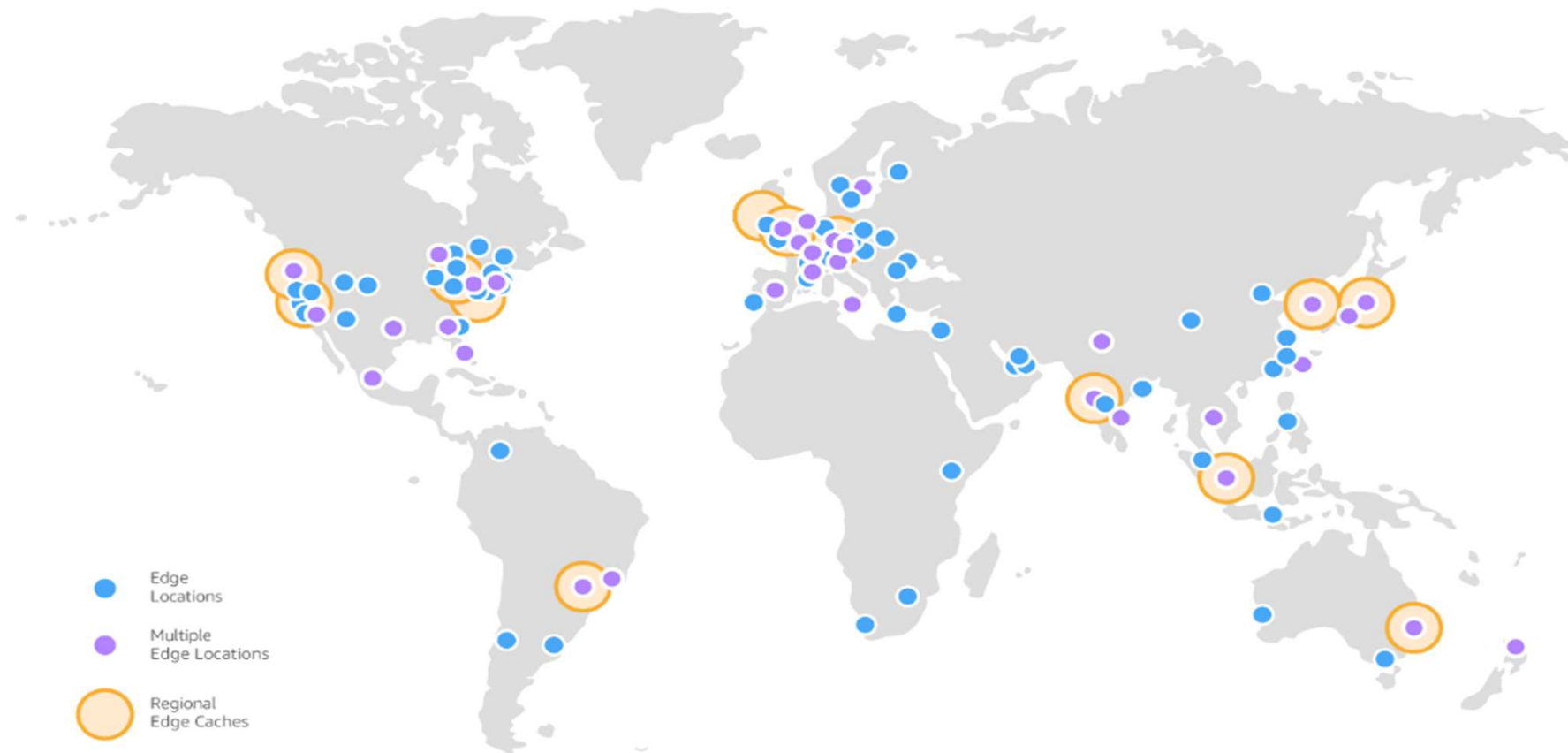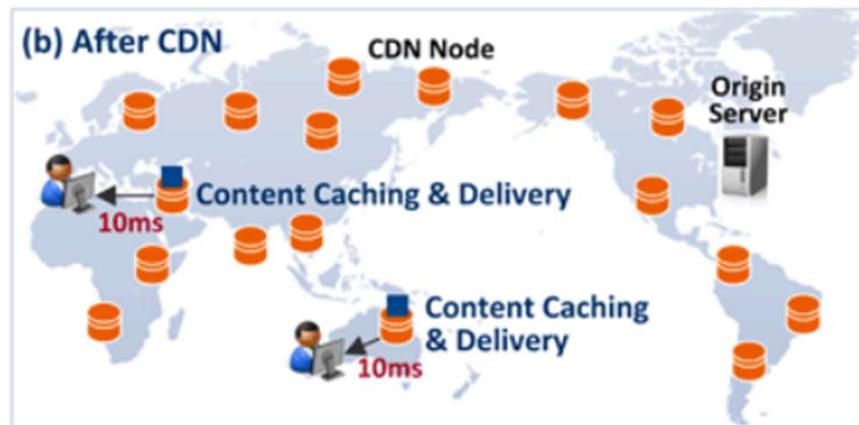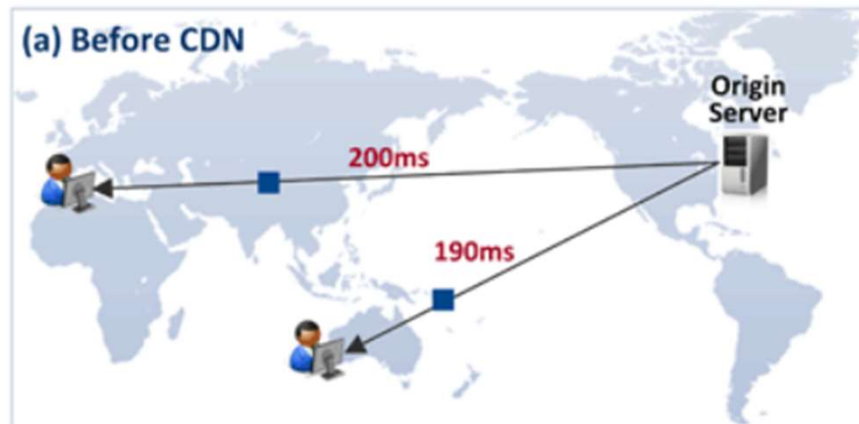# Amazon Cloud Front

Amazon Cloud Front

What is AWS CloudFront?

Amazon CloudFront is a web service that speeds up the 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.

Amazon Cloud Front

Amazon Cloud Front

(a) Before CDN

Origin Server

200ms

190ms

(b) After CDN

CDN Node

Origin Server

Content Caching & Delivery

10ms

Content Caching & Delivery

10ms

CDN (Content Delivery Network)

Amazon Cloud Front

How does Amazon CloudFront deliver content?

Once an Amazon S3 Bucket or HTTP Server is set up, a CloudFront distribution is created to tell CloudFront where you want the content to be delivered and details about tracking and managing content delivery.

CloudFront then uses edge servers that are close to your viewers to deliver content quickly when someone accesses it.

Amazon Cloud Front

Amazon Cloud Front

How does Amazon CloudFront deliver content?

CloudFront speeds up the distribution of your content by routing each user request through the AWS backbone network to the edge location that can best serve your content. Typically, this is a CloudFront edge server that provides the fastest delivery to the viewer.

Amazon Cloud Front

Benefits and Features of AWS CloudFront

✓ **Globally**

There are 450+ edge locations across the globe. The number of edge locations enables the end-user to use your content without any latency.

✓ **Fast**

Amazon CloudFront provides a high data transfer rate since the content is already cached in the nearest edge location; it gives the end-user a lightning-fast speed delivery of the content.