



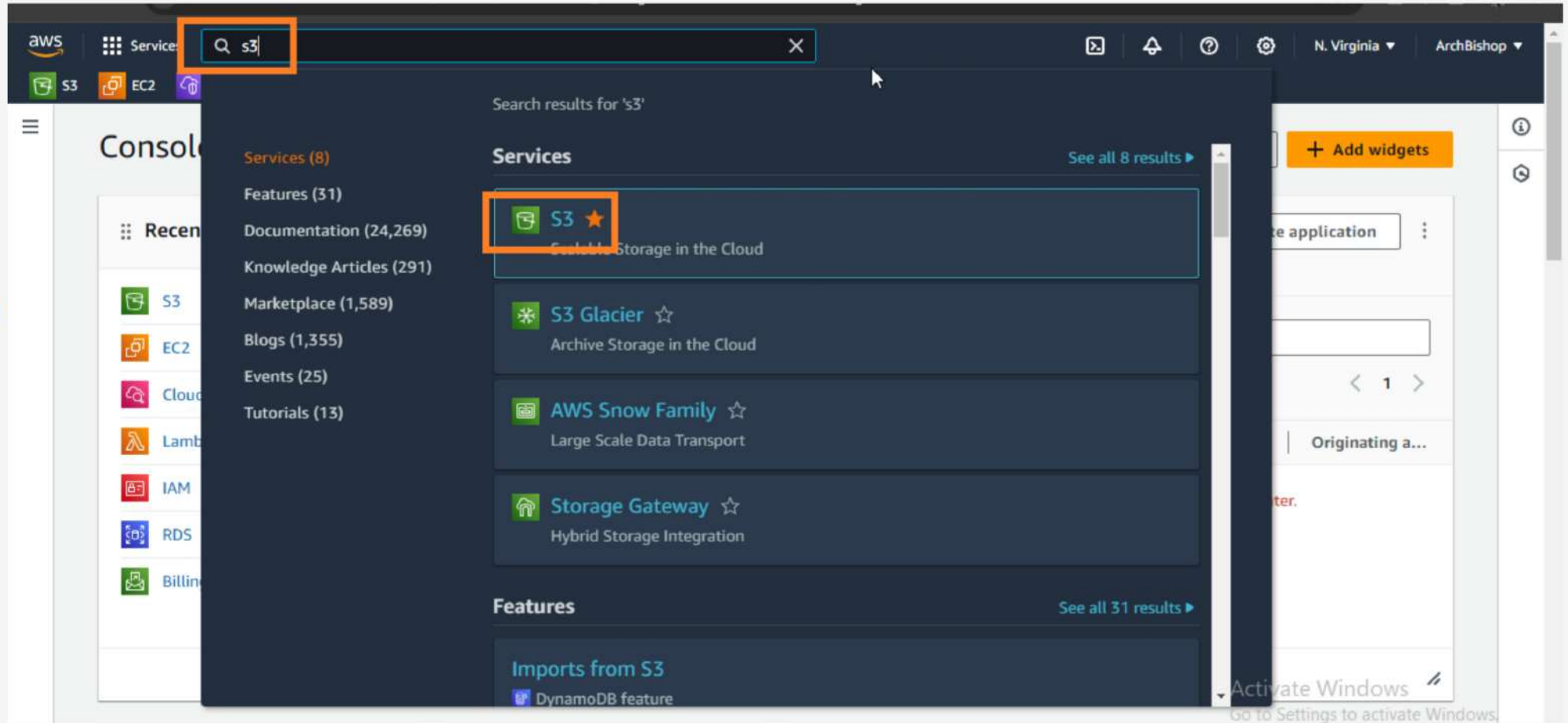
How to Host A Static Website with Amazon S3

Serving this Content through Cloudfront to
Reduce Latency and Cost

By : Ayomide Ogunsanya @TheCloudLord

Log on to your AWS Console and on the Search Bar, Type in S3 and Click on the first Option.

1.



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Click on the "Create Bucket" Button.

2.

The screenshot shows the AWS Management Console interface for the Amazon S3 service. The top navigation bar includes the AWS logo, a 'Services' menu, a search bar, and a user profile 'ArchBishop'. Below the navigation bar, a row of service icons (S3, EC2, VPC, RDS, Lambda, CloudWatch) is visible. The main content area is titled 'Storage' and features the 'Amazon S3' heading with the tagline 'Store and retrieve any amount of data from anywhere'. A description states: 'Amazon S3 is an object storage service that offers industry-leading scalability, data availability, security, and performance.' To the right, a 'Create a bucket' section explains that objects are stored in buckets and provides a prominent orange 'Create bucket' button, which is highlighted with an orange rectangular box. Below this, a 'Pricing' section notes that there are no minimum fees and provides a link to the 'AWS Simple Monthly Calculator'. At the bottom left, there is a 'How it works' section with a video player titled 'Introduction to Amazon S3' and a 'Copy link' button. A watermark 'Activate Windows' is visible in the bottom right corner of the console interface.

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Now, Create a Unique Bucket Name.

3.

aws Services Search [Alt+S]

S3 EC2 VPC RDS Lambda CloudWatch

Create bucket [Info](#)

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

General configuration

AWS Region

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

Bucket type [Info](#)

☒ **General purpose**
Recommended for most use cases and access patterns. General purpose buckets are the original S3 bucket type. They allow a mix of storage classes that redundantly store objects across multiple Availability Zones.

☐ **Directory - New**
Recommended for low-latency use cases. These buckets use only the S3 Express One Zone storage class, which provides faster processing of data within a single Availability Zone.

Bucket name [Info](#)

cloudlordbucket001

Bucket name must be unique within the global namespace and follow the bucket naming rules. [See rules for bucket naming](#)

Copy settings from existing bucket - optional
Only the bucket settings in the following configuration are copied.

[Choose bucket](#)

Activate Windows
Go to Settings to activate Windows.

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Leave ACLs disabled and Uncheck "Block all Public access" to enable Public access.

4.

The screenshot shows the AWS IAM console interface. At the top, there's a navigation bar with the AWS logo, a search bar, and various service icons (S3, EC2, VPC, RDS, Lambda, CloudWatch). Below the navigation bar, the main content area displays the 'Object Ownership' settings for a bucket. Two radio buttons are present: 'ACLs disabled (recommended)' (selected and highlighted with an orange box) and 'ACLs enabled'. Below this, the 'Block Public Access settings for this bucket' section is shown. It contains a paragraph explaining public access and a checkbox labeled 'Block all public access' which is unchecked and highlighted with an orange box. Below this checkbox, there are two more checkboxes: 'Block public access to buckets and objects granted through new access control lists (ACLs)' and 'Block public access to buckets and objects granted through any access control lists (ACLs)', both of which are also unchecked.

aws Services Search [Alt+S]

S3 EC2 VPC RDS Lambda CloudWatch

☒ ACLs disabled (recommended)
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 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)**

Activate Windows
Go to Settings to activate Windows.

