

[HTTP Caching]

↳ Why we need?

E.g → Simple website having 10 images which hardly change.

* Everytime Browser refresh → GET request for each image (Bandwidth wastage)



What if we have some headers in HTTP which tells browser/client to cache the data?



Two types

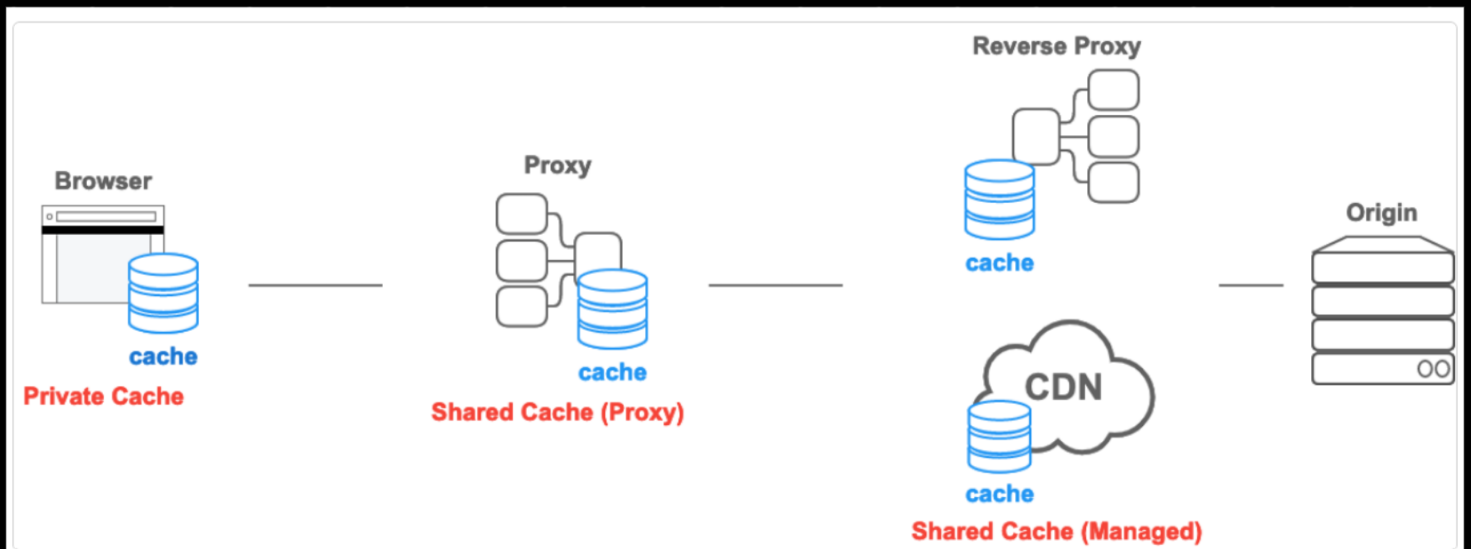


Browser Cache

Proxy server, CDN
etc.

Proxy
Caches

Managed
Cache
(CDN)



* [Cache-control header]

- ① Cache-control : **public** → can be cached by any cache
- ② Cache-control : **private** → Not for shared cache

- ③ Cache-Control: no-cache → goes to origin server
- ④ Cache-Control: no-store → no caching

Best Practices

1. Static Assets:

- Use `Cache-Control: public, max-age=<large-value>, immutable` for versioned files (e.g., CSS, JS).

2. Dynamic Content:

- Use `Cache-Control: no-cache` or `private` for user-specific data.

3. Sensitive Data:

- Use `Cache-Control: no-store` for sensitive or confidential information.

4. CDN Integration:

- Leverage `s-maxage` for cache settings specific to CDNs.