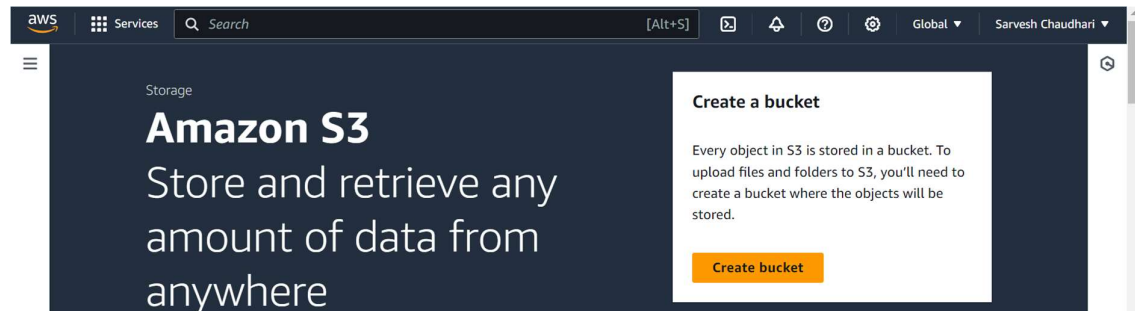# Objective:- To learn Cloud-front and Edge location
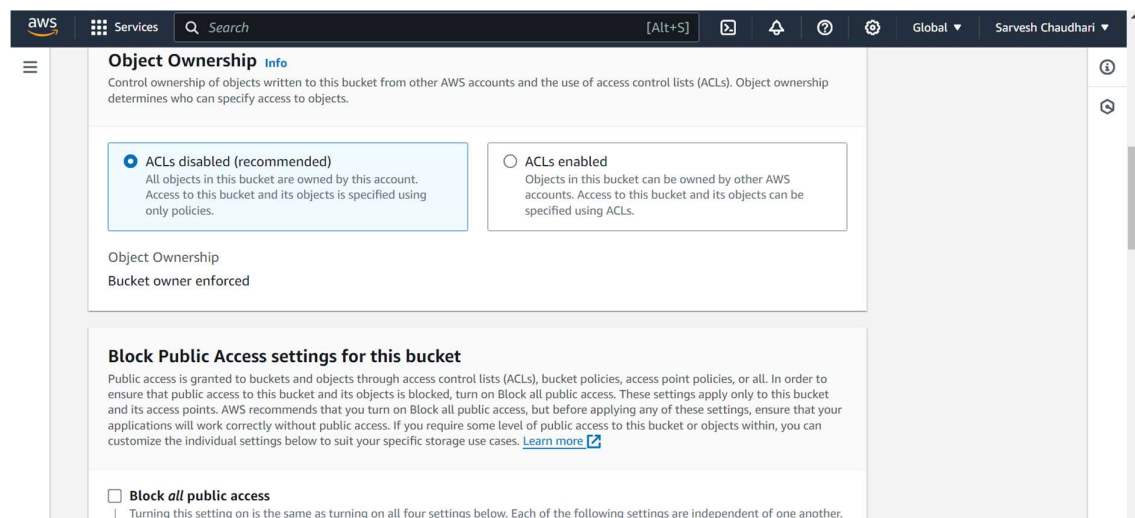