Click on the "Acknowledge" CheckBox, Leave all other settings the way it is, scroll down and click on "Create Bucket" Button

5.

The screenshot shows the AWS Management Console for the 'Create bucket' page. The top navigation bar includes the AWS logo, 'Services' menu, a search bar, and user information 'Global' and 'ArchBishop'. The left sidebar shows the 'S3' service selected. The main content area displays the 'Block public access' settings. A warning box states: '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.' Below this, the checkbox 'Block public access' is checked. At the bottom, the 'Create bucket' button is highlighted with an orange box, and the 'Cancel' button is visible to its left. A Windows watermark is present in the bottom right corner.

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.

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

☐ Disable
☒ Enable

► Advanced settings

After creating the bucket, you can upload files and folders to the bucket, and configure additional bucket settings.

Cancel **Create bucket**

Activate Windows
Go to Settings to activate Windows.

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Now, Click on the Bucket Name.

6.

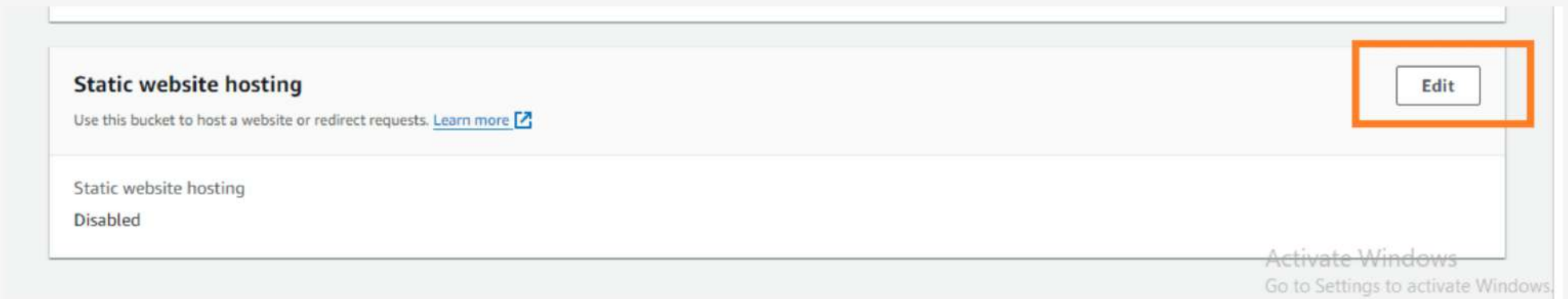
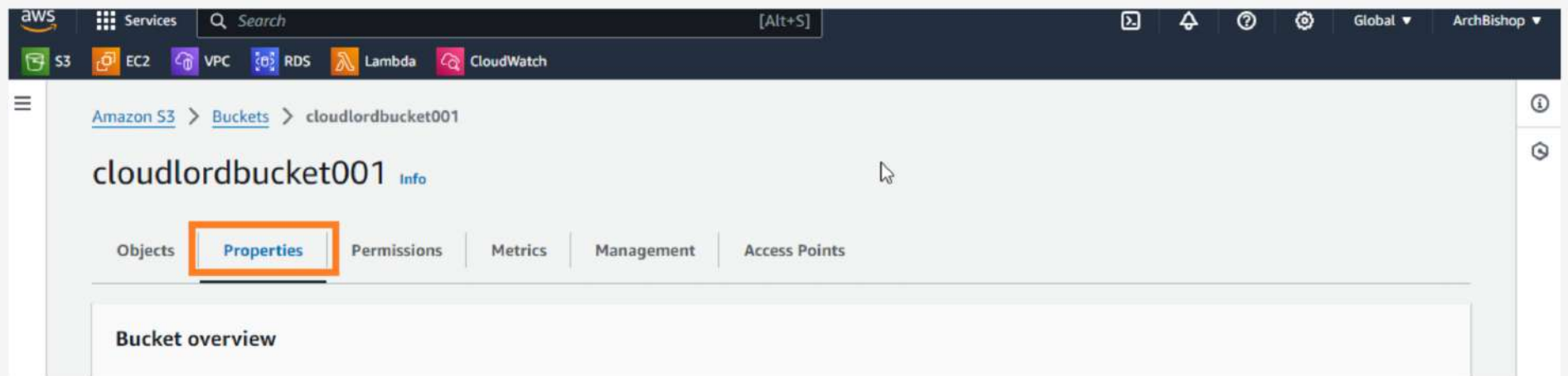
The screenshot shows the AWS Management Console interface. At the top, a green notification banner states: "Successfully created bucket 'cloudlordbucket001'". Below this, the breadcrumb navigation shows "Amazon S3 > Buckets". The "General purpose buckets" tab is selected. A table lists the buckets, with "cloudlordbucket001" highlighted by an orange box. The table columns are Name, AWS Region, Access, and Creation date.

Name	AWS Region	Access	Creation date
cloudlordbucket001	US East (N. Virginia) us-east-1	Objects can be public	February 22, 2024, 06:09:15 (UTC-08:00)

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Now, Click on the "Properties" Option, Scroll Down and Click on the Edit Button for "Static Website Hosting"

7.



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Click Enable Static Website Hosting and Type in a Name for your index.html eg "Index.html" as used by me and (error.html name which is optional)

Scroll Down and Click on the "Save Changes" Button

8.

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](#)

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](#)

JSON Ln 1, Col 1 Errors: 0 Warnings: 0

Cancel Save changes

Activate Windows
Go to Settings to activate Windows

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Still on the "Properties" Tab, Scroll down to "Static Website Hosting" Option and click on the Generated URL

9.

Successfully edited static website hosting.

