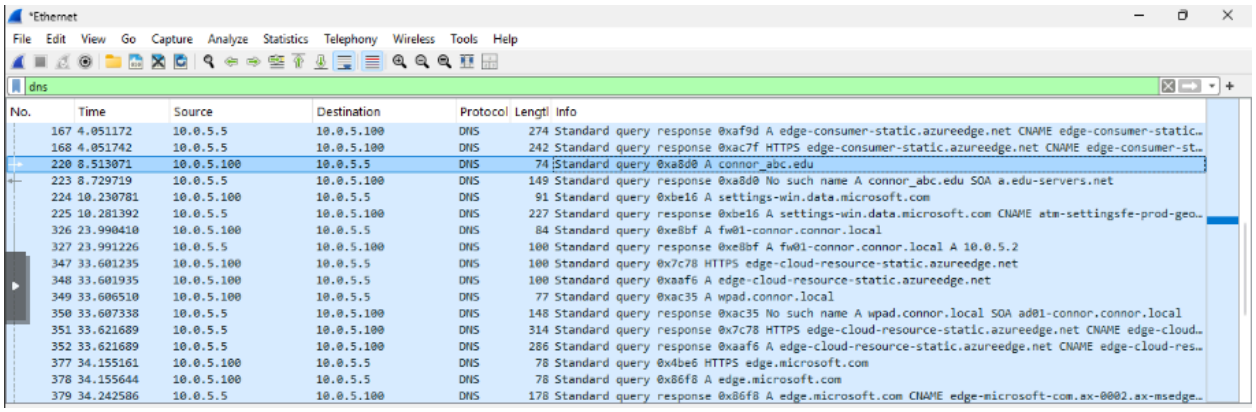
Connor Schuler
SYS-255-01
STR2026

Deliverable 1:

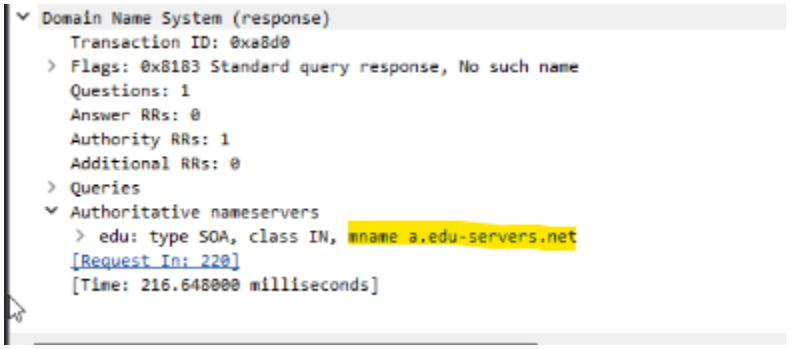
- Destination IP: 10.0.5.5
- Destination Port: 53
- Protocol: UDP or User Datagram Protocol

Deliverable 2: Yes, DNS sometimes uses TCP for large payloads, such as DNS server to server synchronization.

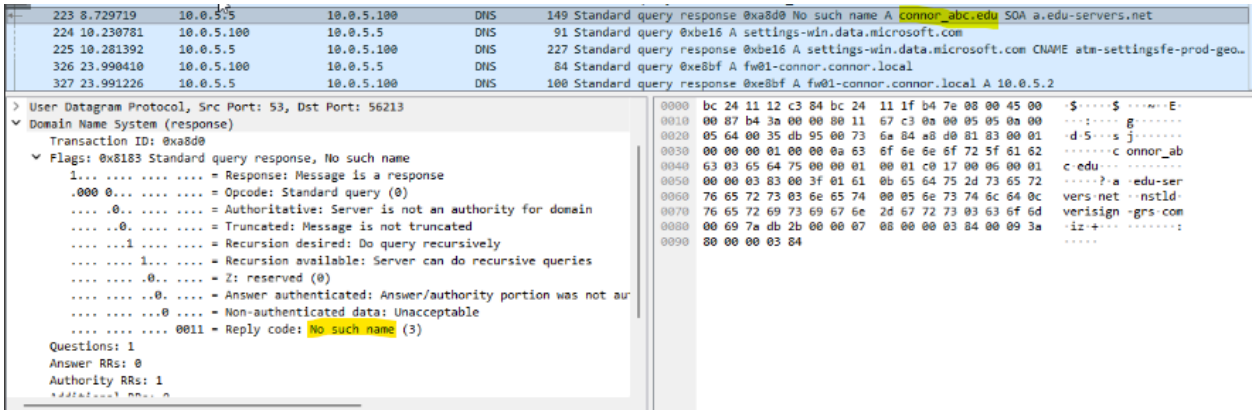
Deliverable 3: Simply typing “dns” into the filter bar shows only DNS traffic. The filter shows a total of 36 packets.



