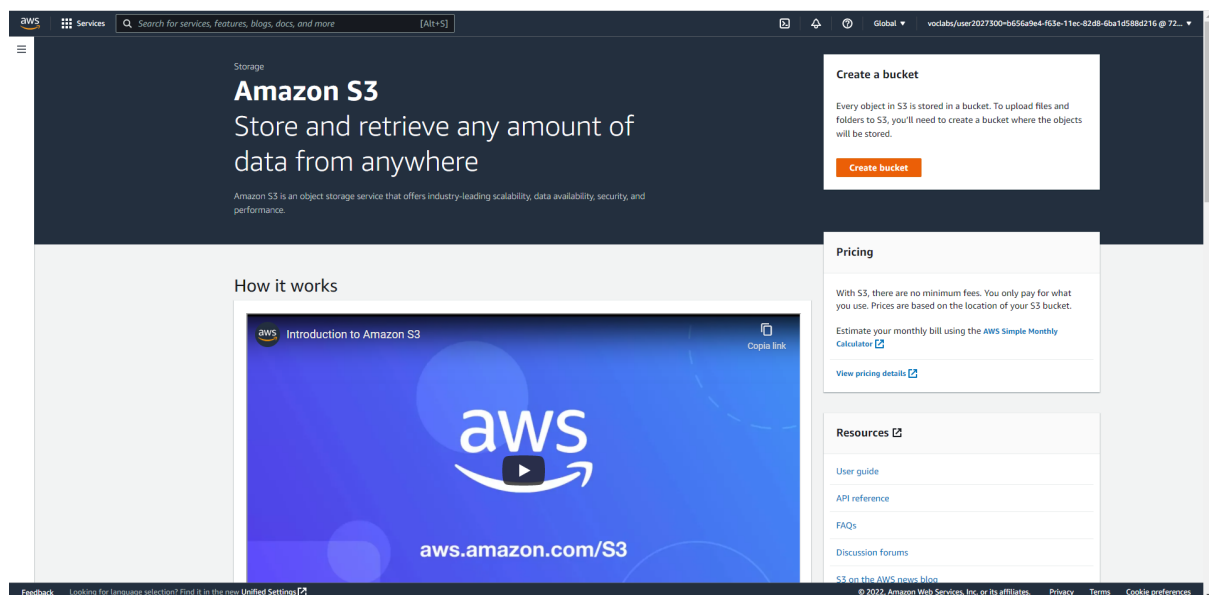
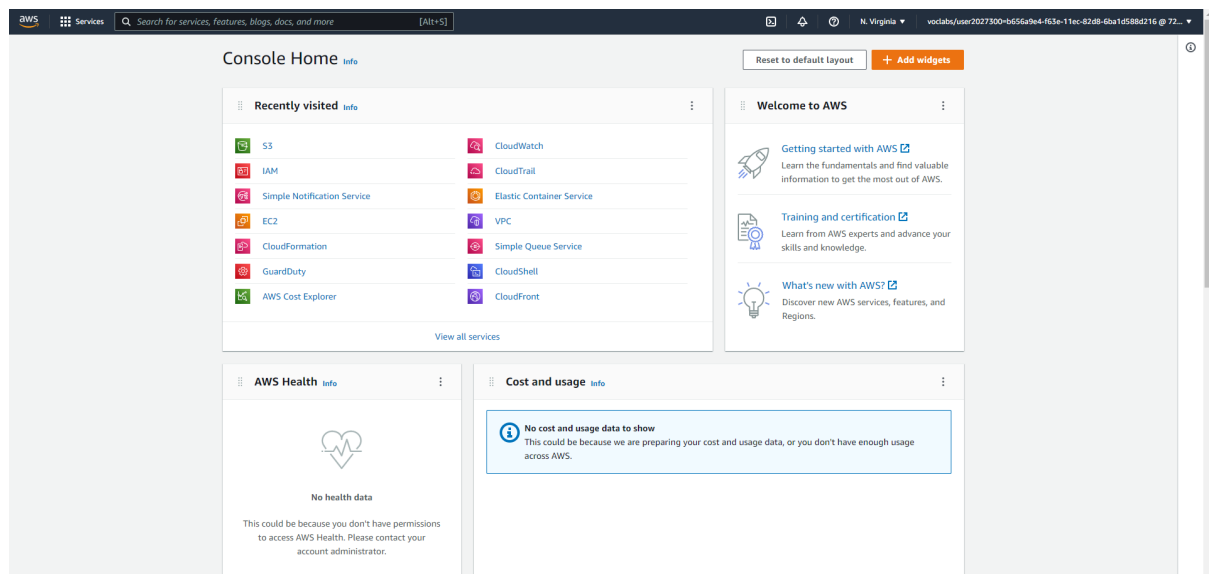


