



ondia

The logo for 'ondia' is centered on a white background. The word is written in a lowercase, rounded sans-serif font. The letters 'o', 'n', and 'd' are a medium purple, while 'i' and 'a' are a darker blue. A light blue and teal graphic element, resembling a stylized 'd' or a corner bracket, is positioned behind the 'd'. The background features four purple triangular corner accents pointing towards the center.




# AWS CloudFront

# AGENDA



- ▶ **What is CloudFront?**
- ▶ **CloudFront Infrastructure**
- ▶ **How Does CloudFront Work?**
- ▶ **CloudFront Pricing**
- ▶ **Hands on Scenario**



# 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.



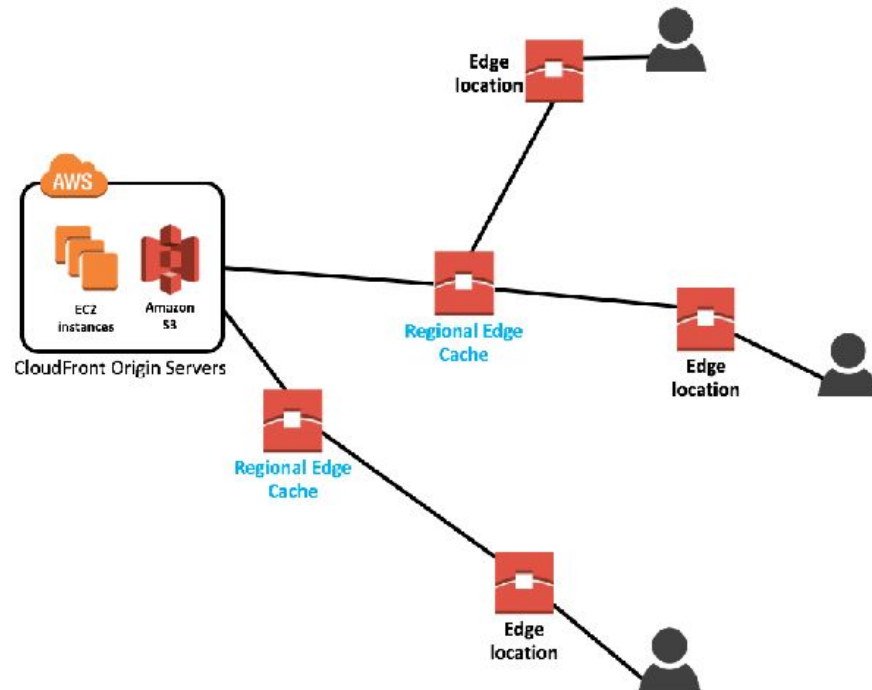
# CloudFront Infrastructure

# CloudFront

## CloudFront Infrastructure



- AWS CloudFront has a world-wide network of **700+ Points of Presence (PoP)\***:
  - **700+ Edge Locations**
  - **13 Regional Edge Caches**

