

# **Project 1**

## **Deploy static website on AWS**

**Creating an S3 bucket:**

**When creating the bucket, it is important to that that uppercase is not allowed**

**S3 bucket name is projectbucket26**

aws

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Amazon S3 > Buckets > Create bucket

## Create bucket

Info

Buckets are containers for data stored in S3. [Learn more](#)

### General configuration

Bucket name

projectbucket26

Bucket name must be unique and must not contain spaces or uppercase letters. [See rules for bucket naming](#)

AWS Region

US East (N. Virginia) us-east-1

Copy settings from existing bucket - optional

Only the bucket settings in the following configuration are copied.

Choose bucket

### Object Ownership

Info

Control ownership of objects written to this bucket from other AWS accounts and the use of access control lists (ACLs). Object ownership determines who can specify access to objects.

☒ ACLs disabled (recommended)  
All objects in this bucket are owned by this account. Access to this bucket and its objects is specified using only policies.

☐ ACLs enabled  
Objects in this bucket can be owned by other AWS accounts. Access to this bucket and its objects can be specified using ACLs.

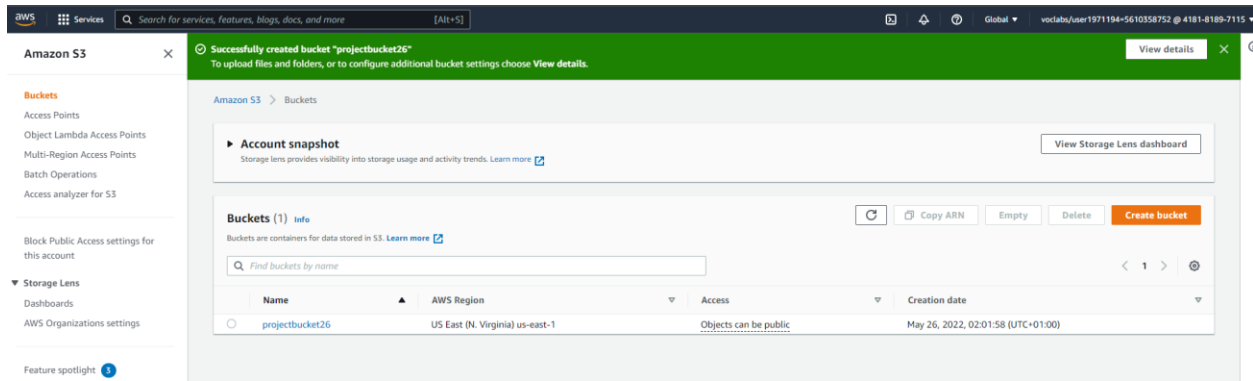
Object Ownership

Bucket owner enforced

### Block Public Access settings for this bucket

Public access is granted to buckets and objects through access control lists (ACLs), bucket policies, access point policies, or all. In order to

The snapshot depicts the bucket has been created successfully:



The bucket currently does not contain any data hence, we will be uploading our files to the S3 bucket called projectbucket26

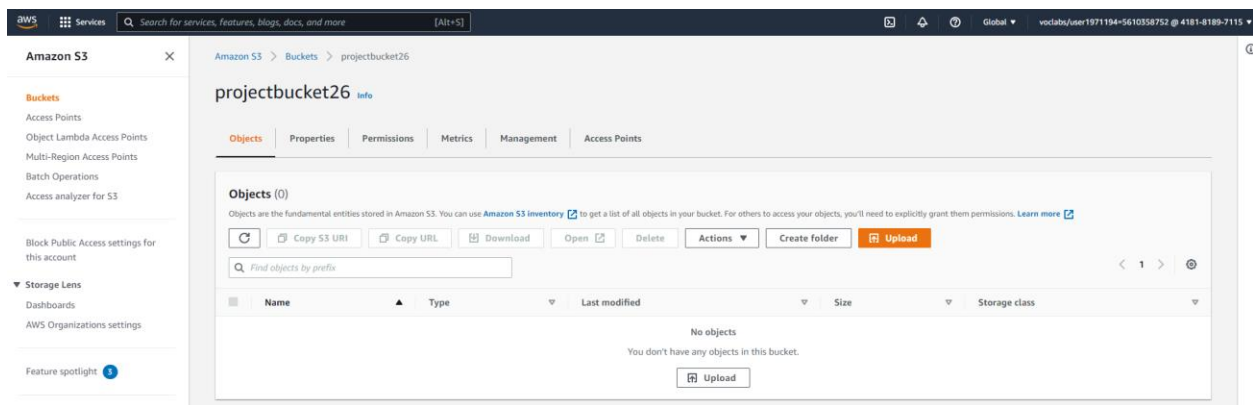


Image below showing all the folders and files successfully uploaded to the s3 bucket