Amazon S3 > Buckets > cloudlordbucket001

cloudlordbucket001 [Info](#)

Objects **Properties** Permissions Metrics Management Access Points

Static website hosting [Edit](#)

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://cloudlordbucket001.s3-website-us-east-1.amazonaws.com>

Activate Windows
Go to Settings to activate Windows

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It shows a "403 forbidden Access Denied" message and that's because we haven't configured the Bucket Policy to Allow Public Access (Think of the Bucket Policy like Doors with Specific keys)

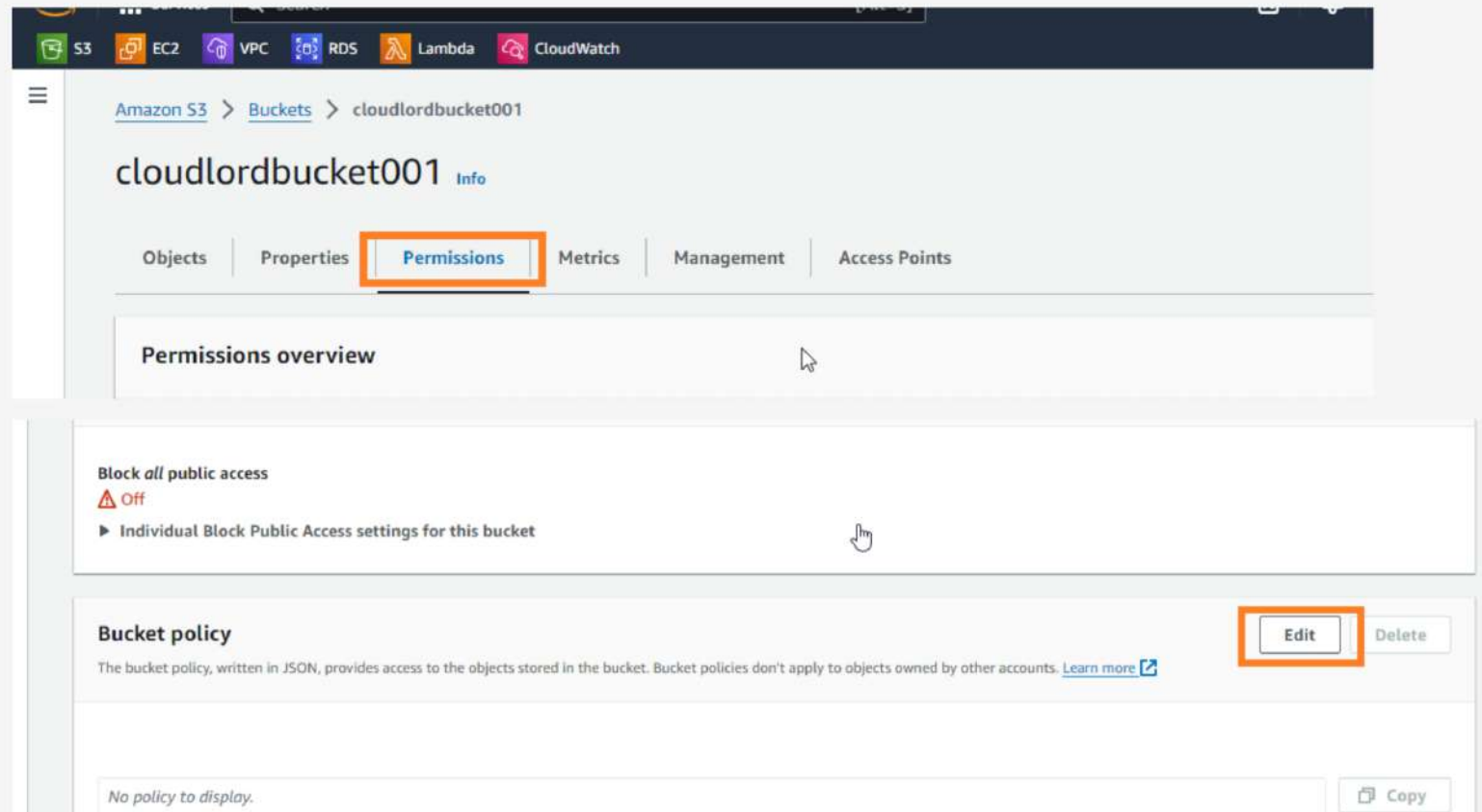
10. **403 Forbidden**

- Code: AccessDenied
- Message: Access Denied
- RequestId: WEQJ7W8RJCAB0S8S
- HostId: 5wvieQUIA24mG8mWG0IA+R1mvT3sfAEMjxc39TFbxmJma8eHBdSr7WceMTbI03VxT1oZq8Hs0SU=

An Error Occurred While Attempting to Retrieve a Custom Error Document

- Code: AccessDenied
- Message: Access Denied

Now, Return to your AWS Console.
To Configure Our Bucket Policy to allow Public Access, Go to the "Permissions" Tab, Scroll down to "Bucket Policy" Option and Click on the "Edit" button



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Click on the "Policy examples" button which takes you to the AWS documentation page.

The screenshot shows the AWS Management Console interface. On the left is the 'Amazon S3' sidebar menu with options like Buckets, Access Grants, and Storage Lens. The main content area is titled 'Edit bucket policy' for the bucket 'cloudlordbucket001'. It includes a 'Bucket policy' section with a description and a 'Policy examples' button, which is highlighted with an orange rectangle. Other buttons like 'Policy generator' and 'Learn more' are also visible. The 'Bucket ARN' is displayed as 'arn:aws:s3:::cloudlordbucket001'. Below this is a 'Policy' section with a table containing one statement. At the bottom right, there is a watermark that says 'Activate Windows' and 'Select a statement'.

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Search for "Setting Permissions for Website access"

Scroll down to Step 2 and copy the Bucket policy

13.

aws

Setting permissions for website access

Use: "Setting permissions for website access"

Website endpoints

Enabling website hosting

Configuring an index document

Configuring a custom error document

Setting permissions for website access

Logging web traffic

Configuring a redirect

access (bucket settings).

Step 2: Add a bucket policy

To make the objects in your bucket publicly readable, you must write a bucket policy that grants everyone `s3:GetObject` permission.

After you edit S3 Block Public Access settings, you can add a bucket policy to grant public read access to your bucket. When you grant public read access, anyone on the internet can access your bucket.

On this page

- Step 1: Edit S3 Block Public Access settings
- Step 2: Add a bucket policy**
- Object access control lists

aws

Setting permissions for website access

AWS > Documentation > Amazon Simple Storage Service (S3) > User Guide

Website endpoints

Enabling website hosting

Configuring an index document

Configuring a custom error document

Setting permissions for website access

Logging web traffic

Configuring a redirect

2. Choose **Permissions**.

3. Under **Bucket Policy**, choose **Edit**.

4. To grant public read access for your website, copy the following bucket policy, and paste it in the **Bucket policy editor**.

```
{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Sid": "PublicReadGetObject",
      "Effect": "Allow",
```

On this page

- Step 1: Edit S3 Block Public Access settings
- Step 2: Add a bucket policy**
- Object access control lists

(THECLOUDLORD)

**Go back to the AWS Console and Paste the Policy.
Now, Replace the word "Bucket-name" on the bucket
policy with your Bucket arn name which on my case is
"Cloudlordbucket001" , this can be done by copy and paste.**

14.

