

Incident report analysis

Summary	At 0900 hours this morning, an outage was reported that showed our
	organizational website was unreachable. After a review of network traffic
	affecting our web server we determined that the issue was a flood of ICMP
	packets affecting our host server, commonly referred to as a DoS attack.
	Incident management blocked incoming ICMP packets, making the server
	available for our team to prevent consecutive attacks. We observed that our
	firewall was not configured to rate ICMP pings to our network. The security
	team instantiated a new firewall rule to rate limit incoming ICMP packets, as
	well as instantiated source IP address verification to check for spoofed IP
	addresses. Additional network analysis tools have been installed to assist the
	security team in identifying and stopping threat actors prior to malicious
	activity affecting our assets. Training of employees and personnel on this
	method of DoS attack has been created, and new policies for firewall rule
	verifications has been instantiated. A review of organizational assets has been
	conducted to verify data integrity.
Identify	The security team assessed the assets utilized in the attack and observed
	faults in the organization firewall configuration with respect to rate limits on
	ICMP packets, as well as baseline data packet verification.
Protect	The security team instantiated a new firewall rule to rate limit incoming ICMP
	packets as well as configured source IP address verification to detect spoofed
	IP addresses on incoming ICMP packets.
Detect	SolarWinds network performance monitor was installed to allow the security
	team to monitor network performance for abnormal traffic patterns. An in-line
	intrusion prevention system was integrated to reduce attack vectors from
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	known security intrusions and security threats.
Respond	The security team instantiated a quarterly review of firewall rules, and policy for employee verification of necessary patches, updates, or changes in port accessibility and employee access. New duties were assigned to observe network stability utilizing the new network performance monitor and employee training has begun.
Recover	The ICMP DoS attack was blocked by the new firewall rule changes. A review of organizational data integrity was conducted and no intrusions were detected. The server was checked for accessibility. With the server no longer under threat of the DoS attack, the organizational website was returned to public access.