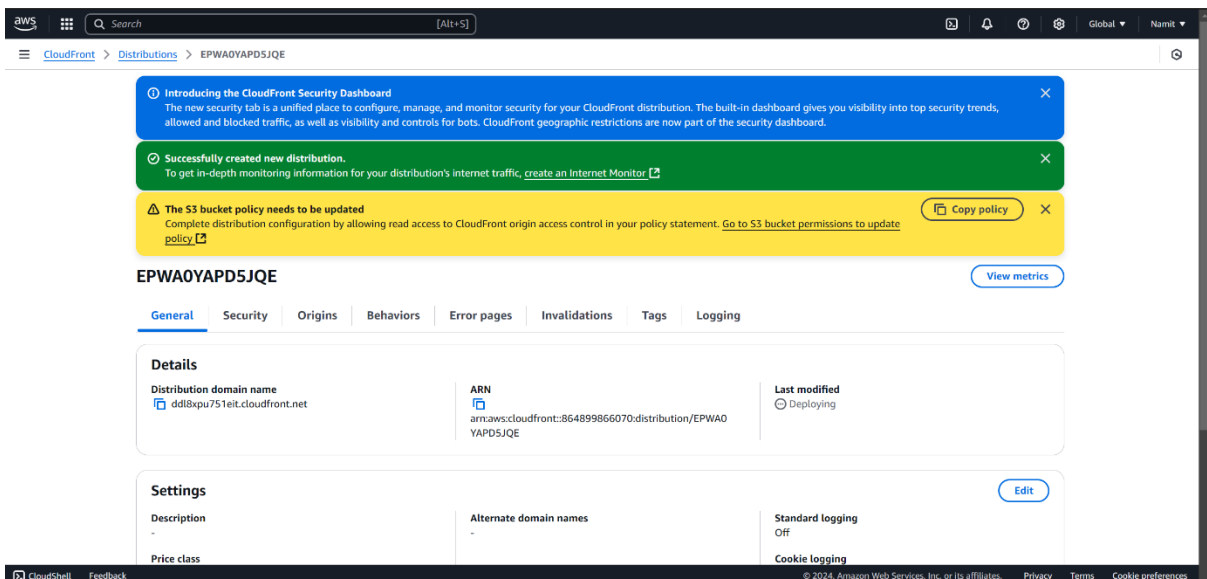
5. In the **Settings** section, locate the **Default Root Object** field. Enter the name of the file you uploaded to the S3 bucket



The screenshot shows the AWS CloudFront console's 'Create distribution' page. The 'Supported HTTP versions' section has 'HTTP/2' checked. The 'Default root object - optional' section has 'index.html' entered in the text field. The 'IPv6' section has 'On' selected. The 'Description - optional' field is empty. The 'Standard logging' section has 'Log delivery' set to 'Off'. At the bottom right, there are 'Cancel' and 'Create distribution' buttons.

6. Click on **Create Distribution**.

7. After the distribution is created, click on the **Copy Policy** button.



The screenshot shows the AWS CloudFront console's 'Distribution' page for 'EPWA0YAPD5JQE'. The 'Details' tab is active, showing the distribution domain name 'ddl8xpu751eit.cloudfront.net', the ARN 'arn:aws:cloudfront:364899866070:distribution/EPWA0YAPD5JQE', and the last modified date 'Deploying'. The 'Settings' tab is also visible, showing the 'Description' field and the 'Standard logging' section. A 'Copy policy' button is visible in the top right corner of the 'Details' tab.

