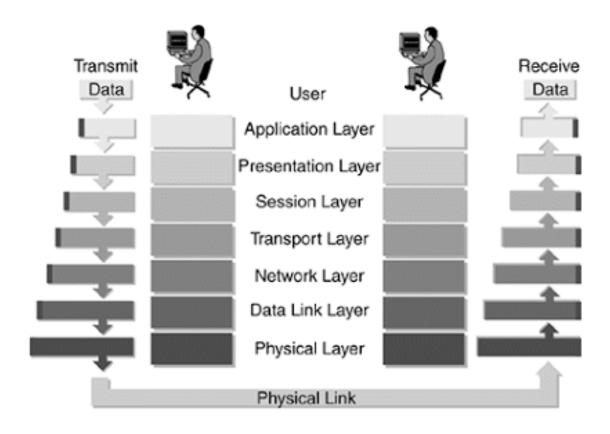


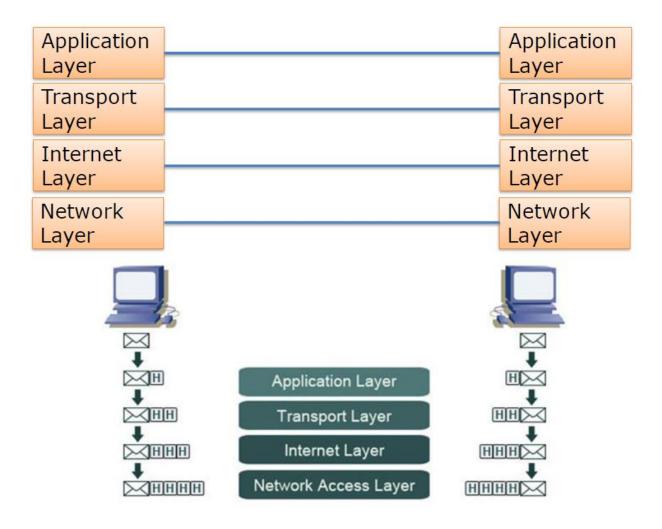
NETWORK

INTERNET / HTTP / SECURITY / HTTPS / SERVER

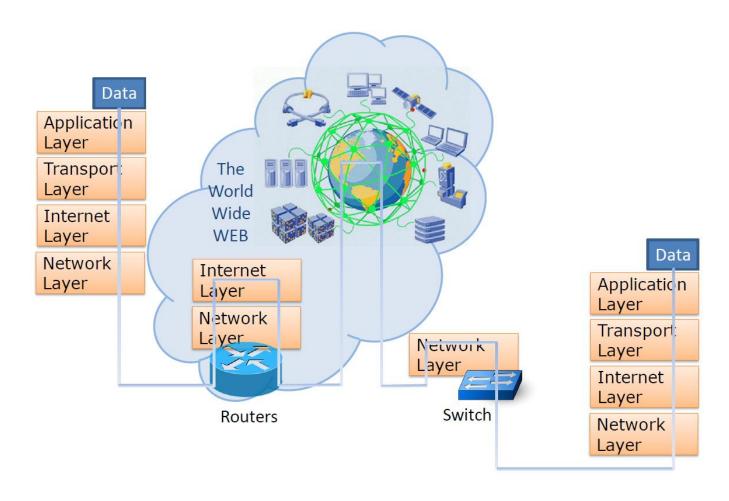
OSI Model



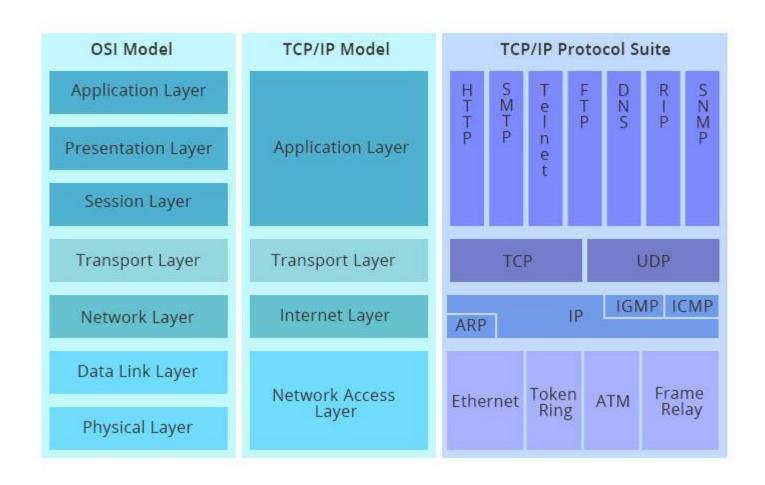
TCP/IP Model



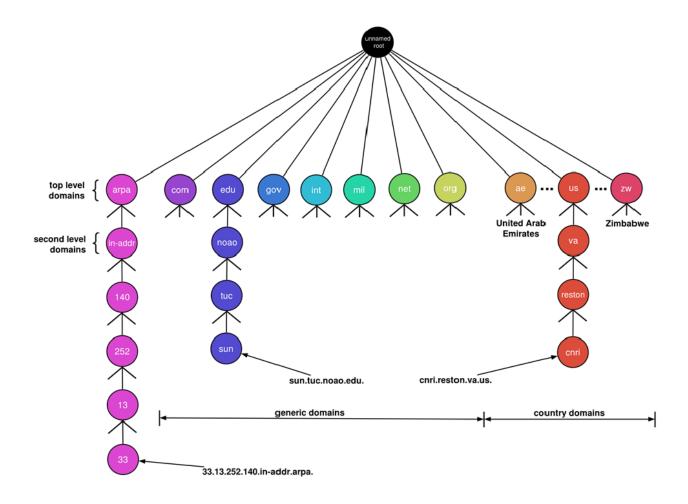
TCP/IP Model



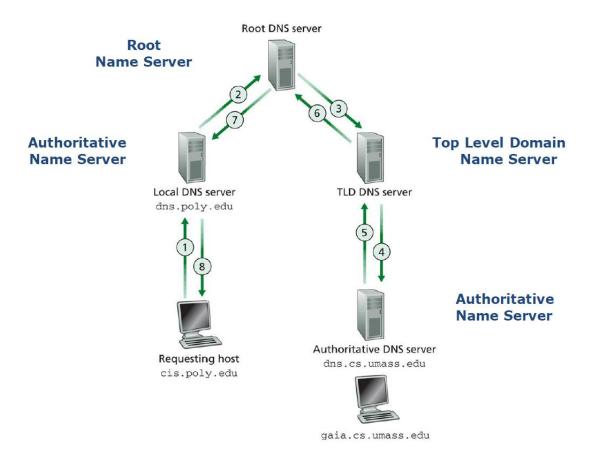
OSI <-> TCP/IP



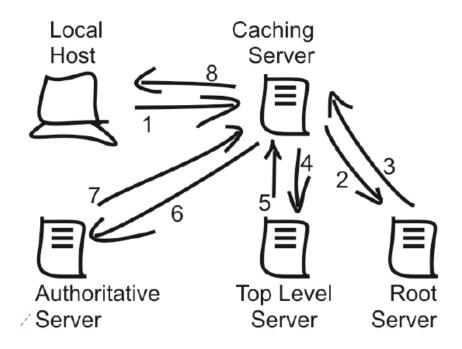
DNS



DNS



DNS



- 1: Request caching server for domain name
- 2: Request not found in cache, request root server for top level server
- 3: Return top level server
- 4: Request top level server for authoritative server
- 5: Return authoritative server
- 6: Request authoritative server for IP address
- 7: Return and cache IP address
- 8: Return IP address



