

Trabalho 04 de Redes de Computadores

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2.

- Foram enviadas 4 consulta
- Eram do tipo A e AAAA
- O servidor DNS fez 2 respostas

The image shows a Wireshark packet capture of a DNS query and response. The packet list shows four packets: a DNS query for 'www.ufms.br' (packet 1), a DNS query for 'www.ufms.br' (packet 2), a DNS response for 'www.ufms.br' (packet 3), and a DNS response for 'www.ufms.br' (packet 4). The packet details pane shows the structure of the first packet, which is a DNS query for 'www.ufms.br'. The packet bytes pane shows the raw data of the first packet, which is a DNS query for 'www.ufms.br'.

No.	Time	Source	Destination	Protocol	Length	Info
1	0.000000000	192.168.0.5	189.7.72.38	DNS	71	Standard query 0x7aed A www.ufms.br
2	0.000036606	192.168.0.5	189.7.72.38	DNS	71	Standard query 0x46b5 AAAA www.ufms.br
3	0.014609582	189.7.72.38	192.168.0.5	DNS	87	Standard query response 0x7aed A www.uf...
4	0.014649411	189.7.72.38	192.168.0.5	DNS	99	Standard query response 0x46b5 AAAA www...

Frame 1: 71 bytes on wire (568 bits), 71 bytes captured (568 bits) on interface 0

Ethernet II, Src: Azurewav_c5:3d:f9 (54:27:1e:c5:3d:f9), Dst: ArrisGro_7b:20:a1 (20:73:55:7b:20:a1)

Internet Protocol Version 4, Src: 192.168.0.5, Dst: 189.7.72.38

User Datagram Protocol, Src Port: 43448, Dst Port: 53

Domain Name System (query)

```
0000 20 73 55 7b 20 a1 54 27 1e c5 3d f9 08 00 45 00  sU{.T' ..=...E.
0010 00 39 e7 fd 40 00 40 11 8c db c0 a8 00 05 bd 07  .9..@.@. ....
0020 48 26 a9 b8 00 35 00 25 56 a7 7a ed 01 00 00 01  H&...5.% V.z....
0030 00 00 00 00 00 00 03 77 77 77 04 75 66 6d 73 02  ....w ww.ufms.
0040 62 72 00 00 01 00 01  br....
```

3.

capture2.pcapng

File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help

Apply a display filter ... <Ctrl-/> Expression...

No.	Time	Source	Destination	Protocol	Length	Info
1	0.000000000	192.168.0.5	189.7.72.38	DNS	71	Standard query 0xa277 A www.ufms.br
2	0.000035556	192.168.0.5	189.7.72.38	DNS	71	Standard query 0xdc8e AAAA www.ufms.br
3	0.012457280	189.7.72.38	192.168.0.5	DNS	87	Standard query response 0xa277 A www.ufms.br A 200.129.192.1
4	0.013011306	189.7.72.38	192.168.0.5	DNS	99	Standard query response 0xdc8e AAAA www.ufms.br AAAA 2001:...

Frame 4: 99 bytes on wire (792 bits), 99 bytes captured (792 bits) on interface 0
 Ethernet II, Src: ArrisGro_7b:20:a1 (20:73:55:7b:20:a1), Dst: Azurewav_c5:3d:f9 (54:27:1e:c5:3d:f9)
 Internet Protocol Version 4, Src: 189.7.72.38, Dst: 192.168.0.5
 User Datagram Protocol, Src Port: 53, Dst Port: 52115
 Domain Name System (response)

```

0000 54 27 1e c5 3d f9 20 73 55 7b 20 a1 08 00 45 00  f'..=. s U{ ...E.
0010 00 55 76 6a 40 00 fc 11 42 52 bd 07 48 26 c0 a8  .Uvj@... BR..H&..
0020 00 05 08 35 cb 93 00 41 8e d2 dc 8e 81 80 00 01  ..5..A .....
0030 00 01 00 00 00 00 03 77 77 77 94 75 66 6d 73 02  ....w ww.ufms.
0040 62 72 00 00 1c 00 01 c0 0c 00 1c 00 01 00 00 9f  br.....
0050 24 00 10 20 01 12 f0 0c 41 00 02 00 00 00 00 00  4.. ..A.....
0060 00 00 00
  
```

Frame (frame), 99 bytes Packets: 4 · Displayed: 4 (100.0%) Profile: Default

4.

ex4.pcapng

File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help

Apply a display filter ... <Ctrl-/> Expression...

No.	Time	Source	Destination	Protocol	Length	Info
1	0.000000000	192.168.0.5	189.7.72.38	DNS	73	Standard query 0x4f57 A google.com.br
2	0.000036004	192.168.0.5	189.7.72.38	DNS	73	Standard query 0x8f8e AAAA google.com.br
3	0.013992002	189.7.72.38	192.168.0.5	DNS	329	Standard query response 0x4f57 A google...
4	0.014034328	189.7.72.38	192.168.0.5	DNS	101	Standard query response 0x8f8e AAAA goo...

Frame 1: 73 bytes on wire (584 bits), 73 bytes captured (584 bits) on interface 0
 Ethernet II, Src: Azurewav_c5:3d:f9 (54:27:1e:c5:3d:f9), Dst: ArrisGro_7b:20:a1 (20:73:55:7b:20:a1)
 Internet Protocol Version 4, Src: 192.168.0.5, Dst: 189.7.72.38
 User Datagram Protocol, Src Port: 58381, Dst Port: 53
 Domain Name System (query)

```

0000 20 73 55 7b 20 a1 54 27 1e c5 3d f9 08 00 45 00  sU{ .T' ..=...E.
0010 00 3b d4 59 40 00 40 11 a0 7d c0 a8 00 05 bd 07  .;.Y@.@. .).....
0020 48 26 e4 0d 00 35 00 27 8d ff 4f 57 01 00 00 01  H&...5.' ..OW....
0030 00 00 00 00 00 00 06 67 6f 6f 67 6c 65 03 63 6f  ....g oogle.co
0040 6d 02 62 72 00 00 01 00 01 m.br....
  
```

ex4 Packets: 4 · Displayed: 4 (100.0%) Load time: 0:0.0 Profile: Default