



# AWS CloudFront





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# What is CloudFront?

# CloudFront

## What is CloudFront?



- CloudFront is the **Content Delivery Network (CDN)** of AWS.
- Basically, it is a globally distributed network located on different geographical places.

# CloudFront

## What is CloudFront?



- The aim of this service is to **provide faster distribution** to the dynamic or the static web contents.
- World-wide distributed data centers which are called **edge locations** are the backbone of CloudFront.



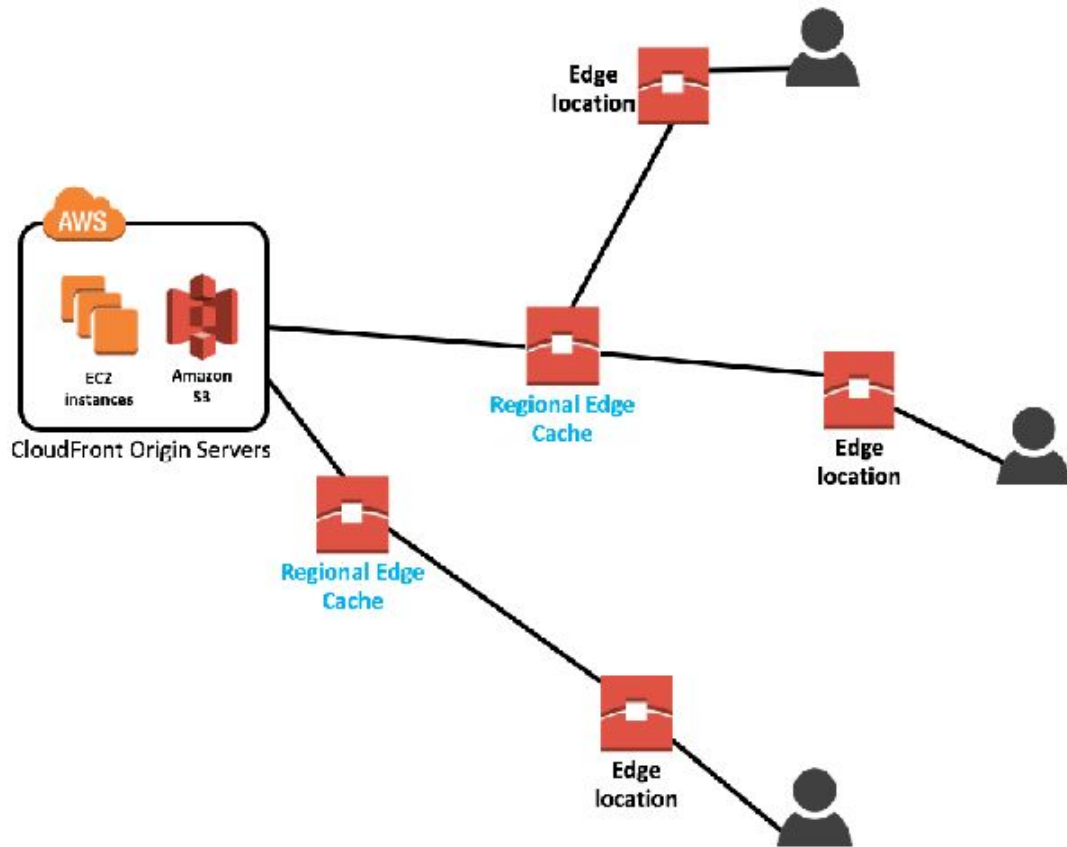
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# CloudFront Infrastructure

