Transport Layer Security (TLS)

Trust

- Client has to trust CA
- CA digitally signs certificate to confirm ownership of a public key
- Client uses pre-installed CA certificate to get CA public key
- Client can now verify digital signature

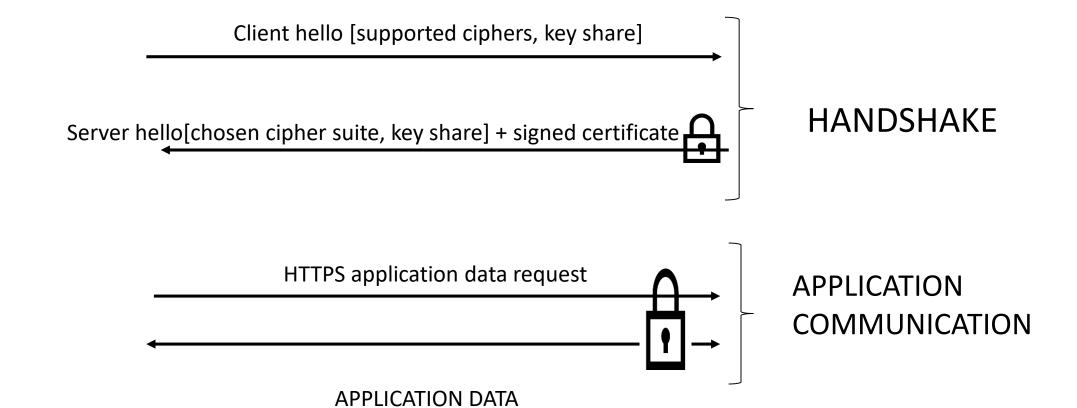
Public Key Infrastructure (PKI)

 The set of hardware, software, people, policies, and procedures that are needed to create, manage, distribute, use, store, and revoke digital certificates

Transport Layer Security (V 1.3) CLIENT

This padlock symbol indicates messages are encrypted

SERVER



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(Perfect) Forward Secrecy

Keys to encrypt and decrypt are ethereal such that they are only used within that communication session

This means, even if a key is broken the past and future communications remain confidential