INTERNET

Commands

Ipconfig / Ifconfig

Ping

Tracert / Traceroute

Pathping

Netstat

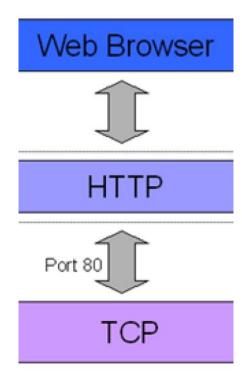
Nslookup

Whois.com

Whatismyip.com

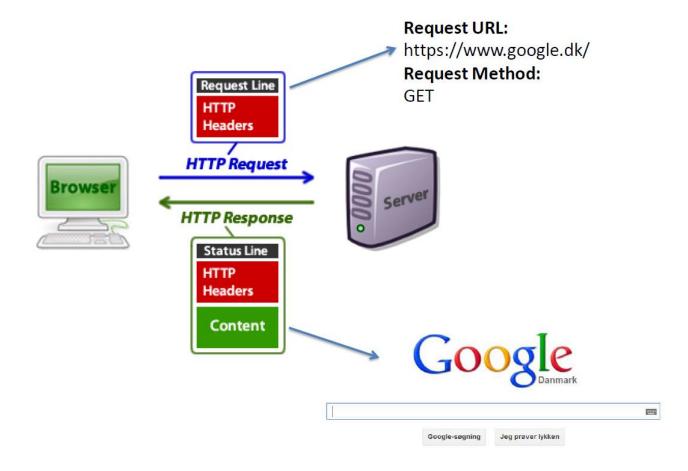


HTTP

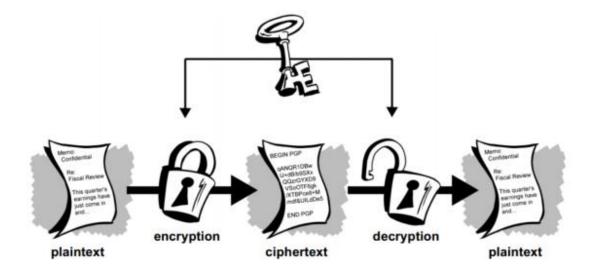




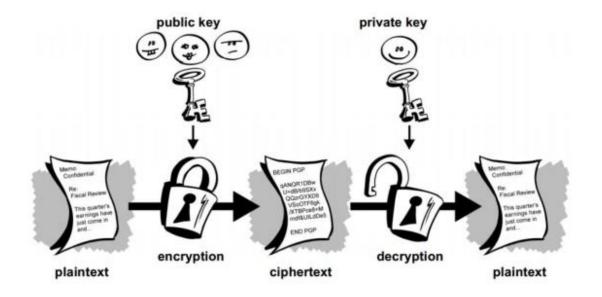
HTTP



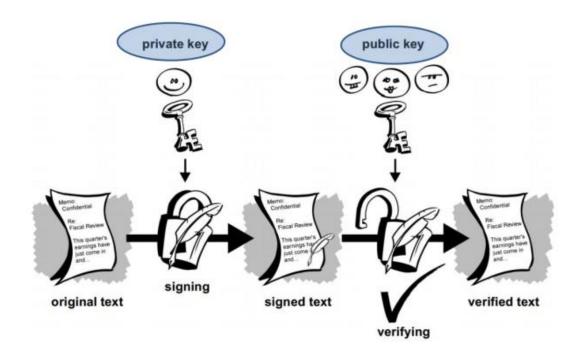
Symmetric key cryptography



