



AWS CloudFront

Amazon Web Services

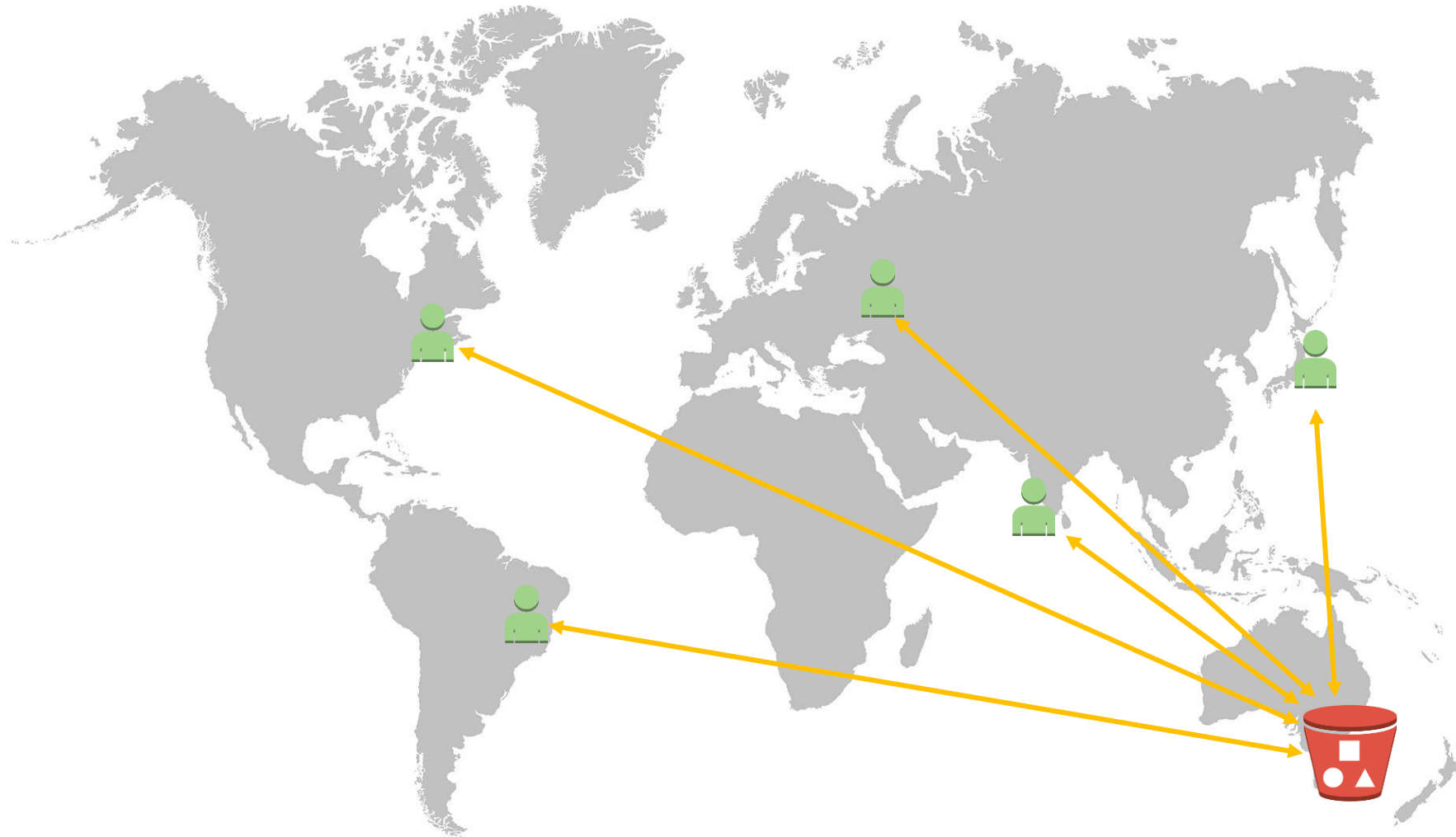
AWS CloudFront

Amazon CloudFront is a web service that speeds up distribution of your static and dynamic web content to your users. CloudFront delivers your content through a worldwide network of data centers called edge locations.

Users' requests served using CloudFront is routed to the edge location that provides the lowest latency, so that content is delivered with the best possible performance.

