# Cybersecurity Incident Report:

# Network Traffic Analysis

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| Part 1: Provide a summary of the problem found in the DNS and ICMP  traffic log. |
| The network protocol analyzer logs indicate that port 53 is unreachable when attempting to access the client company website www.yummyrecipeforme.com.  This is based on the results of the network analysis, which show that the ICMP echo reply returned the error message: ”udp port 53 unreachable.” Port 53 is a port for DNS service. The word "unreachable" in the message indicates the UDP message requesting an IP address for the domain "www.yummyrecipesforme.com" did not go through to the DNS server because no service was listening on the receiving DNS port. |
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| Part 2: Explain your analysis of the data and provide at least one cause of the incident. |
| Time incident occurred at 1:24 p.m. Several customers of clients reported that they were not able to access the client company website www.yummyrecipesforme.com, and saw the error “destination port unreachable” after waiting for the page to load. analyzing the situation and determining which network protocol was affected during this incident. To start, the security team attempts to visit the website and you also receive the error “destination port unreachable.” To troubleshoot the issue, I load the network analyzer tool, tcpdump, and attempt to load the webpage again. To load the webpage, the browser sends a query to a DNS server via the UDP protocol to retrieve the IP address for the website's domain name; this is part of the DNS protocol. The browser then uses this IP address as the destination IP for sending an HTTPS request to the web server to display the webpage The analyzer shows that when you send UDP packets to the DNS server, you receive ICMP packets containing the error message: “udp port 53 unreachable.” This event, in the meantime, is being handled by security engineers after you and other analysts have reported the issue to your direct supervisor. |