# CloudFront

## CloudFront Infrastructure

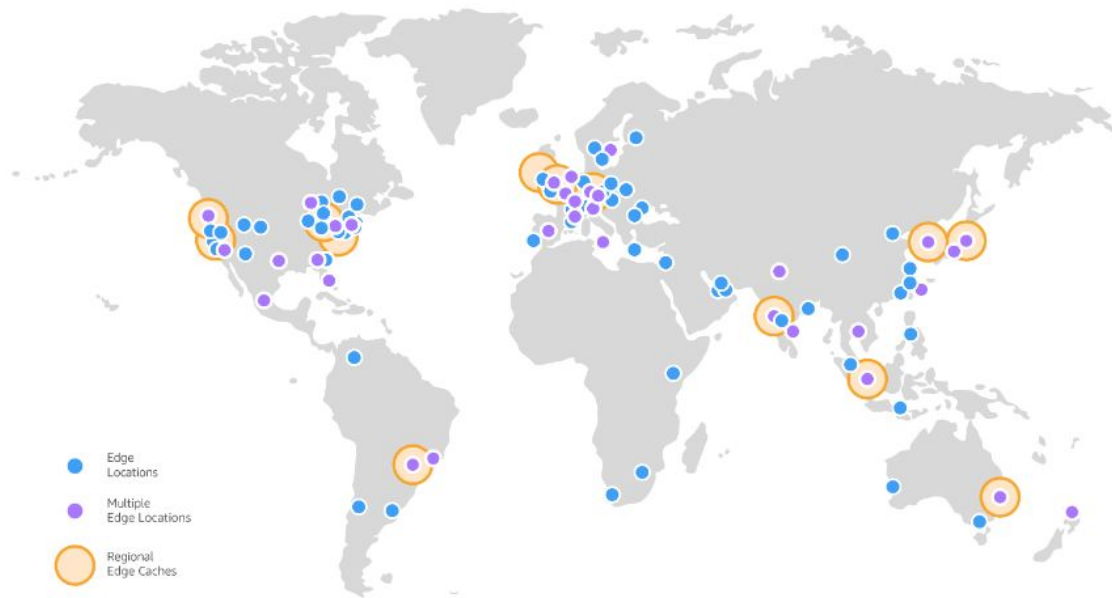
- AWS CloudFront has a world-wide network of **600+ Points of Presence (PoP)\***:
  - **500+ Edge Locations**
  - **13 Regional Edge Caches**



\*as of Jan 2024.

# CloudFront

## CloudFront Infrastructure



- These facilities are spread over 100+ cities across 50 countries\*.

