

AWS CloudFront

- Content Delivery Network (CDN)
- Improves read performance, Content is cached at the edge
- Improves users experience
- 216 Point of Presence Globally (Edge Locations)
- DDoS protection (Because worldwide), Integration with Shield, AWS Web Application Firewall

CloudFront – Origins:

S3 Bucket

- For Distributing file and caching them at the edge
- Enhanced Security with CloudFront Origin Access Identity (OAI)
- CloudFront can be used as an ingress (to upload files to S3)

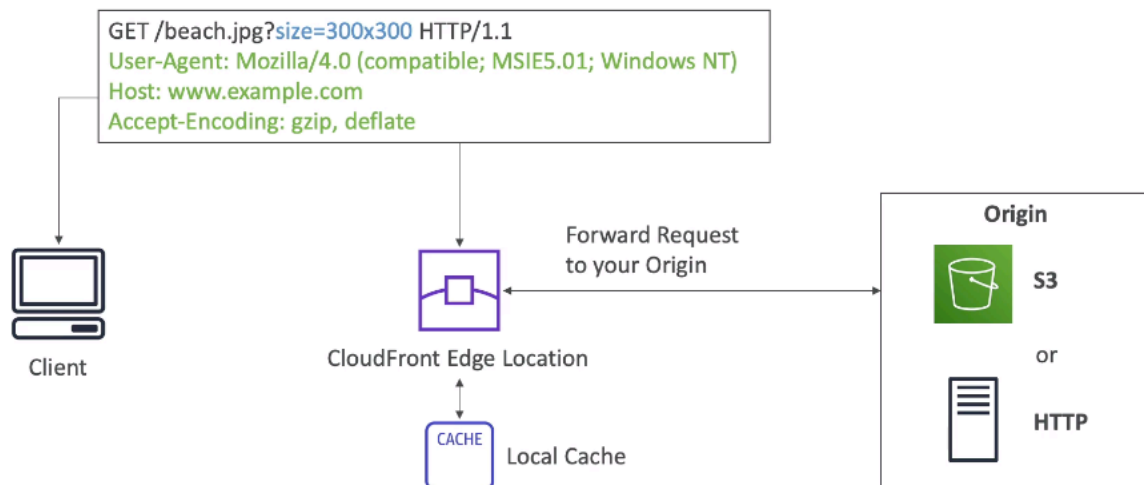
Custom Origin (HTTP)

- Application Load Balancer
- EC2 instance
- S3 website (Must first enable the bucket as a static S3 website)
- Any HTTP backed you want

CloudFront at a high level

If data available inside the cache then response from edge location catch.

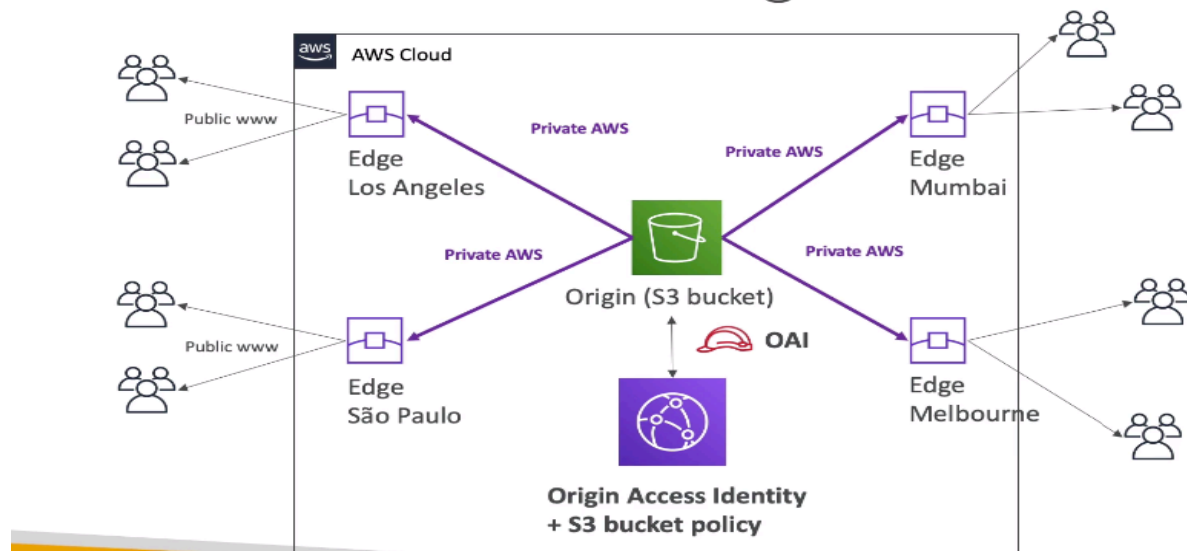
CloudFront at a high level



CloudFront -S3 as an Origin

OAI- Origin Access Identity

CloudFront – S3 as an Origin



CloudFront Vs S3 Cross Region Replication

CloudFront:

- Global EDGE network
- Files are cached for a TTL (maybe a day)
- Great for static content that must be available everywhere

S3 Cross region Replication:

- Must be setup for each region you want replication to happen
- Files are updated in near real-time
- Read Only
- Great for dynamic content that needs to be available at low-latency in few regions

S3 Transfer Acceleration

S3 Transfer Acceleration

- Increase transfer speed by transferring file to an AWS edge location which will forward the data to the S3 bucket in the target region

