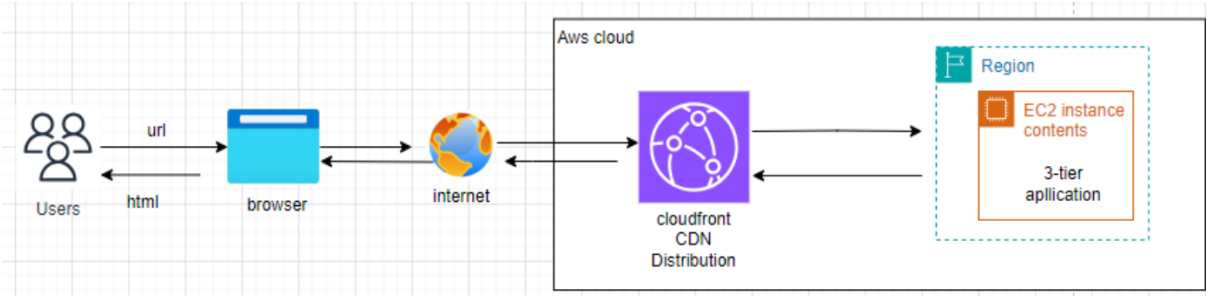
**Create a CloudFront (Distribution) service using EC2 Instance & S3 Bucket**

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 Content Delivery Network (CDN) 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 Akamai, Cloudflare, 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

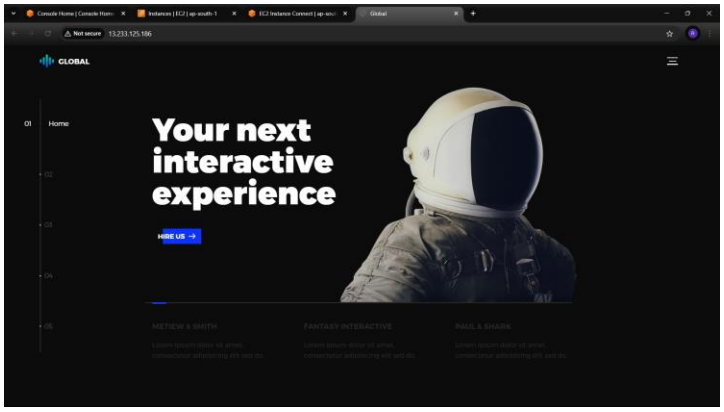
```
ubuntu@ip-172-31-42-7:~$ ls
global-master  global.zip
ubuntu@ip-172-31-42-7:~$ sudo mv global-master/* /var/www/html/
ubuntu@ip-172-31-42-7:~$ cd /var/www/html/
ubuntu@ip-172-31-42-7:/var/www/html$ ls
README.md  assets  index.html
```

