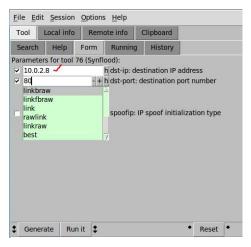
## **Task 1: SYN Flooding Attack**

Turn off the connection first in the CyberSec-Server.



Type 'sudo tshark' on the CyberSec-Client

Type 'sudo netwag' and run it. Once the interface shows up, use the search box and type syn (tool 76).



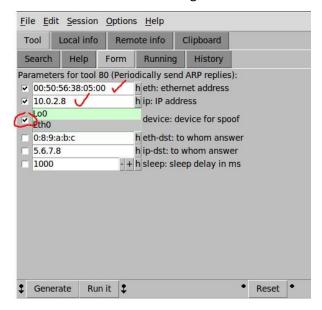
Enter all the required details then run it, and press 'interrupt' after few seconds. The result can be seen in Cyber-Sec Client where it shows [SYN-ACK]



## Task 2: ARP Cache Poisoning

Open CyberSec-Server, get the arp information by entering arp-a and open Wireshark inside the CyberSec-Client.

Once again open netwag on the CyberSec-Attacker and search for tool 80 and enter all details inside the form section. After running the attack for a few seconds, press 'interrupt' button.

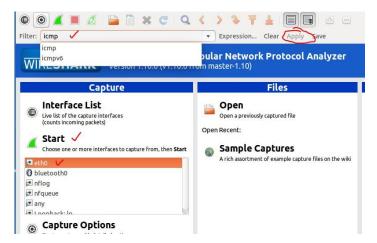


As can be seen the result has 'arp' on the filter.

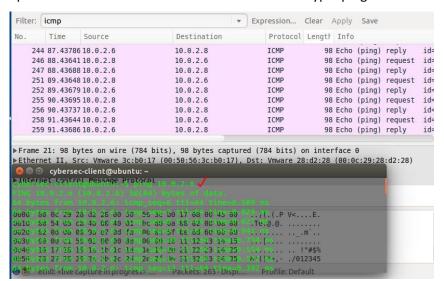
```
cybersec server@ubuntu:~$ arp -a (10.0.2.7) at 00:50:56:2d:b6:9 (10.0.2.7) at 00:50:56:2d:b6:9 (10.0.2.8) at 00:50:56:3c:b0:170 [ether] on eth0 cybersec-server@ubuntu:~$ arp -a (10.0.2.7) at 00:50:56:2d:b6:94 [ether] on eth0 (10.0.2.1) at <incomplete> on eth0 (10.0.2.8) at 00:50:56:38:05:000 [ether] on eth0
```

## **Task 3: ICMP Redirect Attack**

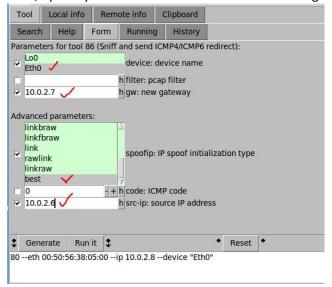
Go to CyberSec-Client and enter 'sudo wireshark'. Fill in 'icmp' in the filter then press apply. Then press start.



Open another terminal in the ClientSec-Client and type 'ping 10.0.2.6'. Here's the result.



Then, open CyberSec-Attacker and run 'sudo netwag' on the terminal.



Last thing is to verify the result on CyberSec-Server by pinging 10.0.2.6

