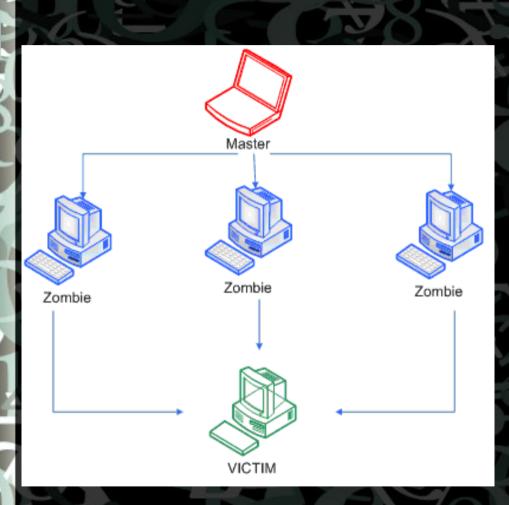


Denial of Service Attacks One of the attack which causes more losses to the victim

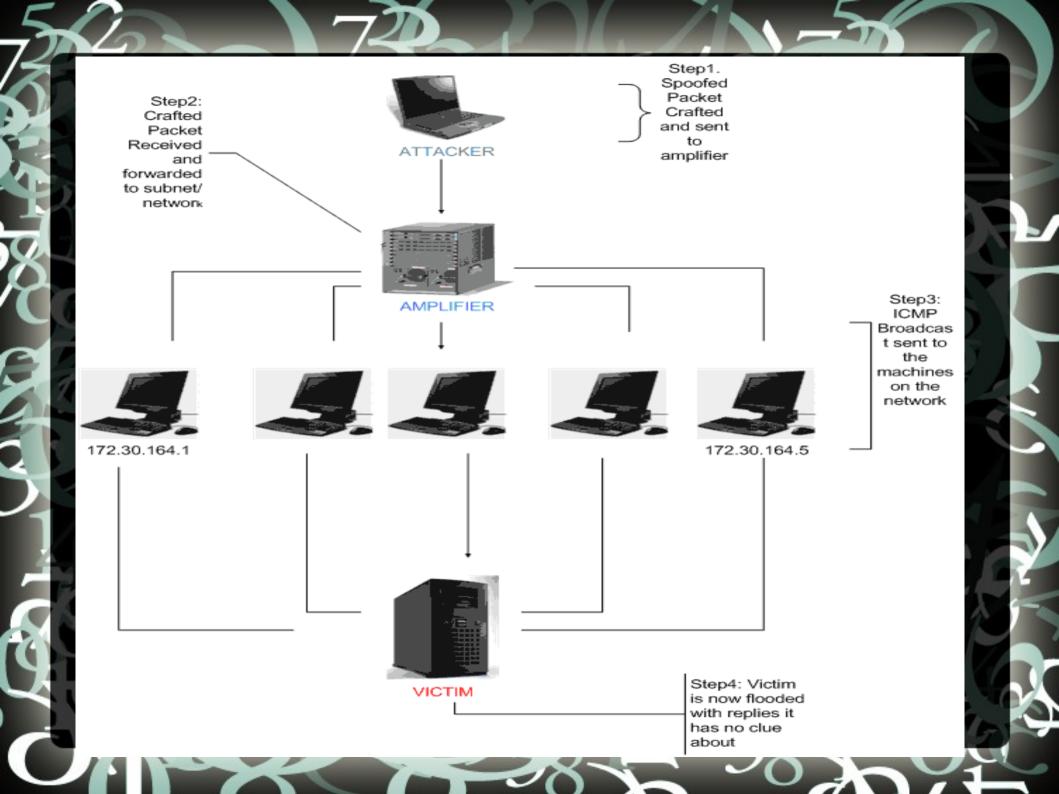
- Easy to carry out by skiddies due to the presence of a lot of point and click tools
- Clogs the Bandwith and results in Network Conjection
- Productivity gets disturbed