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

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

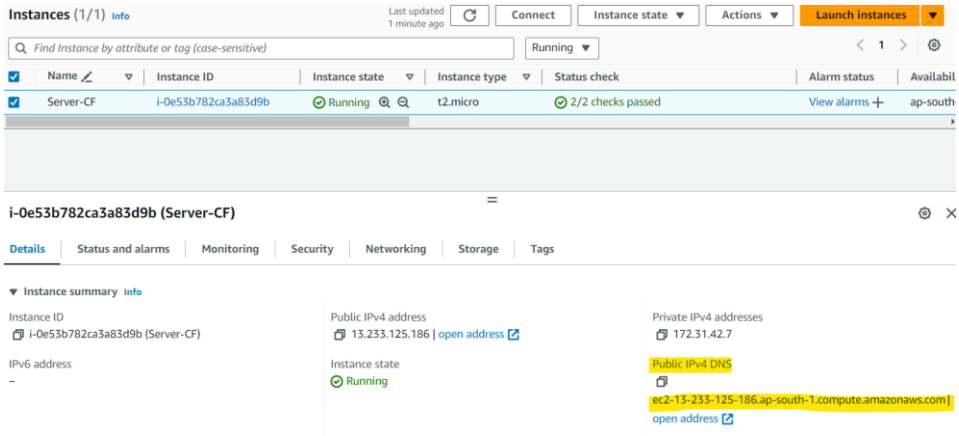
**$ cd /var/www/html/**

Check using Public IP that website can accessible

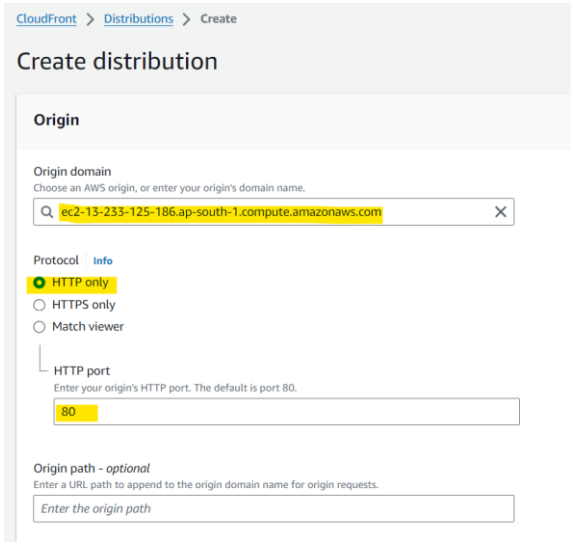


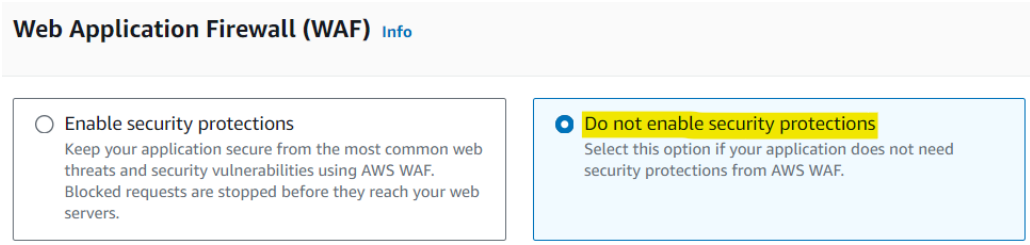

**Create CloudFront Distribution-**

Copy Public IPv4 DNS



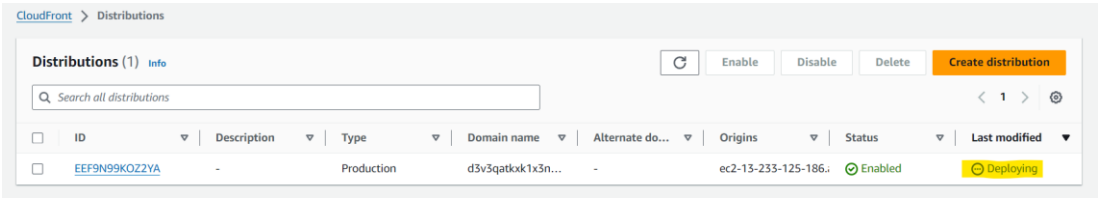

**Assign Public IPv4 DNS as an Origin Domain → Select HTTP only Protocol**

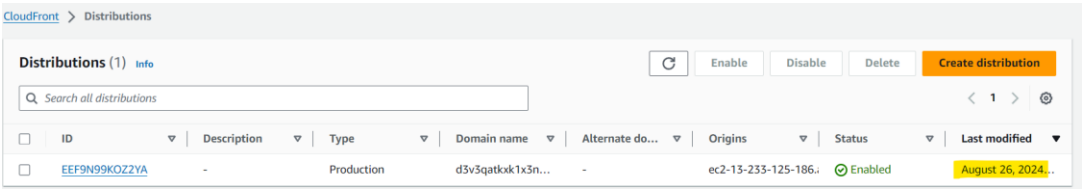





