

ssh layers



ssh-connection

(Session multiplexer, X11 forwarding, TCP forwarding, interactive login, invoking sftp subsystem, remove command execution)

ssh-userauth

(Challenge response authentication (PAM), public key based, password authentication, rhost style host auth, smart card support, etc.)



ssh-transport

(Diffie Hellmann Key (KEX) agreement, ssh-rsa public key signatures, Server Host authentication, MAC & Encryption algorithm and key negotiation, rekeying)

TCP/IP