CSE/EE 461 – Lecture 24

Network Security II

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SSL/TLS and HTTPS

- Secure transport layers targeted at Web transactions - SSL/TLS inserted between TCP and HTTP to make secure
 - HTTP
- Extra handshake phase to authenticate and exchange shared session parameters
 - Such as secret keys used for encryption
 - Client might authenticate Web server but not vice-versa
 - Certificate Authority embedded in Web browser
- Performance optimization
 - Refer to shared state with session id
 - Can use same parameters across connections
 - Client sends session id, allowing server to skip handshake

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