**→Create Distribution**

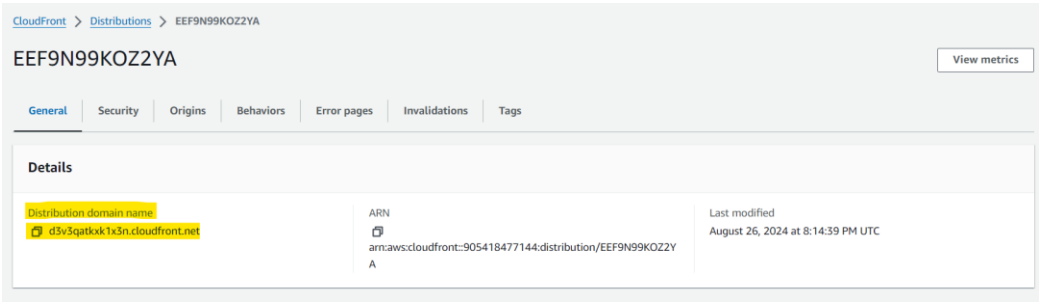
Wait until its change Deploying Status

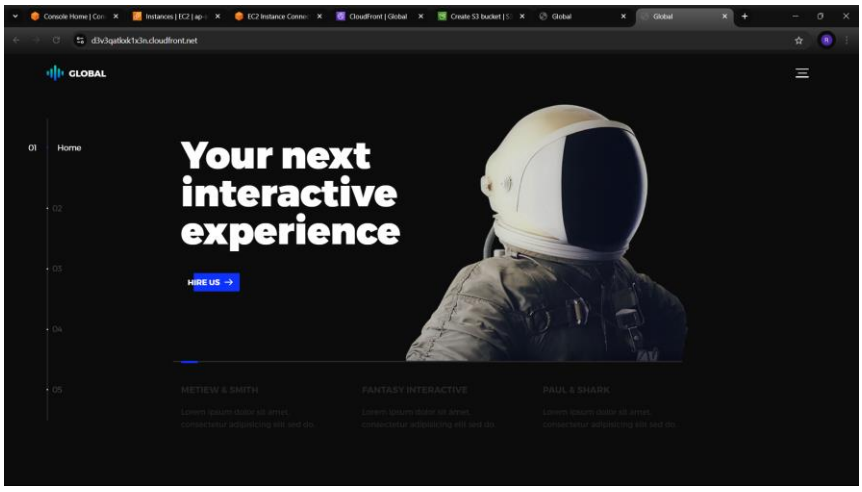



After changing Status

Use Distribution domain name as URL

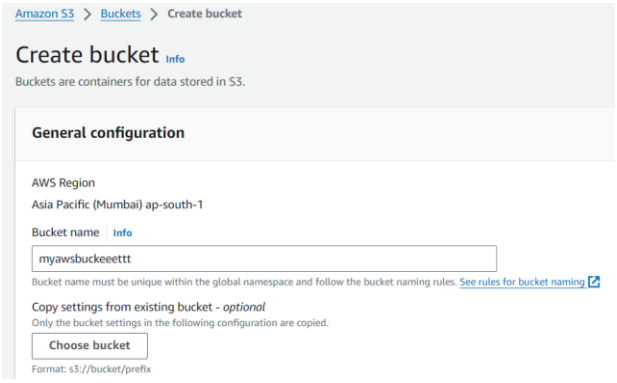


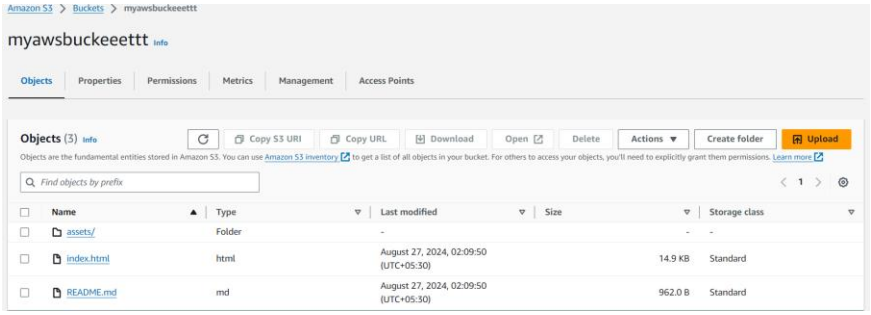

NOTE – It is possible with Public IPv4 DNS

## Using S3 Bucket

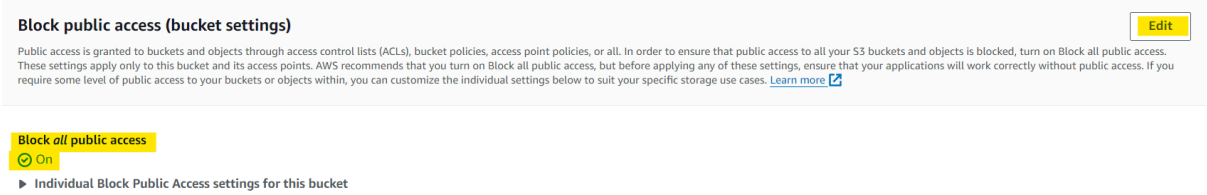
Create S3 Bucket → Give only Bucket Name



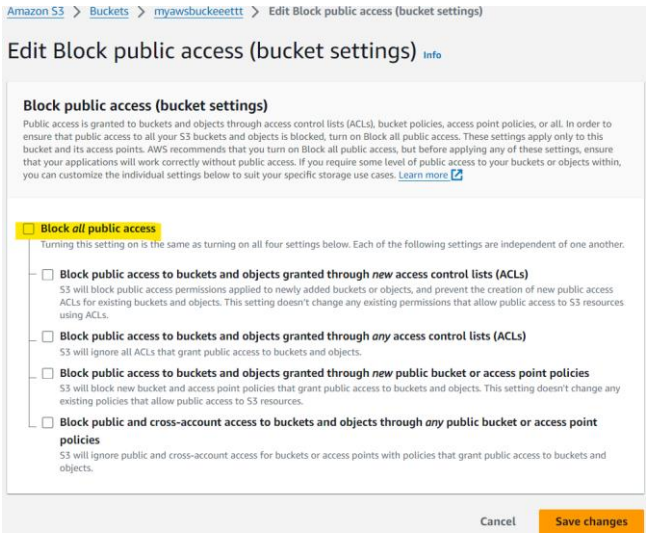

Upload Template files (Drag & Drop)