Project #1 - Deploy Static Website on AWS

1) Upload files to S3 Bucket



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Amazon S3

Buckets

Create bucket

General configuration

Bucket name

my-2027300-bucket

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

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

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Amazon S3

Buckets

Block Public Access settings for this bucket

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 ensure that public access to this bucket and its objects is blocked, turn on Block all public access. These settings apply only to this bucket and its access points. AWS recommends that you turn on Block all public access, but before applying any of these settings, ensure that your applications will work correctly without public access. If you require some level of public access to this bucket or objects within, you can customize the individual settings below to suit your specific storage use cases. Learn more

☐ Block all public access

Turning this setting on is the same as turning on all four settings below. Each of the following settings are independent of one another.

☐ Block public access to buckets and objects granted through new access control lists (ACLs)

S3 will block public access permissions applied to newly added buckets or objects, and prevent the creation of new public access ACLs for existing buckets and objects. This setting doesn't change any existing permissions that allow public access to S3 resources using ACLs.

☐ Block public access to buckets and objects granted through any access control lists (ACLs)

S3 will ignore all ACLs that grant public access to buckets and objects.

☐ Block public access to buckets and objects granted through new public bucket or access point policies

S3 will block new bucket and access point policies that grant public access to buckets and objects. This setting doesn't change any existing policies that allow public access to S3 resources.

☐ Block public and cross-account access to buckets and objects through any public bucket or access point policies

S3 will ignore public and cross-account access for buckets or access points with policies that grant public access to buckets and 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

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Amazon S3

Successfully created bucket "my-2027300-bucket"

To upload files and folders, or to configure additional bucket settings choose View details.

View details

Buckets

Access Points

Object Lambda Access Points

Multi-Region Access Points

Batch Operations

Access analyzer for S3

Block Public Access settings for this account

Storage Lens

Dashboards

AWS Organizations settings

Feature spotlight

AWS Marketplace for S3

Account snapshot

Storage lens provides visibility into storage usage and activity trends. Learn more

View Storage Lens dashboard

Buckets (1)

