



Network Probes and Attacks

CYBER INCIDENT RESPONSE

Network Probes and Attacks

- Much of your incident handling will involve network probes and attacks
- Network probes are usually part of reconnaissance efforts and are easy to detect (like a port scan)



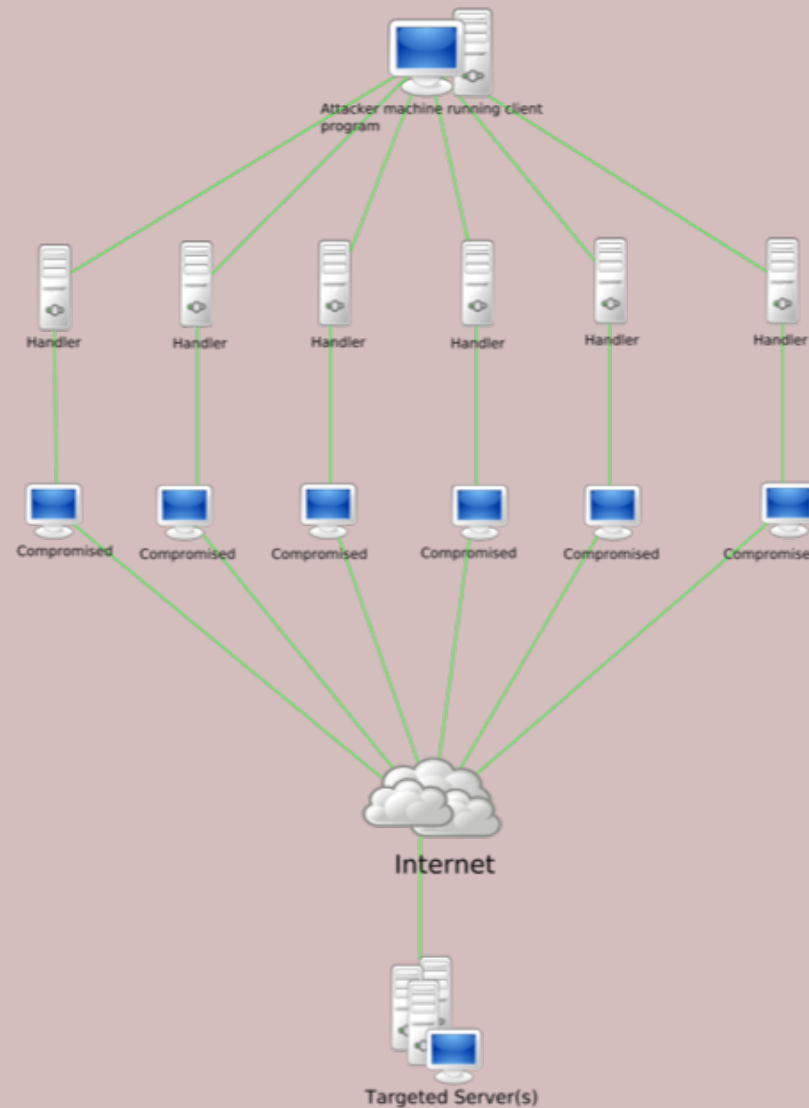
Denial of Service (DoS)

- Detection:
 - Attacks on a given network, system, or service from a single source
 - Attempts to overwhelm system or network
- Prevention:
 - Block the attacker using your firewall or IPS



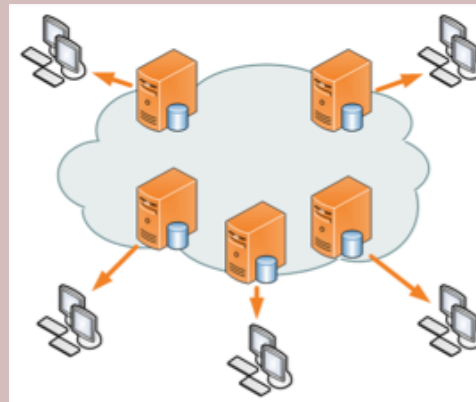
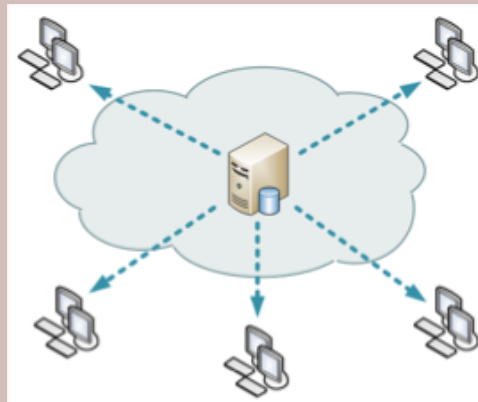
Distributed Denial of Service (DDoS)

- Attacks on a given network, system, or service from simultaneous multiple sources
- Attempts to overwhelm system or network



Distributed Denial of Service (DDoS)

- Detection:
 - Traffic coming from known botnet IPs
 - Monitoring your traffic and usage patterns
- Prevention:
 - Network designed with distributed network of endpoints (like Akamai)
 - Ensure your networks can scale upwards



Detecting Rogue Devices

- MAC Address Validation
 - Ensure all devices are “Known Devices”
 - Check device MAC against vendor codes
- Scan the Network to identify devices
- Conduct physical site inspections
- Analyze traffic for irregular behavior



Rogue Wired Devices

- Usually occurs when an employee or attacker connects a wired device
 - Adds a switch or hub to the network
- Network Access Control and Port Security can prevent this occurring



Rogue Wireless Devices

- Can be detected by conducting wireless surveys and mapping the area
- Often used as an Evil Twin to trick users to connect to them and steal information