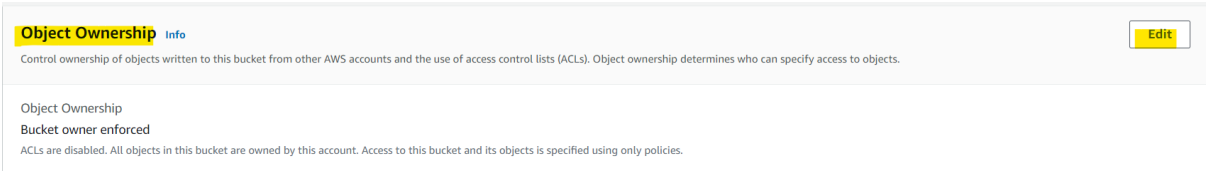



Change some permission

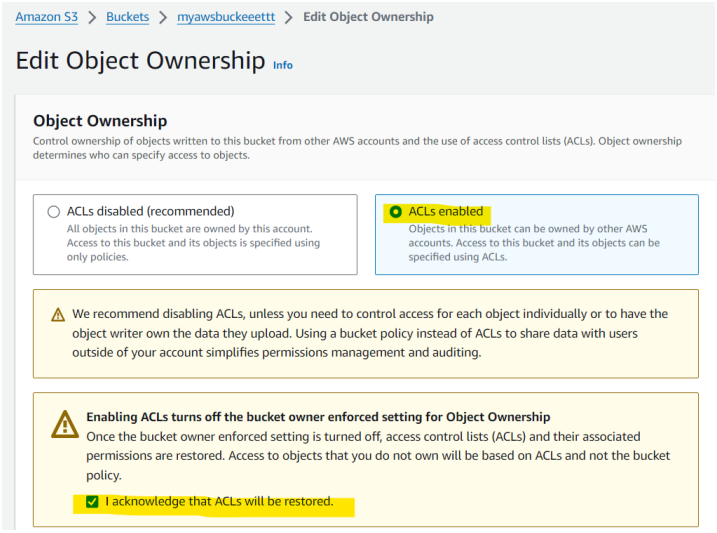



## Unblock all public access

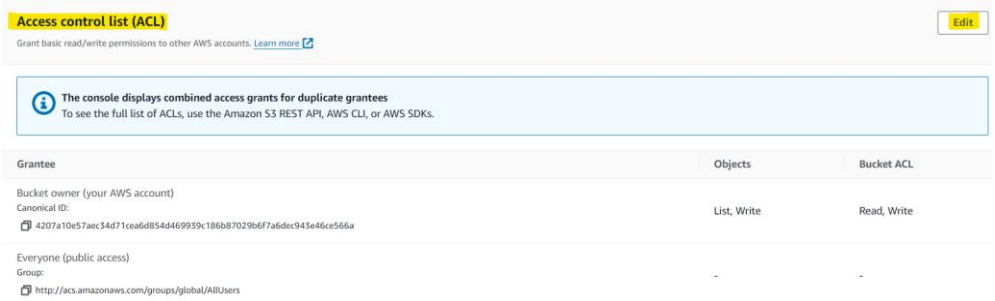




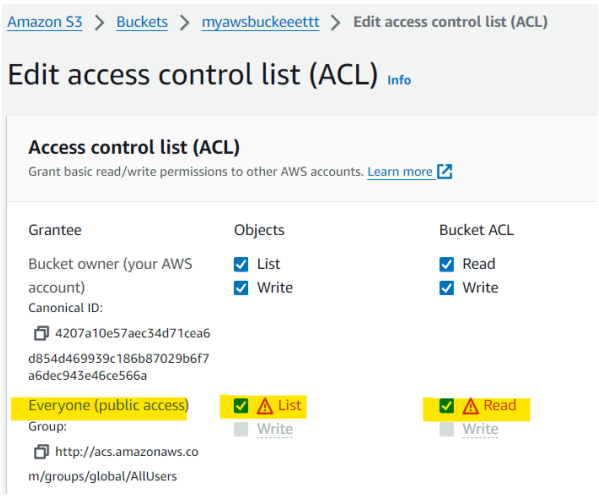

