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## **Network Traffic Analysis**

## **DNS (Easy)**

This challenge evaluates the contestant's ability to understand a packet capture containing network traffic using the DNS protocol. Use Wireshark to solve the challenge.

Questions 1 and 2 can be solved by looking for a packet with "Standard query" in the info column (packet #4). Once found, the Wireshark dissector will yield the answers.







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Questions 3 – 5 can be solved by looking for a packet with "Standard query response" in the info column (packet #5). Once found, the Wireshark dissector will yield the answers.

```
✓ Domain Name System (response)

     [Request In: 4]
     [Time: 0.000778000 seconds]
     Length: 195
     Transaction ID: 0x0000
  > Flags: 0x8080 Standard query response, No error
     Questions: 1
     Answer RRs: 4
     Authority RRs: 0
     Additional RRs: 0

✓ Queries

     > etas.com: type AXFR, class IN

✓ Answers

✓ etas.com: type SOA, class IN, mname training2003p

          Name: etas.com
          Type: SOA (Start Of a zone of Authority) (6)
          Class: IN (0x0001)
          Time to live: 3600
          Data length: 47
          Primary name server: training2003p
          Responsible authority's mailbox: hostmaster
          Serial Number: 3
          Refresh Interval: 60 (1 minute)
          Retry Interval: 600 (10 minutes)
          Expire limit: 86400 (1 day)
          Minimum TTL: 3600 (1 hour)
     > etas.com: type NS, class IN, ns training2003p
     > welcome.etas.com: type A, class IN, addr 1.1.1.1
     > etas.com: type SOA, class IN, mname training2003p
```

Question	Answer
What was the type of the DNS query requested?	AXFR
What domain was requested?	etas.com
How many items were in the response?	4
What is the TTL for all of the records?	3600
What is the IP address for the "welcome" subdomain?	1.1.1.1
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