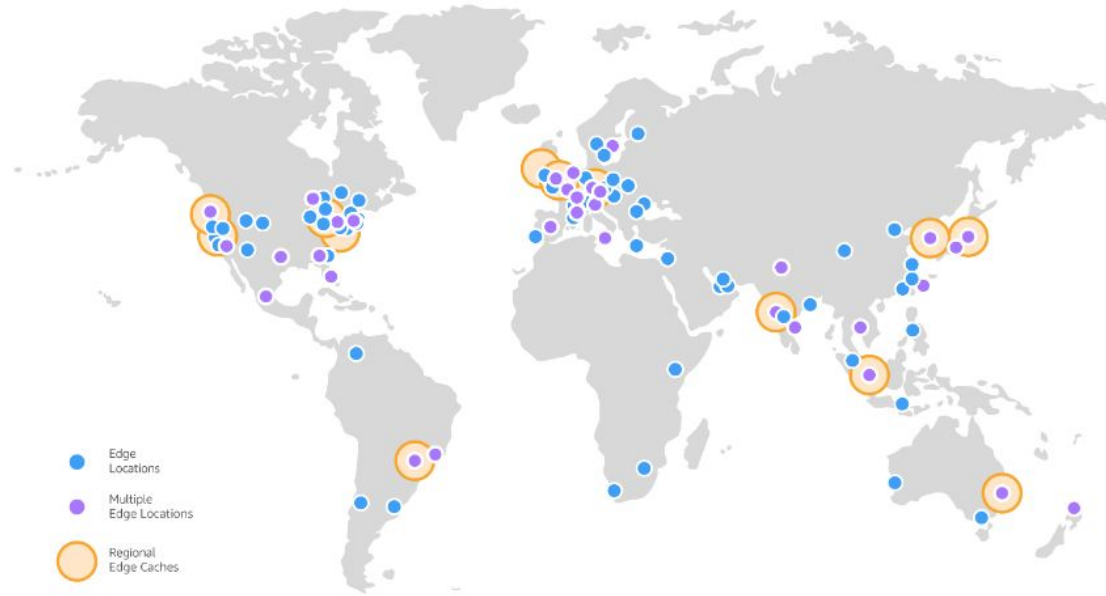


\*as of May 2025.