Amazon S3

Buckets

Access Grants

Access Points

Object Lambda Access Points

Multi-Region Access Points

Batch Operations

IAM Access Analyzer for S3

Block Public Access settings for this account

Storage Lens

Dashboards

Storage Lens groups

AWS Organizations settings

Bucket ARN

arn:aws:s3::cloudlordbucket001

Policy

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

Edit statement

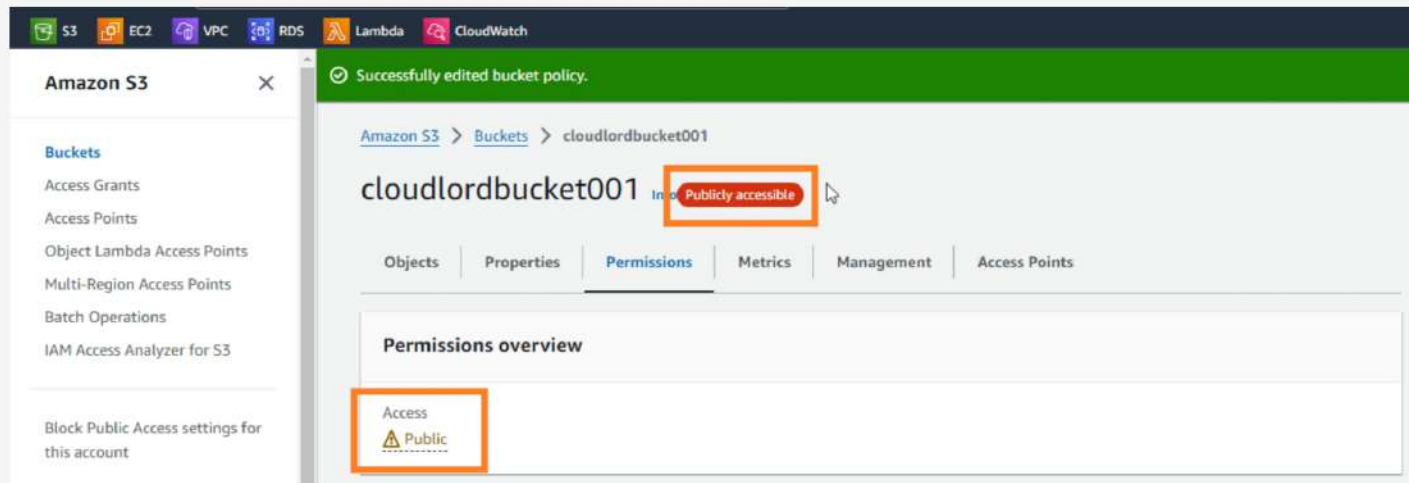
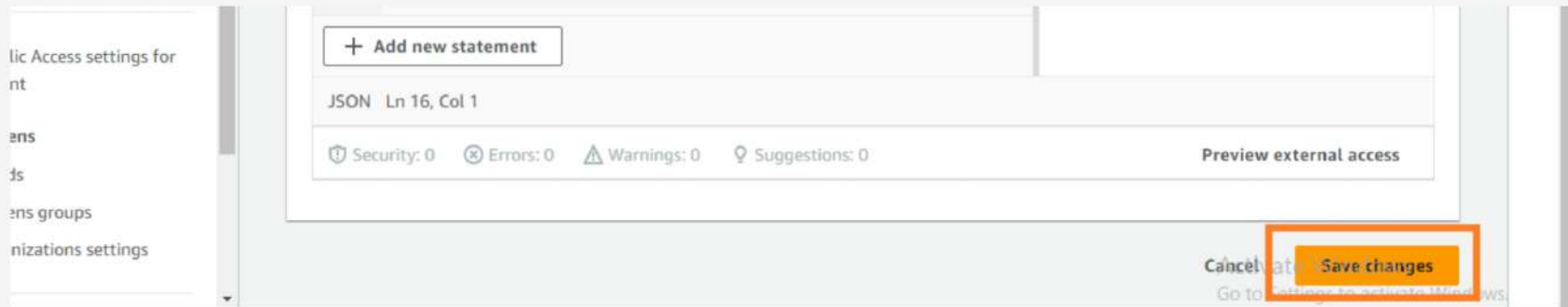
Select a statement

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

+ Add new statement

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**Click on the "Save changes" button
Now your S3 Bucket is Accessible Publicly!**

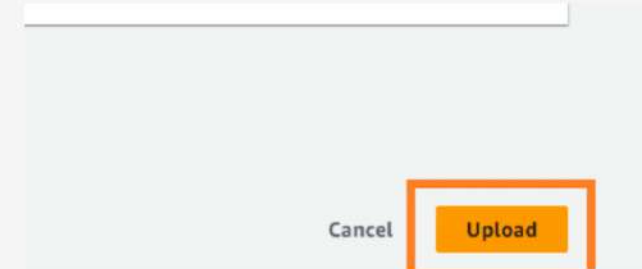
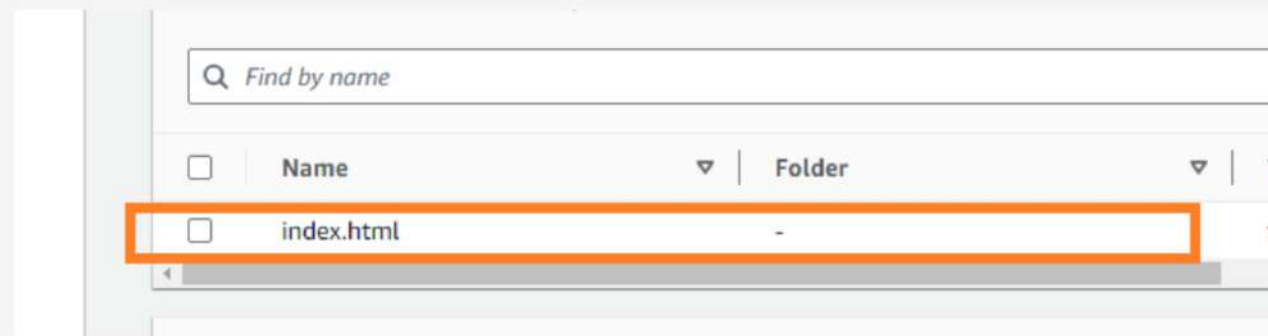
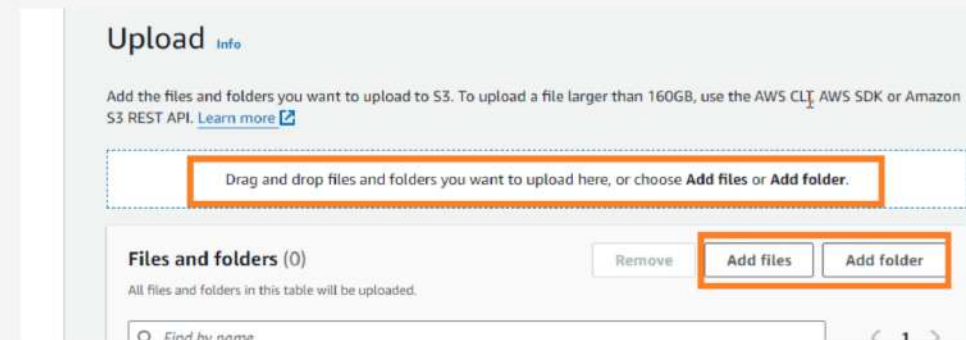
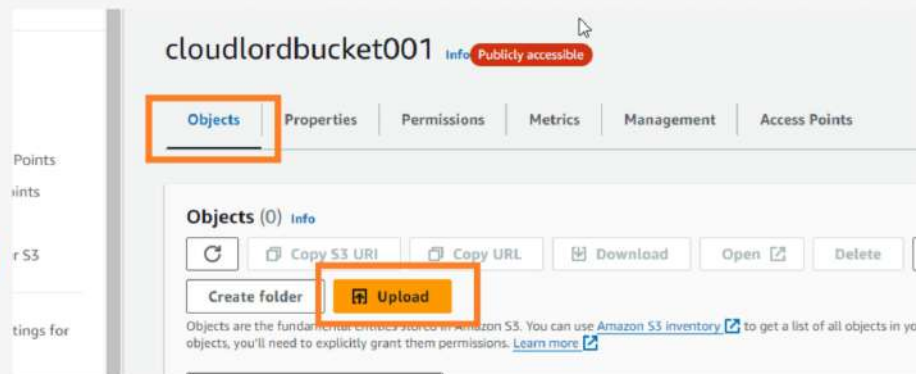


