CloudFront - Restricting the Geographic Distribution of Your Content

Distributions

What's New ✳

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Amazon CloudFront Getting Started

Either your search returned no results, or you do not have any distributions. Click the button below to create a new CloudFront distribution. A distribution allows you to distribute content using a worldwide network of edge locations that provide low latency and high data transfer speeds (learn more)

Create Distribution

Step 1: Select delivery method

Step 2: Create distribution

Select a delivery method for your content.

Web

Create a web distribution if you want to:

- Speed up distribution of static and dynamic content, for example, .html, .css, .php, and graphics files.
- Distribute media files using HTTP or HTTPS.
- Add, update, or delete objects, and submit data from web forms.
- Use live streaming to stream an event in real time.

You store your files in an origin - either an Amazon S3 bucket or a web server. After you create the distribution, you can add more origins to the distribution.

Get Started

RTMP

Create an RTMP distribution to speed up distribution of your streaming media files using Adobe Flash Media Server's RTMP protocol. An RTMP distribution allows an end user to begin playing a media file before the file has finished downloading from a CloudFront edge location. Note the following:

- To create an RTMP distribution, you must store the media files in an Amazon S3 bucket.
- To use CloudFront live streaming, create a web distribution.

Get Started

Cancel

```
[INBL2-42RG3QD:~ mahtab.alam$ aws s3 mb s3://cd-geo-restriction-demo --region us-east-1 --profile mahtab-sysops
make_bucket: cd-geo-restriction-demo
[INBL2-42RG3QD:~ mahtab.alam$ aws s3 cp ~/Downloads/cat1.jpeg s3://cd-geo-restriction-demo/ --profile mahtab-sysops
upload: Downloads/cat1.jpeg to s3://cd-geo-restriction-demo/cat1.jpeg
INBL2-42RG3QD:~ mahtab.alam$
```

Create Distribution - Origin Settings

Step 1: Select delivery method

Step 2: Create distribution

Create Distribution

Origin Settings

Origin Domain Name	cd-geo-restriction-demo.s3.amazonaws
Origin Path	
Origin ID	S3-cd-geo-restriction-demo
Restrict Bucket Access	⦿ Yes ○ No
Origin Access Identity	⦿ Create a New Identity ○ Use an Existing Identity
Comment	access-identity-cd-geo-restriction-demc
Grant Read Permissions on Bucket	⦿ Yes, Update Bucket Policy ○ No, I Will Update Permissions
Origin Custom Headers	Header Name Value

Create Distribution - Default Cache Behavior Settings

Default Cache Behavior Settings ←

Path Pattern	Default (*)
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
Field-level Encryption Config	[　　　　　　　　　　 ▾]
Cached HTTP Methods	GET, HEAD (Cached by default)
Cache Based on Selected Request Headers	None (Improves Caching) ▾ Learn More
Object Caching	⦿ Use Origin Cache Headers ◯ Customize Learn More
Minimum TTL	0
Maximum TTL	31536000
Default TTL	86400
Forward Cookies	None (Improves Caching) ▾

Query String Forwarding and Caching	None (Improves Caching) ▾
Smooth Streaming	◯ Yes ⦿ No
Restrict Viewer Access (Use Signed URLs or Signed Cookies)	◯ Yes ⦿ No
Compress Objects Automatically	◯ Yes ⦿ No Learn More
Lambda Function Associations	

CloudFront Event	Lambda Function ARN	Include Body
Select Event Type ▾		☐ ➕

Learn More

Create Distribution - Distribution Settings

Distribution Settings ←

Price Class	Use All Edge Locations (Best Performance) ▾	❶
AWS WAF Web ACL	None ▾	❶
Alternate Domain Names (CNAMEs)		❶

SSL Certificate ⦿ Default CloudFront Certificate (*.cloudfront.net)

Choose this option if you want your users to use HTTPS or HTTP to access your content with the CloudFront domain name (such as https://d111111abcdef8.cloudfront.net/logo.jpg).
Important: If you choose this option, CloudFront requires that browsers or devices support TLSv1 or later to access your content.

