

Cloud Front CDN

- Uses DNS to geo-location to route request to nearest location (edge location)

How it Works

- Edge location receive request (HTTP or HTTPS)
- If has cached object for that path/query returns it
- If not get the object from origin and stores it in the Edge location for default of 24 hours or details specified in Cache-Control header in response

- Can be used to stream audio/video through http and RTMP
- You can have multiple origins for single

Components

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## Distributions
- endpoint
- creates domain
- you can map your site to it using CNAME
## Origins
  Source of the data
  - S3 bucket
  - EC2
  - ELB
  - URL
  - One distribution can have multiple origins, see cache behaviour
## Cache Control
- By default 24 hours
- Can be changed using Cache-Control header from the response
- Can be overridden by setting fixed cache time
- Can be invalidated using API. Invalidatation is forgetting all cached
content
  - use versioning:
    - /api/v1/something
    - /api/v2/something
## Cache Behaviours
- Allow to have different cache origins and policies for different content
- Configuration
  - Path pattern (*.jpg, *.aspx)
  - Origin
  - Query string forward (boolean)
  - Signed URL needed or not
  - Hhttps required
  - TTL (ignore Cache-Control header)
- you should have default (*) cache behaviour
- cache behaviours are applied in order, first matching is used.
```

Private Content

- Signed URLs - time restricted url, might also be IP restricted
- Signed Cookie
- Origin Access Identity - you can secure bucket to allow access only from CloudFront