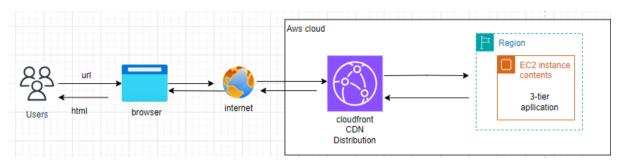
Create a CloudFront (Distribution) service using EC2 Instance & S3 Bucket

AWS CloudFront is a content delivery network service that speeds up the distribution of static (mostly S3) and dynamic web content (EC2 for static/dynamic) to users. It keeps the content on edge locations so that users can retrieve it easily whenever they request it. It delivers the content with the best possible performance by routing the user to the closest edge location. Amazon CloudFront will deliver the web content with low latency and with high transfer speeds.

What is a CDN?

A <u>Content Delivery Network (CDN)</u> is a system of distributed servers that deliver web content to users based on their geographic location. It reduces latency and speeds up load times by caching content closer to users. CDNs improve website performance and reliability, and help handle high traffic volumes efficiently. Examples include <u>Akamai</u>, <u>Cloudflare</u>, and Amazon CloudFront.



Using EC2 Instance-

Create Instance- (SG- SSH & HTTP)

Connect to Instance

\$ sudo apt install apache2

Change dir to /var/www/html and delete index.html that has been already presented.

\$ sudo rm index.html

Change dir to home

Install Website Template

\$ wget https://www.free-css.com/assets/files/free-css-templates/download/page288/global.zip

\$ sudo apt install unzip

\$ unzip global.zip

Move that unzipped file contains only to /var/www/html

```
ubuntu@ip-172-31-42-7:~$ ls

global-master global.zip

ubuntu@ip-172-31-42-7:~$ sudo mv global-master/* /var/www/html/
ubuntu@ip-172-31-42-7:~$ cd /var/www/html/
ubuntu@ip-172-31-42-7:/var/www/html$ ls

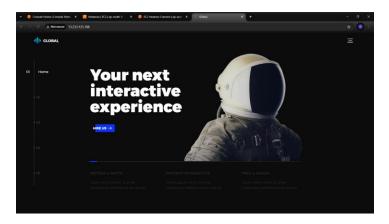
README.md assets index.html
```

\$ sudo mv global-master/* /var/www/html/

Change dir to / var/www/html/ and check the moved files.

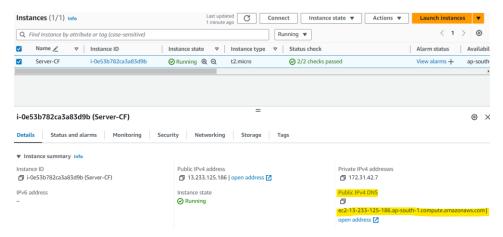
\$ cd /var/www/html/

Check using Public IP that website can accessible

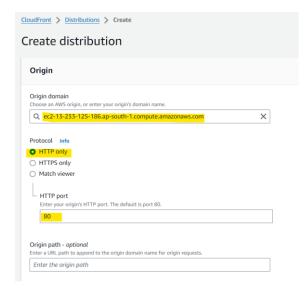


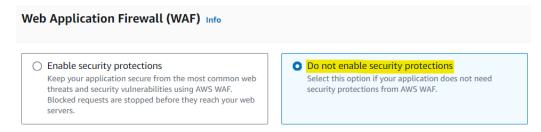
Create CloudFront Distribution-

Copy Public IPv4 DNS



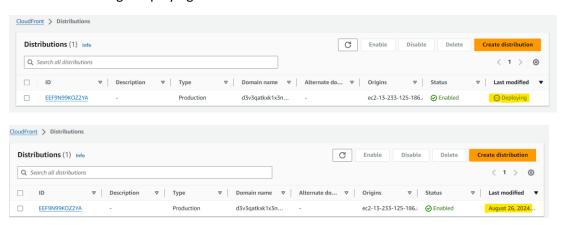
Assign Public IPv4 DNS as an Origin Domain → Select HTTP only Protocol