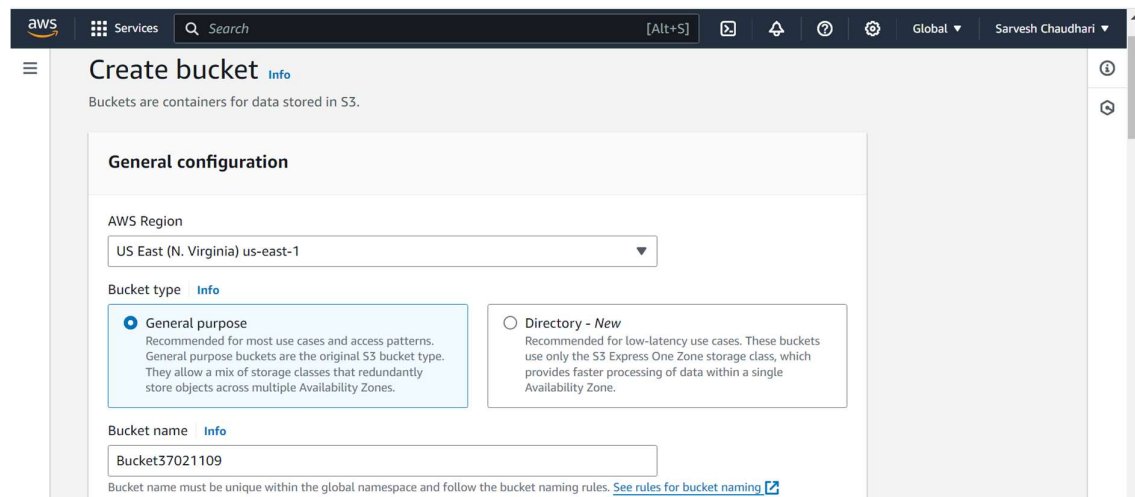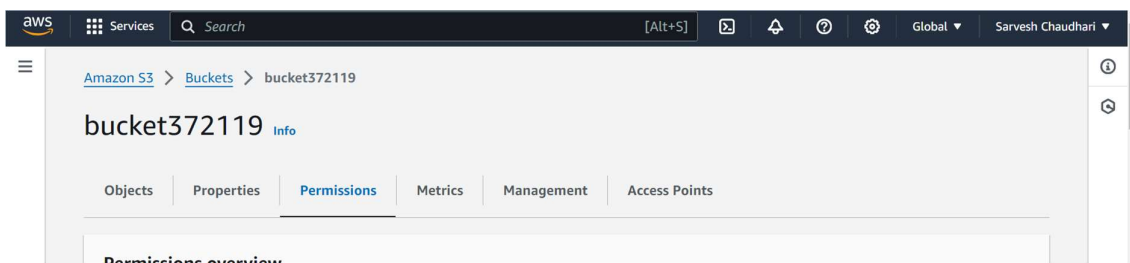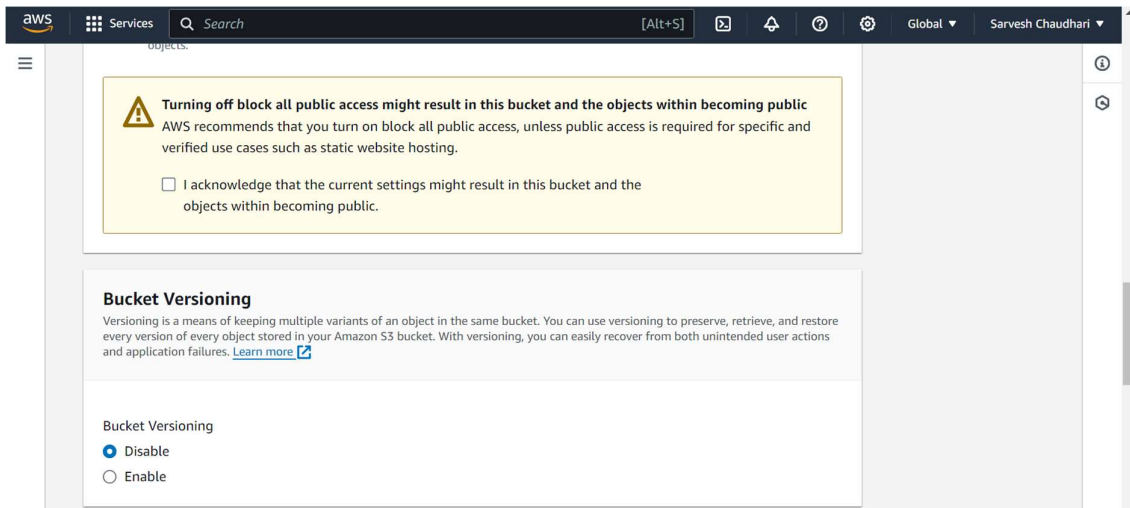
Steps:-

