IT352: Information Assurance and Security Lab Assignment 3

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Objectives:

1. Use the sniff() function before capturing the real-time network traffic.

- 2. Display the entire captured packet in raw format onto the terminal of the host system and also display all the header fields of the captured packet (Ethernet, IP and ICMP/TCP/UDP) in human-understandable form onto the terminal of the host system.
- 3. Demonstrate the Packet Filtering Firewall operations by using appropriate extracted header fields of the captured packet as well as the given ACL file.

Screenshots

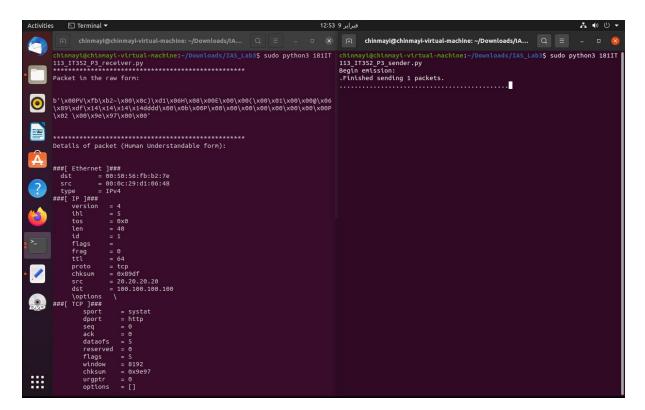
Test Case 1

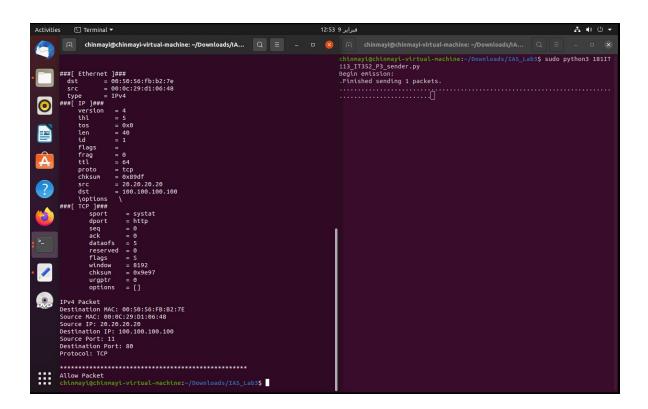
Source IP: 20.20.20.20

Destination IP: 100.100.100.100

Source port: 11 Destination port: 80. Function used: sr1()

Destination IP to set the filter option in sniff() function: 100.100.100.100





Test Case 2

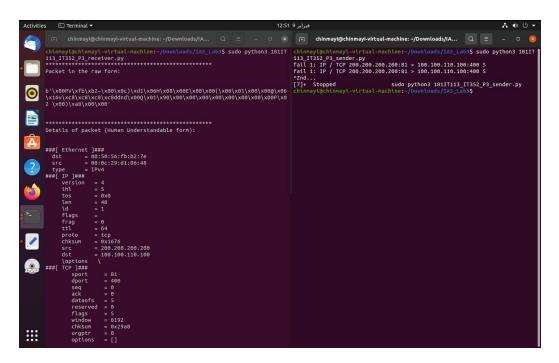
Source IP: 200.200.200.200

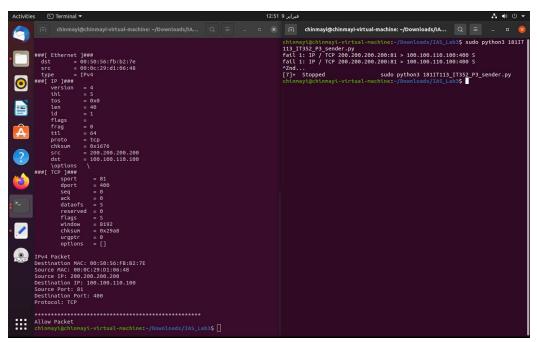
Destination IP: 100.100.110.100

Source port: 81

Destination port: 400 Function used: srloop()

Destination IP to set the filter option in sniff() function: 100.100.110.100





Test Case 3

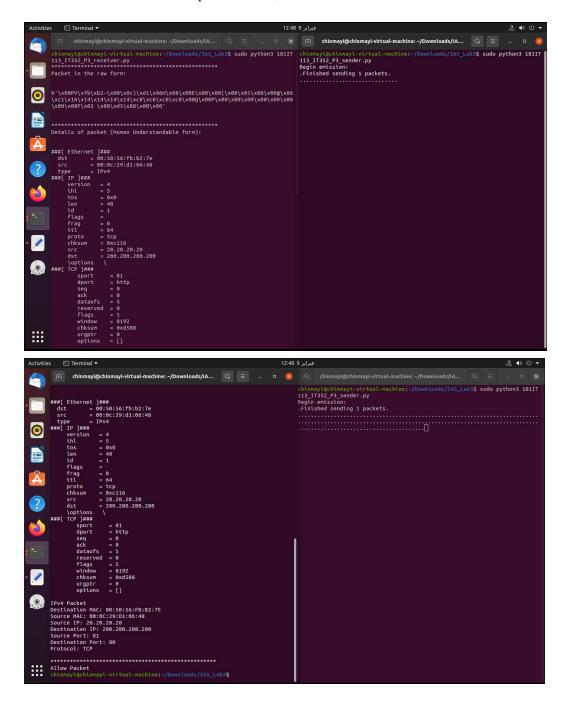
Source IP: 20.20.20.20

Destination IP: 200.200.200.200

Source port: 81

Destination port: 80. Function used: sr()

Destination IP to set the filter option in sniff() function: 200.200.200.200



Test Case 4

Source IP: 200.20.202.20

Destination IP: 100.102.100.102

Source port: 81

Destination port: 80. Function used: srloop()

Destination IP to set the filter option in sniff() function: 100.102.100.102

