

Echo Client

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1. Run UDPMYEcho.jar

```
→ Echo Client java -jar UDPMYEcho.jar
Server Port Number : 8080
Server IP address : 166.104.28.49
Input Data : abc
Echo Data : abc
Input Data : █
```

2. UDP 패킷 캡처

The image shows a Wireshark packet capture interface for a file named 'echo_client.pcapng'. The filter bar shows the filter 'udp && ip.addr == 166.104.28.49'. The packet list shows two packets, both of which are selected. The details pane shows the structure of the selected packet (Frame 3):

- Frame 3: 45 bytes on wire (360 bits), 45 bytes captured (360 bits) on interface 0
- Ethernet II, Src: Apple_f1:f0:49 (a4:5e:60:f1:f0:49), Dst: EfmNetwo_74:06:40 (64:e5:99:74:06:40)
- Internet Protocol Version 4, Src: 192.168.0.103, Dst: 166.104.28.49
- User Datagram Protocol, Src Port: 53341, Dst Port: 8080
 - Source Port: 53341
 - Destination Port: 8080
 - Length: 11
 - Checksum: 0xc7de [unverified]
 - [Checksum Status: Unverified]
 - [Stream index: 1]
- Data (3 bytes)
 - Data: 616263
 - [Length: 3]

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

Offset	Hex	ASCII
0000	64 e5 99 74 06 40 a4 5e 60 f1 f0 49 08 00 45 00	d..t.@.^`..I..E.
0010	00 1f bf 82 00 00 40 11 37 a3 c0 a8 00 67 a6 68@. 7....g.h
0020	1c 31 d0 5d 1f 90 00 0b c7 de 61 62 63	.1.].... ..abc

한줄평 :

와이어샹크 arp 실습을 통해 조금이나마 어떻게 쓰는지 이해를 하고 echo client과제를 하게 되어 비교적 쉽게 진행하였습니다. 하면 할수록 신기한 것 같습니다.