

Incident report analysis

Summary	1. The company has experienced Distributed Denial of Service attack. Significant
	amount of ICMP pings have been sent, which resulted in making the network
	services unresponsive for two hours.
	2. The root cause of the attack was the firewall that haven't been configured, and
	didn't filter, or restrict the overflooding traffic.
	3. The attack affected the users' and employee access, and the service
	availability.
	4. The incident was resolved by setting a limit for the rate of ICMP packets,
	checking for spoofed IP addresses on the incoming ICMP packages,
	implementing software to detect abnormal traffic, and IDS/IPS system to filter
	the suspicious traffic.
Identify	Type of attack – DDoS – ICMP flood attack
	2. Impacted systems: Internal network, web servers, network services, firewall
	3. Processes impacted – the whole system – the internal network services, the
	customer facing apps, critical servers were unresponsive due the attack.
Protect	Update firewall rules to limit and filter ICMP traffic
	2. Schedule regular firewall audits and pen testing.
	3. Source IP address verification on the firewall to check for spoofed IP addresses
	on incoming ICMP packets
	4. A new firewall rule to limit the rate of incoming ICMP packets
	An IDS/IPS system to filter out some ICMP traffic based on suspicious characteristics
	6. Conduct regular training to the IT and security teams on identifying DDoS vulnerabilities.

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Reflections/Notes: The DDoS incident shows critical gaps in the organization's network security, especially in the firewall configuration and the effective traffic monitoring. The incident shows that even small gaps in the configuration can lead to serious system disruptions due to malicious attacks.

Implementing different software, IDS/IPS system, reconfiguring the firewall, conducting regular audits

strengthens the security posture, but additional measures should be taken to protect the system. Regular training and updates should be done, port filtering can be applied to lower the attack surface, regular log check-ups to check for different threats and weak spots of the system, that should be resolved. The organization should prioritize a culture of security awareness, regular testing (such as simulated attacks or penetration tests), and transparent communication between teams and leadership during incidents.