Info

Buckets are containers for data stored in S3. Learn more

Find buckets by name

Name

my-2027300-bucket

AWS Region

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

Access

Objects can be public

Creation date

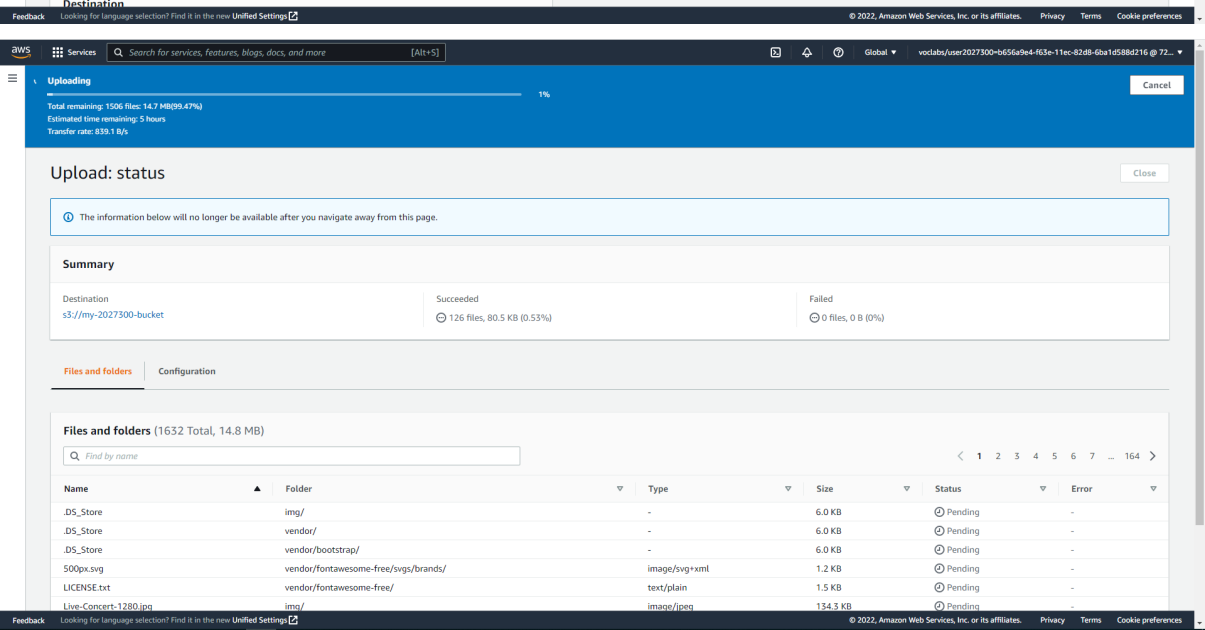
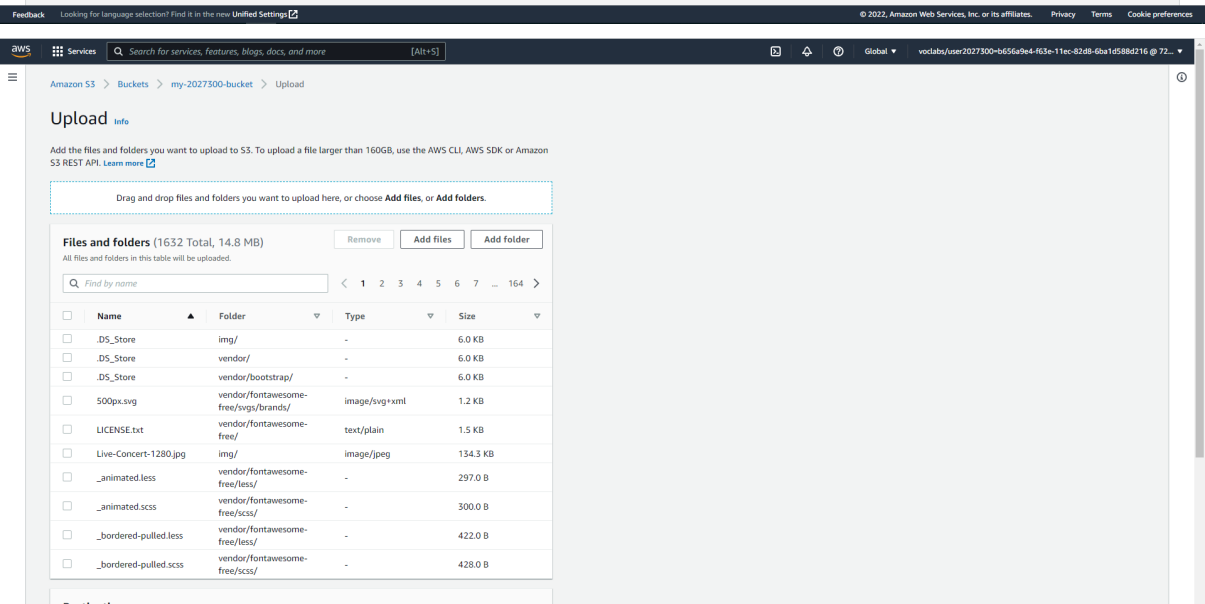
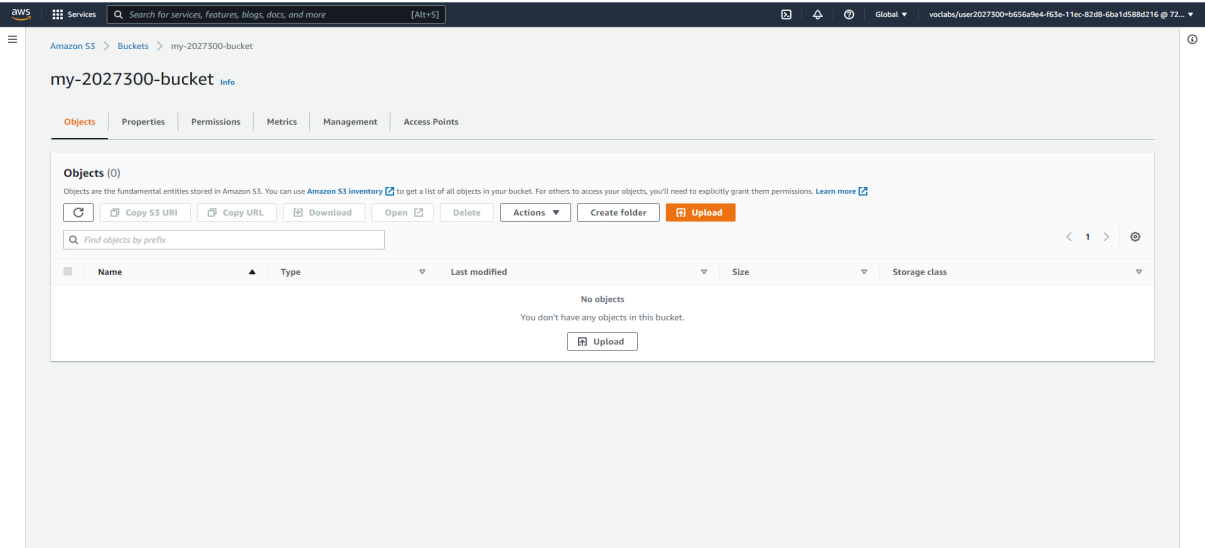
July 8, 2022, 10:50:45 (UTC+02:00)

