Client

Server

Public key: Kst Private ky: K:

certificate: (contains Kst)

88, "Hello Server, please prove your identity" K; { "Hello Server, please prove your identity"} 888 Base 64 encoded (certificate) encypted message to compare with original message Also crede if certificate with CA public key 404 (close client socket)

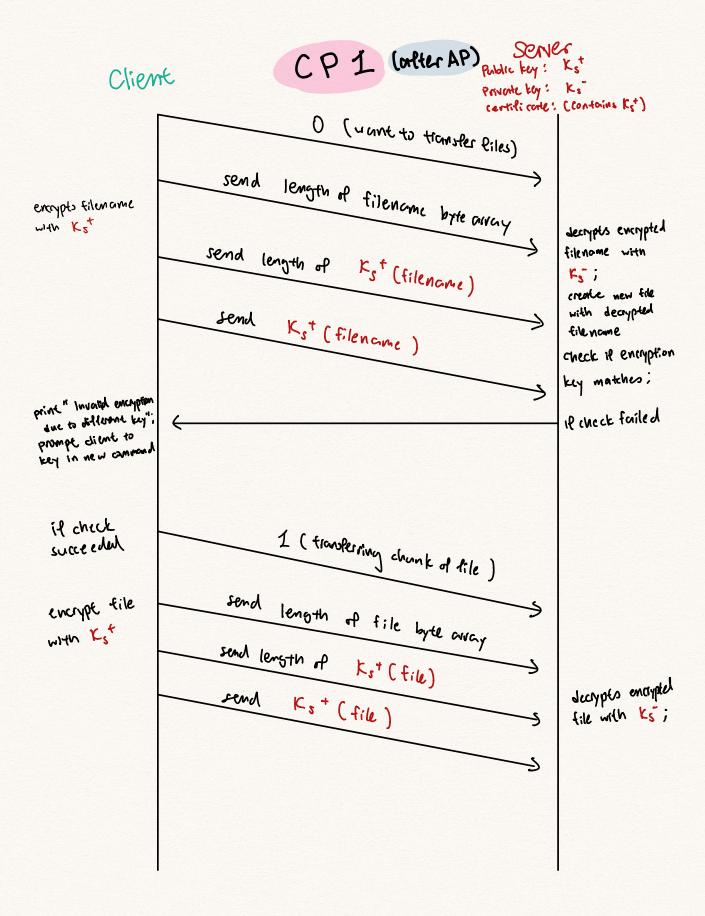
If check failed

Base 14 decode certicale; Extract Kst and decrypt

ch cere is valid and verily sener

If check succeeded, " Server successfully authenticated"; world for input command from dient;

from Client.close() to Ctent. close () connection Socker.



SCNES

Public key: Kst

Private key: Kst

Certificate: Contains Kt

	Colling	
generate AES key; Encrypt with kst	send Ks (AES key)	
	0 (want to transfer liles)	decrypt AES key with Ks
eraypts filename with AES	send length of filename byte away send length of AES (filename)	decrypts encrypted filename with AES;
	send AES (filename)	create new file with decaypted file name check if entryption
print" Involph encypton due to different key"; prompt dient to key in new command	,	key matches; If eneck failed
if check succeedud	1 (transferring chunk of lile) send la viv	
encrype file with AES	send length of AES (file)	Jecryptes encrypted
	send PES (file)	file with AES;