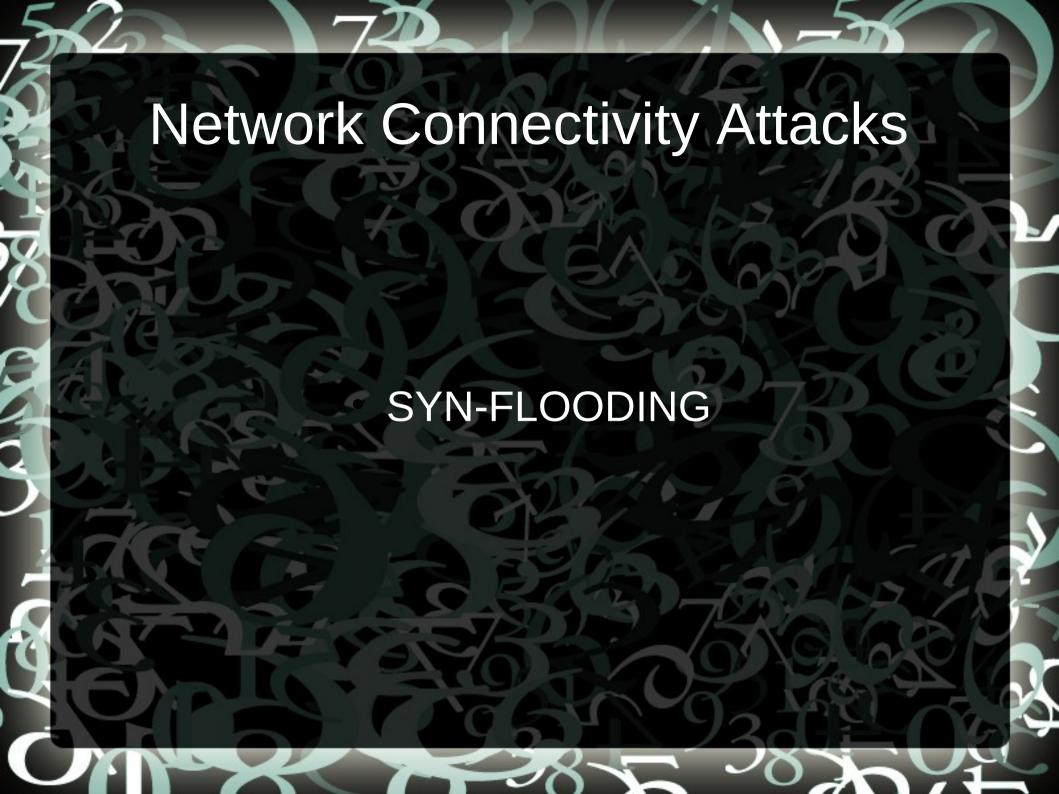
DDoS Attacks



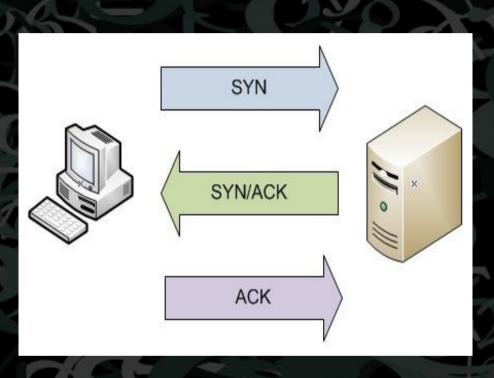
- Highly Profitable attacks
- Group of hacked computers called Botnets (Zombies)
- Yahoo,ebay,Paypal etc. had been DDoSed





