Government Engineering College, Thrissur

CS334 – Network Programming Lab

Documentation -

Exp 10 –

Wireshark to Observer UDP Packets

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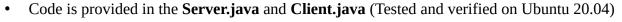
TCR18CS031

GECT CSE S6

Experiment 10

Using Wireshark observe data transferred in client server communication using UDP and identify the UDP datagram.

Executing program

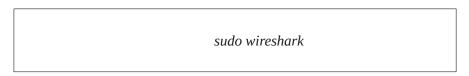




- Client Server program is not mandatory. We can observer the UDP packets from internet to browser using wireshark. But here for the testing and for sake of simplicity we generate using the java program
- Server.java program sends a message "ABCDE" to client every two seconds. To stop transmission use CTRL + C

PROCEDURE

Open wireshark in super user mode using the command



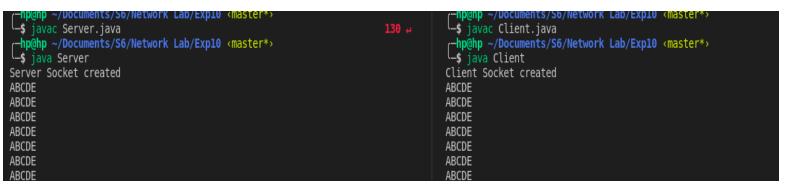
• Open the Loopback mode. Since the transmission is between two processes in the same system between two ports.

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Output / Screenshots

Running server and client

Client Server



List of UDP Packets Received

No.	Time	Source	Destination	Protocol Length	Info
г	1 0.000000000	127.0.0.1	127.0.1.1	UDP	47 5000 → 6000 Len=5
	2 2.000936749	127.0.0.1	127.0.1.1	UDP	47 5000 → 6000 Len=5
	3 4.002062733	127.0.0.1	127.0.1.1	UDP	47 5000 → 6000 Len=5
	4 6.003024671	127.0.0.1	127.0.1.1	UDP	47 5000 → 6000 Len=5
	5 8.003800562	127.0.0.1	127.0.1.1	UDP	47 5000 → 6000 Len=5
	6 10.005362717	127.0.0.1	127.0.1.1	UDP	47 5000 → 6000 Len=5
L	7 12.006237713	127.0.0.1	127.0.1.1	UDP	47 5000 → 6000 Len=5

Contents of Packet

No.	Time	Source	Destination	Protocol Length	Info
г	1 0.000000000	127.0.0.1	127.0.1.1	UDP	47 5000 → 6000 Len=5
	2 2.000936749	127.0.0.1	127.0.1.1	UDP	47 5000 → 6000 Len=5
	3 4.002062733	127.0.0.1	127.0.1.1	UDP	47 5000 → 6000 Len=5
	4 6.003024671	127.0.0.1	127.0.1.1	UDP	47 5000 → 6000 Len=5
	5 8.003800562	127.0.0.1	127.0.1.1	UDP	47 5000 → 6000 Len=5
	6 10.005362717	127.0.0.1	127.0.1.1	UDP	47 5000 → 6000 Len=5
L	7 12.006237713	127.0.0.1	127.0.1.1	UDP	47 5000 → 6000 Len=5

- ightarrow Frame 3: 47 bytes on wire (376 bits), 47 bytes captured (376 bits) on interface lo, id 0

- Data (5 bytes)