



Incident report analysis

Summary	<p>A Distributed Denial of Service (DDoS) attack occurred targeting our internal network. The attacker used a flood of ICMP packets to overwhelm the system through an unconfigured firewall. As a result, all internal network services were inaccessible for approximately two hours. The issue was resolved by blocking ICMP packets and restoring critical services.</p>
Identify	<ul style="list-style-type: none">• Attack Type: ICMP Flood – a form of DDoS.• Vulnerability: Unconfigured firewall allowed external ICMP traffic.• Systems Affected: Entire internal network – no services were accessible during the incident.
Protect	<p>List protective measures taken :</p> <ul style="list-style-type: none">• Apply firewall rules to restrict ICMP packet rate.• Enable source IP verification to block spoofed IPs.• Conduct regular vulnerability scans and firewall audits.• Establish network segmentation to isolate internal systems.• Train staff on cybersecurity awareness.
Detect	<ul style="list-style-type: none">• Install Network Monitoring Software (e.g., Wireshark, Zeek).

	<ul style="list-style-type: none"> • Deploy IDS/IPS systems (like Snort, Suricata) to detect abnormal ICMP traffic. • Enable SIEM tools (e.g., Splunk, ELK) for log aggregation and anomaly detection. • Monitor for unusual bandwidth usage or spikes.
Respond	<ul style="list-style-type: none"> • Set up an Incident Response Plan (IRP). • Regular tabletop exercises with IR team. • Maintain a runbook for immediate response steps: <ul style="list-style-type: none"> ◦ Identify and block malicious traffic. ◦ Notify internal teams. ◦ Isolate affected systems. ◦ Log all details for forensics.
Recover	<ul style="list-style-type: none"> • Restore critical systems and services with backups. • Patch firewall vulnerabilities. • Document incident in a Post-Incident Review Report. • Update policies based on lessons learned. • Revalidate network integrity using health checks.

Reflections/Notes: