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AWS-DEVOPS

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AWS Certificate Manager

AWS Certificate Manager

- **AWS Certificate Manager** is a service that allows you to easily issue, manage, and deploy public and private Secure Sockets Layer/Transport Layer Security (SSL/TLS) certificates for usage with AWS services and internally connected resources.
- SSL/TLS certificates are used to protect network connections and establish the identity of websites on the Internet as well as resources on private networks. AWS Certificate Manager automates the time-consuming manual process of purchasing, uploading, and renewing SSL/TLS certificates.

Certificate manager

Content Delivery Network(CDN)

Content Delivery Network(CDN)

What is CDN?

- A content delivery network (CDN) is a system of distributed servers (network) that delivers web pages and other web content to a user based on the user's geographic locations, the source of the web page and a content delivery server.

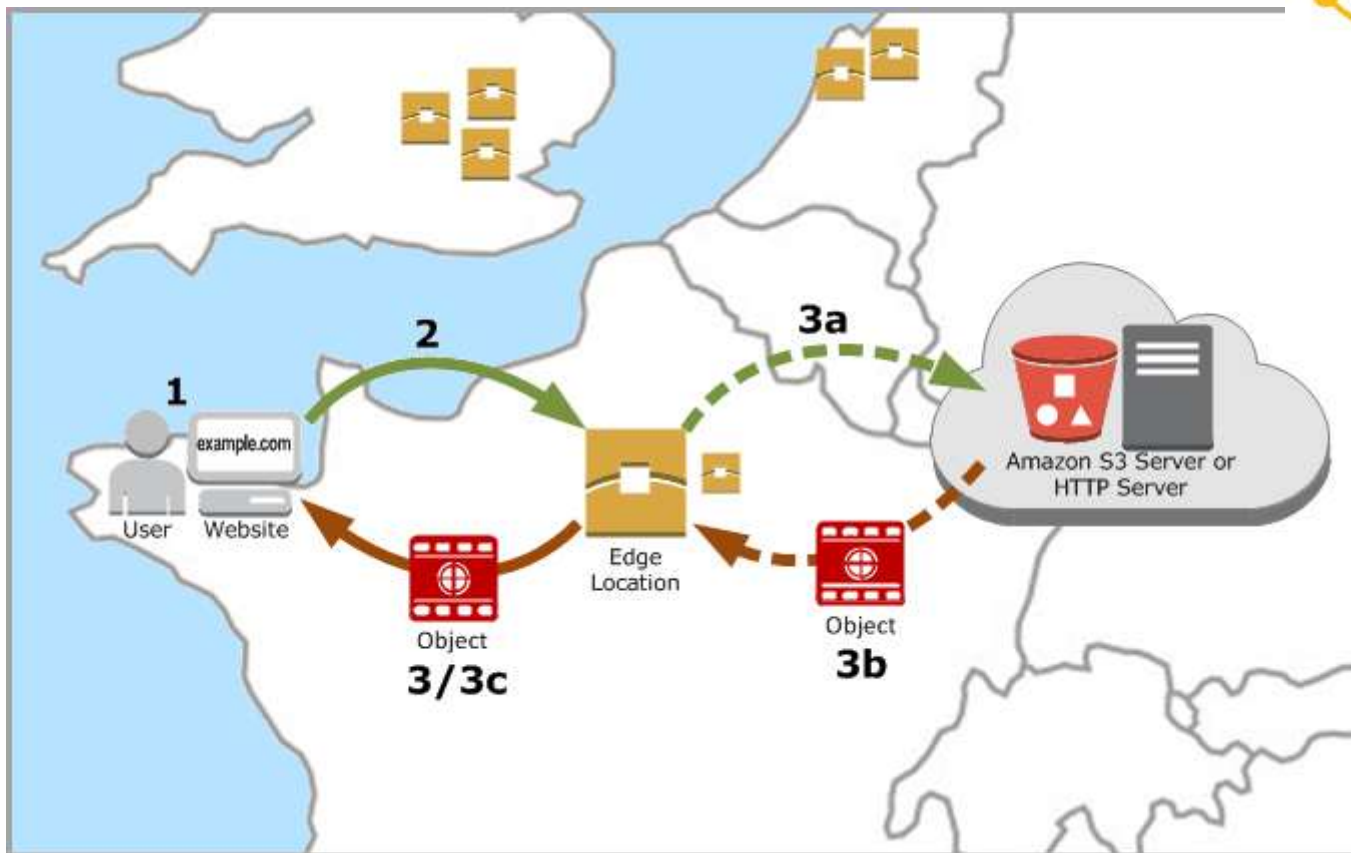▶ **CloudFront Distributions**

CloudFront Distributions

What is CloudFront?

- **Amazon CloudFront** is a web service that speeds up distribution of your static and dynamic web content, such as .html, .css, .js, and image files, to your users. CloudFront delivers your content through a worldwide network of data centers called edge locations. When a user requests content that you're serving with CloudFront, the request is routed to the edge location that provides the lowest latency (time delay), so that content is delivered with the best possible performance.
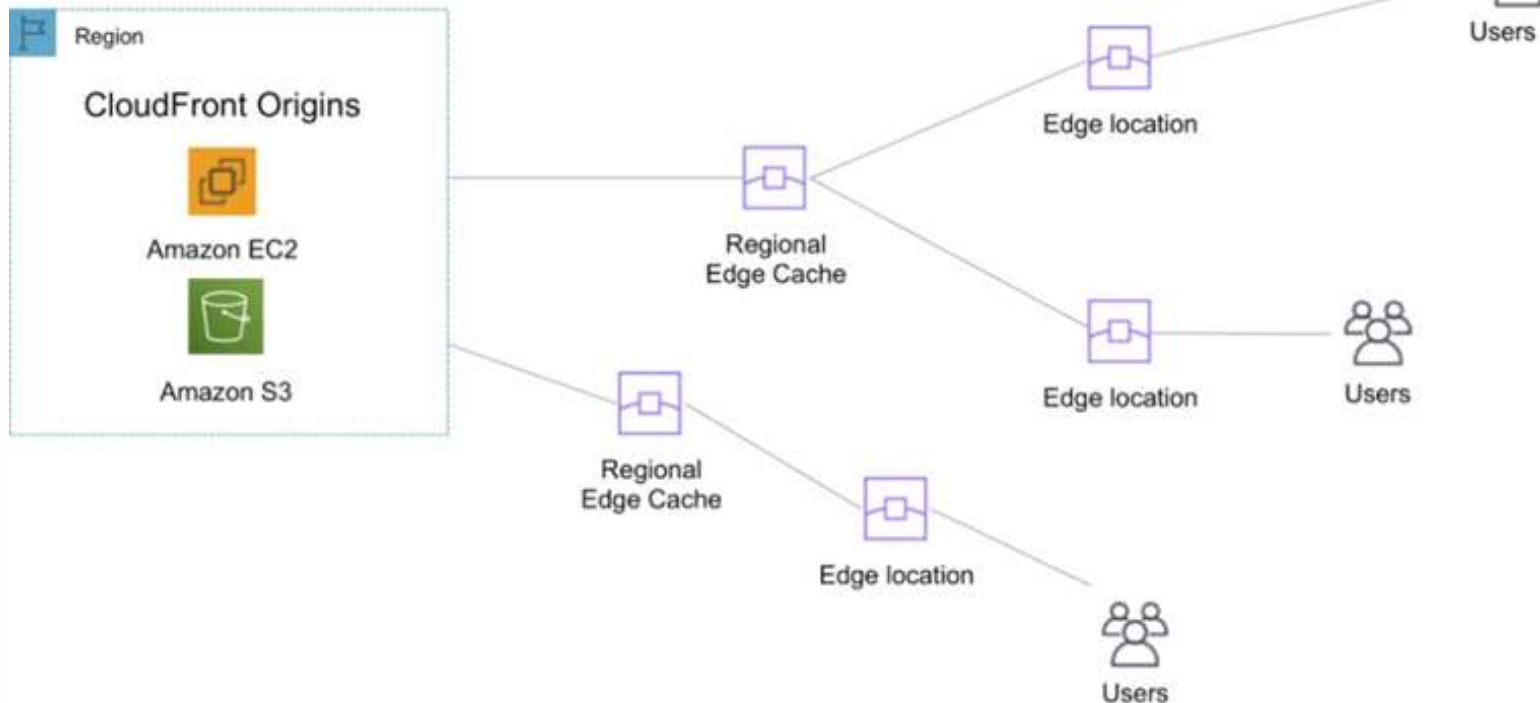
CloudFront Distributions
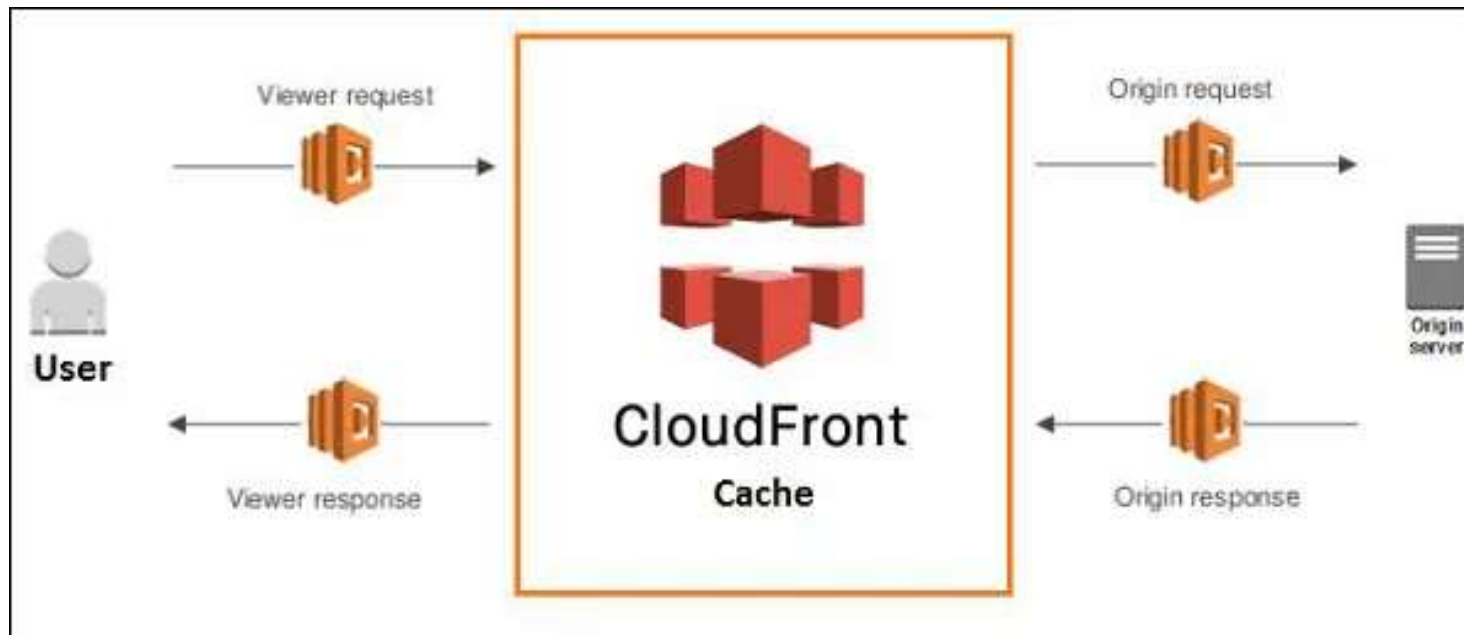
How CloudFront delivers content