## ACL's Enable-



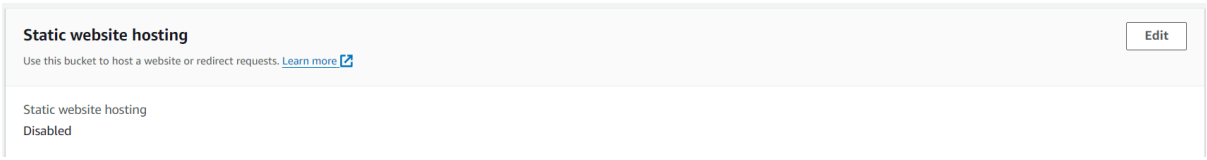

## Edit ACL



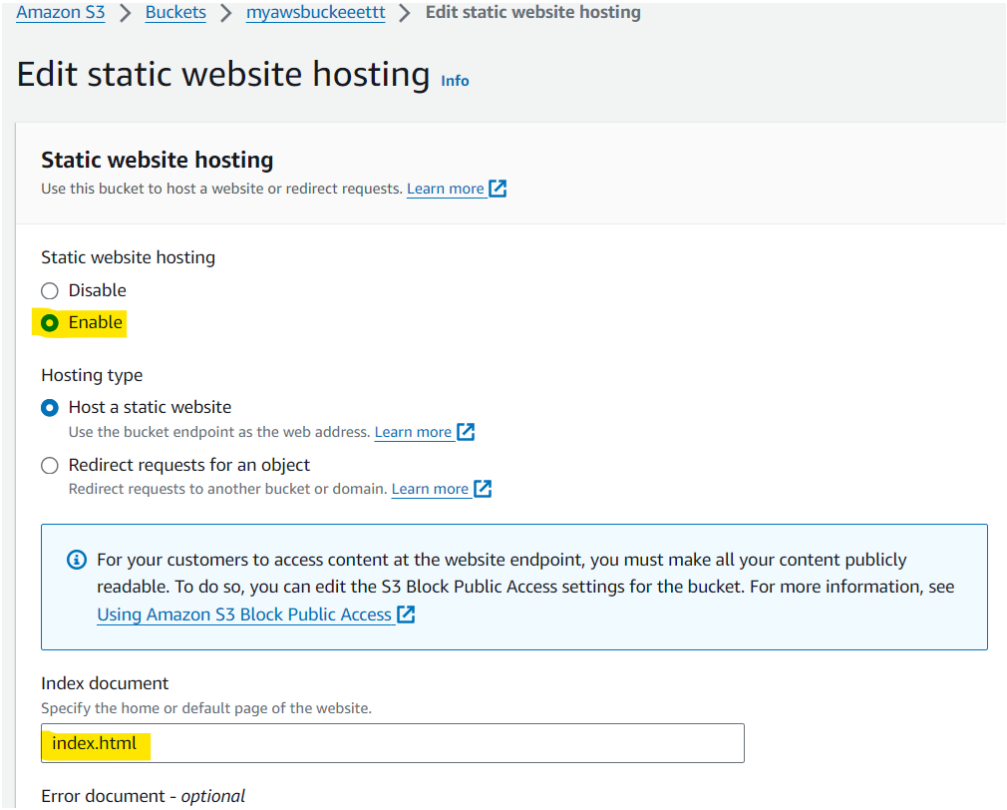

## Give Access List & Read for Everyone



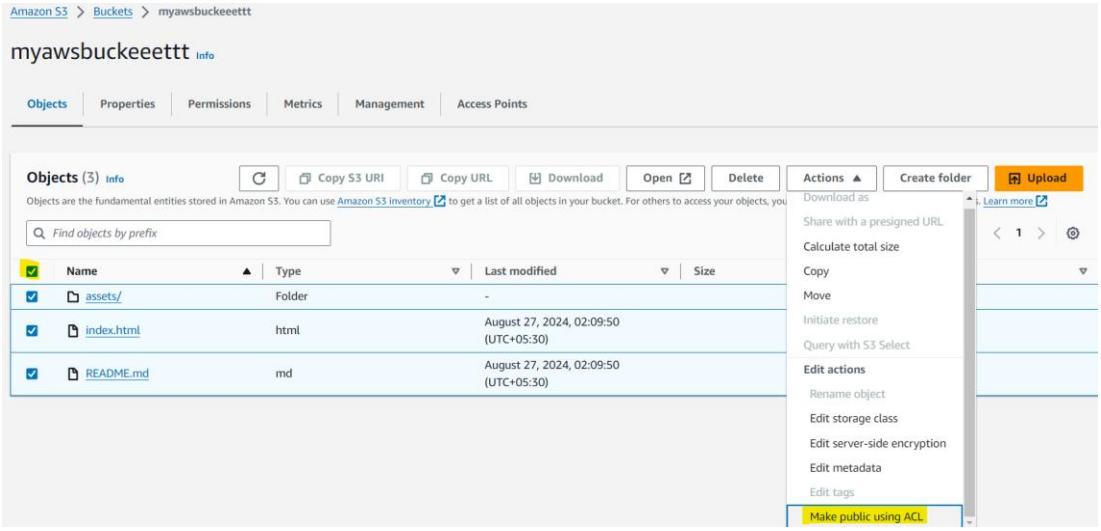
