

## **DNS Problem and ICMP Traffic Log**

### **Summary of the DNS Problem and ICMP Traffic Log**

During the network traffic analysis, issues related to DNS and ICMP traffic log were identified. Here is a summary of the relevant events:

In the DNS and ICMP traffic log, a series of outgoing requests were observed from the IP address 192.51.100.15 to the DNS server with the IP address 203.0.113.2, using the domain port (53). These requests aimed to obtain the IP address associated with the domain "yummyrecipesforme.com".

In the responses received from the DNS server, ICMP messages indicating that UDP port 53 was unreachable were detected. These error messages were generated in response to the UDP requests sent from the IP address 192.51.100.15.

The recorded ICMP messages showed variable lengths, suggesting that different response packets were affected by the UDP port 53 unreachability issue.

### **Data Analysis Summary**

Based on the analysis of the DNS and ICMP traffic data, the following conclusions can be drawn:

The error message "udp port 53 unreachable" indicates a failure to establish communication with the DNS server through port 53. This prevents the web browser from obtaining the IP address associated with the domain "yummyrecipesforme.com," resulting in the inability to access the website.

### **Recommendations and Solutions**

To resolve this issue and restore accessibility to the website, the following steps are recommended:

- **Verify DNS server configuration:** Review the configuration of the DNS server used for domain name resolution. Ensure that it is properly configured and functioning correctly.
- **Perform connectivity tests:** It is advisable to conduct additional connectivity tests between the DNS server's IP address and the IP address of the requesting machine. This will help identify any underlying connectivity issues that may be affecting communication.
- **Continuous monitoring:** Implement a continuous monitoring system to detect any

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anomalies in network traffic and take timely corrective actions. Update the DNS service:

If issues are identified with the DNS service, it is important to apply necessary updates or fixes to ensure its proper functioning.

Implementing these recommendations will help address the accessibility problem of the website [www.yummyrecipesforme.com](http://www.yummyrecipesforme.com), ensuring that the DNS service is available and can provide the correct IP addresses for the domain.