\* Jan 2024

CLARUSWAY

WAY TO REINVENT YOURSELF



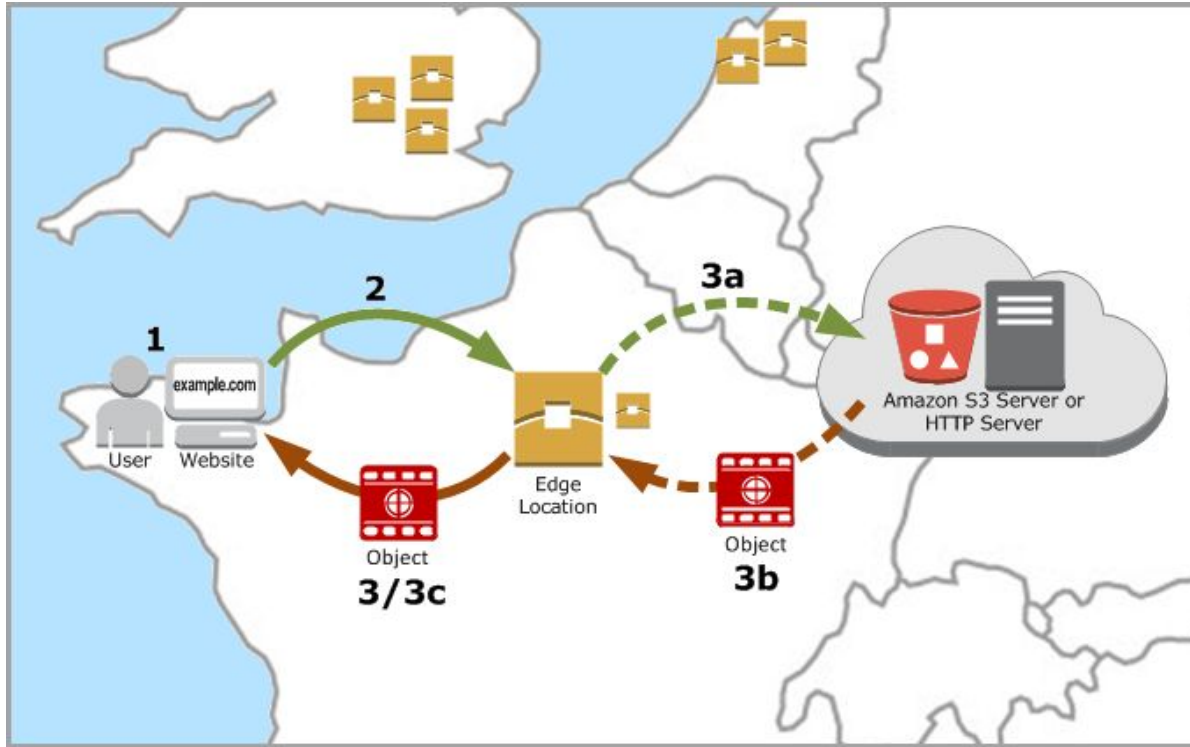


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# How does CloudFront work?

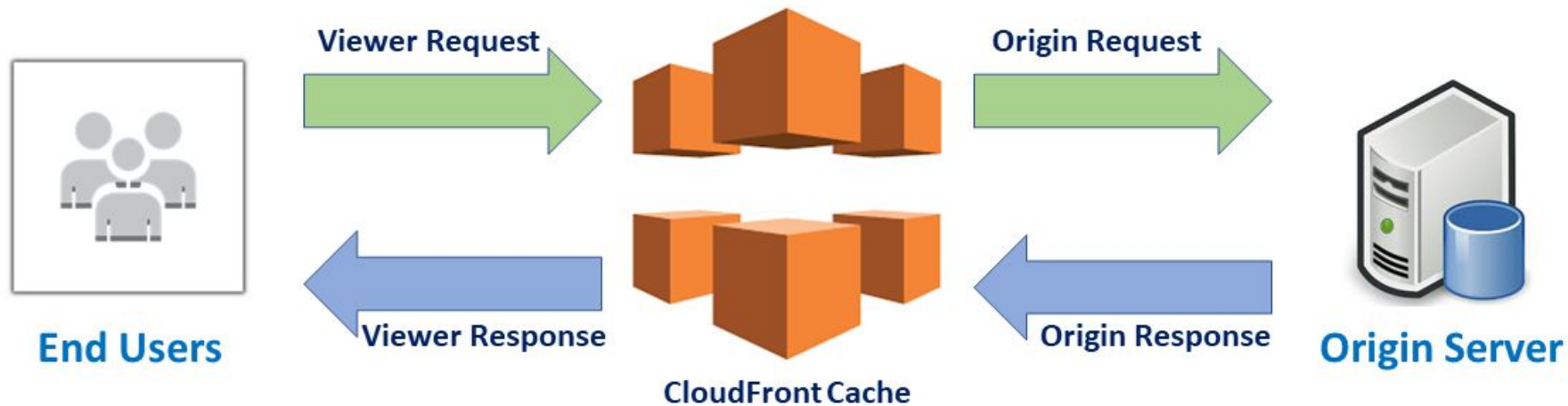
# CloudFront

## How does it work?



# CloudFront

How does it work?





# CloudFront

## Origins

- AWS Origin
  - Elastic Load Balancer
  - Mediastore Container
  - Mediapackage Container
  - API Gateway
  - S3 Bucket (Enables OAC/OAI-Origin Access Control/Identity)
- Custom Origin (HTTP)
  - EC2 Instance
  - Any HTTP server
  - S3 Static Website





# CloudFront

## Signed URLs & Signed Cookies

- Signed URLs
  - Restrict access to individual files
  - For clients that doesn't support cookies
- Signed Cookies
  - Provide access to multiple restricted files
  - No changes in your current URL





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# CloudFront Pricing

# CloudFront

## Pricing



### Free Tier

*Always free*

**1 TB of data transfer out**  
**10,000,000 HTTP or HTTPS Requests**  
**2,000,000 CloudFront Function Invocations**

*Each month*

### CloudFront Savings Bundle

*Amazon CloudFront charges traffic served based on the following dimensions: The CloudFront Security Savings Bundle is a flexible self-service pricing plan that helps you save up to 30% on your CloudFront bill in exchange for a monthly spend commitment for a one-year term. This savings is not limited to data delivered by CloudFront but applies to all CloudFront usage types, including CloudFront Functions and Lambda@Edge. The CloudFront Security Savings Bundle also includes free AWS Web Application Firewall (WAF) usage up to 10% of your committed amount.*

