

Incident report analysis

Instructions

Summary	Our multimedia company (which offers web design services, graphic design,
	and social media marketing solutions for small businesses) was experiencing a
	DDoS attack, which compromised the internal network for two hours until it
	was resolved. The services stopped responding due to an incoming flood of
	ICMP packets. Normal internal network traffic was unable to access any
	resources. The incident management team blocked incoming ICMP packets
	which stopped all non-critical network services offline, restored critical
	network services. After investigation, it looked like an ICMP flood attack from a
	malicious actor sent through an unconfigured firewall. This vulnerability
	overwhelmed the network through the distributed denial of service attack.
Identify	The incident management team investigated the security event and noticed
	there was a malicious actor that sent a flood of ICMP pings into the company's
	network through an unconfigured firewall, a potential ICMP flood attack. This
	was the attack surface the actor used to conduct a distributed denial of service
	(DDoS) attack.
Protect	The team implemented a new firewall rule to limit the rate of incoming ICMP
	packets, source IP address verification on the firewall to check for spoofed IP
	addresses on incoming ICMP packets, network monitoring software to detect
	abnormal traffic patterns, and installed an IDS/IPS system to filter out some
	ICMP traffic based on suspicious characteristics.
Detect	To detect new unauthorized attacks in the future, the team will use the network
	monitoring software to detect any abnormal traffic patterns and the IDS system
	to send alerts for any suspicious traffic.

Respond	The team disabled any incoming ICMP packets and stopped all non-critical
	network services offline. For future events, the cybersecurity team will isolate
	the affected systems to prevent further disruptions. They will attempt to
	restore any critical systems/services that were disrupted. Network logs will then
	be used to check for suspicious activity. The incident will be reported to upper
	management and if applicable, the appropriate legal authorities.
Recover	The team quickly recovered the information by restoring the critical network
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Reflections/Notes:
