

PACKET GENERATION ON NPING AND CAPTURING USING WIRESHARK

1) Download nping aka NMAP from the following website.

<https://nmap.org/download#windows>

2) Download Wireshark from the following website.

<https://www.wireshark.org/#download>

3) Install both the .exe files and setup 'em.

4) Open the command prompt and type these commands.

THE SYNTAX FOR GENERATING PACKETS:

a) `nping --udp --dest-ip 192.168.0.1 -p 2000 --privileged -c 5000000 --data-length 1 --delay 0 -H -N`

This is the command line used to generate UDP packets.

b) `nping --tcp --dest-ip 192.168.0.1 -p 2000 --privileged -c 5000000 --data-length 1 --delay 0 -H -N`

This is the command line used to generate TCP packets.

c) `nping --icmp --dest-ip 192.168.0.1 --privileged -c 5000000 --data-length 1 --delay 0 -H -N`

This is the command line used to generate UDP packets.

5) Its always suggested to execute one command at a time. So that we can capture them and analyse them properly.

6) Open wire shark and Start capturing the data packets.

7) Click STOP after a few seconds.

8) In search bar just type the packet's name.

for instance: type "tcp" if you pinged TCP on command prompt.

9) The analysis of the data packets will be displayed below.

Reference:

https://www.youtube.com/watch?v=wnPNdPVcG_M

<https://www.youtube.com/watch?v=k6rx1krSUAo&t=280s>