**Practical No 8**

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Topic: Writing a Python program for sending packets with unknown Source IP (IP Spoofing).

from scapy.all import \*

conf.verb = 0

import sys

#src\_ip="192.168.1.2"

#dst\_ip="192.168.1.5"

check\_cmdline\_arg = len(sys.argv)

print("Total arguments passed: ", check\_cmdline\_arg)

if check\_cmdline\_arg > 1:

print("\*\*\* Input taken from command line \*\*\*")

src\_ip\_range = sys.argv[1]

dst\_ip = sys.argv[2]

port\_range = sys.argv[3]

else:

print("\*\*\* Manual Input mode \*\*\*")

src\_ip\_range = input("Enter source IP range: ")

dst\_ip = input("Enter destination IP: ")

port\_range= input("Enter port range: ")

src\_ip\_splitted = src\_ip\_range.split(".")

src\_ip\_splitted\_host = src\_ip\_splitted[-1].split("-")

port\_splitted = port\_range.split("-")

port\_start = int(port\_splitted[0])

port\_end = int(port\_splitted[1])

for host in range (int(src\_ip\_splitted\_host[0]),int(src\_ip\_splitted\_host[1])+1):

src\_ip = src\_ip\_splitted[0]+"."+src\_ip\_splitted[1]+"."+src\_ip\_splitted[2]+"."+str(host)

for port in range (port\_start,port\_end+1):

pkt = IP(src = src\_ip, dst=dst\_ip)/TCP(dport=port)

#print(pkt)

send(pkt, iface="eth0")

print(f"Packet sent from {src\_ip} to {dst\_ip} on port {port}")

$ sudo python3 IPspoofing.py

Total arguments passed: 1

\*\*\* Manual Input mode \*\*\*

Enter source IP range: 192.168.1.4-6

Enter destination IP: 192.168.1.3

Enter port range: 1-4

Packet sent from 192.168.1.4 to 192.168.1.3 on port 1

Packet sent from 192.168.1.4 to 192.168.1.3 on port 2

Packet sent from 192.168.1.4 to 192.168.1.3 on port 3

Packet sent from 192.168.1.4 to 192.168.1.3 on port 4

Packet sent from 192.168.1.5 to 192.168.1.3 on port 1

Packet sent from 192.168.1.5 to 192.168.1.3 on port 2

Packet sent from 192.168.1.5 to 192.168.1.3 on port 3

Packet sent from 192.168.1.5 to 192.168.1.3 on port 4

Packet sent from 192.168.1.6 to 192.168.1.3 on port 1

Packet sent from 192.168.1.6 to 192.168.1.3 on port 2

Packet sent from 192.168.1.6 to 192.168.1.3 on port 3

Packet sent from 192.168.1.6 to 192.168.1.3 on port 4