

- Filename: eccouncil-ceh31250-v11-10-2-1-volumetric-attacks.md
- Show Name: CEHV11 (312-50)
- Topic Name: Network and Perimeter Hacking: Denial of Service
- Episode Name: Volumetric Attacks

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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