- Filename: eccouncil-ceh31250-v12-10-2-1-volumetric-attacks.md
- Show Name: CEHv12 (312-50)
- Topic Name: Network and Perimeter Hacking: Denial of Service
- Episode Name: Volumetric Attacks

Volumetric Attacks

Objectives:

- List and describe common types of Volumetric DoS/DDoS attacks
- Volumetric Attacks
 - Amplification attacks
 - UDP Flood
 - Attacker floods target with UDP packets from spoofed IP
 - Target checks for UDP service
 - Target responds with 'Destination Unreachable' error
 - Legit traffic can't access server
 - hping3 --flood --spoof 192.168.241.133 --udp -p 53 192.168.241.130
 - ICMP Flood
 - Reflection networks are useful here
 - Requests and Replies saturates the network
 - hping3 --flood --spoof 192.168.241.133 --icmp -p 53 192.168.241.130
 - Ping of Death
 - Oversized packet
 - Size greater than 65535 bytes
 - System crashes
 - Smurf & Fraggle
 - DDoS target with ICMP echo replies
 - Send ICMP echo request to network broadcast address with spoofed source IP of target
 - If network allows directed broadcast requests, all hosts on network will respond to target with ICMP echo replies
 - hping3 --flood --spoof --icmp 192.168.241.130 192.168.241.255
 - Fraggle
 - Similar to Smurf
 - UDP instead of ICMP
 - Targets ports 7(Echo) and 19(CHARGEN)
 - Pulse Wave
 - Attacker sends data to target for every 10 minutes
 - Attack pulses(attack session) can last for hours or days
 - Pulses are 300Gbps