

Incident report analysis

Summary	The company encountered a security incident characterized by a sudden cessation of all network services. Investigation by the cybersecurity team revealed that the disruption stemmed from a distributed denial of service (DDoS) attack, manifesting as an inundation of incoming ICMP packets. In response, the team swiftly mitigated the attack by blocking the malicious traffic and suspending all non-critical network services. This action facilitated the restoration of critical network services, ensuring minimal disruption to operations.
Identify	The company fell victim to a targeted ICMP flood attack orchestrated by malicious actors. This assault resulted in the complete disruption of the internal network, necessitating the immediate securing and restoration of all critical network resources to ensure operational functionality.
Protect	The cybersecurity team enacted a novel firewall rule aimed at restricting the influx of incoming ICMP packets. Additionally, they deployed an Intrusion Detection System (IDS)/Intrusion Prevention System (IPS) to filter out certain ICMP traffic exhibiting suspicious attributes. These measures were implemented to bolster the network's defenses against future attacks and enhance its resilience to malicious activity.
Detect	The cybersecurity team implemented source IP address verification on the firewall to scrutinize incoming ICMP packets for spoofed IP addresses. Additionally, they deployed network monitoring software to identify aberrant traffic patterns, enhancing the network's ability to detect and respond to potential threats effectively.

Respond	In anticipation of future security events, the cybersecurity team will promptly
	isolate affected systems to curtail further network disruption. They will
	prioritize the restoration of any critical systems and services impacted by the
	event. Subsequently, the team will conduct a comprehensive analysis of
	network logs to identify and investigate any instances of suspicious or
	abnormal activity. Additionally, all security incidents will be promptly reported
	to upper management and relevant legal authorities, if necessary, to ensure
	transparency and compliance with regulatory obligations.
Recover	To recover from a DDoS attack involving ICMP flooding, restoring access to
	network services to their normal functioning state is paramount. For future
	prevention, external ICMP flood attacks can be mitigated by implementing
	firewall blocks. Subsequently, all non-critical network services should be halted
	to alleviate internal network congestion. Following this, critical network
	services should be prioritized for restoration. Finally, once the influx of ICMP
	packets has subsided, non-critical network systems and services can be
	gradually reinstated.