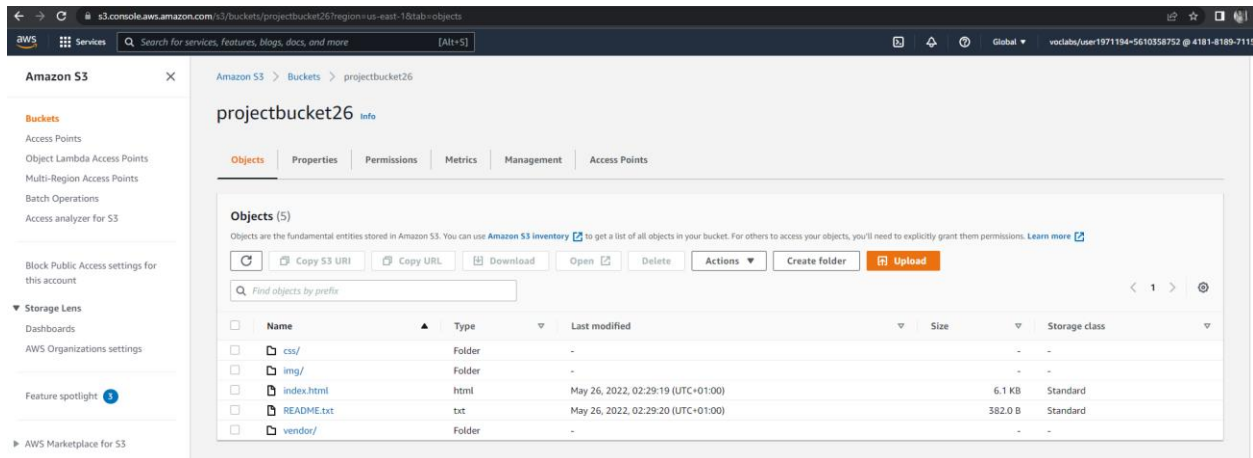
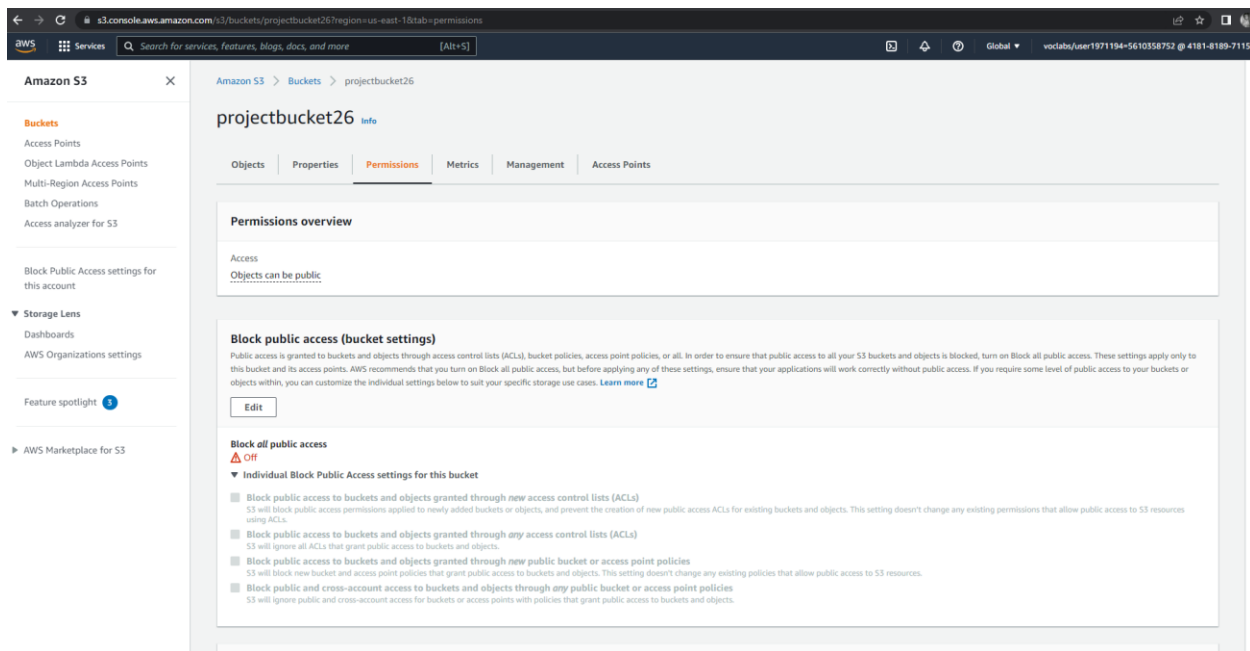
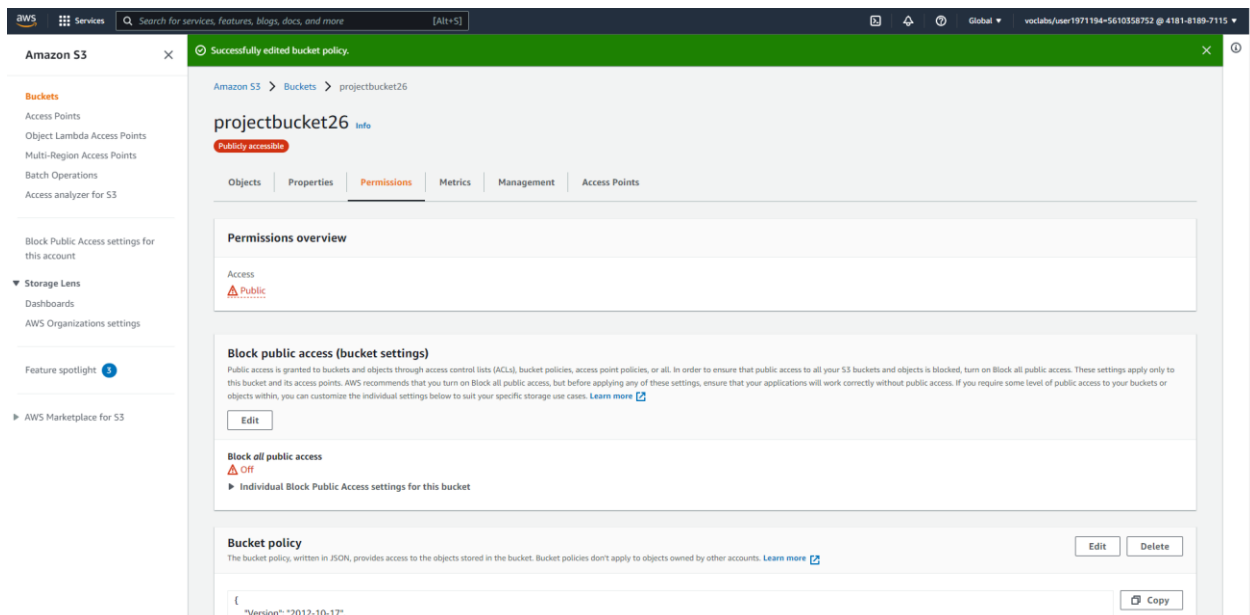


