

# 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:**

*The website's domain name resolution wasn't able to be obtained.*

**This is based on the results of the network analysis, which show that the ICMP echo reply returned the error message:**

*UDP port 53 is unreachable.*

**The port noted in the error message is used for:**

*Obtaining the .domain extension of a website's IP address through a DNS server.*

**The most likely issue is:**

*Service is down or a possible DoS attack.*

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

**Time incident occurred:**

*13:24:32 PM*

**Explain how the IT team became aware of the incident:**

*Several customers reached out stating they had trouble accessing the company's website: [www.yummyrecipesforme.com](http://www.yummyrecipesforme.com).*

**Explain the actions taken by the IT department to investigate the incident:**

*The IT team attempted to access the website normally and received a "destination port*

*unreachable" error. We then ran a tcpdump to obtain more information and found that UDP Port 53 was unreachable.*

**Note key findings of the IT department's investigation (i.e., details related to the port affected, DNS server, etc.):**

*ICMP packet was undeliverable to the port of the DNS server.*

*UDP port 53 unreachable.*

*3 ICMP packets sent total, with none of them reaching the DNS server.*

**Note a likely cause of the incident:**

*DNS Service is down, causing port 53 to be unreachable. May indicate a possible DoS attack on the DNS Service.*