

## **Incident report analysis**

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Summary	The multimedia company experienced a DDoS attack that compromised the
	internal network for two hours. The attack involved a flood of ICMP packets
	that overwhelmed the network, rendering internal network services
	unresponsive. The incident management team responded by blocking
	incoming ICMP packets, stopping non-critical network services, and restoring
	critical network services. The cybersecurity team discovered that the attack
	exploited an unconfigured firewall. To address the vulnerability, the network
	security team implemented several measures, including new firewall rules,
	source IP address verification, network monitoring software, and an IDS/IPS
	system.
Identify	Regular Audits: Conduct regular audits of internal networks, systems, devices,
	and access privileges to identify potential security gaps.
	Vulnerability Assessments: Perform periodic vulnerability assessments and
	penetration testing to uncover and address weaknesses in the network
	infrastructure.
	Asset Management: Maintain an up-to-date inventory of all network assets,
	including hardware, software, and data, to ensure all components are
	adequately protected.
Protect	Firewall Configuration: Implement and regularly update firewall rules to limit
	the rate of incoming ICMP packets and block other potential attack vectors.
	Access Control Policies: Establish strict access control policies to limit access
	to critical network resources based on the principle of least privilege.
	Employee Training: Conduct regular cybersecurity training for employees to
	ensure they understand how to recognize and respond to potential security
	threats.

	Patch Management: Ensure all systems and software are regularly updated
	with the latest security patches to protect against known vulnerabilities.
Detect	Network Monitoring: Deploy advanced network monitoring software to
	detect abnormal traffic patterns and potential security incidents in real time.
	IDS/IPS Implementation: Use Intrusion Detection Systems (IDS) and Intrusion
	Prevention Systems (IPS) to filter out malicious traffic and prevent potential attacks.
	Log Analysis: Regularly analyze system and network logs to identify signs of
	suspicious activity and potential security breaches.
	Threat Intelligence: Utilize threat intelligence feeds to stay informed about
	emerging threats and adjust security measures accordingly.
Respond	Incident Response Plan: Develop and maintain an incident response plan that
	outlines the steps to contain, neutralize, and analyze security incidents.
	Communication Protocols: Establish clear communication protocols for
	notifying stakeholders and coordinating response efforts during a security incident.
	Forensic Analysis: Conduct thorough forensic analysis of security incidents to
	understand the attack vectors, methods used, and potential impacts.
	Lessons Learned: Document and review lessons learned from security
	incidents to implement improvements in the incident response process.
Recover	System Restoration: Develop and implement procedures to restore affected
	systems to normal operation as quickly and efficiently as possible.
	Data Recovery: Ensure robust data backup and recovery processes are in
	place to restore data and assets affected by security incidents.
	Post-Incident Review: Conduct a post-incident review to assess the
	effectiveness of the response and recovery efforts and identify areas for
	improvement.
	Continuous Improvement: Use insights gained from security incidents to
	continuously improve the organization's overall security posture and resilience.

**Reflections/Notes:** The DDoS attack highlighted the importance of having a well-configured firewall and robust network security measures in place.

Regular audits and vulnerability assessments are critical for identifying and addressing potential security gaps before they can be exploited.

Employee training and awareness are essential components of a comprehensive cybersecurity strategy.

Effective incident response and recovery plans are vital for minimizing the impact of security incidents and ensuring a swift return to normal operations.

Continuous improvement and adaptation based on lessons learned from security incidents help strengthen the organization's defenses against future attacks.