



AWS CloudFront

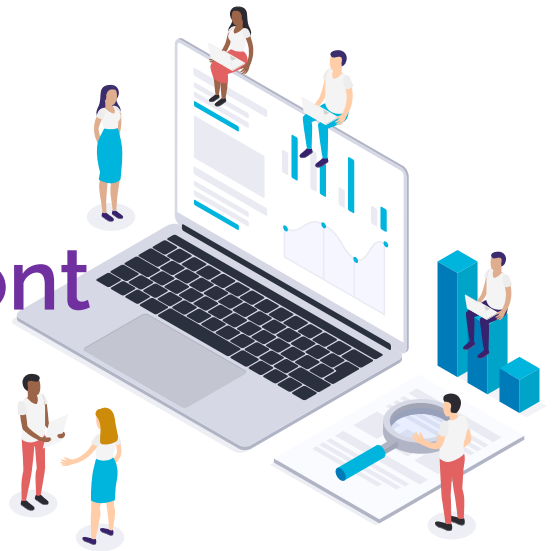


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1

What is CloudFront?



CloudFront

What is CloudFront?



- CloudFront is the **Content Delivery Network (CDN)** of AWS.
- A CDN is a *geographically distributed network* of servers that *reduce the latency* with which Internet content is delivered.



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CloudFront Infrastructure

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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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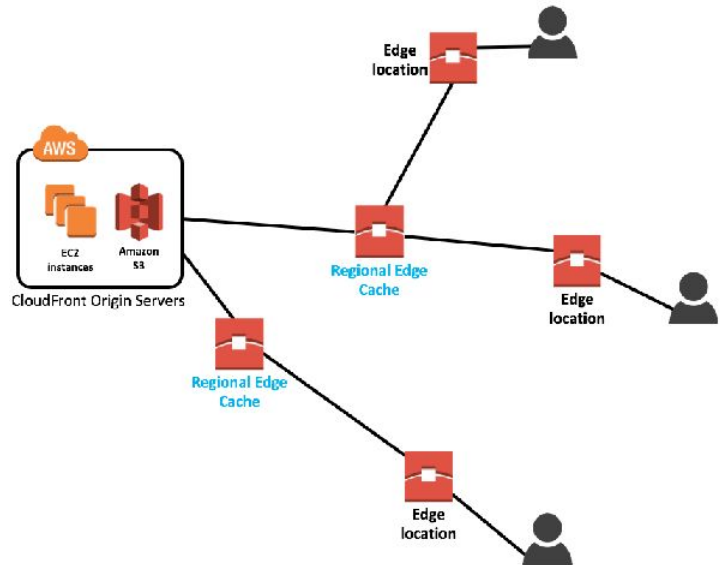
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CloudFront

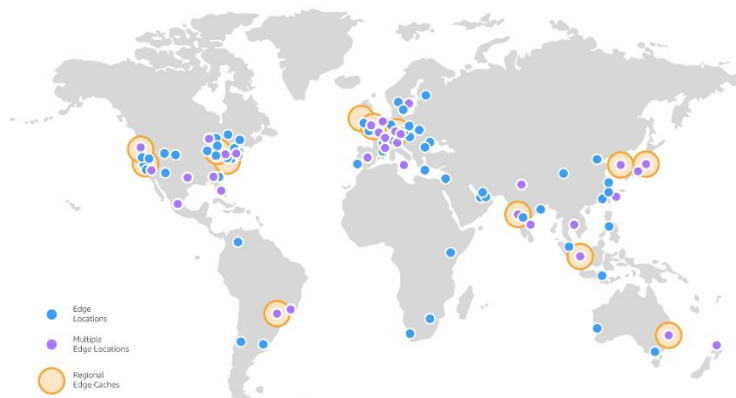
CloudFront Infrastructure

- AWS CloudFront has a world-wide network of **450+ Points of Presence (PoP)***:
 - **400+ Edge Locations**
 - **13 Regional Edge Caches**



CloudFront

CloudFront Infrastructure



- These facilities are spread over 90+ cities across 48 countries.



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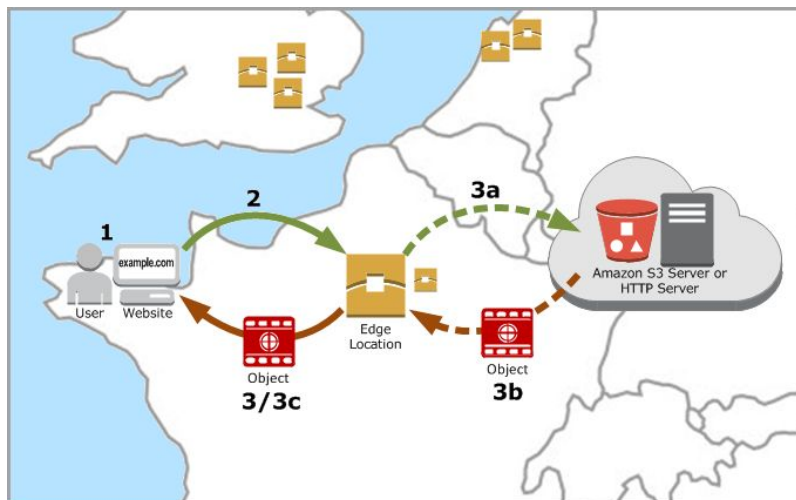
How does CloudFront work?