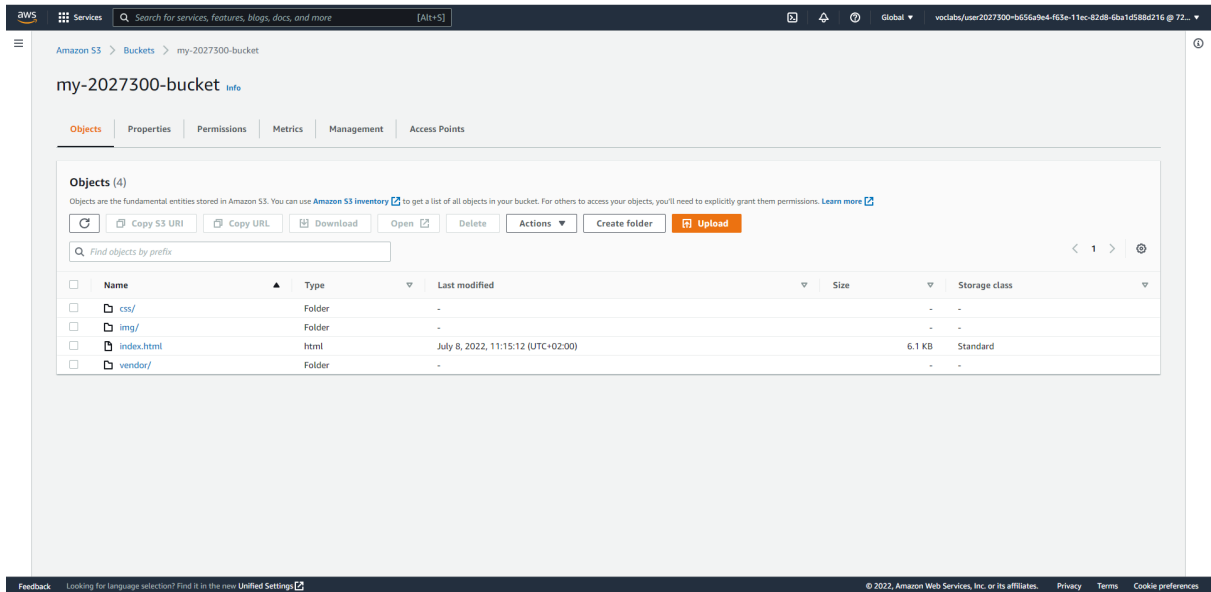
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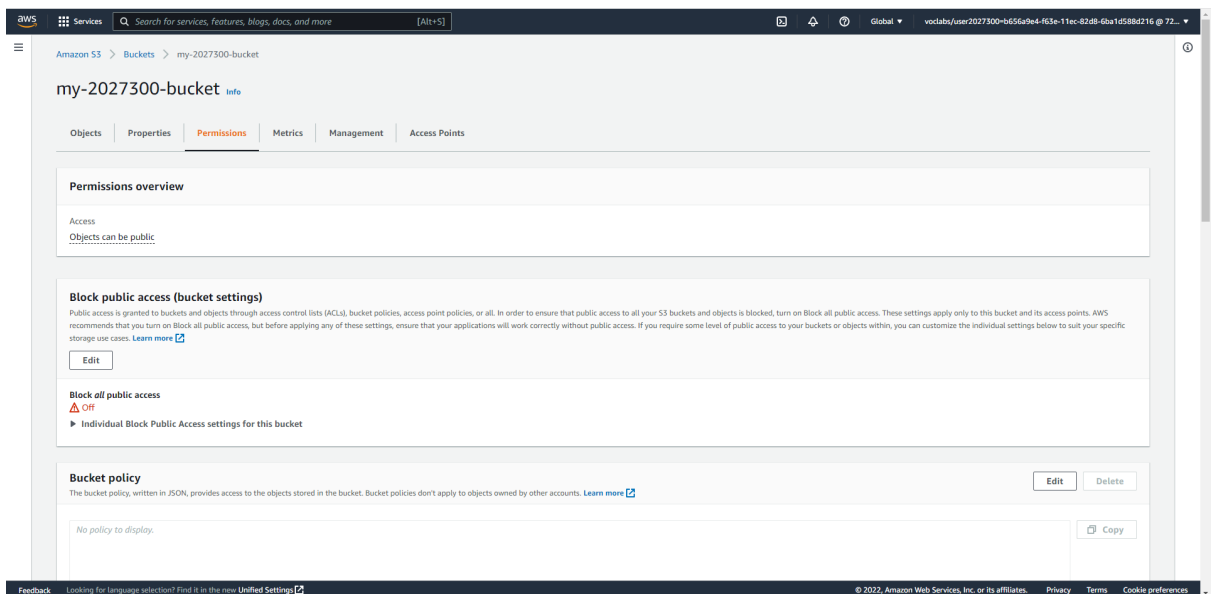
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2