# CloudFront

CloudFront Infrastructure



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

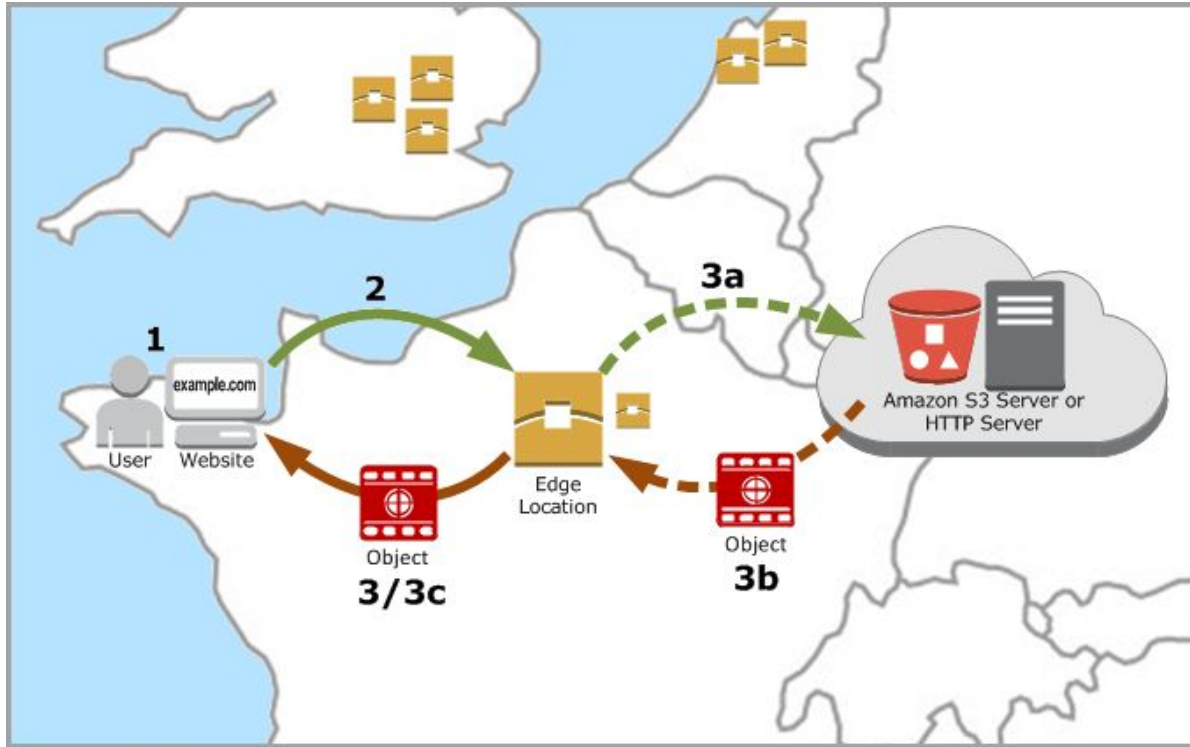
\* May 2025



# How does CloudFront work?

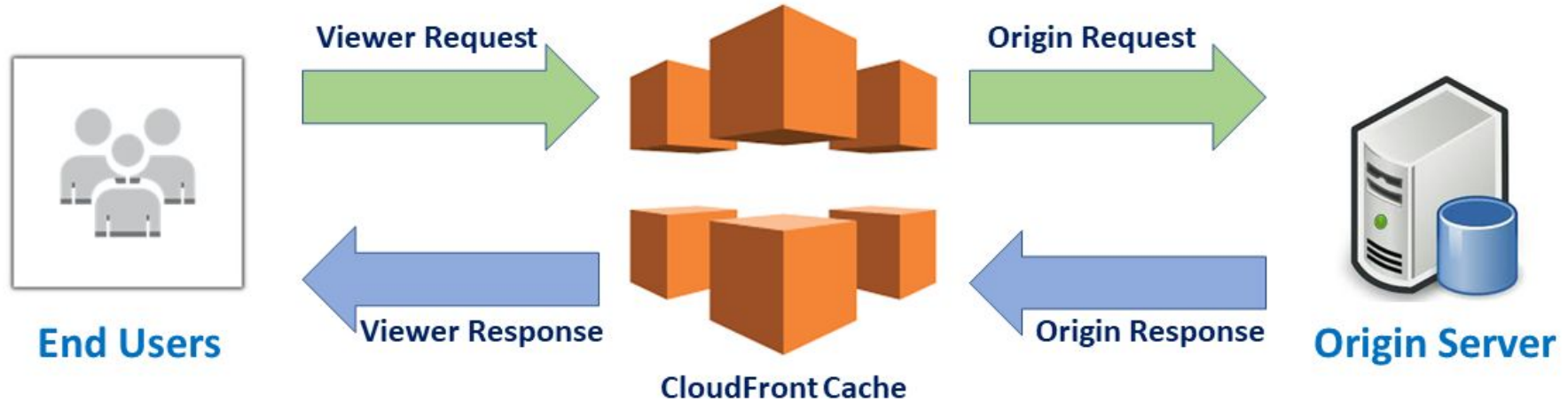
# CloudFront

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





- Can use **allow list** and **block list** for specific geographies
- **Allow** your users to access your content only if they're in one of the approved countries on your allow list.
- **Prevent** your users from accessing your content if they're in one of the banned countries on your block list.



