

# 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 network protocol analyzer has logged that the destination port is unreachable.**

This is based on the results of the network analysis, which show that the ICMP echo reply returned the error message: **Due to the udp port 53 unreachable**

The port noted in the error message is used for: **This port is used for DNS (Domain Name System Service)**

The most likely issue is: **The DNS server responsible for resolving the domain name is not responding or is inaccessible**

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

Time incident occurred:

**This incident occurred at 1:24 pm and 32.192571 seconds.**

Explain how the IT team became aware of the incident:

**The IT department became aware when many customers complained about an error code after attempting to access DNS.**

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

**The security specialist tried to access the website using a normal browser. The same error code was given "destination port unreachable". After this was done a few attempts were made on the network analyzer tool, TCP dump, to Troubleshoot the issue.**

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

**The TCP dump log shows repeated failed attempts to reach the DNS server at IP address 203.0.113.2 on port 53, indicating that the DNS service is not operational or**

reachable.

Note a likely cause of the incident: **The DNS server at 203.0.113.2 may be down, misconfigured, or experiencing a denial-of-service (DoS) attack.**