## CENG 421 NETWORK PROGRAMMING - ASSIGNMENT 2

40- 'dnf' that is a package manager is used for the installation of the tcpdump by typing **\$ sudo dnf install tcpdump.** Besides, for the finding the network interface numbers **\$ ip addr show** commmand is used; the interfaces are 'lo' and 'enp0s3'.

To get the network packets from a single interface **\$ tcpdump -i enp0s3** was typed as can be seen in Figure 1.

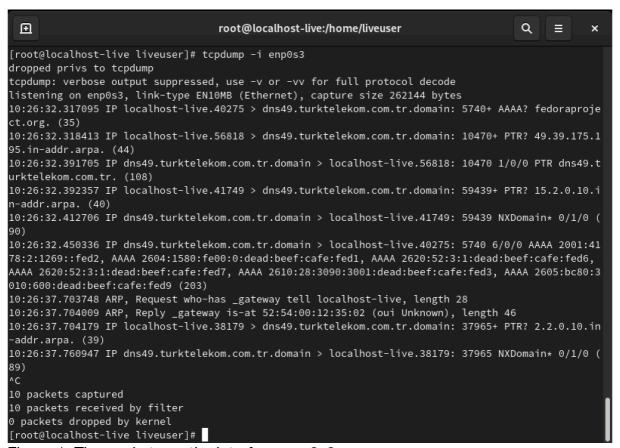


Figure 1: The packets on the interface enp0s3.

To capture the network interface and IP adresses \$ tcpdump -n -i enp0s3 [1] is typed. With the -n flag, adresses cant be converted into names as can be seen in Figure 2.

```
[root@localhost-live liveuser]# tcpdump -n -i enp0s3
dropped privs to tcpdump
tcpdump: verbose output suppressed, use -v or -vv for full protocol decode
listening on enp0s3, link-type EN10MB (Ethernet), capture size 262144 bytes
10:14:31.921016 IP 10.0.2.15.58991 > 85.199.214.98.ntp: NTPv4, Client, length 48
10:14:31.993440 IP 85.199.214.98.ntp > 10.0.2.15.58991: NTPv4, Server, length 48
10:14:34.268977 IP 10.0.2.15.58446 > 195.33.242.133.ntp: NTPv4, Client, length 48
10:14:34.300560 IP 195.33.242.133.ntp > 10.0.2.15.58446: NTPv4, Server, length 48
10:14:37.319835 ARP, Request who-has 10.0.2.2 tell 10.0.2.15, length 28
10:14:37.320103 ARP, Reply 10.0.2.2 is-at 52:54:00:12:35:02, length 46
```

## Kaynakça

[1] «Manpage of TCPDUMP,» TCPDUMP, 10 08 2020. [Çevrimiçi]. Available: https://www.tcpdump.org/manpages/tcpdump.1.html.