

## Assignment 6:

Correct IP. 50 bits sent

The image shows a Wireshark packet capture window titled "Capturing from enx0c37965f8a1d". The interface includes a menu bar (File, Edit, View, Go, Capture, Analyze, Statistics, Telephony, Wireless, Tools, Help) and a toolbar with various icons for file operations, capture control, and packet analysis. A filter bar at the top displays "Apply a display filter ... <Ctrl-/>".

The packet list table shows the following data:

No.	Time	Source	Destination	Protocol	Length	Info
92	3.006049529	192.168.10.2	192.168.10.1	UDP	64	50000 → 1024 Len=22
93	3.069458648	192.168.10.2	192.168.10.1	UDP	64	50000 → 1024 Len=22
94	3.070637352	192.168.10.2	192.168.10.1	UDP	64	50000 → 1024 Len=22
95	3.124929328	192.168.10.2	192.168.10.1	UDP	64	50000 → 1024 Len=22
96	3.126163248	192.168.10.2	192.168.10.1	UDP	64	50000 → 1024 Len=22
97	3.184899915	192.168.10.2	192.168.10.1	UDP	64	50000 → 1024 Len=22
98	3.186133375	192.168.10.2	192.168.10.1	UDP	64	50000 → 1024 Len=22
99	3.261250560	192.168.10.2	192.168.10.1	UDP	64	50000 → 1024 Len=22
100	3.262615930	192.168.10.2	192.168.10.1	UDP	64	50000 → 1024 Len=22

The packet details pane for the selected packet (No. 100) shows the following structure:

- Frame 1: 64 bytes on wire (512 bits), 64 bytes captured (512 bits) on interface enx0c37965f8a1d, id 0
- Ethernet II, Src: 00:00:00\_00:00:02 (00:00:00:00:00:02), Dst: 00:00:00\_00:00:01 (00:00:00:00:00:01)
- Internet Protocol Version 4, Src: 192.168.10.2, Dst: 192.168.10.1
- User Datagram Protocol, Src Port: 50000, Dst Port: 1024
- Data (22 bytes)
  - Data: 686d6666746365627a77676866736e6f706c6a786e72
  - [Length: 22]

The packet bytes pane displays the raw data in hexadecimal and ASCII:

```
0000  00 00 00 00 00 01 00 00 00 00 00 02 08 00 45 00  .....E.
0010  00 32 00 01 00 00 40 11 e5 66 c0 a8 0a 02 c0 a8  .2....@. .f.....
0020  0a 01 c3 50 04 00 00 1e fa 59 68 6d 66 66 74 63  ...P....Yhmfft
0030  65 62 7a 77 67 68 66 73 6e 6f 70 6c 6a 78 6e 72  ebzwghfs nopljxnr
```

The status bar at the bottom indicates "Data (data.data), 22 byte(s)", "Packets: 100 · Displayed: 100 (100.0%)", and "Profile: Default".

Correct IP 100 bits sent

Capturing from enx0c37965f8a1d

File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help

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

No.	Time	Source	Destination	Protocol	Length	Info
174	6.273635114	192.168.10.2	192.168.10.1	UDP	64	50000 → 1024 Len=22
175	6.336524546	192.168.10.2	192.168.10.1	UDP	64	50000 → 1024 Len=22
176	6.337701702	192.168.10.2	192.168.10.1	UDP	64	50000 → 1024 Len=22
177	6.408476370	192.168.10.2	192.168.10.1	UDP	64	50000 → 1024 Len=22
178	6.409863842	192.168.10.2	192.168.10.1	UDP	64	50000 → 1024 Len=22
179	6.476453006	192.168.10.2	192.168.10.1	UDP	64	50000 → 1024 Len=22
180	6.477658983	192.168.10.2	192.168.10.1	UDP	64	50000 → 1024 Len=22
181	6.552707049	192.168.10.2	192.168.10.1	UDP	64	50000 → 1024 Len=22
182	6.553932888	192.168.10.2	192.168.10.1	UDP	64	50000 → 1024 Len=22

Frame 1: 64 bytes on wire (512 bits), 64 bytes captured (512 bits) on interface enx0c37965f8a1d, id 0

Ethernet II, Src: 00:00:00\_00:00:02 (00:00:00:00:00:02), Dst: 00:00:00\_00:00:01 (00:00:00:00:00:01)

Internet Protocol Version 4, Src: 192.168.10.2, Dst: 192.168.10.1

User Datagram Protocol, Src Port: 50000, Dst Port: 1024

Data (22 bytes)

Data: 7a787a6d646c6d72626767776e667467626d73796967

[Length: 22]

```

0000  00 00 00 00 00 01 00 00  00 00 00 02 08 00 45 00  .....E.
0010  00 32 00 01 00 00 40 11  e5 66 c0 a8 0a 02 c0 a8  .2....@. .f.....
0020  0a 01 c3 50 04 00 00 1e  f0 4d 7a 78 7a 6d 64 6c  ...P... .Mzxm dl
0030  6d 72 62 67 67 77 6e 66  74 67 62 6d 73 79 69 67  mrbggwnf tgbmsyig