1st Create bucket

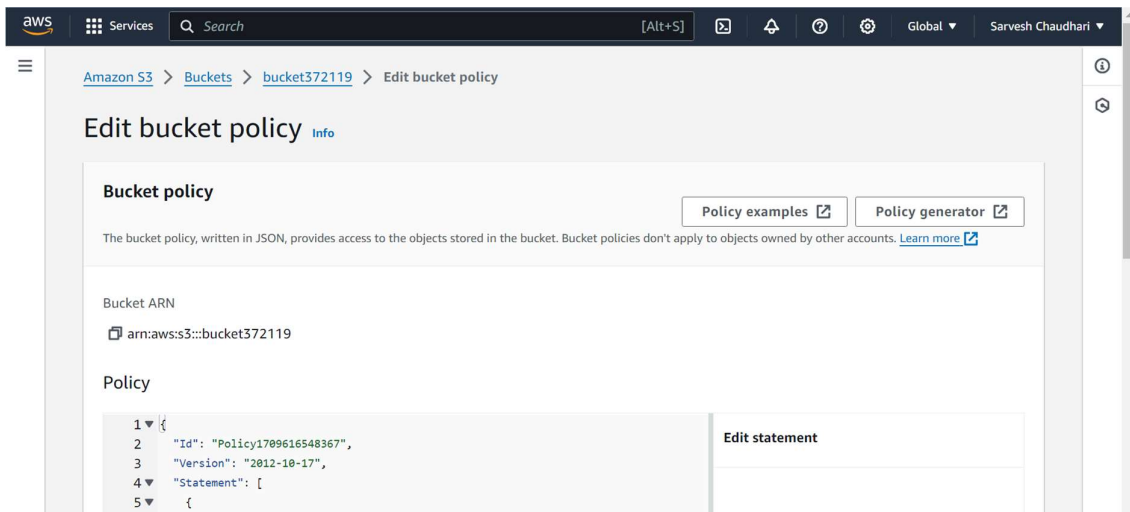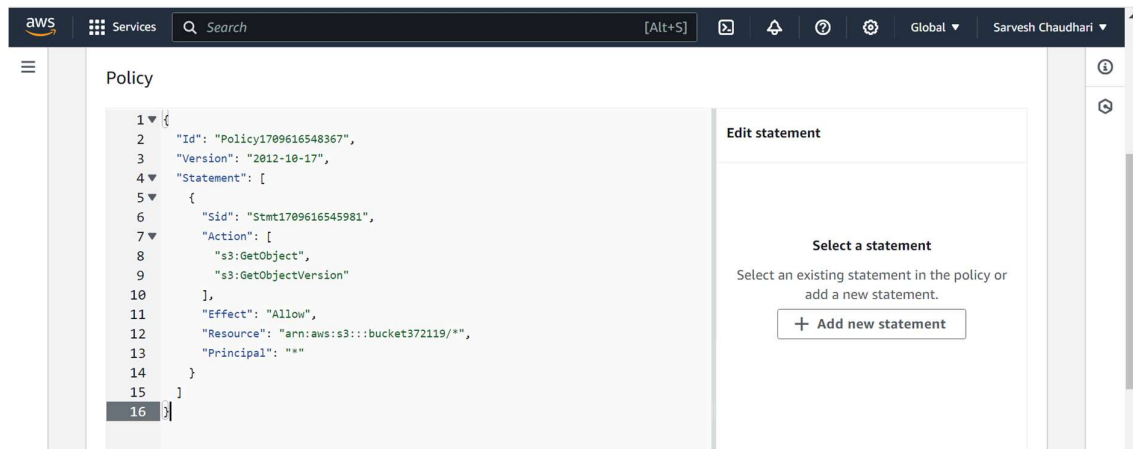Give name keep the all things by-default

objects.

⚠ **Turning off block all public access might result in this bucket and the objects within becoming public**
AWS recommends that you turn on block all public access, unless public access is required for specific and verified use cases such as static website hosting.

☐ I acknowledge that the current settings might result in this bucket and the objects within becoming public.