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CloudFront

How does it work?

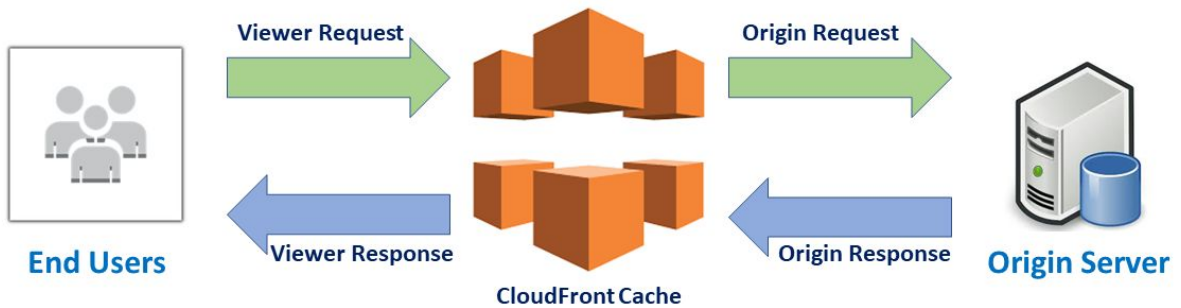


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CloudFront

How does it work?



CloudFront

Origins

- S3OriginConfig
 - Amazon S3 bucket that is not configured with static website hosting
- CustomOriginConfig
 - An Amazon S3 bucket that is configured with static website hosting
 - An Elastic Load Balancing load balancer
 - An AWS Elemental MediaPackage endpoint
 - An AWS Elemental MediaStore container
 - Any other HTTP server, running on an Amazon EC2 instance or any other kind of host





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



CloudFront

Geo Restrictions

- Can use allow lists and block lists for specific geographies
- Geographic restrictions apply to an entire distribution
 - If you need to apply one restriction to part of your content:
 - create separate CloudFront distributions
 - use third party service



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CloudFront Pricing

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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?

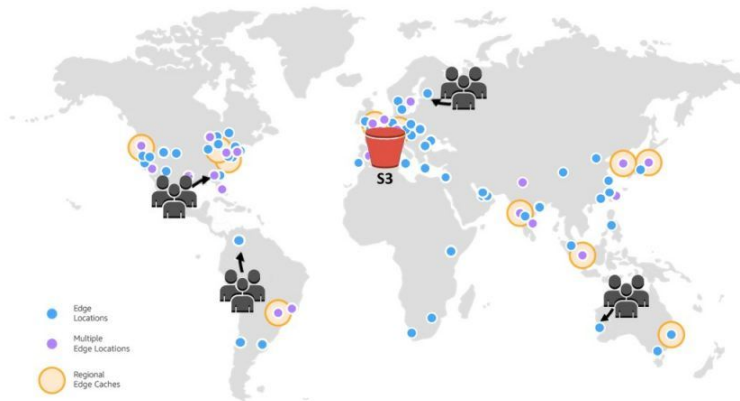
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Pricing

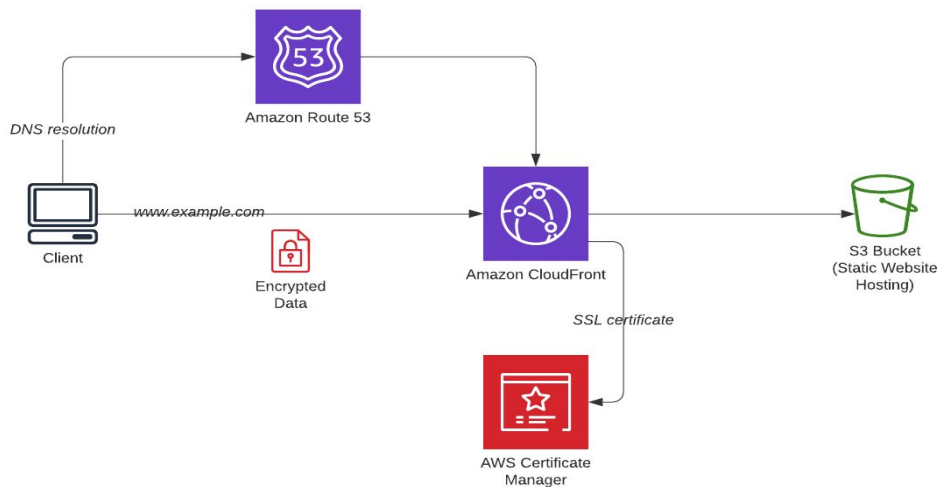


- Pricing varies depending on **region** and **usage**. Thus, to be more cost effective setup your configuration regarding your goal, methods, end users and geographic locations.



CloudFront

Hands on Scenario





THANKS!

Any questions?

