Why and when using HTTPS?

HTTPS = HTTP + TLS

- → TLS provides
 - confidentiality: end-to-end secure channel
 - integrity: authentication handshake
- → HTTPS protects any data send back and forth including:
 - login and password
 - session ID

✓ HTTPS everywhere

HTTPS must be used during the entire session

Be careful of mixed content

Mixed-content happens when:

- I. an HTTPS page contains elements (ajax, js, image, video, css ...) served with HTTP
- 2. an HTTPS page transfers control to another HTTP page within the same domain
- authentication cookie will be sent over HTTP
- Modern browsers block (or warn of) mixed-content