

# Cybersecurity Incident Report:

## Network Traffic Analysis

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

The UDP protocol reveals that: Tcpcmdump network analyzer tool is showing that the UDP port 53 is unreachable.

This is based on the results of the network analysis, which show that the ICMP echo reply returned the error message: When trying to retrieve the IP address for the DNS protocol it replies with an error.

The port noted in the error message is used for: Port 53 is for the DNS protocol to translate human-readable names into the computer readable names that are numbers.

The most likely issue is: It is possible that the translation into the computer IP numbers are incorrect when using the yummyrecipesforme.com website.

Part 2: Explain your analysis of the data and provide at least one cause of the incident.

Time incident occurred: This incident originally occurred when the customers of clients reported not being able to access the website.

Explain how the IT team became aware of the incident: The customers reported the incidents to the IT team to fix the problem.

Explain the actions taken by the IT department to investigate the incident: The network security team responded and ran tests with the network protocol analyzer tool tcpdump.

Note key findings of the IT department's investigation (i.e., details related to the port affected, DNS server, etc.): We are continuing to investigate the root cause of the issue to determine why the port 53 is unreachable.

Note a likely cause of the incident: A likely cause of the incident is incorrect settings in DNS, DNS cache issues, or DNS server problems. There may be an IP address that doesn't match the network trying to connect too. The firewall might have blocked out address or

other addresses, or router may be misconfigured. Malware or security issues might result in problems, or other blacklisted IP addresses. Lastly a proxy server may be malfunctioning, or a temporary outage with network infrastructure.