# 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

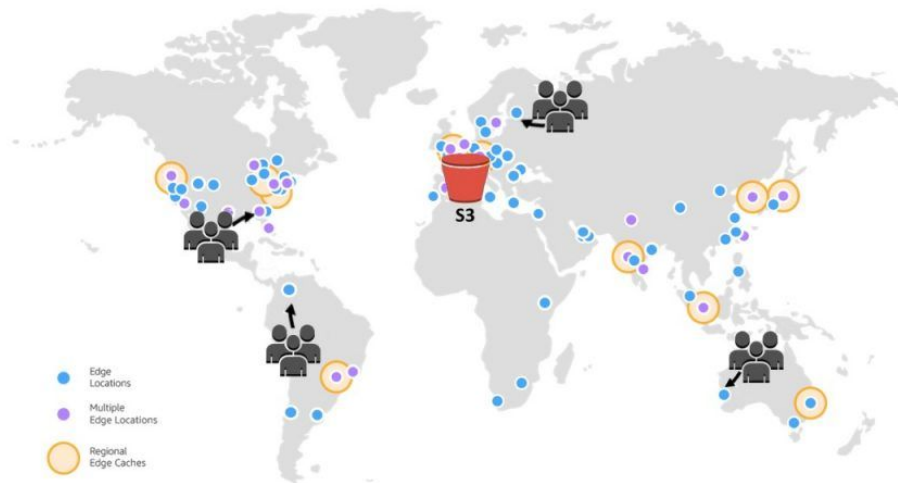
#### Custom Pricing

*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

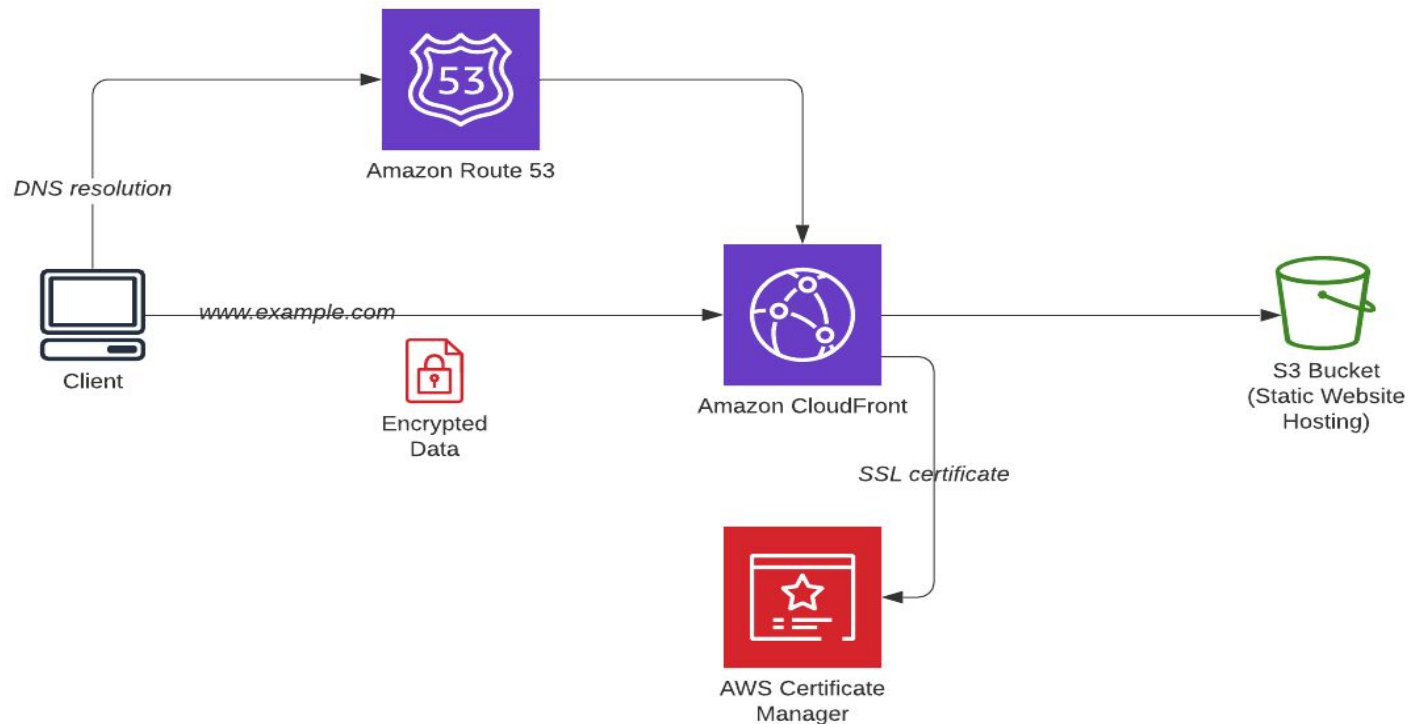


- Pricing varies depending on **region** and **usage**. Thus, to be more cost effective setup your configuration regarding your goal, methods, end users and geographic locations.



# CloudFront

## Hands on Scenario





# THANKS!

**Any questions?**

