

How Giphy uses CDN to serve millions to GIFs



BY ARPIT BHAYANI How Giphy uses CON to Serve millions of GIFs

Giphy: host, serve and search GIFs

10 Billion content served every day

Serving API is easy and efficient

But the real challenge is serving Images!!

because API responses are shart

because images | videos are large

Hence to serve them efficiently we need CDN!!

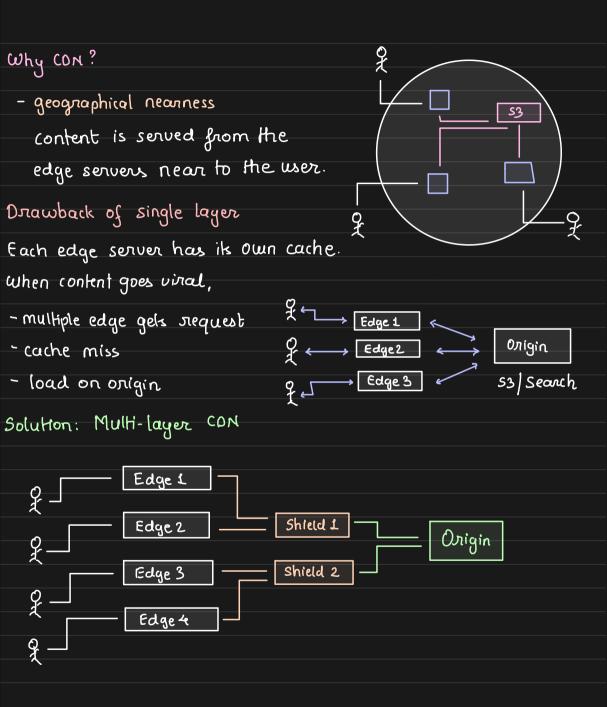


What Giphy caches on CDN?

Because responses do not change often

Search and Discover API responses

/v1 | gifs | trending /v1 | search ? q = funny



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Route specific TTL Not all content is cached for the same duration /vi/gifs/trending -> cached for smaller duration /gif/ 12345.gif -> cached for longer duration Response configured caching Response headers max-age and s-maxage can tell CDN the duration of caching for specific Origin response Cache invalidation by grouping - invalidate cached API responses that contains a specific GIF - invalidate all cached API responses from an API key Liphy provides SDK and API support - Invalidate cached API responses where query contains word w' because something new came up all of this is achieved through Surrogak Keys

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