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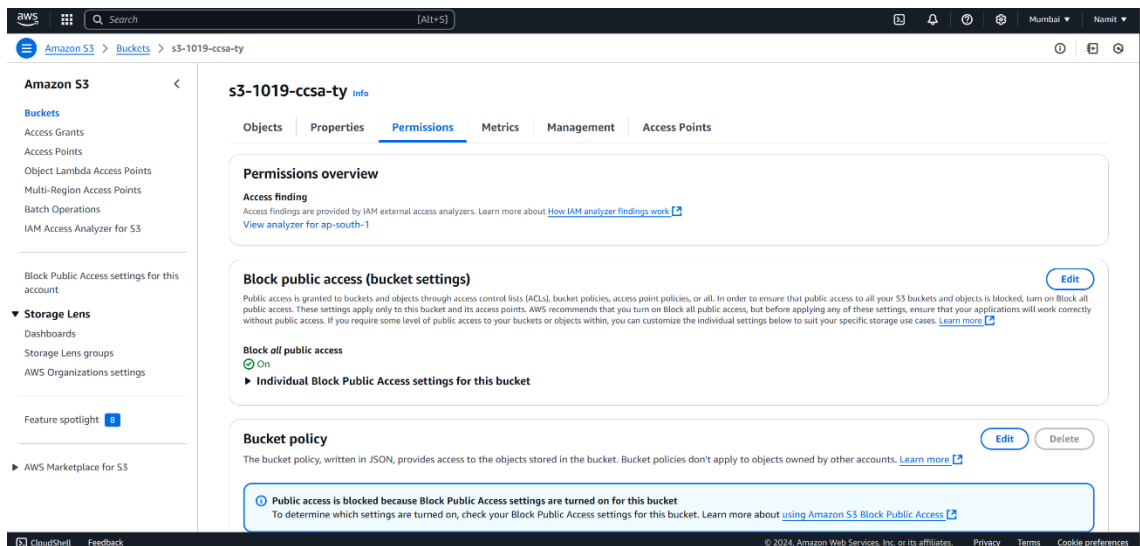
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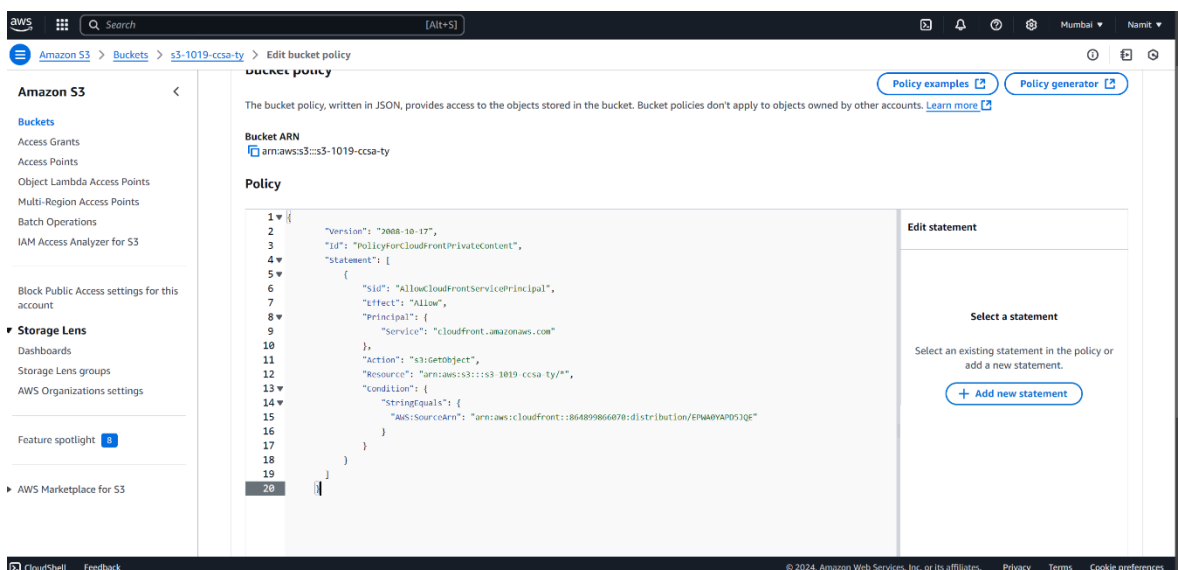
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3. Update S3 Bucket Policy

1. Go back to your S3 bucket.
2. Navigate to the **Permissions** tab.



3. Scroll down to the **Bucket Policy** section and click on the **Edit** button.
4. Paste the bucket policy you copied earlier from CloudFront.



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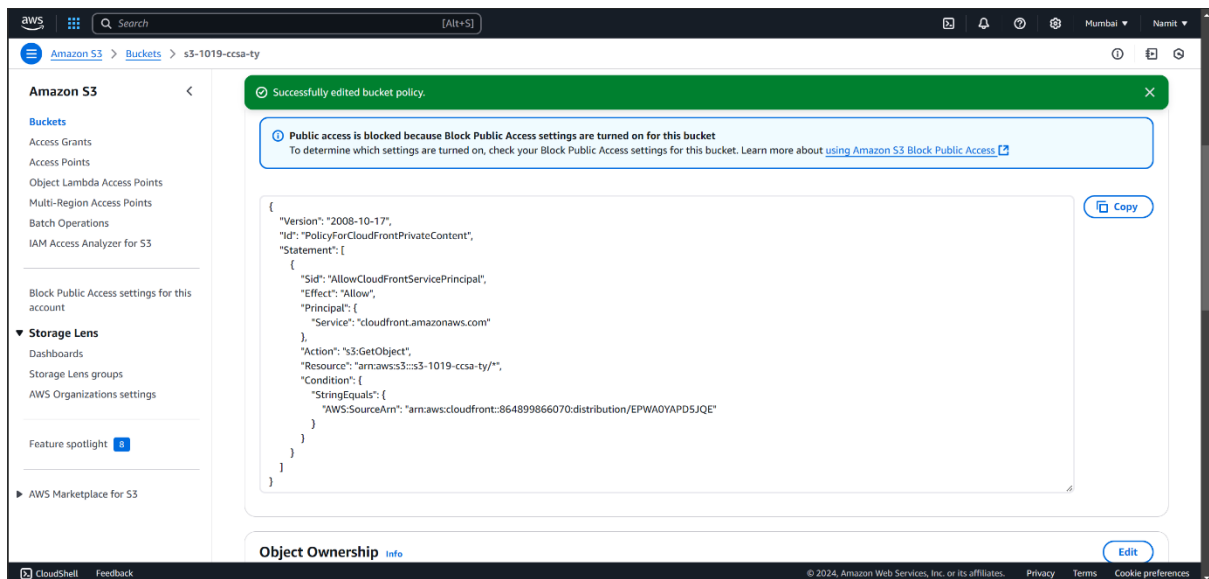
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4. Test the Configuration

1. Go back to your CloudFront distribution and copy the **Distribution Domain Name**.