## Changes in Properties

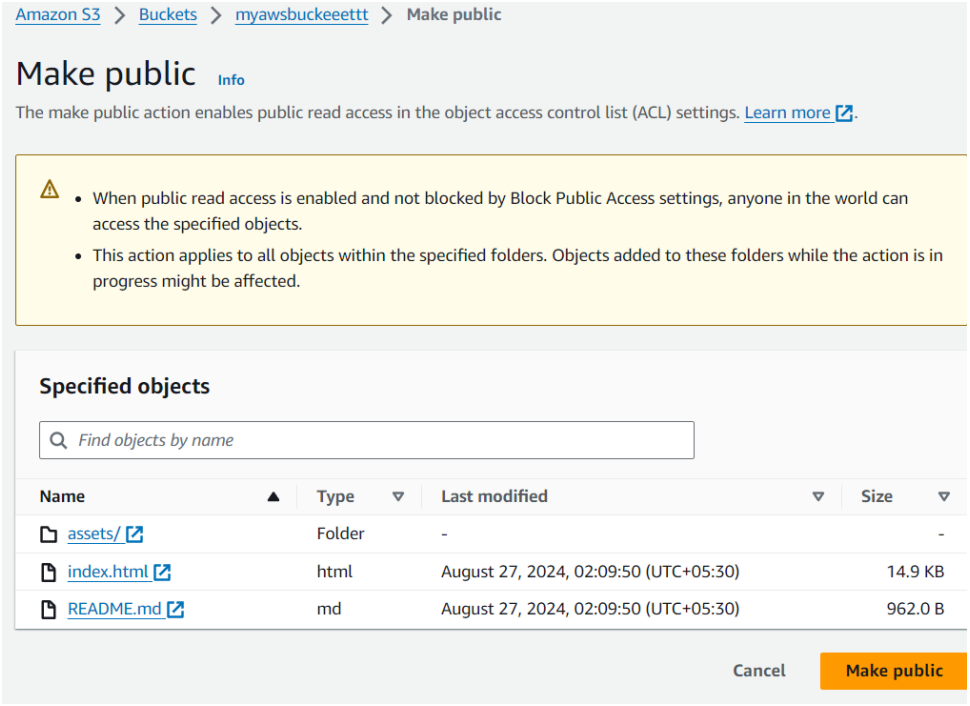



## Enable static website hosting & mention index document (ie. Index.html)

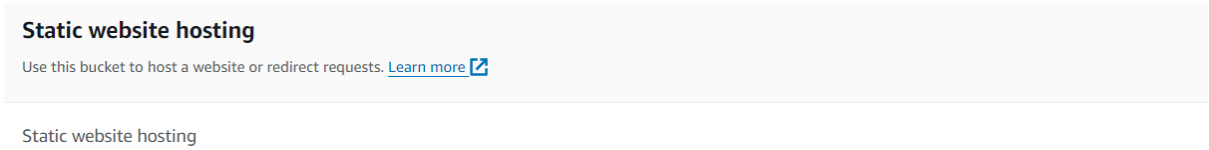


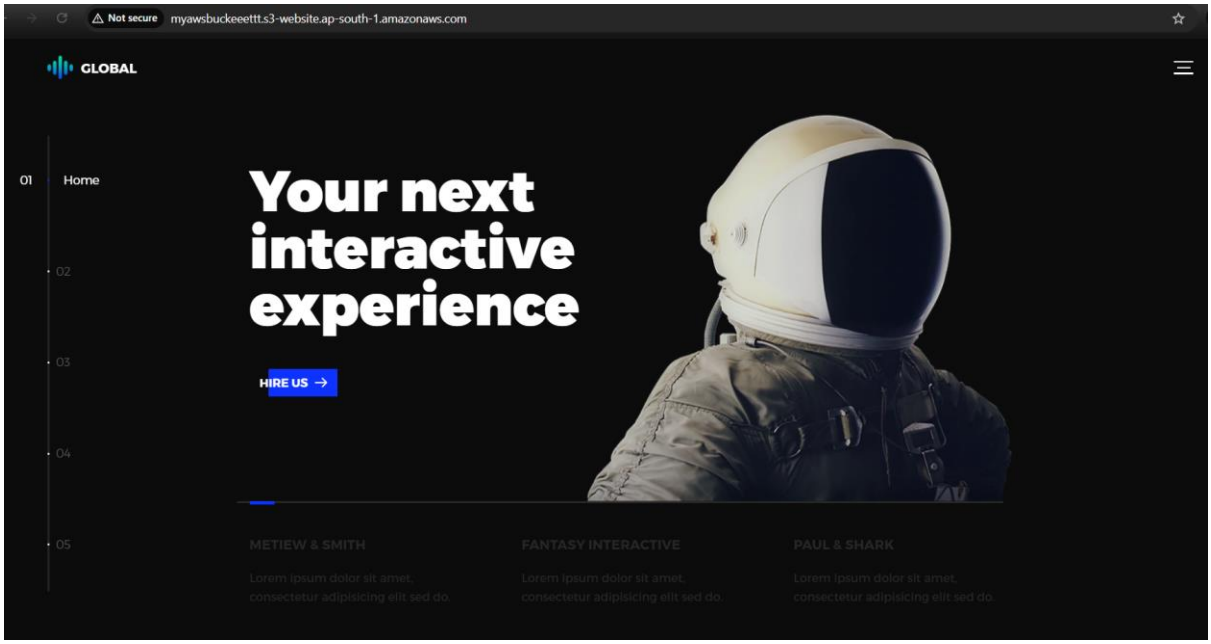