CloudFront Distributions

How CloudFront delivers content

CloudFront Distributions

How CloudFront delivers content

CloudFront Distributions

Edge Locations

- AWS offers CloudFront service from data centres called Edge Locations spread around the world. These data centres are separate from AWS's regions and no other aws service can be deployed in these data centres and can only be used to receive CloudFront service.
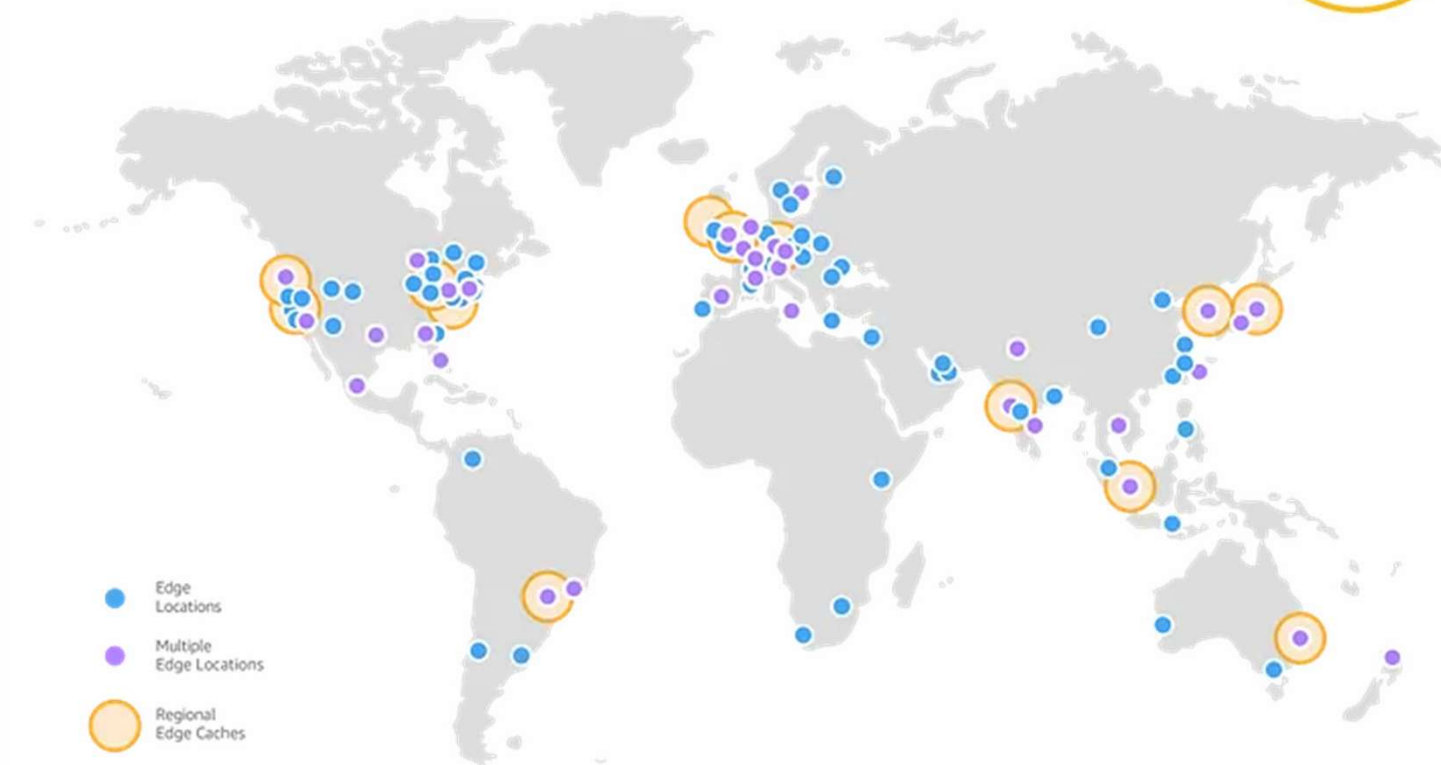
CloudFront Distributions

