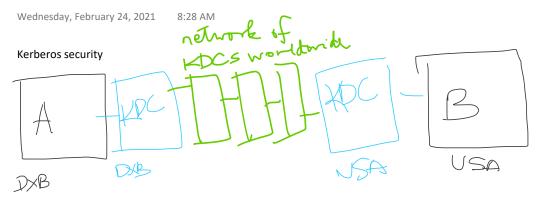
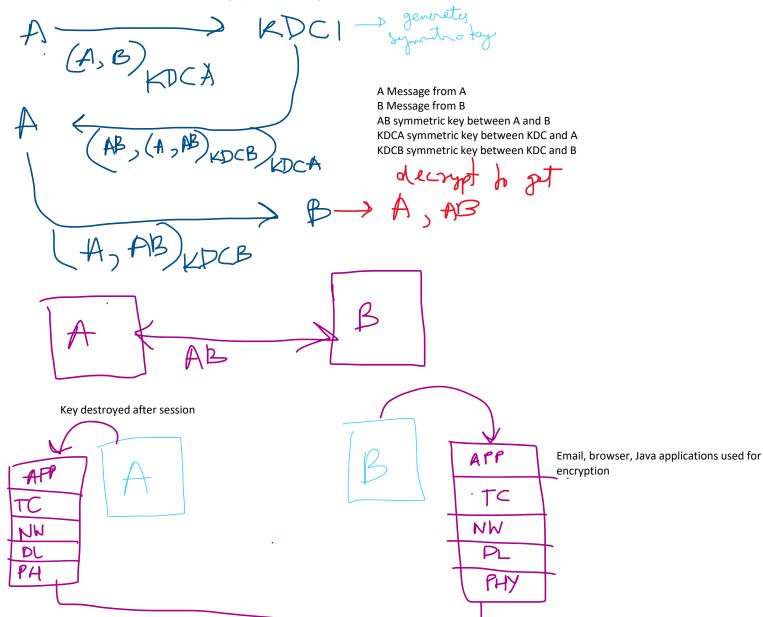
4. Kerberos + SSL



A and b want to communicate using symmetric key cryptography using KDC A proves herself to KDC Dubai using credentials KDC dub provides her with a symmetric key only between A and KDCDubai

B also does the same and gets a symmetric key between him and the local KDC

All KDCs have access to their client's keys (via a secure impenetrable network)



(FHY

Applications that I develop should not have to handle confidentiality and integrity issues Transport or IP layer can encrypt and decrypt data Application layer becomes minimal

Security at many layers (application, transport, network, data link)

SSL Security

Secure socket layer At transport layer

HTTPS has SSL security



- 1. A will verify integrity of the certificate and confirm it is from Amazon
- 2. A will extract public key from Amazon
- 3. A Generates random symmetric key
- 4. A Encrypts it with public key of Amazon
- 5. Amazon sends HTTPS response and HTML page encrypted with shared symmetric key

Similar to hybrid cryptography
Only server has to prove identity, not the client