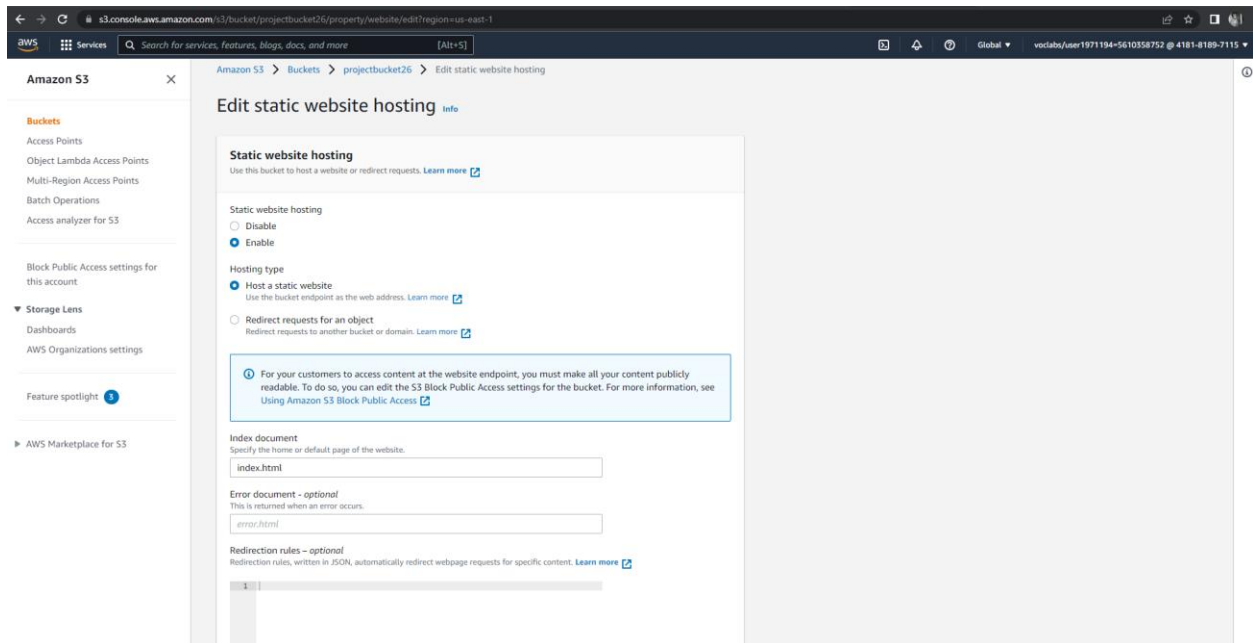
Image showing the permissions set for the bucket