Asymmetric key cryptography



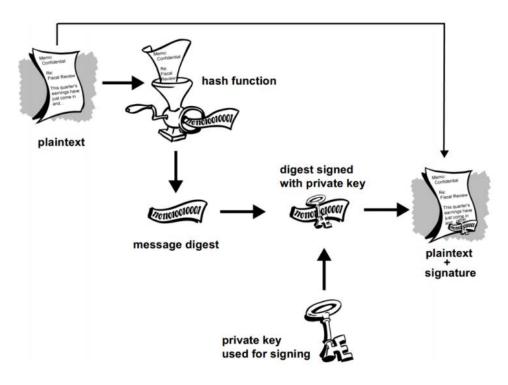
Digital signature



Signing whole document



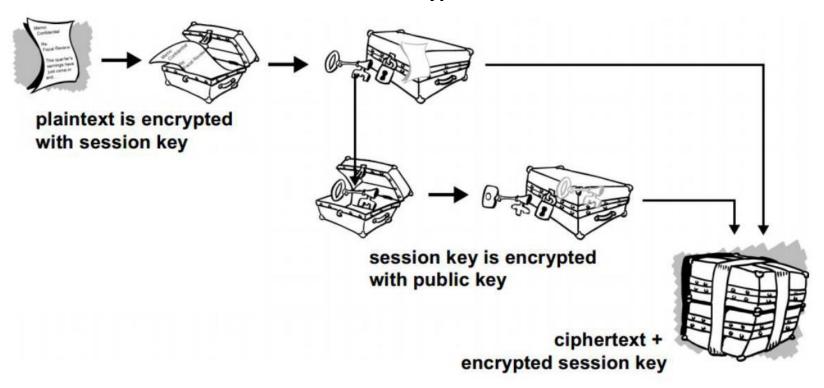
Digital signature



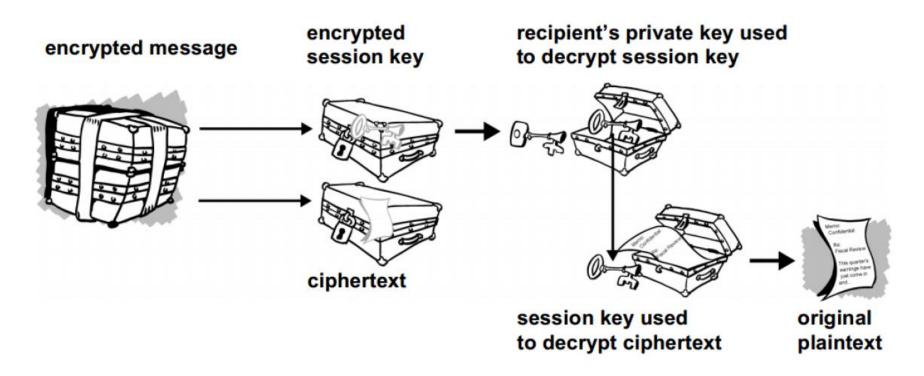
Signing a digest



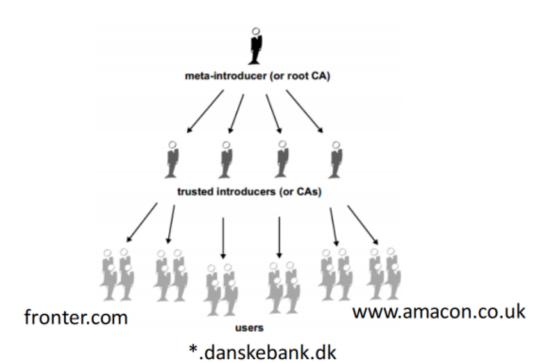
PGP encryption



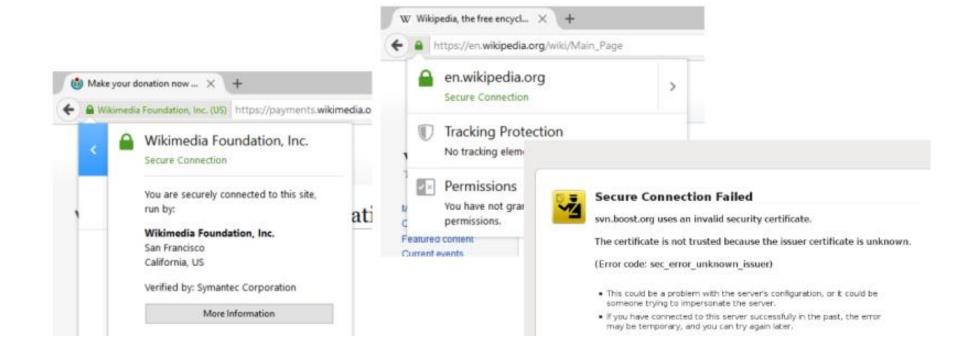
PGP decryption



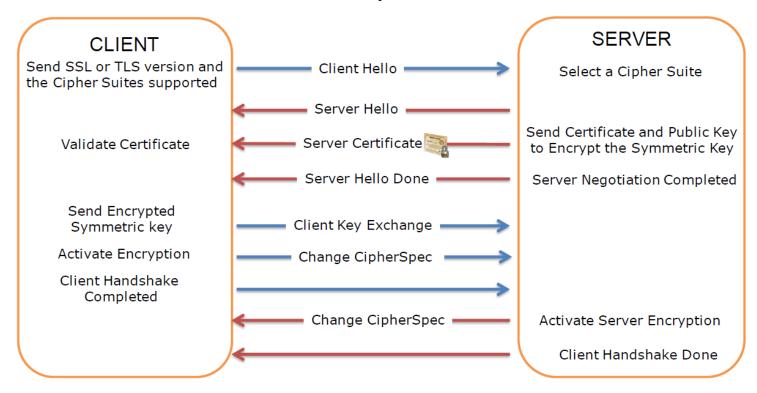
