**TCP Handshake**

3 way handshake – syn,syn-ack,ack for synchronize, synchronize-acknowledgement and acknowledge.

These messages are transmitted by tcp to negotiate / start a tcp session. This to negotiate

Parameters of the connection before transmitting information back and forth. Like http browser requests.

The browser sends the tcp syn packet to the server, the server receives the syn and responds with

A syn-ack the browser receives that and then sends an ack. The server receives the ack and then connection is established.

This handshake happens after a dns lookup and before the tls handshake to create a secure connection.

Closing connection process

* Browser sends fin to server; server receives and responds with a fin-ack browser sends an ack upon receiving the fin-ack. Server receives ack and closes the connection