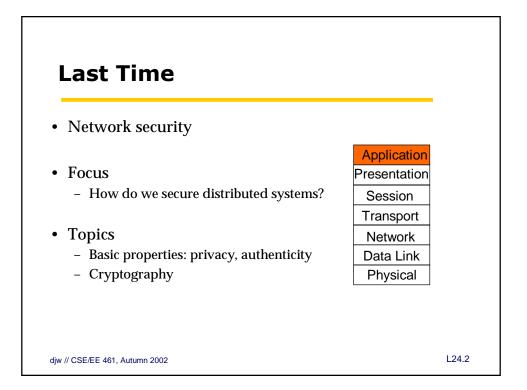
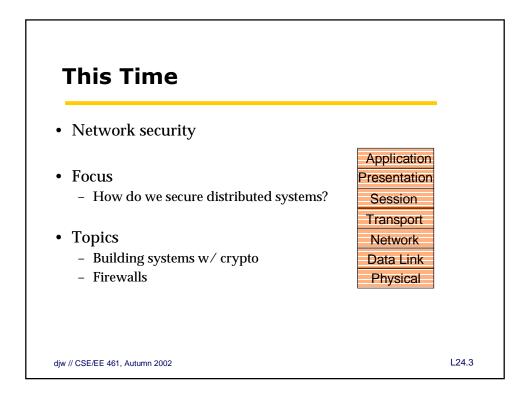
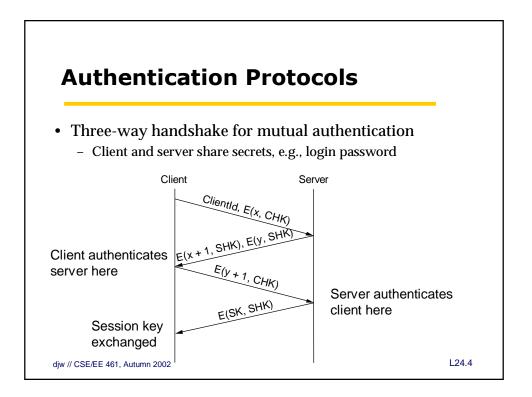
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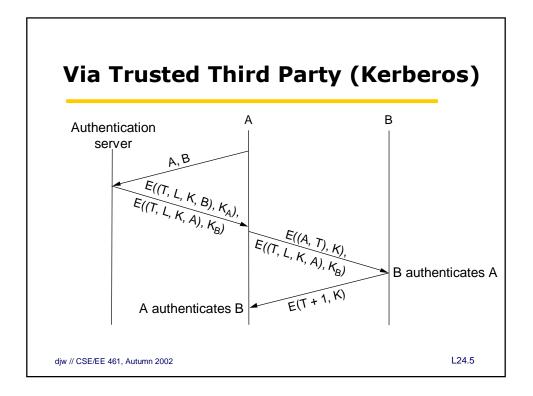
Network Security II

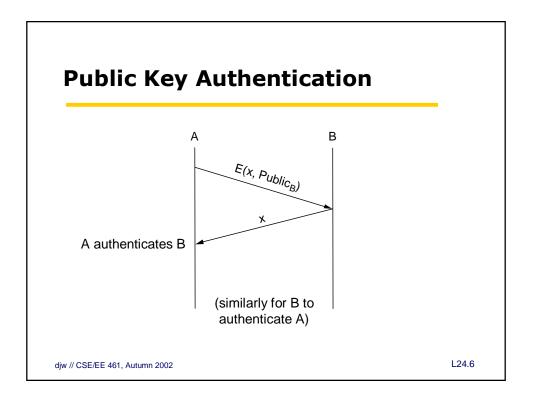
David Wetherall djw@cs.washington.edu

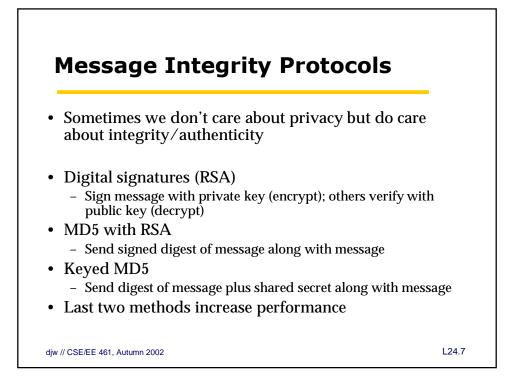


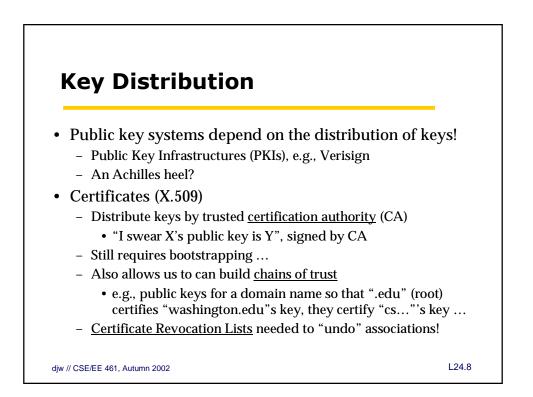


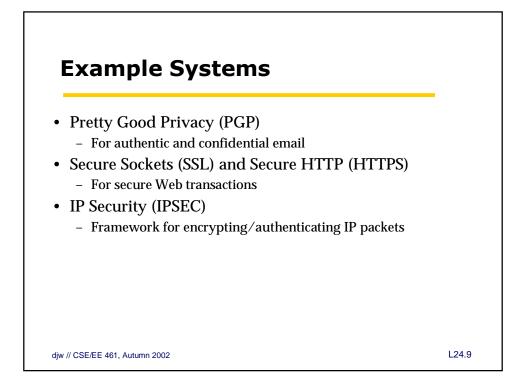


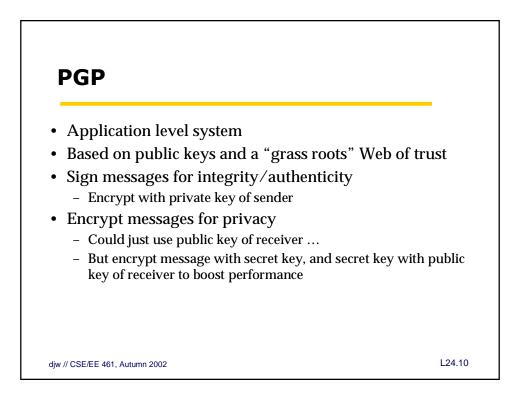












SSL/TLS and HTTPS

- 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

L24.11

djw // CSE/EE 461, Autumn 2002