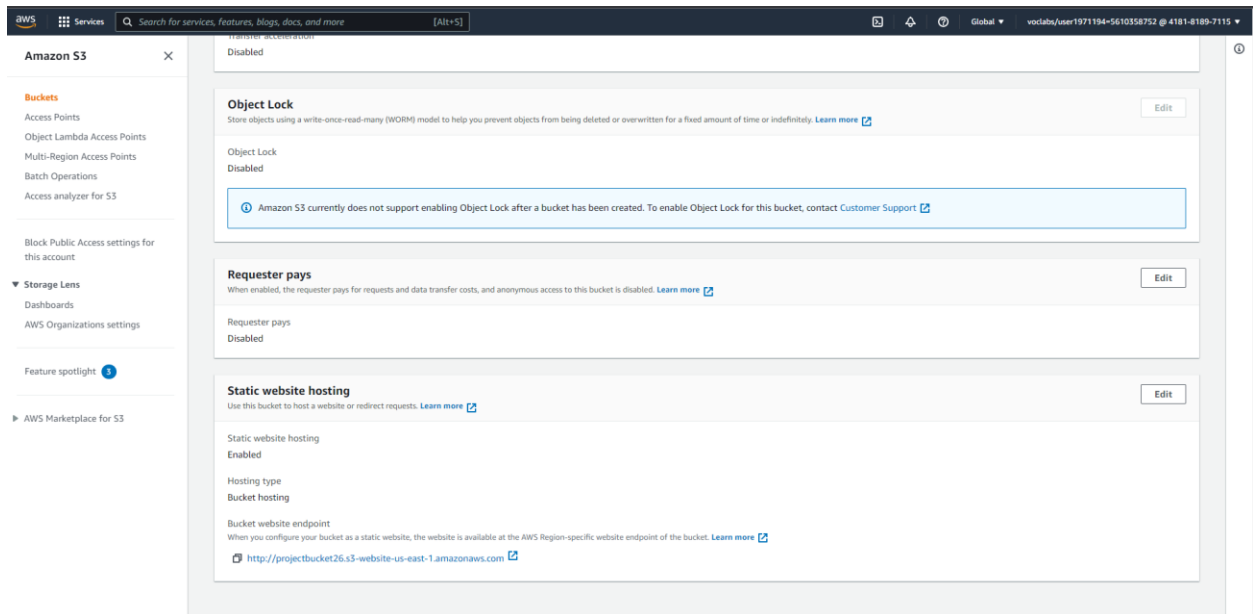
## Setting up the S3 bucket permission to be publicly accessible



## Editing the static website hosting on s3 bucket



**S3 Bucket endpoint can be seen below:**



**AWS CloudFront**

**Image below shows the steps in configuring the AWS CloudFront**

us-east-1.console.aws.amazon.com/cloudfront/v3/home?region=us-east-1#/distributions/create

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Global vodlabs/user1971194-5610358752 @ 4181-8189-7115

CloudFront > Distributions > create

## Create distribution

### Origin

Origin domain  
Choose an AWS origin, or enter your origin's domain name.