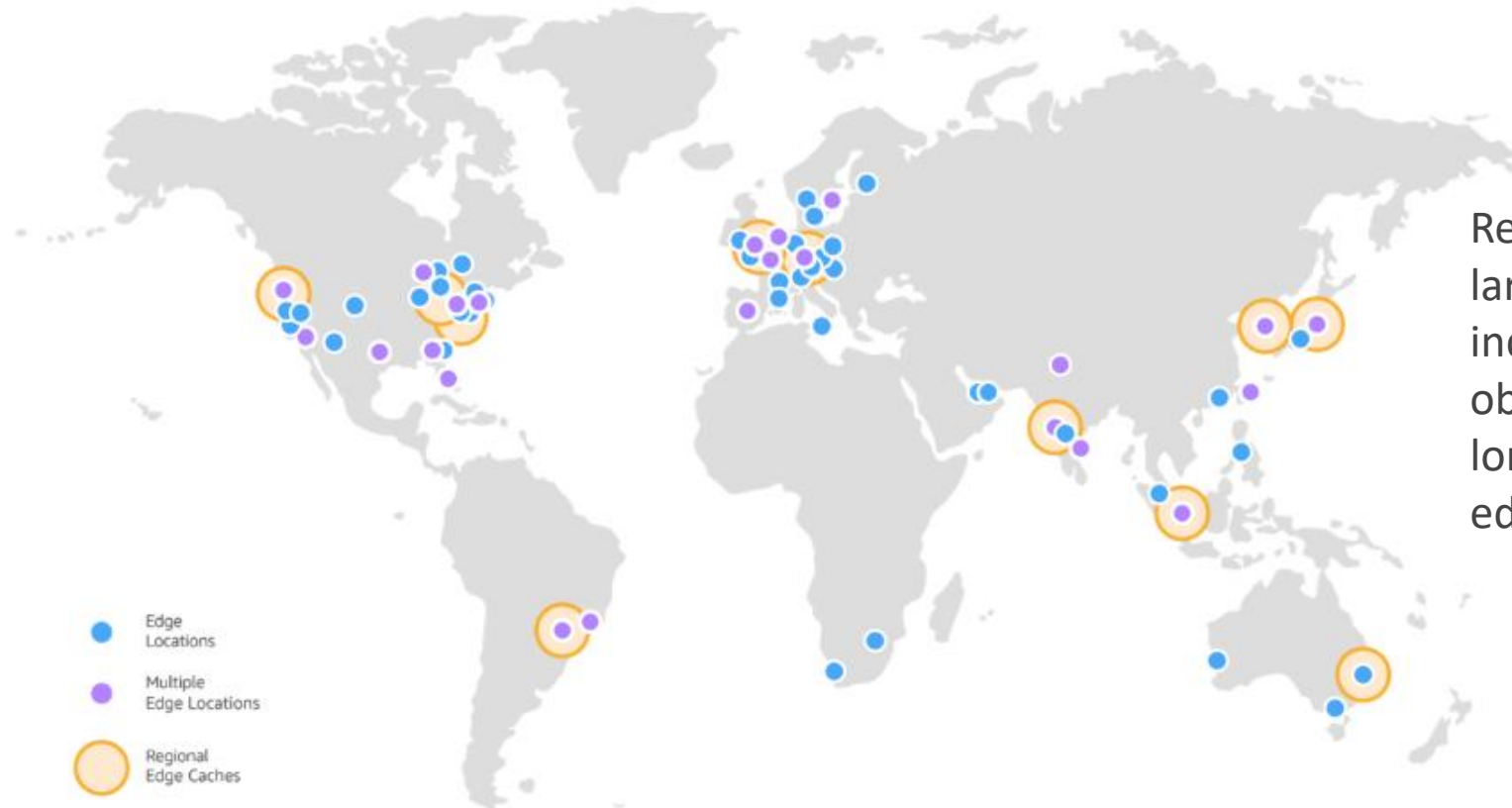


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To deliver content to end users with lower latency, Amazon CloudFront uses a global network of 160 Points of Presence (149 Edge Locations and 11 Regional Edge Caches) in 65 cities across 29 countries. Amazon CloudF