○ Custom SSL Certificate (example.com):

Choose this option if you want your users to access your content by using an alternate domain name, such as https://www.example.com/logo.jpg. You can use a certificate stored in AWS Certificate Manager (ACM) in the US East (N. Virginia) Region, or you can use a certificate stored in IAM.

	❶

Request or Import a Certificate with ACM

Learn more about using custom SSL/TLS certificates with CloudFront.
Learn more about using ACM.

Supported HTTP Versions ⦿ HTTP/2, HTTP/1.1, HTTP/1.0   ❶
○ HTTP/1.1, HTTP/1.0

Default Root Object		❶
Logging	○ On ⦿ Off	❶

Bucket for Logs		❶
Log Prefix		❶
Cookie Logging	○ On ⦿ Off	❶
Enable IPv6	☑	❶

Learn more

Comment		❶
Distribution State	⦿ Enabled ← ○ Disabled	❶

Cancel   Back   **Create Distribution** ↓

CloudFront Distributions

Create Distribution Distribution Settings Delete Enable Disable   ⟳ ⚙ ❓ 👤

Viewing : Any Delivery Method ▾   Any State ▾   [   ]   ⟪ ⟨ Viewing 1 to 1 of 1 Items ⟩ ⟫

☐	Delivery Method	ID	Domain Name	Comment	Origin	CNAMEs	Status	State	Last Modified
☑	🌐 Web	E1AP0TYCWLD1T	d3nl68m1l1rqjv.cloudfront.net	-	cd-geo-restriction-demo.s3.amazonaws.com	-	Deployed	Enabled	2018-10-26 14:15 UTC+5:30

⟪ ⟨ Viewing 1 to 1 of 1 Items ⟩ ⟫

CloudFront Distributions > E1AP0TYCWLD1T

| General | Origins | Behaviors | Error Pages | **Restrictions** | Invalidations | Tags |

If you need to prevent users in selected countries from accessing your content, you can specify either a whitelist (countries where they can access your content) or a blacklist (countries where they cannot). For more information, see Restricting the Geographic Distribution of Your Content in the *Amazon CloudFront Developer Guide*.

Edit

Viewing 1 to 1 of 1 Items

	Restriction	Status	Type	
☑	Geo Restriction	Disabled	-	

Viewing 1 to 1 of 1 Items

Edit Geo-Restrictions

Geo-Restriction Settings

Enable Geo-Restriction ● Yes ○ No ℹ

We are blacklisting the access for both India and Pakistan

Restriction Type ○ Whitelist ● Blacklist ℹ

Countries ℹ

NF -- NORFOLK ISLAND		IN -- INDIA
MP -- NORTHERN MARIANA ISLAND	Add >>	PK -- PAKISTAN
NO -- NORWAY		
OM -- OMAN	<< Remove	
PK -- PAKISTAN		
PW -- PALAU		

Cancel   Yes, Edit

CloudFront Distributions

Create Distribution   Distribution Settings   Delete   Enable   Disable

Viewing : | Any Delivery Method ▾ | Any State ▾ | | Viewing 1 to 1 of 1 Items

	Delivery Method	ID	Domain Name	Comment	Origin	CNAMEs	Status	State	Last Modified
☑	🌐 Web	E1AP0TYCWLD1T	d3nl68m1l1rqjv.cloudfront.net	-	cd-geo-restriction-demo.s3.amazonaws.com	-	Deployed	Enabled	2018-10-26 14:36 UTC+5:30

Viewing 1 to 1 of 1 Items

403 ERROR

The request could not be satisfied.

The Amazon CloudFront distribution is configured to block access from your country.

```
Generated by cloudfront (CloudFront)
Request ID: vKxRa3WbTTGbNgInN9MRANhlvasvDpigmJo8aTzWrxrpOzclT559Vg==
```

Lets try to access the cat1.jpeg from other location (Europe)