Network Data Analysis using topdomp

i) while topdomp host your host is running one command window, sun ping 127.0.0.1 from another command corndow. From the ping output, is the 127.0.0.1 interface on? Can you see any Icmp ressage from your host in the topdomp sutput? why? and Terminal 1:

\$ sudo topdomp host 172.16.59.39 (pc ip)

Terminal 2:

Yes, the interface is on since packets are transmitted

No, we do not see any ICMP messages sent from host since "127.0.0.1" is the loopback address.

Temp is a network larger protocol. It is used to communicate with the source of a data packet about transmission issues. So, if a datagroum is not delivered, ICMP might not report this back to the host. While using doop backaddoess, the packets coon't be leaving our system. So ICMP won't be reported

& ping 172:16.59.57 all (neighbour spe is) This gives Temp requests & and replies because it happens botween two systems. (Packet exchanging)

#FMI: man topdomp

3) Explain briefly the purposes of the following teldung expressions. a) topdomp udp port 520 and Shows traffic of Dros paratured User Datagram Protocol with either somer or client on post 520. and - x: prints data of pathet contents in both her -s: defines the snaplength (size) of the capture in bytes. Here -s 120 implies that the size is reduced -x: When parsing and printing in addition to printing the headers of each packet, it prints the data of each packet (minus its link level header) in hex ip proto: lets you target a specific protocol. Here ipt. : the command prints header of ipv4 protocol 89 (OSF) in hexa and captures loo bytes of data. c) topdomp -x -s to host ip address and (ip address or ip. addr3) aus -- x: same as above - 5 70; snaplength = 70 = 5 captures 70 bytes of date This command searches for those packets where if address is of host is that of ip addr 1 and (either that of ip-adda or ip-addr3) d) topdump -x -s to host ip address and no if

any '- -x : Same as above

-s 70% captures 70 bytes of data. This command dists all packets where ip address is equisame as ip addr I and is not equal to if addra.