

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