Q projectbucket26-s3-website-us-east-1.amazonaws.com X

Origin path - optional [Info](#)  
Enter a URL path to append to the origin domain name for origin requests.

Enter the origin path

Name  
Enter a name for this origin.

projectbucket26-s3-website-us-east-1.amazonaws.com

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

Add header

Enable Origin Shield [Info](#)  
Origin Shield is an additional caching layer that can help reduce the load on your origin and help protect its availability.

☒ No  
☐ Yes

► Additional settings

### Default cache behavior

Path pattern [Info](#)

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Path pattern [Info](#)

Default (\*)

Compress objects automatically [Info](#)

☐ No  
☒ Yes

### Viewer

Viewer protocol policy

☐ HTTP and HTTPS  
☒ Redirect HTTP to HTTPS  
☐ HTTPS only

Allowed HTTP methods

☒ GET, HEAD  
☐ GET, HEAD, OPTIONS  
☐ GET, HEAD, OPTIONS, PUT, POST, PATCH, DELETE

Restrict viewer access  
If you restrict viewer access, viewers must use CloudFront signed URLs or signed cookies to access your content.

☒ No  
☐ 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.

CachingOptimized  
Default policy when CF compression is enabled

Create policy [Create policy](#) [View policy](#)

Origin request policy - optional

us-east-1.console.aws.amazon.com/cloudfront/v3/home?region=us-east-1#/distributions/create

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Select origin policy

Create policy

Response headers policy - optional

Choose an existing response headers policy or create a new one.

Select response headers

Create policy

Additional settings

Function associations - optional

Choose an edge function to associate with this cache behavior, and the CloudFront event that invokes the function.

	Function type	Function ARN / Name	Include body
Viewer request	No association		
Viewer response	No association		
Origin request	No association		
Origin response	No association		

Settings

Price class

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

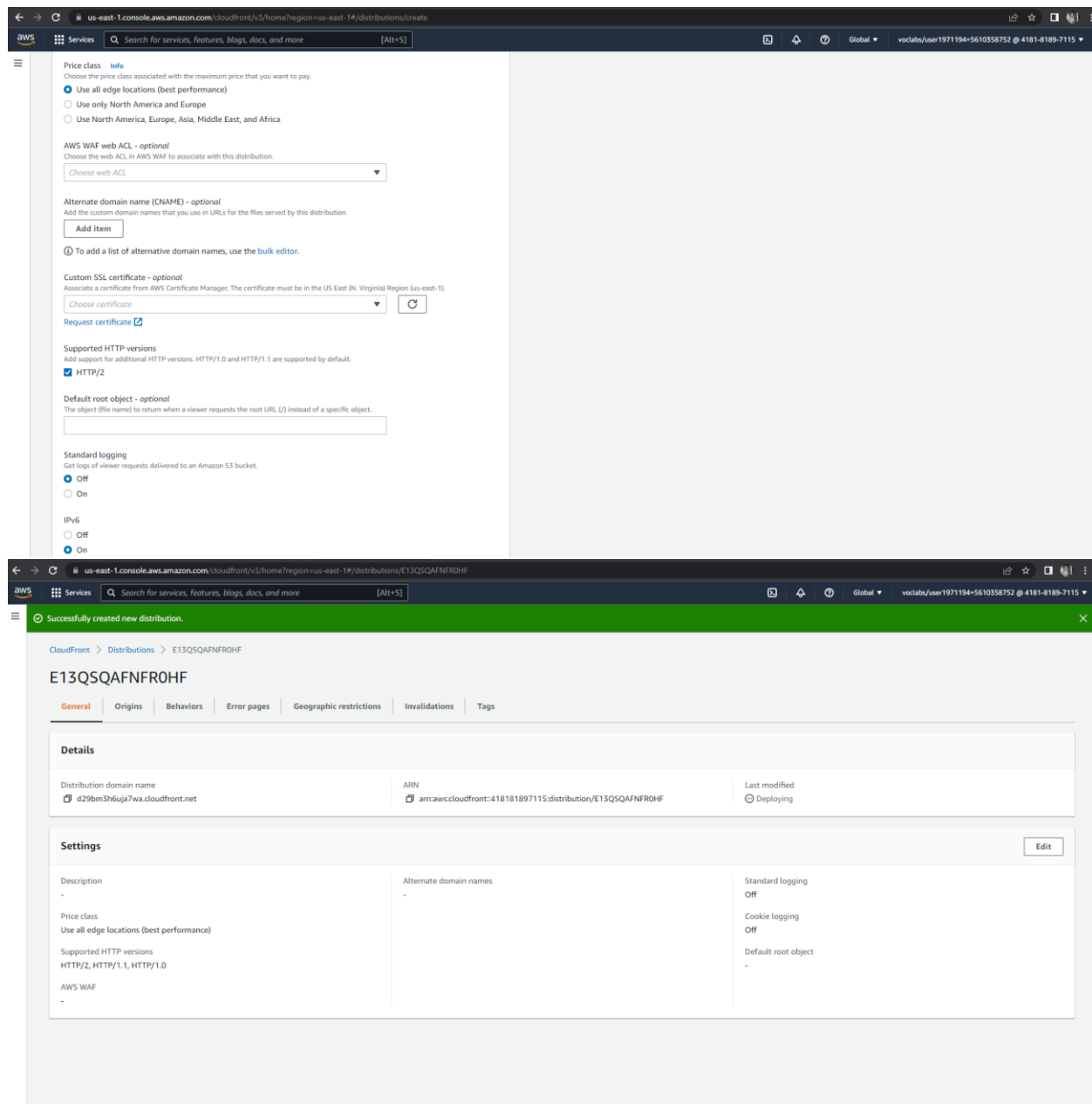
Use all edge locations (best performance)