Bucket Versioning

Versioning is a means of keeping multiple variants of an object in the same bucket. You can use versioning to preserve, retrieve, and restore every version of every object stored in your Amazon S3 bucket. With versioning, you can easily recover from both unintended user actions and application failures. Learn more 🔗

Bucket Versioning
◉ Disable
○ Enable

Amazon S3 > Buckets > bucket372119

bucket372119 Info

Objects | Properties | **Permissions** | Metrics | Management | Access Points

Permissions overview

Edit Policy

Amazon S3 > Buckets > bucket372119 > Edit bucket policy

Edit bucket policy Info

Bucket policy

Policy examples 🔗 | Policy generator 🔗

The bucket policy, written in JSON, provides access to the objects stored in the bucket. Bucket policies don't apply to objects owned by other accounts. Learn more 🔗

Bucket ARN

📋 arn:aws:s3:::bucket372119

Policy

```
1 ▼ {
2     "Id": "Policy1709616548367",
3     "Version": "2012-10-17",
4 ▼   "Statement": [
5 ▼     {
```

Edit statement

Policy

```
1 ▼ {
2      "Id": "Policy1709616548367",
3      "Version": "2012-10-17",
4 ▼    "Statement": [
5 ▼      {
6          "Sid": "Stmt1709616545981",
7 ▼        "Action": [
8            "s3:GetObject",
9            "s3:GetObjectVersion"
10         ],
11         "Effect": "Allow",
12         "Resource": "arn:aws:s3:::bucket372119/*",
13         "Principal": "*"
14       }
15     ]
16 }
```

Edit statement

Select a statement

Select an existing statement in the policy or add a new statement.

➕ Add new statement
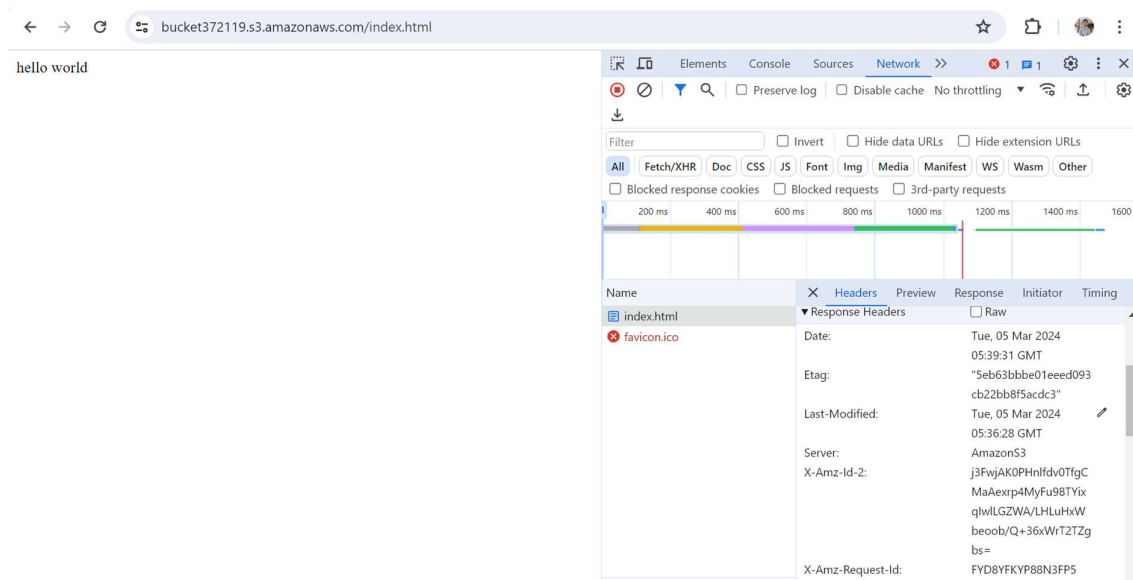
Now upload html file to object then copy URL and paste to check it is working or not.

bucket372119 Info `Publicly accessible`

Objects | Properties | Permissions | Metrics | Management | Access Points

Objects (1) Info ✅ Object URL Copied

🔄 | 🗐 Copy S3 URI | 🗐 Copy URL | ⬇ Download | Open 🔗 | Delete | Actions ▼ | Create folder

📤 Upload

Objects are the fundamental entities stored in Amazon S3. You can use Amazon S3 inventory 🔗 to get a list of all objects in your bucket. For others to access your objects, you'll need to explicitly grant them permissions. Learn more 🔗