### Custom Pricing

#### Custom Pricing

*Custom discounted pricing is available for customers willing to commit to a minimum of 10 TB of data transfer per month for 12 months or longer. Discounts vary based on the amount of the commitment. Interested in signing up for discounted pricing?*

**Contact Us**

# CloudFront

## Pricing

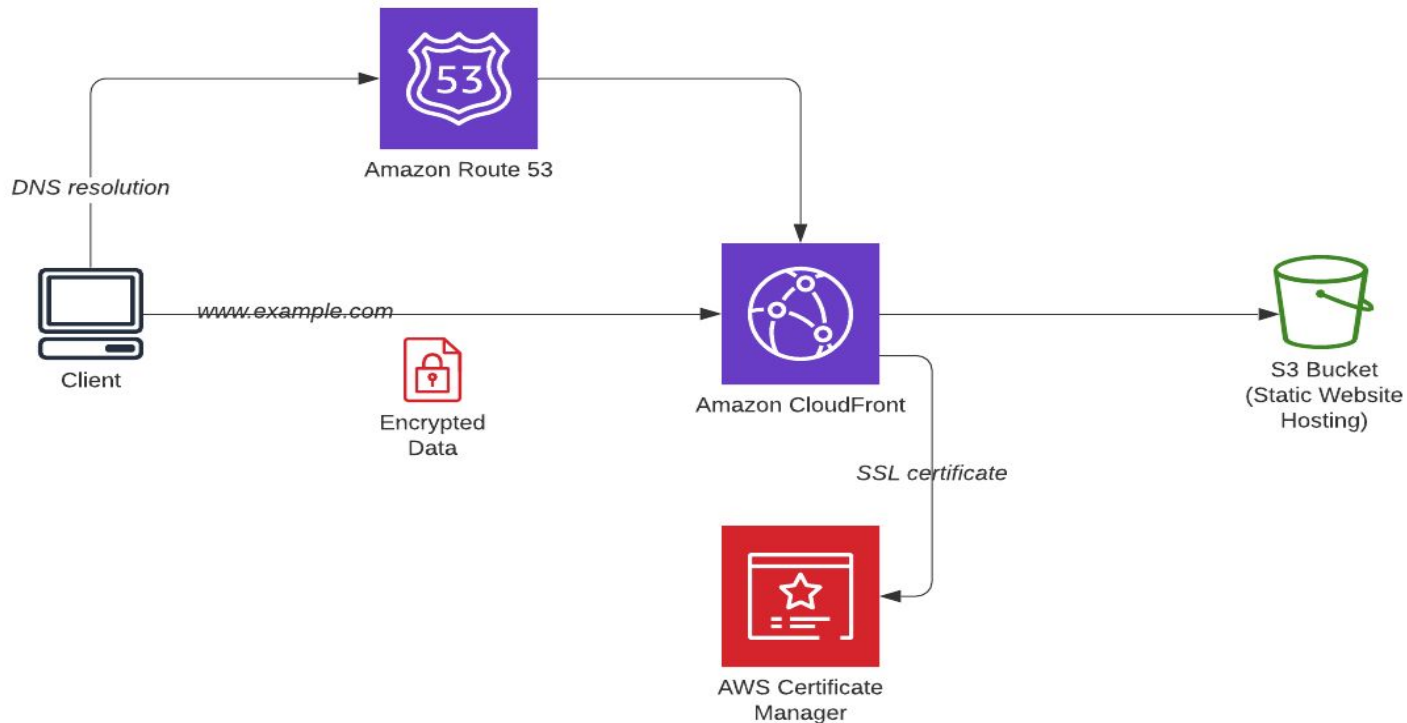


- Pricing varies depending on **region** and **usage**. Thus, to be more cost effective setup your configuration regarding your goal, methods, end users and geographic locations.



# CloudFront

## Hands on Scenario





# THANKS!

## Any questions?

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