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Now, Click on the "Object" tab

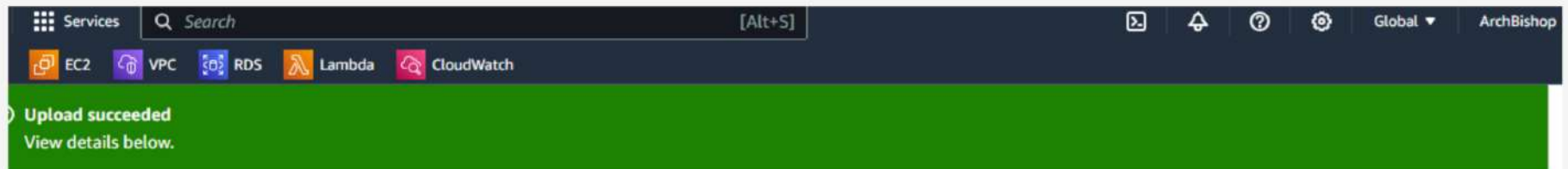
Click on the "Upload" button to drag and drop or add files manually.

On my case, I'm uploading an html file. Scroll down and click on the "Upload" button when done.



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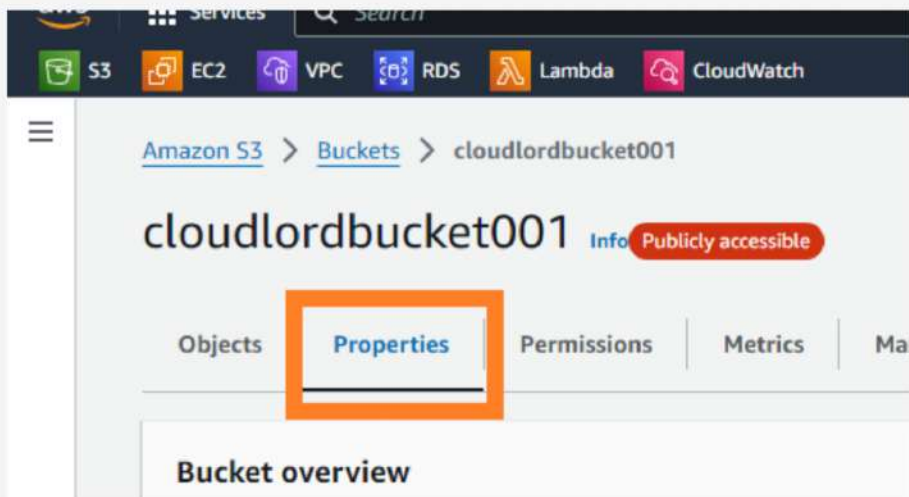
Click the "Close" button after upload is done.
To confirm public accessibility, Click on the "Properties" tab and Scroll down to "Static website hosting" option, Click on the URL



Upload: status

Close

The information below will no longer be available after you navigate away from this page.



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 endpoint.

<http://cloudlordbucket001.s3-website-us-east-1.amazonaws.com>

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Now our Static Website is Publicly Accessible. (Congratulations on completing this Milestone so far)

Now, Let's Map this Site to a Cloudfront distribution, this is done to take advantage of the Cache use of Cloudfront, Reduce Latency and Continuous Cost to the S3 Bucket

18.



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Applying Cloud front



Amazon CloudFront

BY AYOMIDE OGUNSANYA (THECLOUDLORD)

Go back to your AWS Console and Search for "Cloudfront" and Click. Now, Click on "Create Cloudfront Distribution"

19.

The image shows two screenshots from the AWS Console. The top screenshot displays the search results for 'cloudfront', with the 'CloudFront' service icon and name highlighted by an orange box. The bottom screenshot shows the Amazon CloudFront landing page, with the 'Create a CloudFront distribution' button highlighted by an orange box.

Amazon CloudFront
Securely deliver content with low latency and high transfer speeds

Amazon CloudFront is a fast content delivery network (CDN) service that securely delivers data, videos, applications, and APIs to customers globally with low latency and high transfer speeds.

Get started with CloudFront

Enable accelerated, reliable and secure content delivery for Amazon S3 buckets, Application Load Balancers, Amazon API Gateway APIs, and more in 5 minutes or less.

