

Incident report analysis

Summary	Today, the organization experienced a two-hour outage of network services
	caused by a Distributed Denial of Service (DDoS) attack known as an ICMP
	flood. ICMP (Internet Control Message Protocol) is used to transmit network
	error messages. During the attack, the threat actor overwhelmed our
	network with a flood of ICMP ping requests. The investigation revealed that
	an unconfigured firewall allowed this malicious traffic to bypass security
	controls, resulting in the disruption of internal network services.
Identify	After investigation, the network security team determined that an
	unconfigured firewall allowed malicious ICMP traffic to enter the company's
	internal network. This vulnerability enabled the attacker to overwhelm the
	organization's servers with ICMP requests, saturating the LAN and resulting
	in a two-hour outage of internal network services. The audit confirmed that
	the disruption was limited to the internal network and caused all normal
	traffic to be unable to access network resources.
Protect	The team implemented new firewall configurations, including a rule to limit
	the rate of incoming ICMP packets and source IP address verification to
	detect and block spoofed addresses. In addition, new network monitoring
	software was deployed to identify abnormal traffic patterns, and an IDS/IPS
	(Intrusion Detection and Prevention System) was installed to filter ICMP
	traffic based on suspicious characteristics.

Detect	To detect future similar attacks, the team will implement a NGFW (Next
Dottoot	Generation Firewall) which allows stronger security capabilities such as
	Deep Packet Inspection, Intrusion Protection and Threat Intelligence.
Respond	The Incident Management Team responded by blocking incoming ICMP
	packets, stopping all non-critical network services, and restoring critical
	ones. The Network Security Team also implemented new firewall rule
	configurations and deployed network monitoring software.
	Future response plans could include implementing stricter network
	segmentation and security zones to isolate critical resources, reducing the
	internal impact of similar attacks.
Dagguer	The team vectored exiting metucular consists of the identifying and mitigating
Recover	The team restored critical network services after identifying and mitigating
	the attack. After two hours, normal internal network operations were fully
	recovered. Following the restoration, IT staff were informed of the incident
	resolution and advised to monitor for any residual issues or abnormal
	network behavior.
	Recovering from an ICMP flood DDoS attack involves restoring access to
	network services to normal operational status. In the future, such attacks
	can be mitigated by blocking external ICMP traffic at the firewall. During the
	recovery process, non-critical network services should be temporarily halted
	to reduce internal traffic load. Priority should be given to restoring critical
	services first. Once the ICMP flood subsides, non-critical systems and
	services can then be safely brought back online.
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Reflections/Notes: This incident highlighted the importance of proper firewall configuration and proactive network monitoring to prevent DDoS attacks. I also learned how the NIST CSF provides a clear framework for analyzing incidents in stages, which helps separate immediate actions from long-term improvements. In future scenarios, I would consider additional measures such as stricter network segmentation and periodic response drills to reduce recovery time and impact.