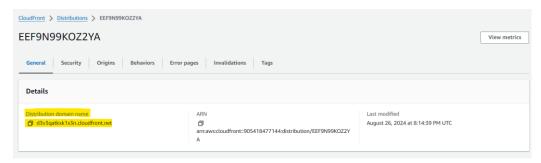
→ Create Distribution

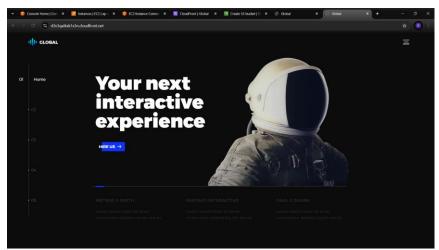
Wait until its change Deploying Status



After changing Status

Use Distribution domain name as URL

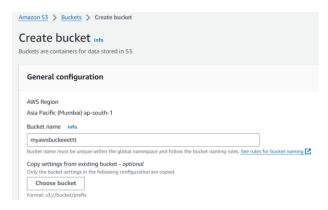




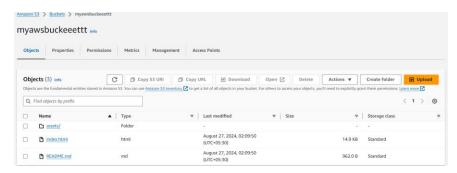
NOTE - It is possible with Public IPv4 DNS

Using S3 Bucket

Create S3 Bucket → Give only Bucket Name



Upload Template files (Drag & Drop)



Change some permission

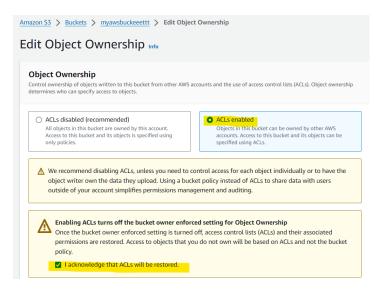


Unblock all public access





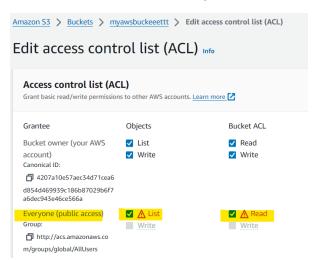
ACL's Enable-



Edit ACL



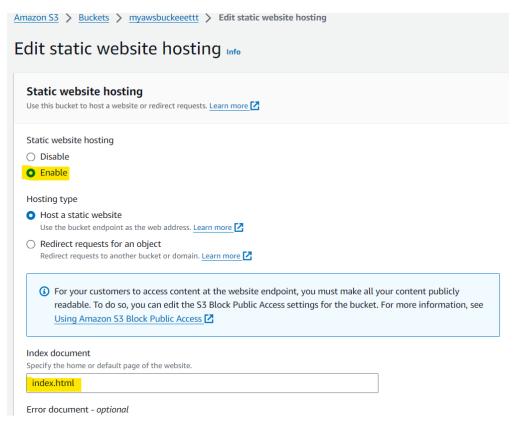
Give Access List & Read for Everyone



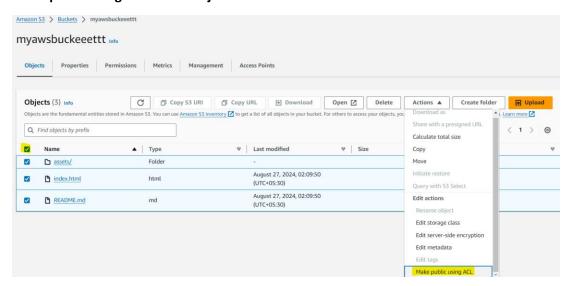
Changes in Properties

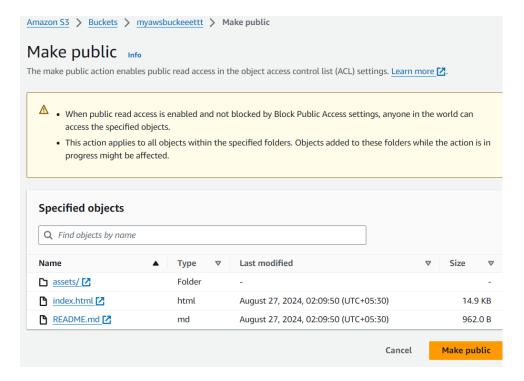


Enable static website hosting & mention index document (ie. Index.html)