Edge Locations

- Amazon CloudFront uses a global network of more than 410 Points of Presence (more than 400 Edge locations and 13 regional mid-tier caches) in more than 90 cities in 48 countries to deliver content to end users with lower latency.

- https://aws.amazon.com/cloudfront/features/?nc=sn&loc=2&whats-new-cloudfront.sort-by=item.additionalFields.postDateTime&whats-new-cloudfront.sort-order=desc

CloudFront Distributions

Origin

- The component we refer to as Origins is the source of the files that will be distributed by Cloudfront. These can be S3 bucket, EC2 instance, Elastic Load Balancer, Route53 or a source other than AWS.

CloudFront Distributions

Distribution

- Distribution is a configuration defined in CloudFront that determines how content is distributed.

CloudFront Distributions

- Any cacheable data transferred to CloudFront edge locations from AWS resources incurs no additional charge. CloudFront charges for data transfers out from its edge locations, along with HTTP or HTTPS requests. Pricing varies by usage type, geographical region, and feature selection; options are priced below.
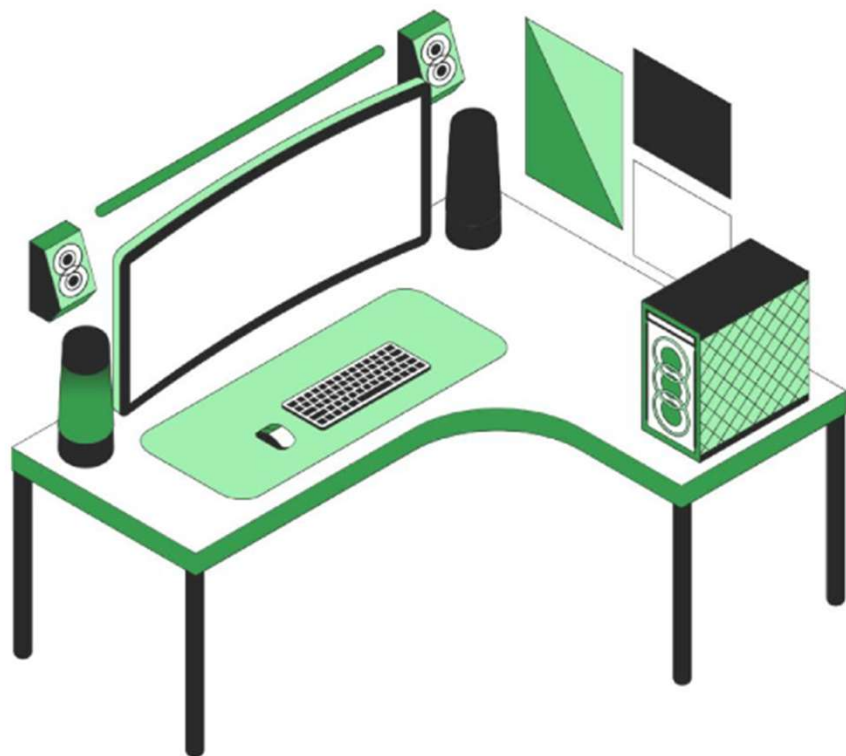
Do you have any questions?

Send it to us! We hope you learned something new.

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