🔍 Find objects by prefix

< 1 >

	Name ▲	Type ▼	Last modified ▼	Size ▼	Storage class ▼
☑	📄 index.html	html	March 5, 2024, 11:06:28 (UTC+05:30)	11.0 B	Standard

bucket372119.s3.amazonaws.com/index.html

hello world

Elements | Console | Sources | Network | >>

🔴 ⊘ | ▼ 🔍 | ☐ Preserve log | ☐ Disable cache | No throttling ▼

Filter | ☐ Invert | ☐ Hide data URLs | ☐ Hide extension URLs

All | Fetch/XHR | Doc | CSS | JS | Font | Img | Media | Manifest | WS | Wasm | Other

☐ Blocked response cookies | ☐ Blocked requests | ☐ 3rd-party requests

200 ms | 400 ms | 600 ms | 800 ms | 1000 ms | 1200 ms | 1400 ms | 1600

Name	Headers	Preview	Response	Initiator	Timing
📄 index.html					
❌ favicon.ico					

▼ Response Headers ☐ Raw

Date: Tue, 05 Mar 2024 05:39:31 GMT

Etag: "5eb63bbbe01eeed093 cb22bb8f5acdc3"

Last-Modified: Tue, 05 Mar 2024 05:36:28 GMT

Server: AmazonS3

X-Amz-Id-2: j3FwjAK0PHnlfdv0TfgC MaAexrp4MyFu98TYix qlwlLGZWA/LHLuHxW beoob/Q+36xWrT2TZg bs=

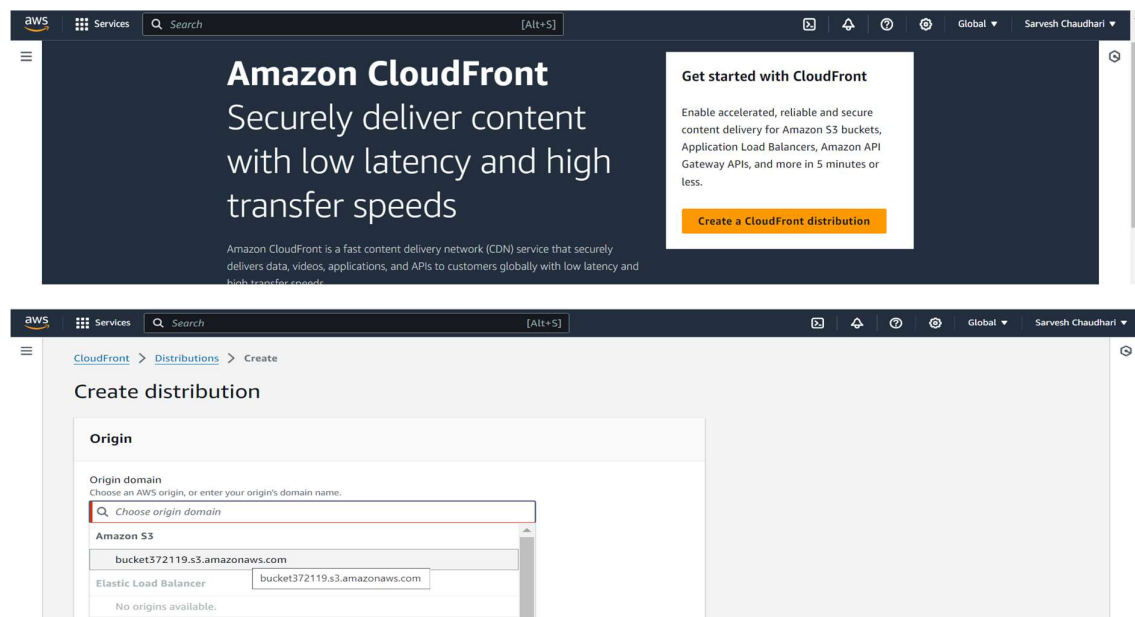X-Amz-Request-Id: FYD8YFKYP88N3FP5

Now enable website hosting select bucket go to properties.

Enable it.

Now create cloud Distribution from CloudFront Service.