Make public using ACL for all Objects in the bucket





Use endpoint

Static website hosting

Use this bucket to host a website or redirect requests. Learn more 🗹

Static website hosting

Enabled

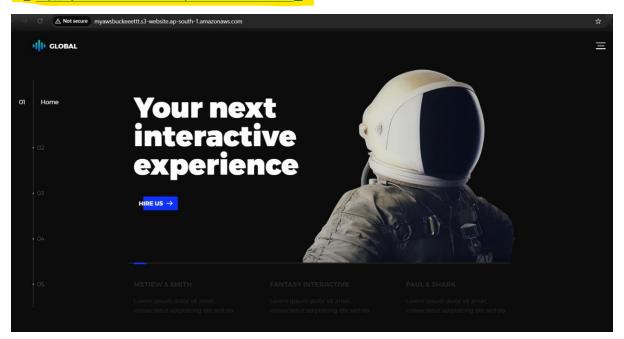
Hosting type

Bucket hosting

Bucket website endpoint

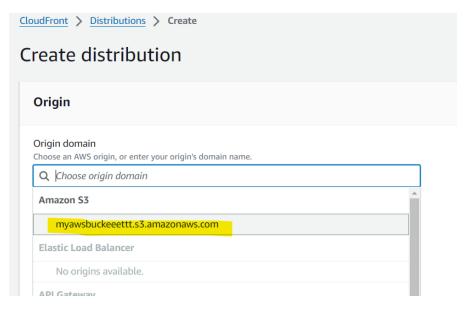
When you configure your bucket as a static website, the website is available at the AWS Region-specific website endpoint of the bucket. Learn more

http://myawsbuckeeettt.s3-website.ap-south-1.amazonaws.com

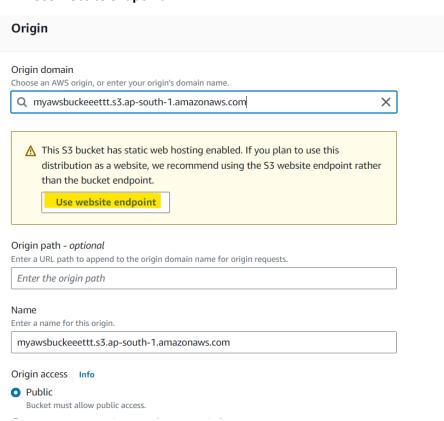


Create CloudFront Distribution-

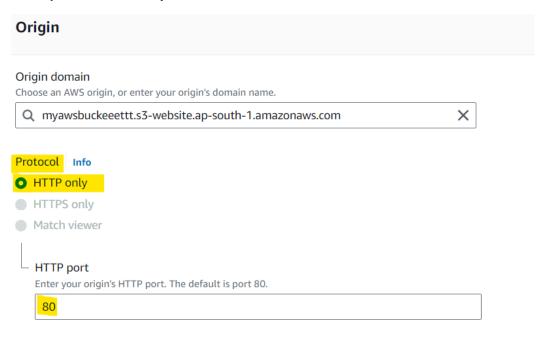
Select S3 bucket as Origin Domain



IMP- Use website endpoint



Select protocol HTTP only



Web Application Firewall (WAF) Info

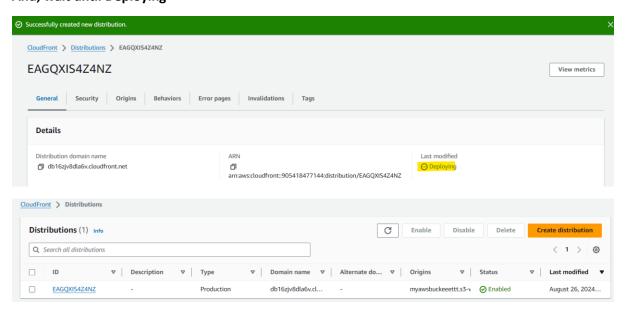
 Enable security protections
 Keep your application secure from the most common web threats and security vulnerabilities using AWS WAF.
 Blocked requests are stopped before they reach your web servers.

Do not enable security protections

Select this option if your application does not need security protections from AWS WAF.

→ Create Distribution

And, wait until Deploying



Use Distribution domain name