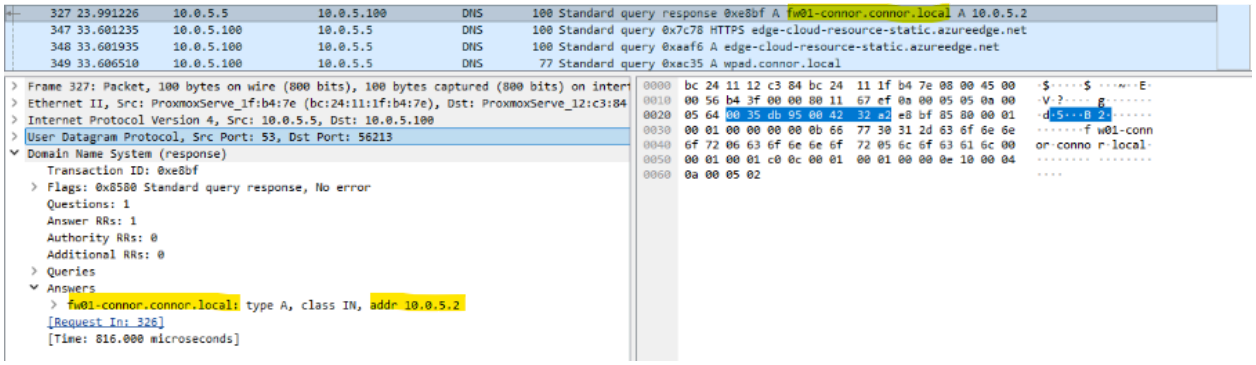
Deliverable 4: The authoritative name server is a.edu-servers.net.



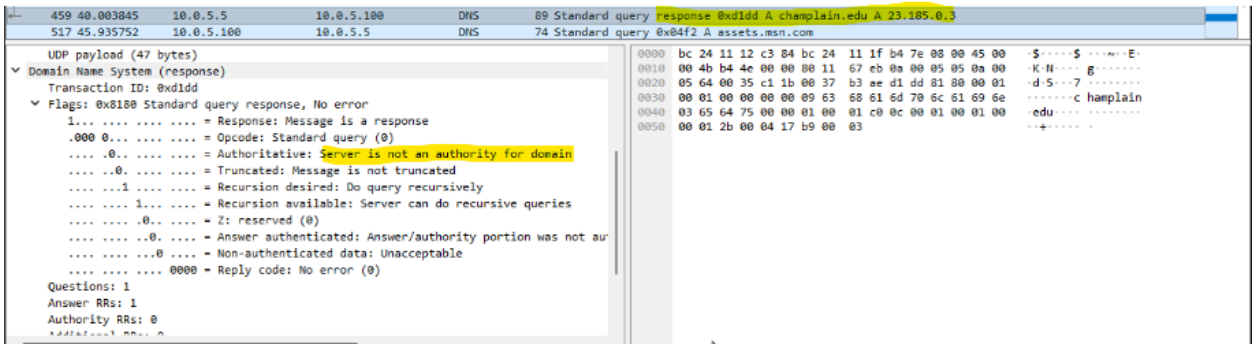
Deliverable 5: Image shows a reply code of “no such name”



Deliverable 6: Image shows a DNS response of 10.0.5.2 for fw01-connor.connor.local



Deliverable 7: Server 10.0.5.5 responds to the request, it is not authoritative.



Deliverable 8:

- A: maps a domain to an IPv4 address
- AAAA: maps a domain to an IPv6 address
- CNAME: Forwards one domain to another
- MX: Directs email traffic to a specific server
- TXT: basic text, often used for domain ownership verification or sender policy framework data
- NS: specifies the authoritative name server that manages the DNS records for domain or zone

Deliverable 9: Document formatting