```

Data (data.data), 22 byte(s)      Packets: 182 - Displayed: 182 (100.0%)      Profile: Default

Correct IP 200 bits sent:

Capturing from enx0c37965f8a1d

File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help

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

No.	Time	Source	Destination	Protocol	Length	Info
237	12.942031838	192.168.10.2	192.168.10.1	UDP	64	50000 → 1024 Len=22
238	13.016920333	192.168.10.2	192.168.10.1	UDP	64	50000 → 1024 Len=22
239	13.018112876	192.168.10.2	192.168.10.1	UDP	64	50000 → 1024 Len=22
240	13.096910874	192.168.10.2	192.168.10.1	UDP	64	50000 → 1024 Len=22
241	13.098231200	192.168.10.2	192.168.10.1	UDP	64	50000 → 1024 Len=22
242	13.149036825	192.168.10.2	192.168.10.1	UDP	64	50000 → 1024 Len=22
243	13.150231295	192.168.10.2	192.168.10.1	UDP	64	50000 → 1024 Len=22
244	13.237389574	192.168.10.2	192.168.10.1	UDP	64	50000 → 1024 Len=22
245	13.238949109	192.168.10.2	192.168.10.1	UDP	64	50000 → 1024 Len=22

Frame 1: 64 bytes on wire (512 bits), 64 bytes captured (512 bits) on interface enx0c37965f8a1d, id 0

Ethernet II, Src: 00:00:00\_00:00:02 (00:00:00:00:00:02), Dst: 00:00:00\_00:00:01 (00:00:00:00:00:01)

Internet Protocol Version 4, Src: 192.168.10.2, Dst: 192.168.10.1

User Datagram Protocol, Src Port: 50000, Dst Port: 1024

Data (22 bytes)

Data: 6c6a64717679617a74736f676971736b736279737578

[Length: 22]

```

0000  00 00 00 00 01 00 00 00 00 02 08 00 45 00  ...      .E.
0010  00 32 00 01 00 00 40 11 e5 66 c0 a8 0a 02 c0 a8  .2...@. .f.....
0020  0a 01 c3 50 04 00 00 1e d7 37 6c 6a 64 71 76 79  .P... .7ljdqvy
0030  61 7a 74 73 6f 67 69 71 73 6b 73 62 79 73 75 78  aztsogiq sksbysux

```

Data (data.data), 22 byte(s)      Packets: 245 · Displayed: 245 (100.0%)      Profile: Default

Incorrect IP 50 bist sent:

Capturing from enx0c37965f8a1d

File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help

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

No.	Time	Source	Destination	Protocol	Length	Info
42	2.629084381	192.168.10.2	192.168.10.1	UDP	64	50000 → 1024 Len=22
43	2.700873526	192.168.10.2	192.168.10.1	UDP	64	50000 → 1024 Len=22
44	2.776897113	192.168.10.2	192.168.10.1	UDP	64	50000 → 1024 Len=22
45	2.836749435	192.168.10.2	192.168.10.1	UDP	64	50000 → 1024 Len=22
46	2.912772692	192.168.10.2	192.168.10.1	UDP	64	50000 → 1024 Len=22
47	2.969222317	192.168.10.2	192.168.10.1	UDP	64	50000 → 1024 Len=22
48	3.028855205	192.168.10.2	192.168.10.1	UDP	64	50000 → 1024 Len=22
49	3.100767255	192.168.10.2	192.168.10.1	UDP	64	50000 → 1024 Len=22
50	3.168774716	192.168.10.2	192.168.10.1	UDP	64	50000 → 1024 Len=22

Frame 1: 64 bytes on wire (512 bits), 64 bytes captured (512 bits) on interface enx0c37965f8a1d, id 0

Ethernet II, Src: 00:00:00\_00:00:03 (00:00:00:00:00:03), Dst: 00:00:00\_00:00:01 (00:00:00:00:00:01)

Internet Protocol Version 4, Src: 192.168.10.2, Dst: 192.168.10.1

User Datagram Protocol, Src Port: 50000, Dst Port: 1024

Data (22 bytes)

Data: 636463636e6477677979627961687378636e69736171

[Length: 22]

```

0000  00 00 00 00 00 01 00 00 00 00 03 08 00 45 00  .....E.
0010  00 32 00 01 00 00 40 11 e5 66 c0 a8 0a 02 c0 a8  .2....@. .f.....
0020  0a 01 c3 50 04 00 00 1e 17 53 63 64 63 63 6e 64  ...P.... .Scdccnd
0030  77 67 79 79 62 79 61 68 73 78 63 6e 69 73 61 71  wgyybyah sxcnisaq

```

Data (data.data), 22 byte(s)      Packets: 50 · Displayed: 50 (100.0%)      Profile: Default

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