2) Secure Bucket via IAM



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Amazon S3

Buckets

my-2027300-bucket

Edit bucket policy

Edit bucket policy

info

Bucket policy

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](#)

Policy examples

Policy generator

Bucket ARN

arn:aws:s3::my-2027300-bucket

Policy

```
1 {
2   "Version": "2012-10-17",
3   "Statement": [
4     {
5       "Sid": "AddPerm",
6       "Effect": "Allow",
7       "Principal": "*",
8       "Action": "s3:deleteObject",
9       "Resource": ["arn:aws:s3::my-2027300-bucket/*"]
10    }
11  ]
12 }
```

Edit statement

Select a statement

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

+ Add new statement

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Amazon S3

Buckets

my-2027300-bucket

Edit static website hosting

Successfully edited bucket policy.

✕

Individual Block Public Access settings for this bucket

Off

Bucket policy

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](#)

Edit

Delete

Copy

```
{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Sid": "AddPerm",
      "Effect": "Allow",
      "Principal": "*",
      "Action": "s3:GetObject",
      "Resource": "arn:aws:s3::my-2027300-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.

Edit

Object Ownership

Bucket owner enforced

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

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Amazon S3

Buckets

my-2027300-bucket

Edit static website hosting

Edit static website hosting

info

Static website hosting

Use this bucket to host a website or redirect requests. [Learn more](#)

Static website hosting

☐ Disable

☒ Enable

Hosting type

☒ Host a static website

Use the bucket endpoint as the web address. [Learn more](#)

☐ Redirect requests for an object

Redirect requests to another bucket or domain. [Learn more](#)

For your customers to access content at the website endpoint, you must make all your content publicly readable. To do so, you can edit the S3 Block Public Access settings for the bucket. For more information, see [Using Amazon S3 Block Public Access](#)

Index document

Specify the home or default page of the website.

index.html

Error document - optional

This is returned when an error occurs.

error.html

Redirection rules - optional

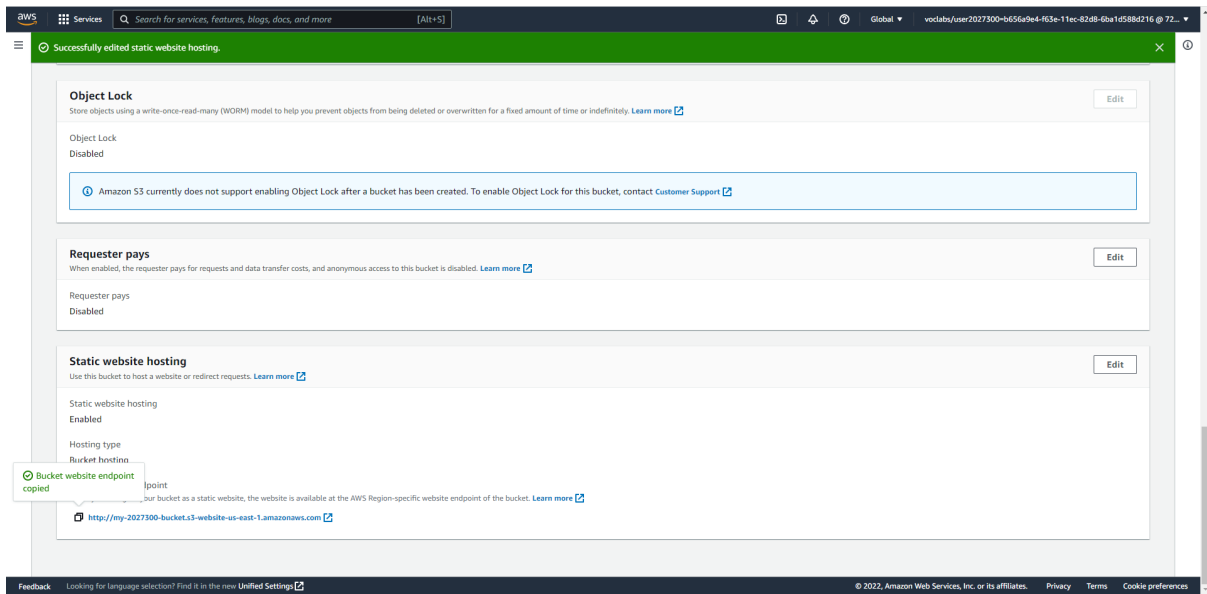
Redirection rules, written in JSON, automatically redirect webpage requests for specific content. [Learn more](#)

1

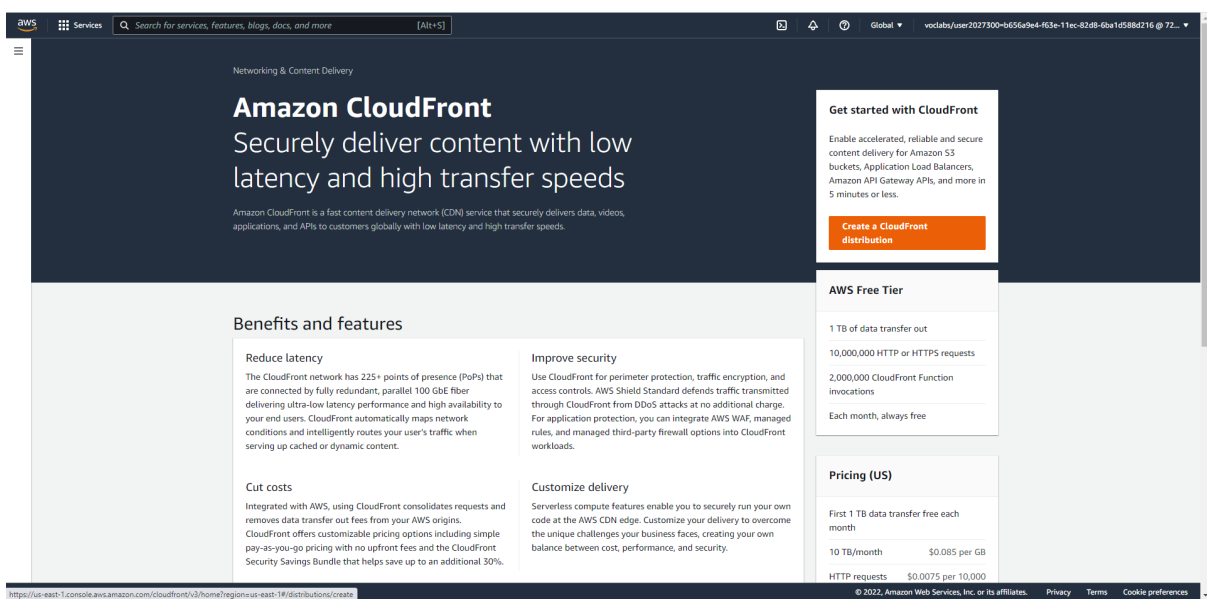
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3) Distribute Website via CloudFront



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CloudFront

Distributions

create

Create distribution

Origin

Origin domain

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

