

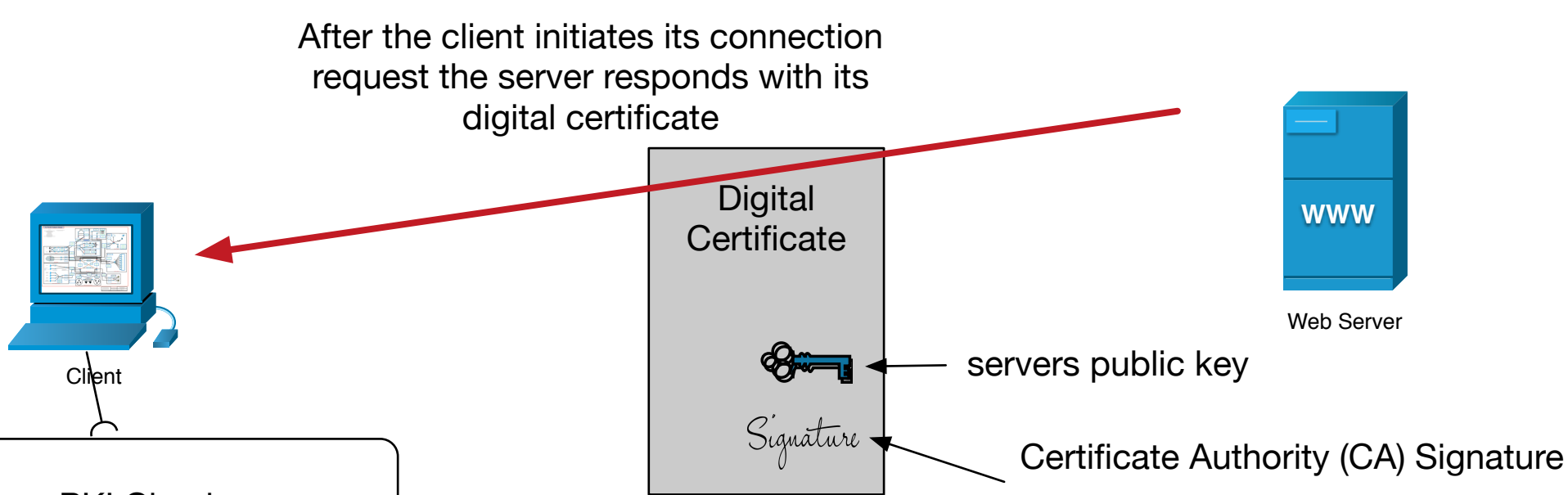
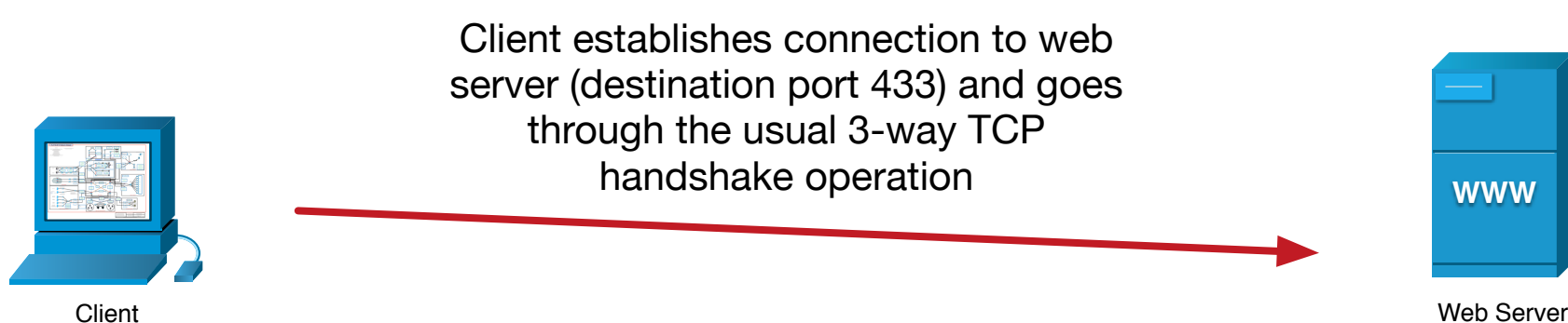


Operation of SSL

This outlines the order of operations when a client connects to a secure website using SSL through HTTPS

Legend

- Public Key of Server
- Private Key of Server
- CA Signature
- Private Shared Key
- Data Encrypted with a private key
- Unencrypted data



PKI Checks

- > Does the browser trust the CA signed the certificate?
- > Are the dates on the certificate valid?
- > (Optional) Is the serial number *not* on a CRL (certificate revocation list)

A signature is a hash encrypted with a private key. Most browsers have built in certificates and public keys for the mainstream CAs on today's internet

ALL YES?
Client extracts the public key

