

Cybersecurity Incident Report:

Network Traffic Analysis

Part 1: Provide a summary of the problem found in the DNS and ICMP traffic log

An ICMP echo reply with the error message "udp port 53 unreachable" indicates that the DNS server is down or unreachable. Port 53 is the default port for DNS traffic, so this error message is a strong indication that the DNS server is not responding.

Part 2: Explain your analysis of the data and provide one solution to implement

At 1:23 p.m. today, customers reported that they were unable to access the organization's website. They received the error message "destination port unreachable." The network security team is investigating the issue and working to restore access to the website. Our investigation has so far revealed that DNS port 53 is unreachable. This means that the DNS server is either down or traffic to port 53 is blocked by the firewall. The DNS server might be down due to a successful Denial of Service attack or a misconfiguration. We are currently working to identify the cause of the issue and restore access to the website. We will provide updates as they become available.