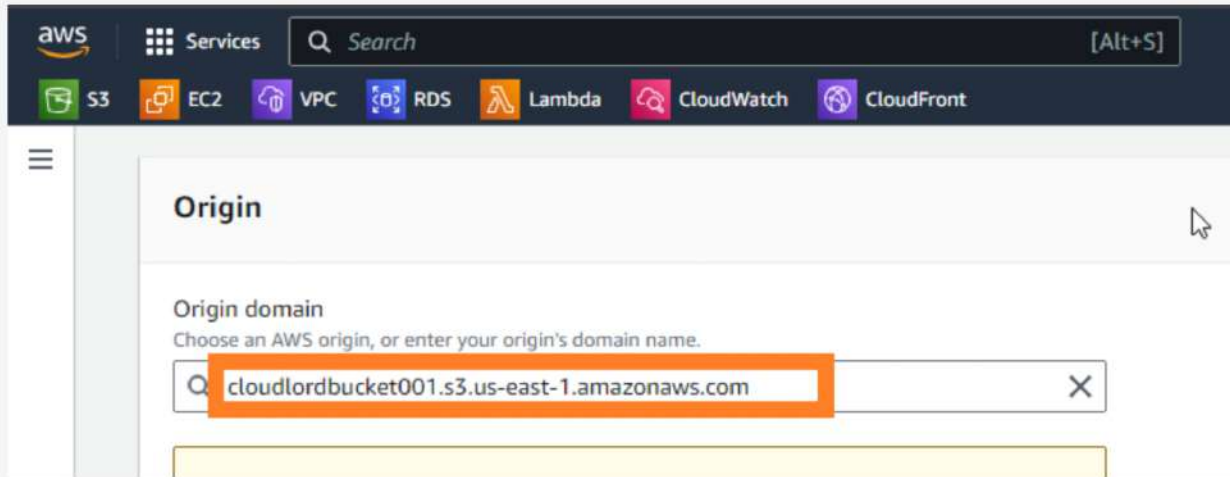
Create a CloudFront distribution

AWS Free Tier

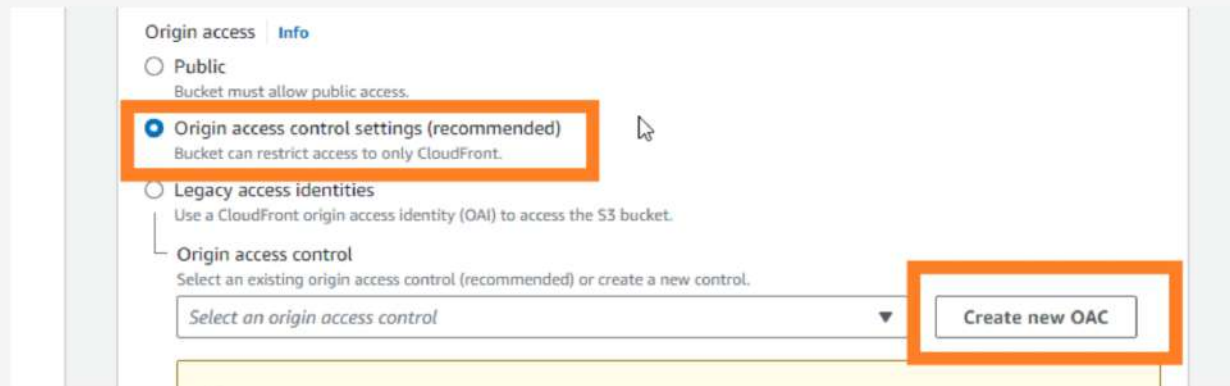
BY AYOMIDE OGUNSANYA (THECLOUDLORD)

Click on the "Origin Domain", select the your domain listed.
Scroll down to "Origin Access", Click on "Origin access control settings (recommended)"
then click on the "Create new OAC" button

20.



The screenshot shows the AWS console interface for configuring an origin. The top navigation bar includes the AWS logo, 'Services', a search bar, and icons for S3, EC2, VPC, RDS, Lambda, CloudWatch, and CloudFront. The main content area is titled 'Origin'. Under the 'Origin domain' section, there is a text input field with the value 'cloudlordbucket001.s3.us-east-1.amazonaws.com' highlighted by an orange rectangle.



The screenshot shows the 'Origin access' section of the AWS console. It features three radio button options: 'Public', 'Origin access control settings (recommended)', and 'Legacy access identities'. The 'Origin access control settings (recommended)' option is selected and highlighted with an orange rectangle. Below this, there is a section for 'Origin access control' with a dropdown menu and a 'Create new OAC' button, which is also highlighted with an orange rectangle.

Leave the OAC settings as it is and Click "Create"

21.

Create new OAC

Name
The name must be unique. Valid characters: letters, numbers and most special characters. Use up to 64 characters.

cloudlordbucket001.s3.us-east-1.amazonaws.com

Description - optional
The description can have up to 256 characters.

Enter description

Signing behavior

☐ Do not sign requests

☒ Sign requests (recommended)

☐ Do not override authorization header
Do not sign if incoming request has authorization header.

Origin type

S3

The origin type must be the same type as origin domain.

Cancel Create

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Scroll to Web Application Firewall (WAF) option, click on "do not enable security protection".

Scroll down and Click "Create Distribution"

Copy the New Generated CloudFront policy.

22.

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.

Cancel **Create distribution** Activate W Go to Setting:

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Introducing the CloudFront Security Dashboard
The new security tab is a unified place to configure, manage, and monitor security for your CloudFront distribution. The built-in dashboard gives you visibility into top security trends, allowed and blocked traffic, as well as visibility and controls for bots. CloudFront geographic restrictions are now part of the security dashboard.

Successfully created new distribution.

The S3 bucket policy needs to be updated
Complete distribution configuration by allowing read access to CloudFront origin access control in your policy statement. [Go to S3 bucket permissions to update policy](#) **Copy policy**

BY AYOMIDE OGUNSANJA (THECLOUDLORD)

Now Return to your S3 Bucket
Click on your Bucket name
Click on "Permissions" tab
And Click on "Edit" for Block public access option

23.

The screenshot shows the AWS S3 console interface. At the top, there's a section for 'General purpose buckets (1)' with a search bar and a table of buckets. The table has columns for Name, AWS Region, Access, and Creation date. One bucket, 'cloudlordbucket001', is listed with the region 'US East (N. Virginia) us-east-1' and 'Public' access. Below this, the 'Permissions' tab is selected, showing a 'Permissions overview' section with 'Public' access status. At the bottom, the 'Block public access (bucket settings)' section is visible, with an 'Edit' button highlighted.

Name	AWS Region	Access	Creation date
cloudlordbucket001	US East (N. Virginia) us-east-1	Public	February 22, 2024, 06:09:15 (UTC-08:00)