## Make public using ACL for all Objects in the bucket





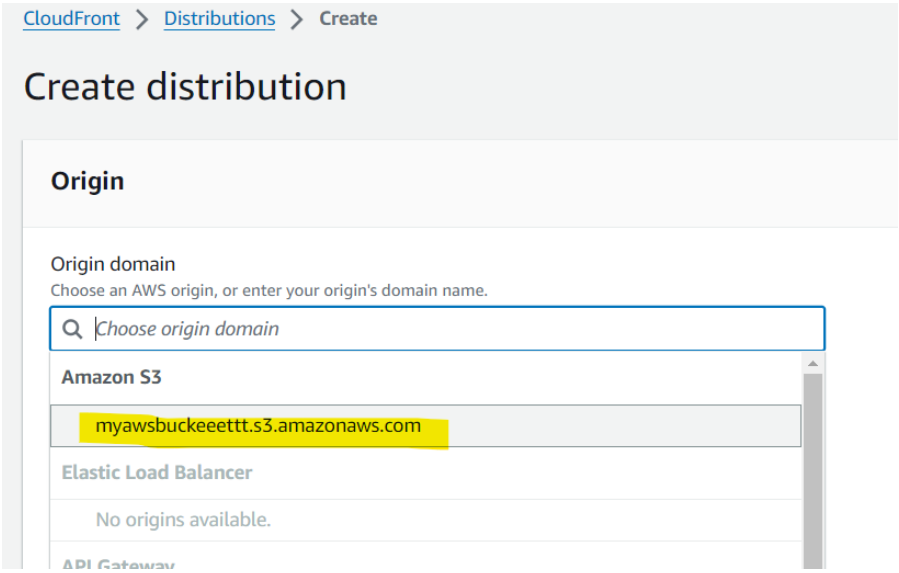

## Use endpoint



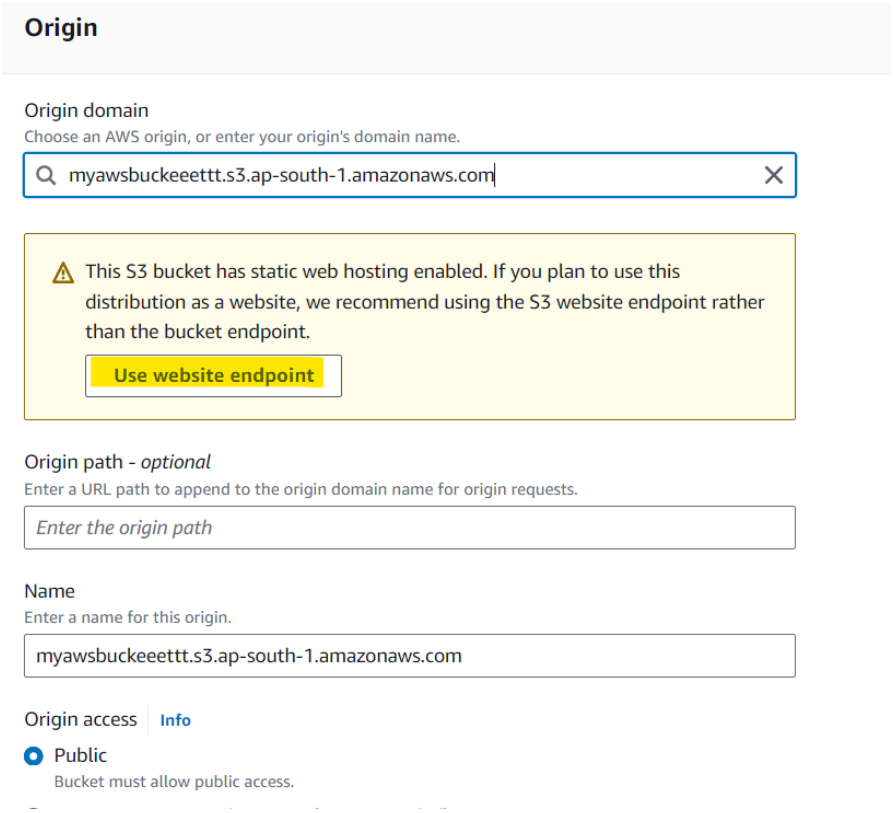



**Create CloudFront Distribution-**

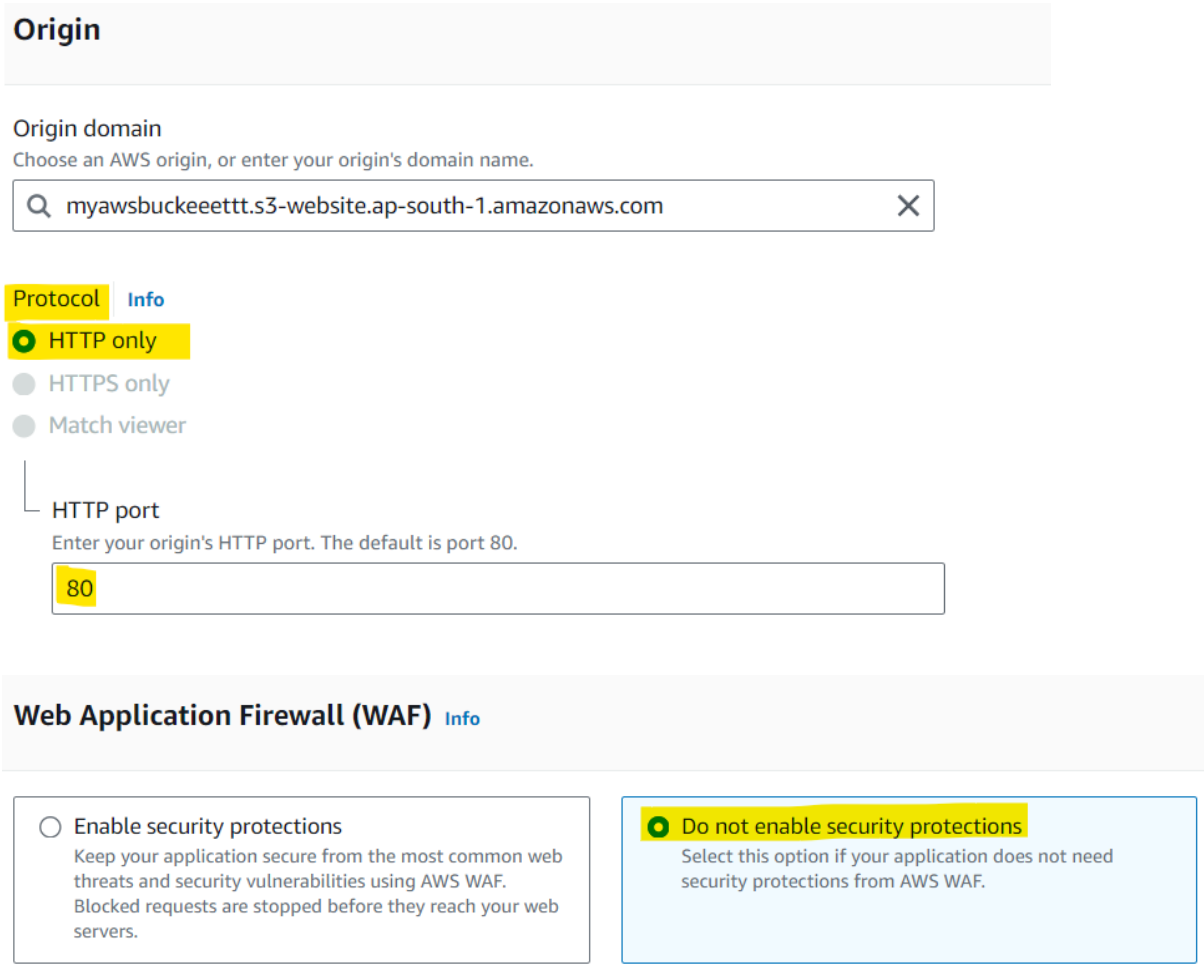
