dws Cloud front CDN

De Cloud front + Amazon clouelfront is a Content Dolmery Network (CDN) that Securely cleliners data, videos, applications and APIs to eisers globally with love latercy & Righ tromsfer speech.

AUS Cloud front is a content delivery vetwork (CDN) that speeds lip the delivery of such content to evers by caching it of surers (edge locations) close to them, improving load times and performance globally improving load times and performance globally

Core Concept 1. Edge gocation + A data center where content is cached cloud front has 600+ worldwide.

2. Origin! The source of the content (cg, on \$3 bucket, Eco Dristance, or curtom source) on \$3 bucket, Eco Dristance, or curtom source)

3. Distribution: A setup that talls Cloud/ront

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4 row to serve content. There are two

types: Web and RTMP.

To Cache Behaviour - Trules that defines four cloudy sont versponds to very ests (eg, which methods are allowed, TTI setting),

50 TTL (Time to Line) 1- The amount of time Cloud front caches content at edge locations.

Working and properties

1º User vequests content (eg, afile or image).

2. Cloud front uchecks the nearest edge Jocation.

3. - y cached, it serves the file immediately.

→ if not cached, it fetch from the origin, cache it, then servers.

J future realists are fastes because they're Somed from the early cache.

SELVISSE HISTORICAL SET BENEFICIAL PROLITY OF

Configuration Tels

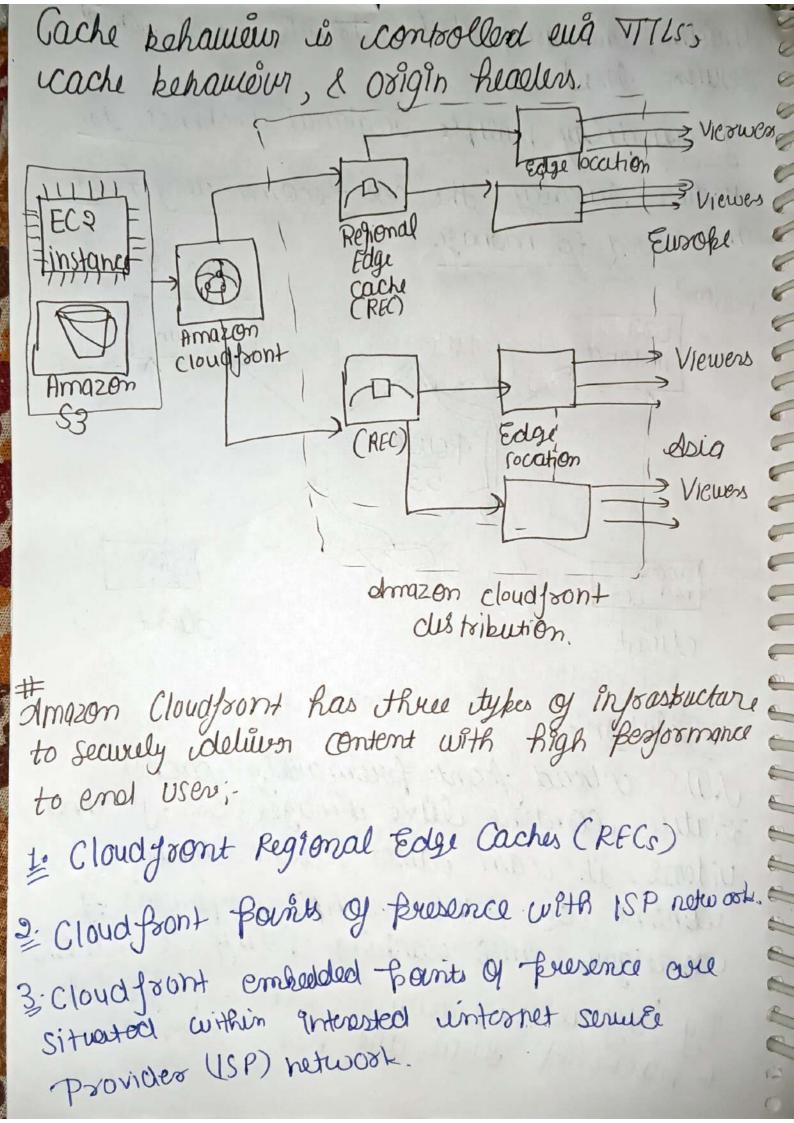
- 1º Create an S3 bucket (or wither Origin).
- 2. Ilphoad subsite or content.
- 3. Go to Moudfront Console > Create
 Distribution
 - e Choose cuelo distribution
 - e Set your origin (e.g., S3 bucket).
 - configure cache behouseur, SSL, logging,
- g. Get the Cloud front domain URL (e.g. d1930bc.cloudfoont.net) and euse it wis your alp.

#-Problems: Global Laterray & Righ Cost with Route 53 dlane Route 53 dlone

- 2. Route 53 only does DNS resolution It does not optimize content deluies.
- 2 Your Origin server (c.g. S3, EC2) in one region - ours for John the region emberience high lateray and delay.
- e Every requeste hit the origin sever



Edwectty, increasing idata tronger cost and scruer lead. regional unstance to = If you delay multiple cost becomes very high one hard to manage. Region-9 Region 1 EC2 instam EC? instance Route Leda Ecs Olient clunt Solutioni AWS cloud front frumarilly caches statul content live images, CSS, JS. and videos. It can also cache dynamice content (C.9, HTML or API versonses) if configure enith caching folicy & Reader By default, sonsituire or user-specific data L' packenel Jogia are not carred.



Browser act like a mini-CDIY by caching lubrite files (like images, crs, or of remarcipe locally con a liver's deluce, which speed up localing you repeat visits.

Only helps includuals users.

Included in Always free ties

- e 178 of data tronger out to the Internet fer wints.
- e 10,000,000 HTTPS OF HHP request per mon
- e 2,000,000 cloudfront function invocations for month.
- 2 2,000,000 cloudfront they value stal vecall for month.
- e gues SSL costificates
- , no limitations, all features caucilable.

frey feautures

= global Edge Network: low latency, high
availability.

- Security: Integrate with Aws shold, WAPS

 ACM (SSI/TLS).
- 2 decess Control & Tinged URLS, cookies for frivat
- Content.

 Real-Time Metrices: Via Cloudwatch & logs.
- Content Versienry: Use cache invaldation or versioned URLs

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