Permissions overview

Access

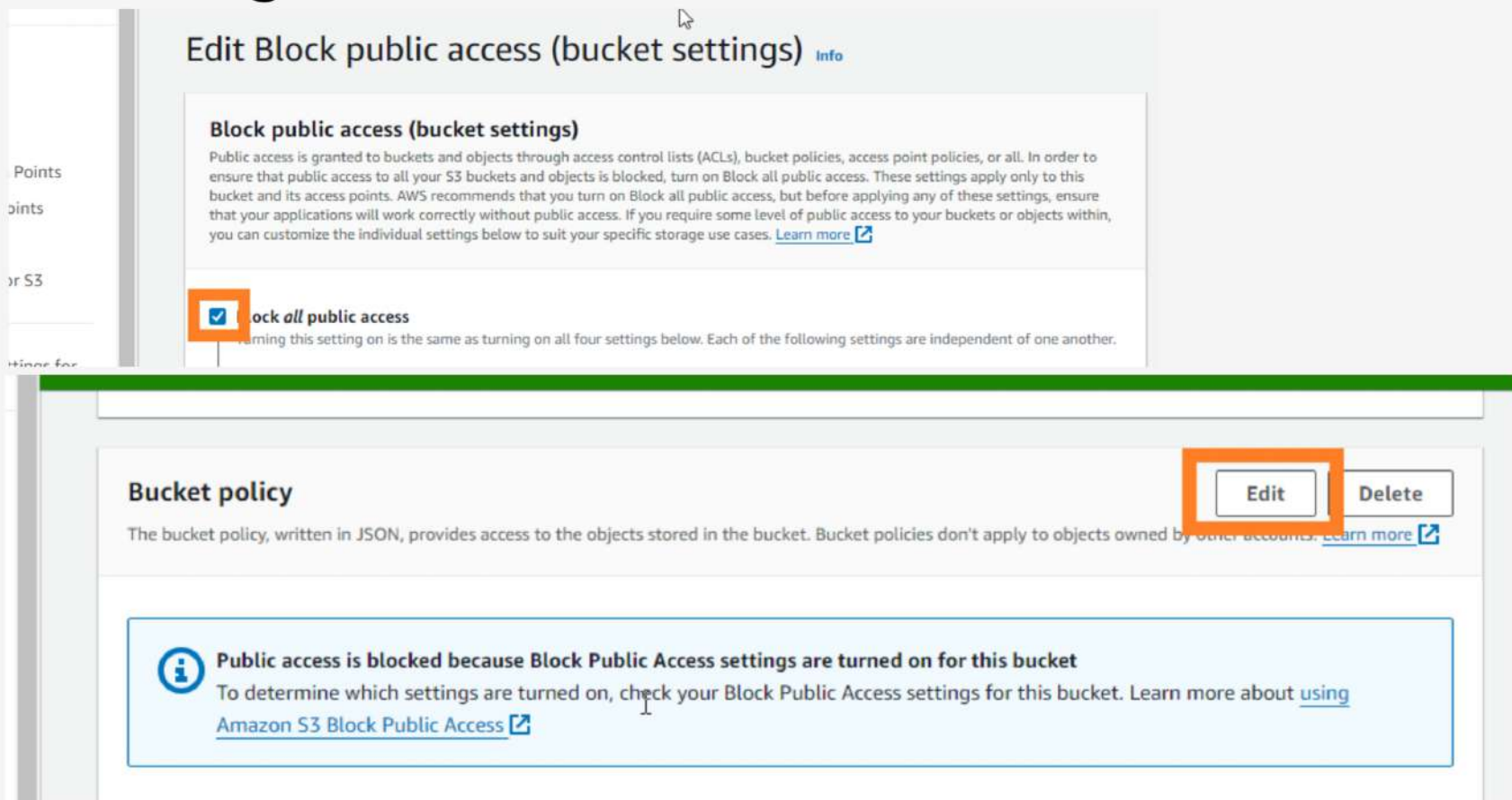
Public

Block public access (bucket settings)

Edit

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**Click on Block Public Access Checkbox and Save changes.
Now, Edit the Bucket policy and Paste the New Bucket Policy Gotten
from Cloudfront.
Save changes.**



The screenshot displays the AWS S3 console interface. On the left, a sidebar contains navigation links: 'Points', 'oints', 'or S3', and 'tinger for'. The main content area is titled 'Edit Block public access (bucket settings)' with an 'Info' link. Below this, a section titled 'Block public access (bucket settings)' explains that public access is granted through ACLs, bucket policies, access point policies, or all. It states that to ensure public access is blocked, one should turn on 'Block all public access'. This checkbox is highlighted with an orange square and is currently checked. Below the checkbox, a note states: 'Turning this setting on is the same as turning on all four settings below. Each of the following settings are independent of one another.' Below this section, there is a green horizontal bar. Further down, the 'Bucket policy' section is visible, featuring an 'Edit' button and a 'Delete' button, both highlighted with orange squares. Below the buttons, a message states: 'Public access is blocked because Block Public Access settings are turned on for this bucket'. It provides instructions to determine which settings are turned on by checking the 'Block Public Access settings' for the bucket, with a link to 'Learn more about using Amazon S3 Block Public Access'.

Points
oints
or S3
tinger for

Edit Block public access (bucket settings) [Info](#)

Block public access (bucket settings)

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 all your S3 buckets and 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 your buckets 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.

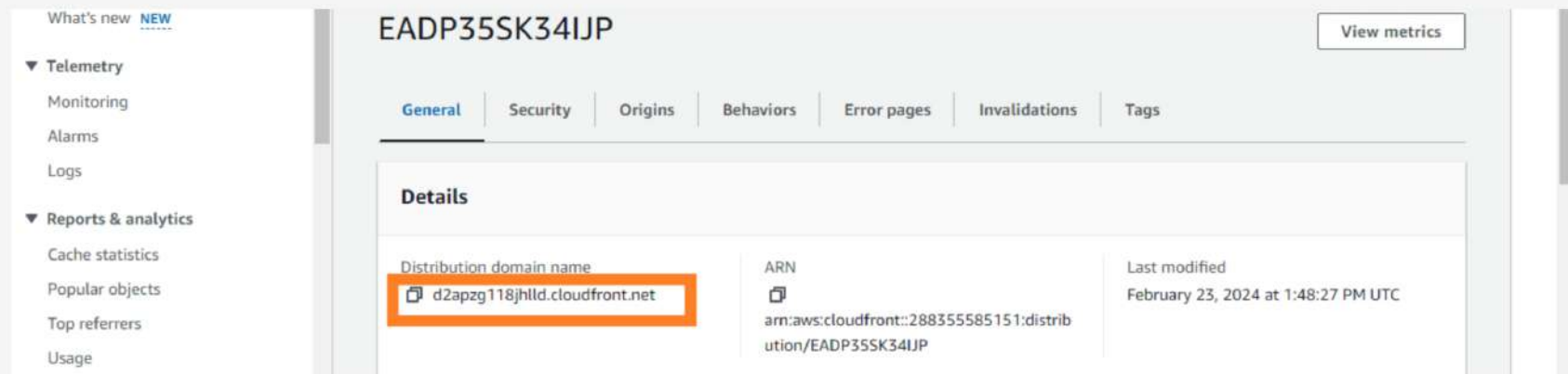
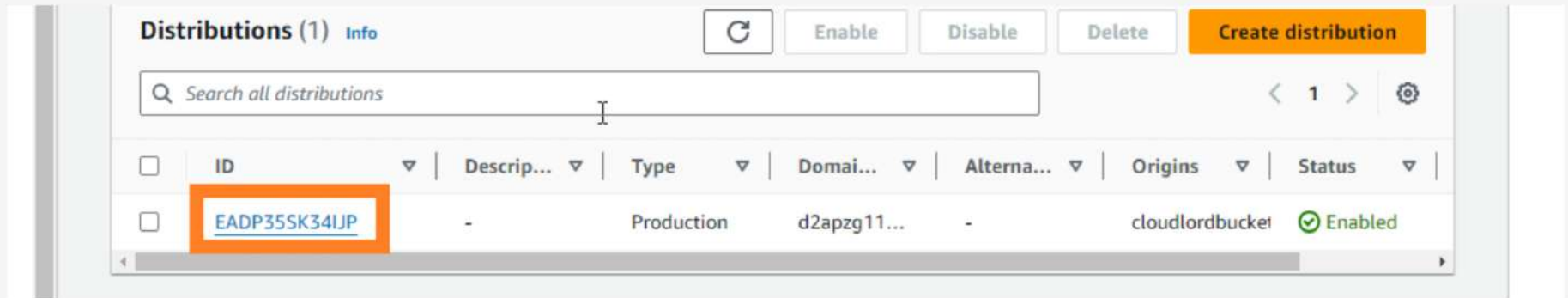
Bucket policy

