

Cache-control values

private -> Content can be cached on client

public -> Content can be cached on public

proxy cache 4 can be shared among users.

no-store > Content is not cached falways

get fresh copy from origin serve

no-cache > Content can be cached but client

most validate before using

max-age > defiend in seconds (TTL)

must-revalldate > force the browsey to validate

the stale content. Sometimes, if server is not rechable browsers serve the stale content, this value prevent the behavious Example

S-max-age = 600,

must-revalidate

client cache

proxy cache

can be cached in public cache cannot serve stale cached content.

Validation Header.

cache-control: max-age = 3600,

=> private cache TTL = 3600 sec (1 nr)

public cache TTL = 600 sec (10 mins)

eTay > is a arbitary value generaled by the serves.
There is no restriction on how the value of

etag must be generated. (Hash, version)

If -None-Match -> used by client to validate

the resource from origin server using etag.

Example

if the etag for <u>index.html</u> resousse is 33a64df5

Content-Type: tent/hsml
Content-Length: 1024
Date: Tue, 22 feb 2024 22:22:22 GMT
FTag: "33a64df5"
Cache-control: man-age=3600

Once the resource is stale client will send a validation request

GET linder. html

Host: example.com

Accept: text/html

If-None-Match: "33a64df5"

if resource still has some etag or 200 OK along with updated resource of new Etag Last-Modified / If-Modified-Since -Server send the last modified into along with other cache-control into.

The server will neturn 304 Not Modified

validation header to validate resource
- Server can respond to validation request with 304 Not Modified or 200 0x along with update Resource

- Client use this into in It-Modified-Since

header are present the client will us

If-None-Match of If-Modified-Since

both to validate the resource

If both Etag & Last-modified validation