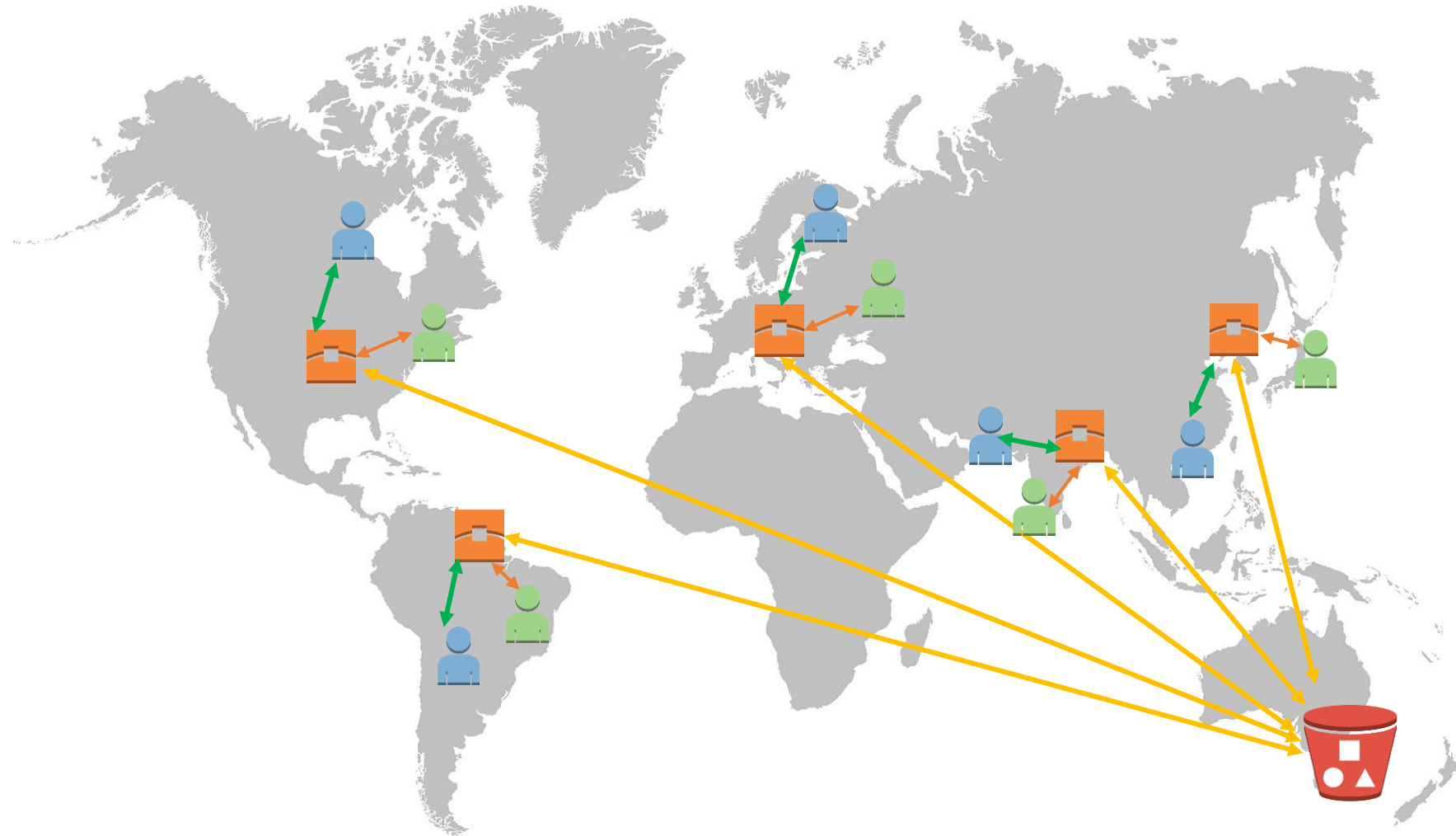


Regional edge caches have a larger cache than an individual edge location, so objects remain in the cache longer at the nearest regional edge cache location

Key Components

- **Edge Location** – This is separate from an AWS Region or Availability Zone. Edge Locations will store cache information of web sites and data. Edge locations are both read and write so you can write back to the Edge location which will update the origin files 
- **Origin** – This is where the original files are physically located that will then be distributed to Edge Locations for caching via the Content Delivery Network (CDN). These can be either S3 Buckets, EC2 Instance data like html files on a web server or Elastic Load Balancer. 
- **Distributions** – To use CloudFront, you have to create a distribution which is identified by a DNS name. To serve files from CloudFront, you then use your distribution domain name in place of your website 

How CloudFront Works



Types of Distributions

- **Web Distribution** – These are used to distribute content over HTTP and HTTPS and consist of:
 - Static and Dynamic content such as html, css, php etc
 - Multimedia content on demand using progressive download and Apple HTTP Live Streaming
 - Live events such as meetings, conferences and concerts in real time
- **RTMP Distributions**
 - Because you cannot stream Adobe Flash multimedia content over HTTP or HTTPS, you have to use RTMP distribution. RTMP can stream media files using Adobe Media Server using the Adobe Real-Time Messaging Protocol (RTMP). In addition, the source content must be an Amazon S3 bucket.

Next Video

Hands On Labs – Create a CloudFront Distribution