

Why and when using HTTPS?

HTTPS = HTTP + TLS

➔ TLS provides

- confidentiality: end-to-end secure channel
- integrity: authentication handshake

✓ **HTTPS everywhere**

HTTPS must be used for all requests and response without any exception

The problem of **Mixed-Content**

Mixed-content happens when:

1. an HTTPS page contains elements (fetch request, js, image, video, css ...) served with HTTP
 2. an HTTPS page transfers control to another HTTP page within the same domain
- ⦿ Authentication credentials (a.k.a cookies) will be sent over HTTP
 - ⦿ Modern browsers block (or warn about) mixed-content