



Incident report analysis

Instructions

As you continue through this course, you may use this template to record your findings after completing an activity or to take notes on what you've learned about a specific tool or concept. You can also use this chart as a way to practice applying the NIST framework to different situations you encounter.

Summary	<p>The organization experienced a DDoS attack, which compromised the internal network for two hours.</p> <p>During the attack, the organization's network services suddenly stopped responding due to an incoming flood of ICMP packets. Normal internal network traffic could not access any network resources.</p> <p>The incident management team responded by blocking incoming ICMP packets, stopping all non-critical network services offline, and restoring critical network services.</p>
Identify	<p>The company's cybersecurity team investigated the systems, devices involved in the attack to identify the gaps in security. They found that a malicious actor had sent a flood of ICMP pings into the company's network through an unconfigured firewall. This vulnerability allowed the malicious attacker to overwhelm the company's network through a distributed denial of service (DDoS) attack. The entire internal network was affected.</p> <p>All critical network resources needed to be secured and restored to a functioning state.</p>
Protect	<p>The incident management team responded by blocking incoming ICMP packets, stopping all non-critical network services offline, and restoring critical network services.</p>
Detect	<p>To detect DDoS attack in future the network security team has implemented a:</p> <ul style="list-style-type: none">• Network monitoring software to detect abnormal traffic patterns

	<ul style="list-style-type: none"> • An IDS/IPS system to filter out some ICMP traffic based on suspicious characteristics
Respond	<p>To address this security event, the network security team implemented:</p> <ul style="list-style-type: none"> • A new firewall rule to limit the rate of incoming ICMP packets - applied rate-limiting and ACLs at the firewall level • Source IP address verification on the firewall to check for spoofed IP addresses on incoming ICMP packets
Recover	<p>The system recovered by Restoring services by reducing malicious traffic load and restarting critical systems/services affected by resource exhaustion.</p> <p>To recover from a DDoS attack by ICMP flooding, access to network services need to be restored to a normal functioning state.</p> <p>In the future,</p> <ul style="list-style-type: none"> • external ICMP flood attacks can be blocked at the firewall. • Then, all non-critical network services should be stopped to reduce internal network traffic. • Next, critical network services should be restored first. • Finally, once the flood of ICMP packets have timed out, all non-critical network systems and services can be brought back online. <p>Next Steps:</p> <ul style="list-style-type: none"> - Auditing all firewall configurations across the network. - Hardening network infrastructure - Planned internal training on secure default configurations and DDoS handling.

Communication	<ul style="list-style-type: none">- Internal debrief with IT, security, and network teams.- Documented the attack, impact, and resolution in an incident report.- Shared lessons learned and configuration checklists with the broader technical team.- Updated Business Continuity/Disaster Recovery (BC/DR) plans to include volumetric DDoS scenarios.
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Reflections/Notes: