

Incident report analysis

Summary	On July 27, 2024, a distributed denial-of-service (DDoS) attack caused a two-hour network outage, severely impacting internal operations and client services. The root cause was identified as an unconfigured firewall, which allowed a flood of ICMP packets to overwhelm network resources. The attack underscored critical vulnerabilities in the company's security
	posture. Immediate actions included firewall rule adjustments, source IP verification, and deployment of network monitoring and IDS/IPS systems. However, a comprehensive review of security practices is necessary to prevent future incidents. Moving forward, the following key areas require attention:
Identify	The attack primarily impacted network services, and infrastructure (including the firewall and internal servers), and disrupted operations for both internal teams and external clients.
Protect	Implement stricter firewall configurations, regular employee security training, encrypted data backups, and updated incident response procedures. Ongoing firewall maintenance and IDS/IPS systems are essential for proactive defense.
Detect	Enhance real-time monitoring and fine-tune existing systems to rapidly detect traffic anomalies. 24/7 network monitoring is now a priority. Implementing 24/7

	network monitoring is a priority.
Respond	Develop a detailed DDoS response plan, including escalation protocols, communication strategies, and mitigation procedures. Post-incident analysis will be crucial to identify the attack's root cause and inform future improvements.
Recover	Formalized procedures for restoring services and data from backups must be established and regularly tested. Clear communication channels with stakeholders are vital to manage expectations and minimize disruption.

Reflections/Notes: This incident underscores the importance of proactive security measures, continuous monitoring, and employee awareness training. Implementing additional security measures like rate limiting and considering cloud-based DDoS protection can further fortify the network against future attacks.