Now click on Use website endpoint
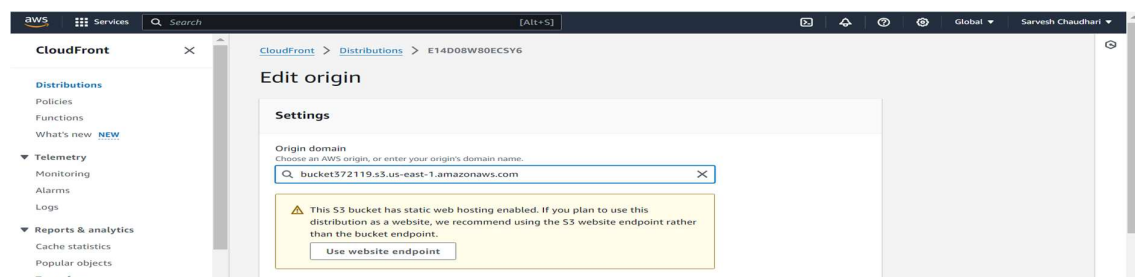
Enter the origin path

Name
Enter a name for this origin.

bucket372119.s3.amazonaws.com

Origin access   Info

◉ Public
Bucket must allow public access.

○ Origin access control settings (recommended)
Bucket can restrict access to only CloudFront.

○ Legacy access identities
Use a CloudFront origin access identity (OAI) to access the S3 bucket.

Add custom header - *optional*
CloudFront includes this header in all requests that it sends to your origin.

Add header

Enable Origin Shield
Origin shield is an additional caching layer that can help reduce the load on your origin and help protect its availability.

◉ No
○ Yes

○ Yes

Cache key and origin requests

We recommend using a cache policy and origin request policy to control the cache key and origin requests.

◉ Cache policy and origin request policy (recommended)
○ Legacy cache settings

Cache policy
Choose an existing cache policy or create a new one.

Select cache policy ▾

Create cache policy 🔗

Origin request policy - *optional*
Choose an existing origin request policy or create a new one.

Select origin policy ▾

Create origin request policy 🔗

Response headers policy - *optional*
Choose an existing response headers policy or create a new one.

Select response headers ▾

Create response headers policy 🔗

Settings

Price class   Info
Choose the price class associated with the maximum price that you want to pay.

◉ Use all edge locations (best performance)
○ Use only North America and Europe
○ Use North America, Europe, Asia, Middle East, and Africa

Alternate domain name (CNAME) - *optional*
Add the custom domain names that you use in URLs for the files served by this distribution.

Add item

ⓘ To add a list of alternative domain names, use the bulk editor.

Custom SSL certificate - *optional*
Associate a certificate from AWS Certificate Manager. The certificate must be in the US East (N. Virginia) Region (us-east-1).
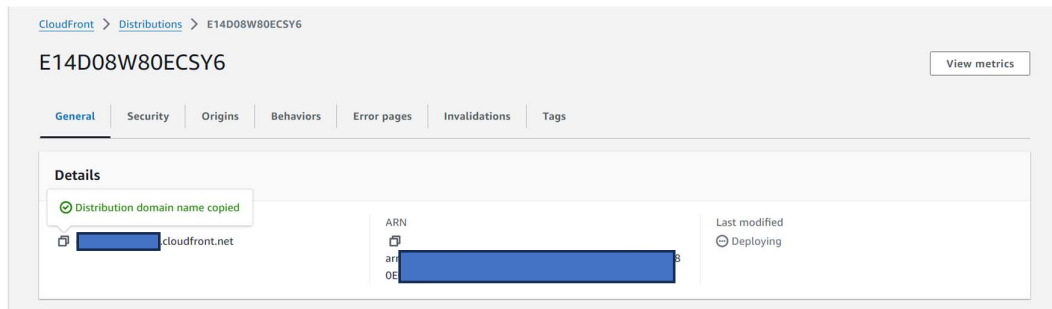
Choose certificate ▾

Request certificate 🔗

Supported HTTP versions
Add support for additional HTTP versions. HTTP/1.0 and HTTP/1.1 are supported by default.

☑ HTTP/2
☐ HTTP/3

Here we can see that website is hit from Cloudfront