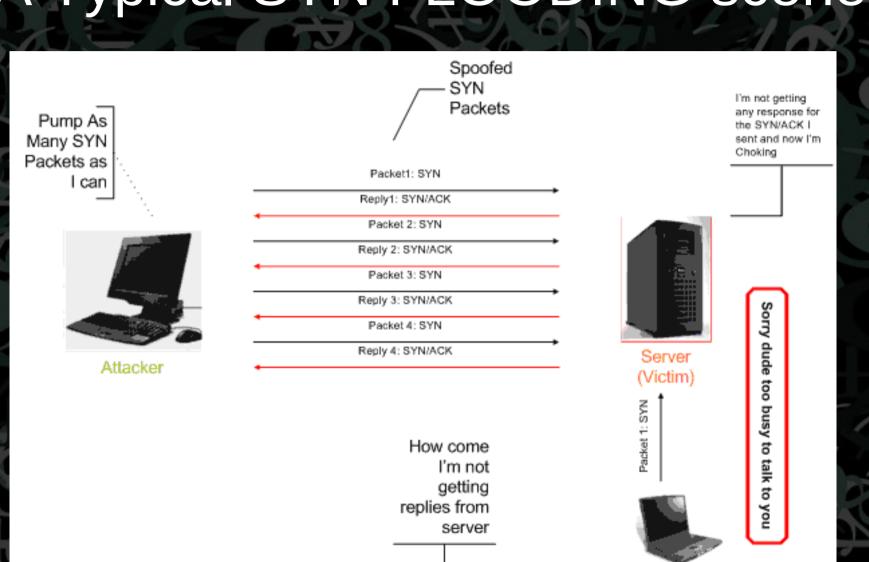






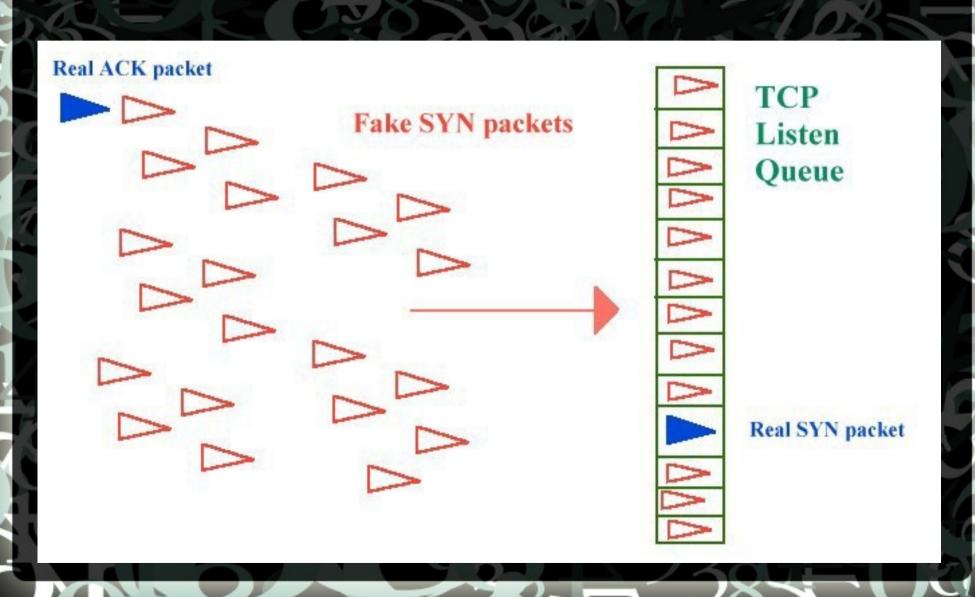
- Basic Flaws in Implementation of TCP/IP
- Retransmission of Packets which is due to Error correcting & Error detecting

A Typical SYN FLOODING scenerio



User

Backlog Queue

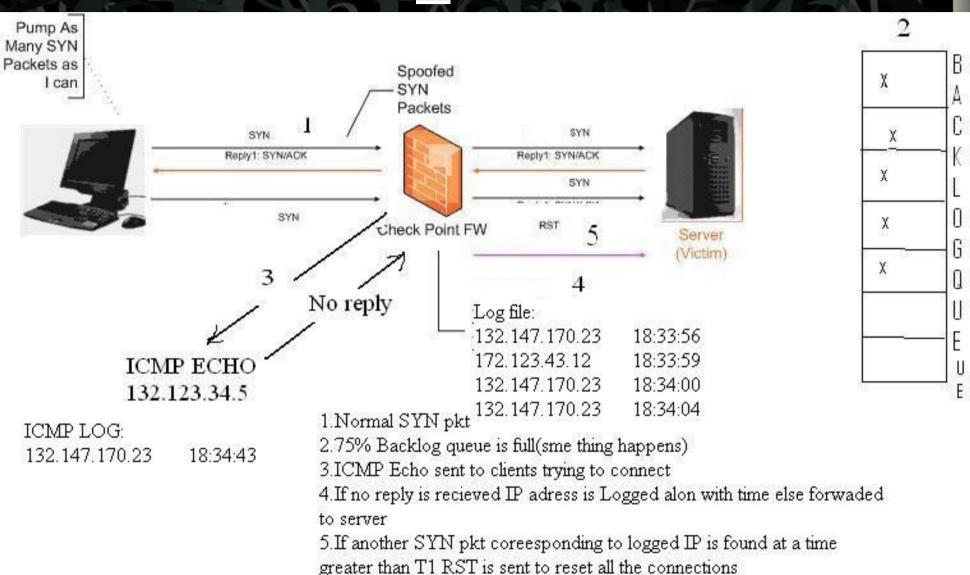






SYN Handler Identifying the Attacker's SYN Packet from a group of legitimate Packets Backup checking Isolating the Attacker QoS is unaltered Using Limited resources to prevent the attack

SYN Handler



from that IP, and it is added to block list to block further attempts.

Algorithm

Backlog queue triggers the Transparent firewall

Firewall logs the incoming requests in logfile

ICMP request is sent to all clients in the logfile

If it obtains a valid reply connections takes place as usual

If reply is not obtained it is logged in ICMP Log

