server

SYN request and ACK

SYN flood

UBUNTU(victim)

KALI(ATTACKER)

TOOLS USED FOR ATTACK

Hping3 installed in kali linux which is useful to flood data packets to the server with legitimate ip address

IMPLEMENTATION
When the attacker machines send more SYN packets the server will be busy in sending the requests packets but it don't receive acknowledgement packets their will be too many half open connections

And when legitimate users wants to use the website it sends requests to server but it will be denied and delayed

This can be monitored with the tool WIRESHARK

And the mitigation tools with SNORT