CS39006: Networks Laboratory

Networking Tools and Wireshark

Part-2: Wireshark Analysis

Report For 22CS30027_File1.txt file:

1) Screenshot:

No.	Time	Source	Destination	Protocol	Length Info
	1 0.000000000	127.0.0.1	127.0.0.1	UDP	61 42317 → 1308 Len=19
	2 0.006140626	127.0.0.1	127.0.0.1	UDP	47 1308 → 42317 Len=5
	3 0.006453769	127.0.0.1	127.0.0.1	UDP	47 42317 → 1308 Len=5
	4 0.006542459	127.0.0.1	127.0.0.1	UDP	51 1308 → 42317 Len=9
	5 0.006643765	127.0.0.1	127.0.0.1	UDP	47 42317 → 1308 Len=5
	6 0.006716449	127.0.0.1	127.0.0.1	UDP	51 1308 → 42317 Len=9
	7 0.006795539	127.0.0.1	127.0.0.1	UDP	47 42317 → 1308 Len=5
	8 0.006888608	127.0.0.1	127.0.0.1	UDP	51 1308 → 42317 Len=9
	9 0.006986095	127.0.0.1	127.0.0.1	UDP	47 42317 → 1308 Len=5
	10 0.007052565	127.0.0.1	127.0.0.1	UDP	48 1308 → 42317 Len=6

2) Protocol used is **UDP**

3) Source and Destination IP Addresses and Ports:

• Source IP Address: 127.0.0.1

• Destination IP Address: 127.0.0.1

If packet from server to client

• Source Port: 1308

• **Destination Port:** 42317

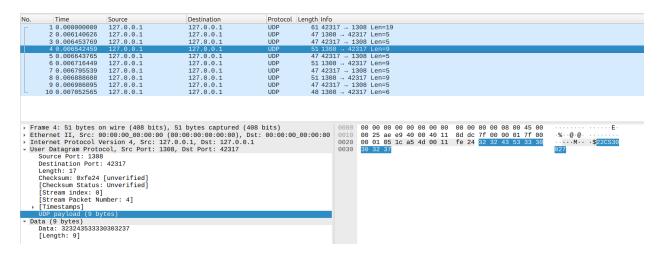
If packet from client to server

Source Port: 42317

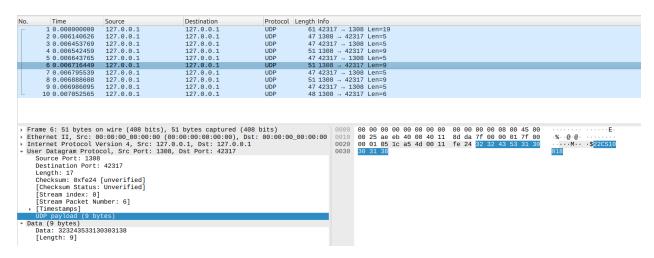
Destination Port: 1308

- 4) What is the size (in bytes) of the FILENAME request sent by the client: **61** bytes Packet / **19 bytes** Data
- 5) What is the size of the server's response for HELLO and the first word (*WORD*1): **47 and 47 bytes** Packet / **5 and 5 bytes** Data **Respectively**

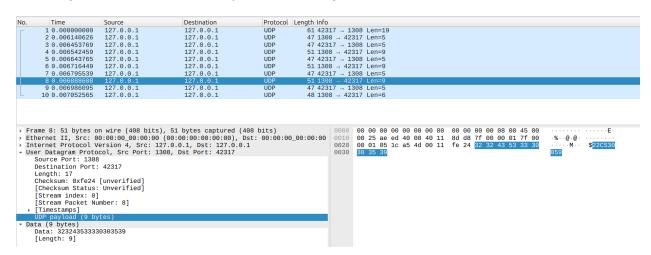
6) UDP Payload of "22CS30027" packet is: 9 bytes



UDP Payload of "22CS30018" packet is: 9 bytes



UDP Payload of "22CS30059" packet is: 9 bytes



- 7) total time taken for the file transfer from start to finish = **0.007052565 sec**
- 8) average size of each packet during the communication : **49.7 bytes** average size of UDP payload package is : **7.7 bytes**