Digital certificates



Digital certificates

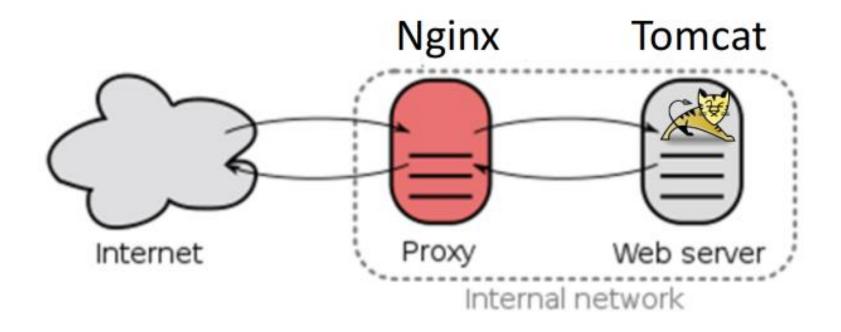


TLS/SSL



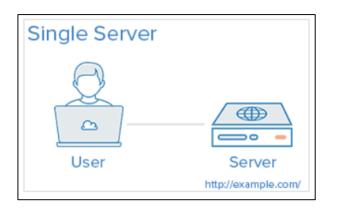
SERVER

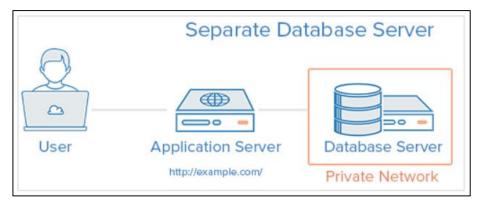
Reverse proxy

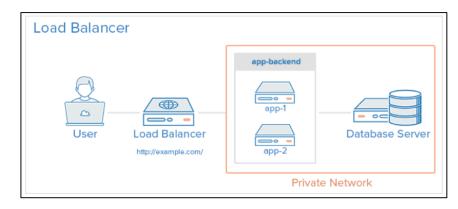


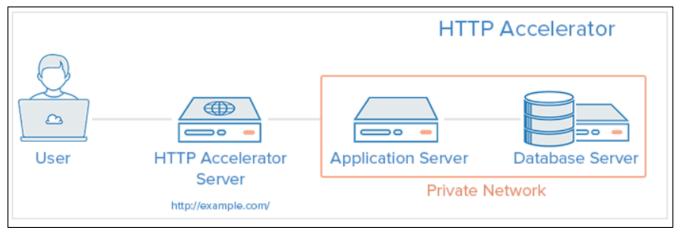
SERVER

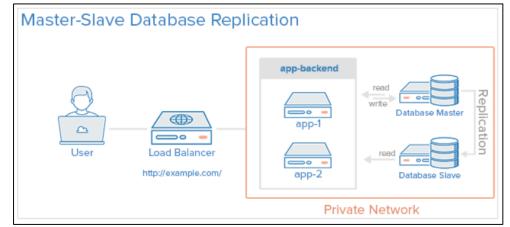
Server architectures













SERVER

Server architectures