Use only North America and Europe

Use North America, Europe, Asia, Middle East, and Africa

AWS WAF web ACL - optional

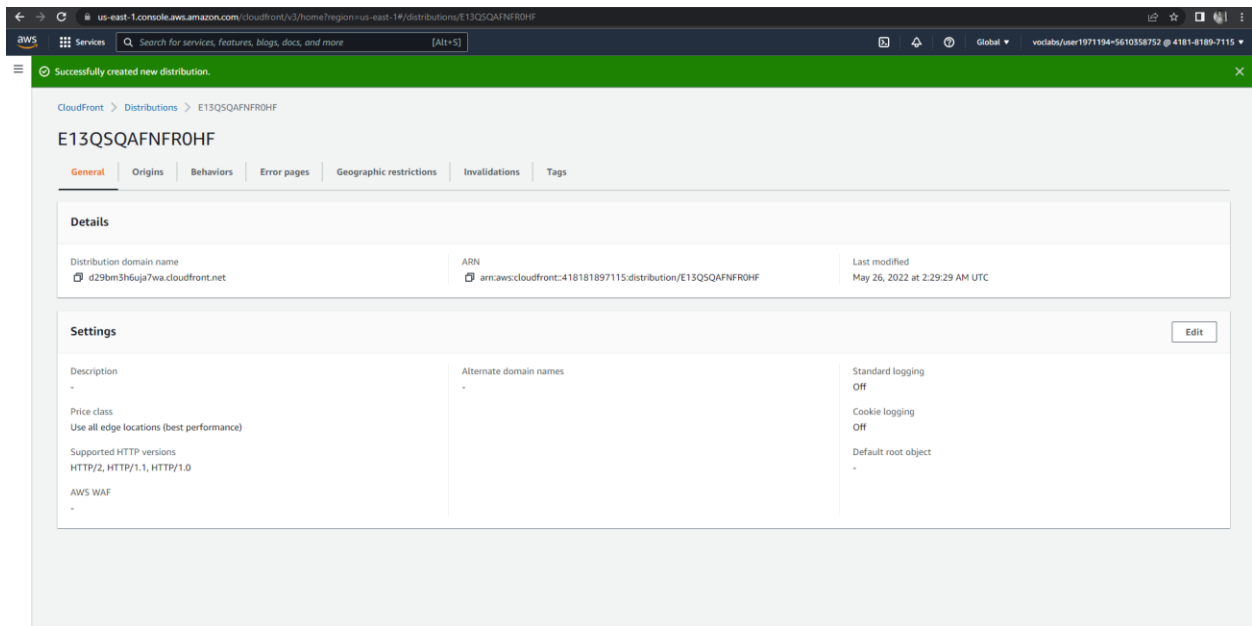
Choose the web ACL to associate with the distribution.



**New distribution has been created successfully. From the screenshot, we can see the distribution is in progress and this may take up to 10min or more to completely propagate**

**We can see the cloudfront has successfully deployed**





Accessing the Page in a web browser. The below image shows the webpage on a browser