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](#)

Public access is blocked because Block Public Access settings are turned on for this bucket
To determine which settings are turned on, check your Block Public Access settings for this bucket. Learn more about [using Amazon S3 Block Public Access](#)

**Now, Go to Cloudfront, Click on your Cloudfront "ID".
Copy the "Distribution Domain Name" and paste in a new tab on your
Browser**

25.



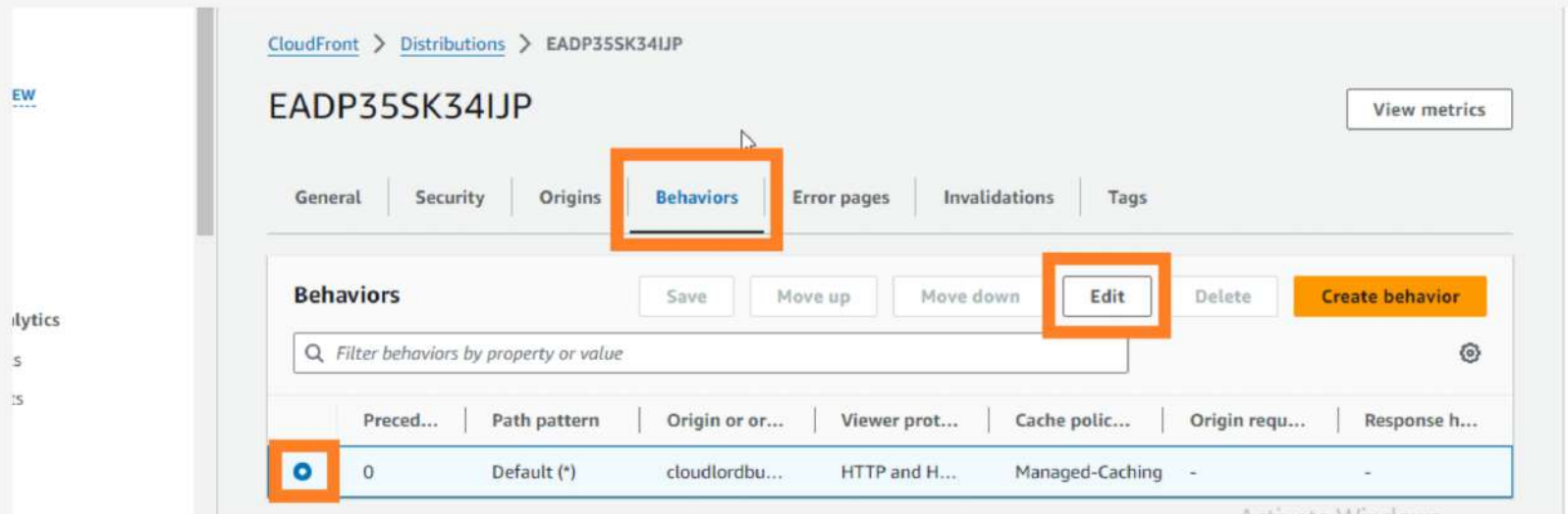
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The Site Opens Successfully. WELDONE!

Now, Let's add a TTL (Time to Live lets you specify how long you want your site loading from Cloudfront before Reloading from s3 bucket) to our Cloudfront Distribution.

Click on Behavior Tab, Click on the check icon, Click on Edit

26.



BY AYOMIDE OGUNSANYA (THECLOUDLORD)

Scroll to "Cache key and Origin Request", Click "Legacy cache settings" , now under "Object Caching" Click "Customize". Now you can Set the "Default TTL" to the Amount of seconds you want. Save when done. GoodLuck

27.

☐ 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

Headers
Choose which headers to include in the cache key.

None

Object caching

☐ Use origin cache headers

☒ Customize

Minimum TTL	Maximum TTL	Default TTL
Minimum time to live in seconds.	Maximum time to live in seconds.	Default time to live in seconds.
0	31536000	86400

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

BY AYOMIDE OGUNSANYA (THECLOUDLORD)

Warning! Make Sure You Disable and Delete your Cloudfront Distribution if not in use to Avoid Billing on your account.
Follow the Steps as indicated below
the same applies to your S3 bucket on the next page.

28.

The screenshot shows the AWS CloudFront console with the 'Distributions' tab selected. A table lists one distribution with ID 'EADP35SK34IJP' and status 'Enabled'. The 'Disable' and 'Delete' buttons are highlighted with orange boxes and labeled '2' and '3' respectively. The distribution ID 'EADP35SK34IJP' is highlighted with an orange box and labeled '1'.

ID	Description	Type	Domain n...	Alternate ...	Origins	Status	Last modi...
EADP35SK34IJP	-	Production	d2apzg118jh...	-	cloudlordbucket00	Enabled	February 23, ...

29.

Amazon S3

Buckets

Access Grants

Access Points

Object Lambda Access Points

Multi-Region Access Points

Batch Operations

IAM Access Analyzer for S3

Block Public Access settings for this account

Storage Lens

Dashboards

Storage Lens groups

AWS Organizations settings

Amazon S3

Account snapshot

View Storage Lens dashboard

General purpose buckets

Directory buckets

General purpose buckets (1) Info

Refresh

Copy ARN


Empty

Delete

Create bucket

Find buckets by name

< 1 > ⚙

Name ▲	AWS Region ▼	Access ▼	Creation date ▼
<div>1  cloudlordbucket001</div>	US East (N. Virginia) us-east-1	Bucket and objects not public	February 22, 2024, 06:09:15 (UTC-08:00)

30. Thank
You



@TheCloudLord



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