my-2027300-bucket-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.

my-2027300-bucket-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

Default settings

info

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CloudFront

Distributions

ESMW7QDM2JOZW

Additional settings

Default cache behavior

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

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CloudFront

Distributions

ESMW7QDM2JOZW

Successfully created new distribution.

ESMW7QDM2JOZW

General

Origins

Behaviors

Error pages

Geographic restrictions

Invalidations

Tags

Details

Distribution domain name

d1fa2moklif1nl.cloudfront.net

ARN

arn:aws:cloudfront::727715487015:distribution/ESMW7QDM2JOZW

Last modified

Deploying

Settings

Description

-

Alternate domain names

-

Standard logging

Off

Price class

Use all edge locations (best performance)

Cookie logging

Off

Supported HTTP versions

HTTP/2, HTTP/1.1, HTTP/1.0

Default root object

-

AWS WAF

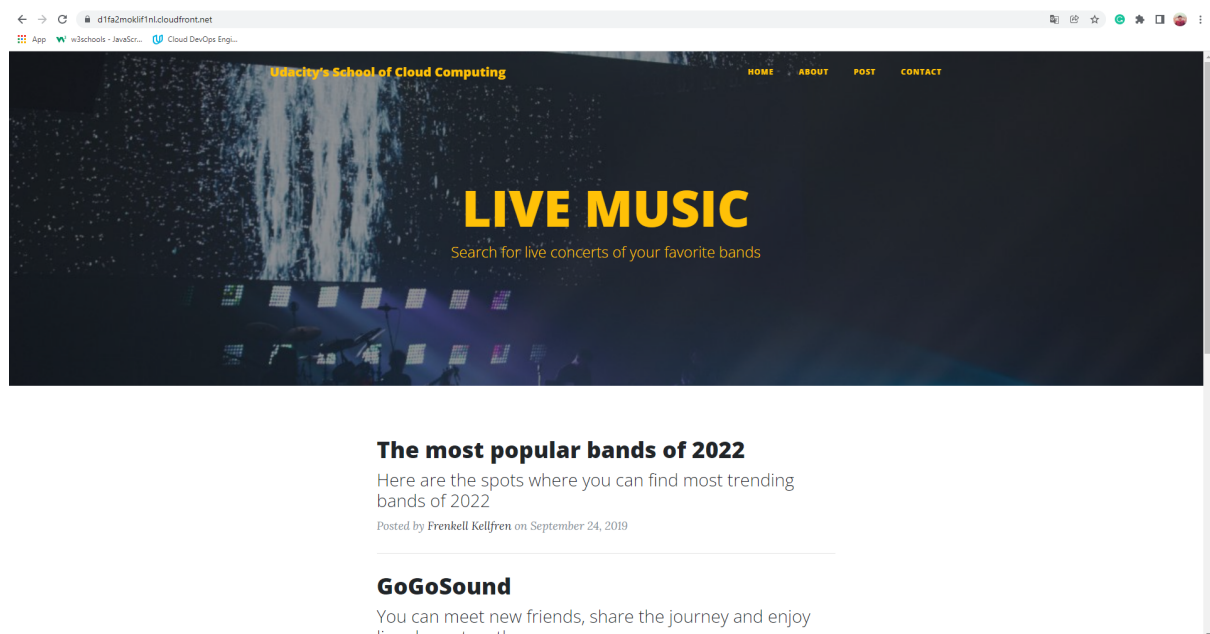
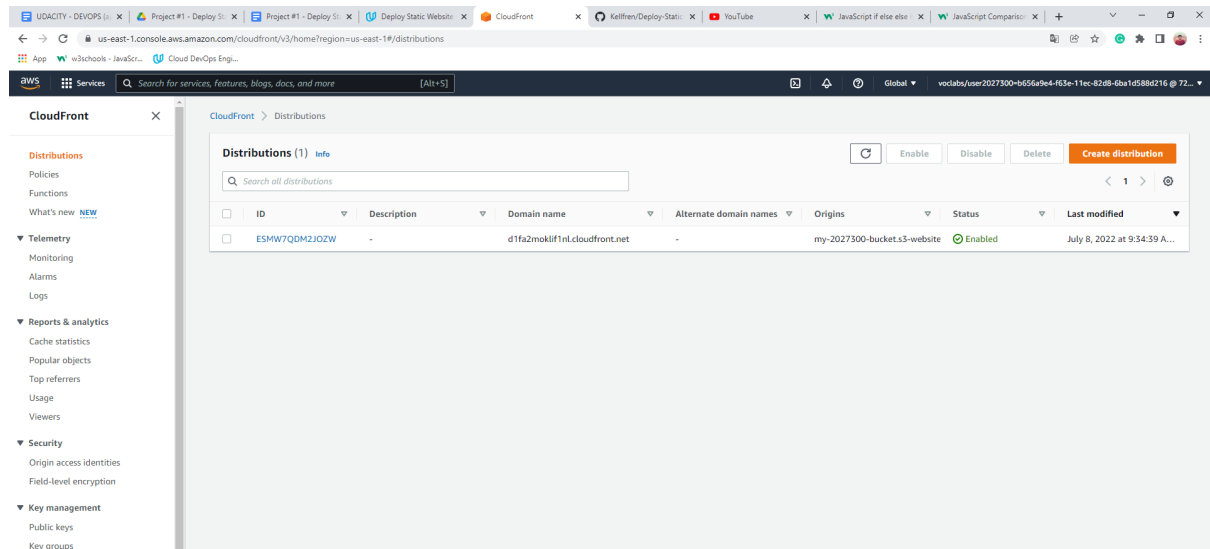
-

Edit

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Links:

<https://d1fa2moklif1nl.cloudfront.net/> (cloudfront distribution)

<http://my-2027300-bucket.s3-website.us-east-1.amazonaws.com/> (Access the website via website-endpoint)

<https://my-2027300-bucket.s3.amazonaws.com/index.html> (Access the bucket object via its S3 object URL)