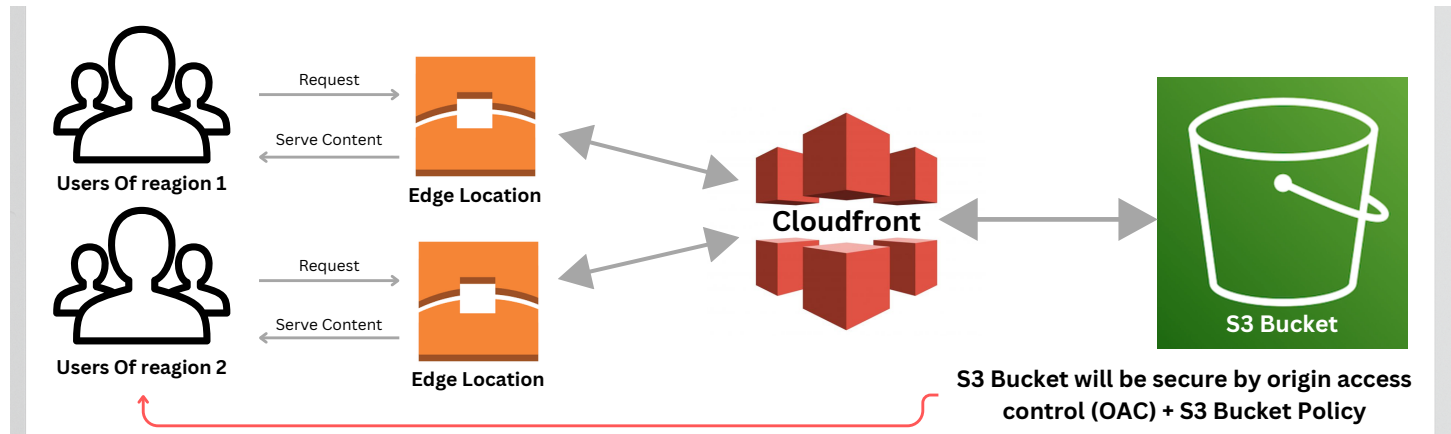


# About Amazon CloudFront



## Amazon CloudFront Service:

1. It is an Content Delivery Network (CDN)
2. It is a global service.
3. CloudFront is great for static content that must be available everywhere.
4. Files are cached for TTL (time to live).
5. It retrieves the data from S3 Bucket and distributes to multiple Edge Locations

## Use Cases

**S3 Bucket Location:** If you create an S3 bucket in the Australia (Sydney) region, the data stored in that bucket will physically reside in data centers located within Australia.

**CloudFront Edge Locations:** When users from America make requests, they are typically served from the CloudFront edge location nearest to them. CloudFront has multiple edge locations around the world, including many in the United States. These edge locations cache content and serve it to users from nearby locations to reduce latency.

**Cache Check:** When a user in America requests data that is not already cached at their nearest CloudFront edge location, CloudFront will check its cache. If the data is not available in the cache, CloudFront will retrieve it from the S3 bucket in Australia using AWS's private network.

**Data Transfer:** CloudFront retrieves the data from the S3 bucket over AWS's high-speed private network, reducing latency and providing secure data transfer.

**Subsequent Requests:** Once the data is retrieved from the S3 bucket in Australia, CloudFront edge location keeps the copy of data. So, that if another user from same region requests for the same data can then be served directly from the CloudFront cache.