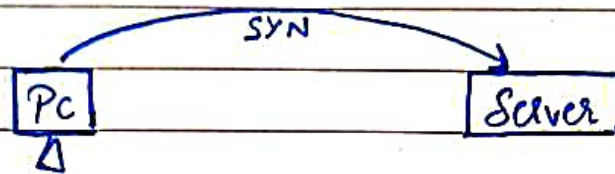


3 Way Handshake

Ex. We are sending request to www.cisco.com

TCP



Step 1:

	Port A	Port 80	Request from PC to server
			HTTP request
PC	seq. = 9000		On sequence no. 9000
	Syn, WS = 50,000b		Is requesting 50,000 bytes of data
	option MSS = 5000b		Maximum Segment size = 5000 bytes

Sends request to server

Step 2:

	Port A	Port 80	Reply from server to PC
			Receives on seq 3000 (which I am in network)
		Seq. 9001	next seq. no. since 9000 has been used in network
Server Acknowledges	Syn/Ack1	MS = 5,00,000	Maximum size (6n give) = 5,00,000 bytes
	option	MSS = 500b	Max. Segment size = 500 bytes

Sends reply back to PC

Step 3:

	Port A	Port 80	
		seq. 9001	
PC	Ack1	WS = 50,000	Even though server was offering 56kb bytes of data, the PC could only accept 50,000 bytes at once, so 50k was accepted.
	option	MSS = 500	

Though PC could accept max. segment size 5000 but server had capability of sending only 500 bytes so 500 bytes was chosen.