**Select S3 bucket as Origin Domain**




**IMP- Use website endpoint**



**Select protocol HTTP only**

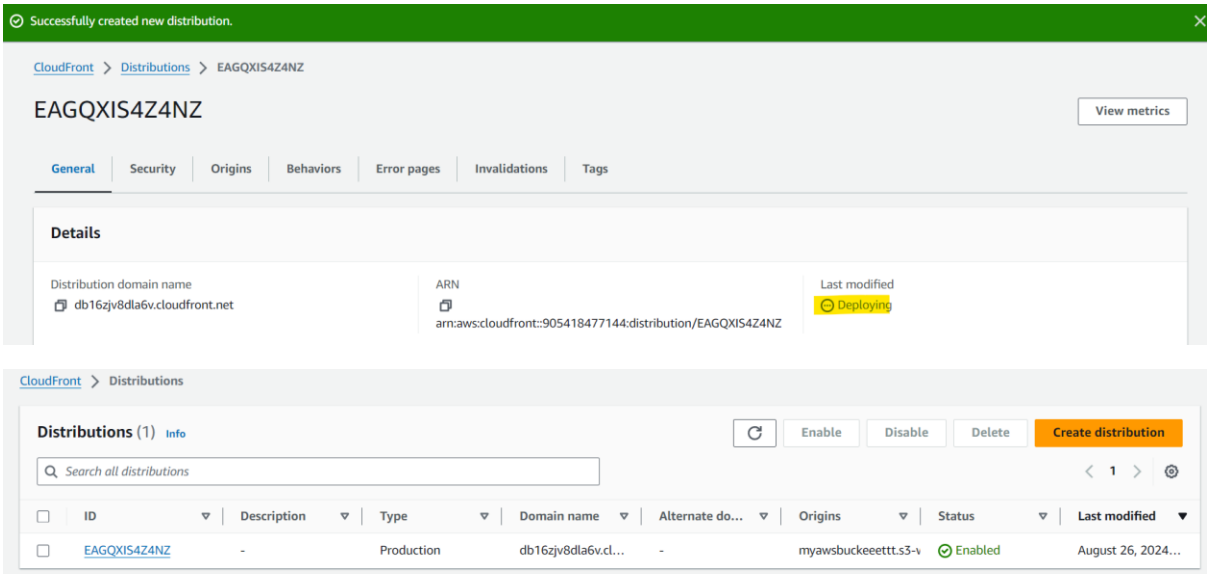






**→Create Distribution**

**And, wait until Deploying**



**Use Distribution domain name**