Parshvanath Charitable Trust's
A. P. SHAH INSTITUTE OF TECHNOLOGY
(Approved by AICTE New Delhi & Govt. of Maharashtra, Affiliated to University of Mumbai)
(Religious Jain Minority)

Department of Information Technology

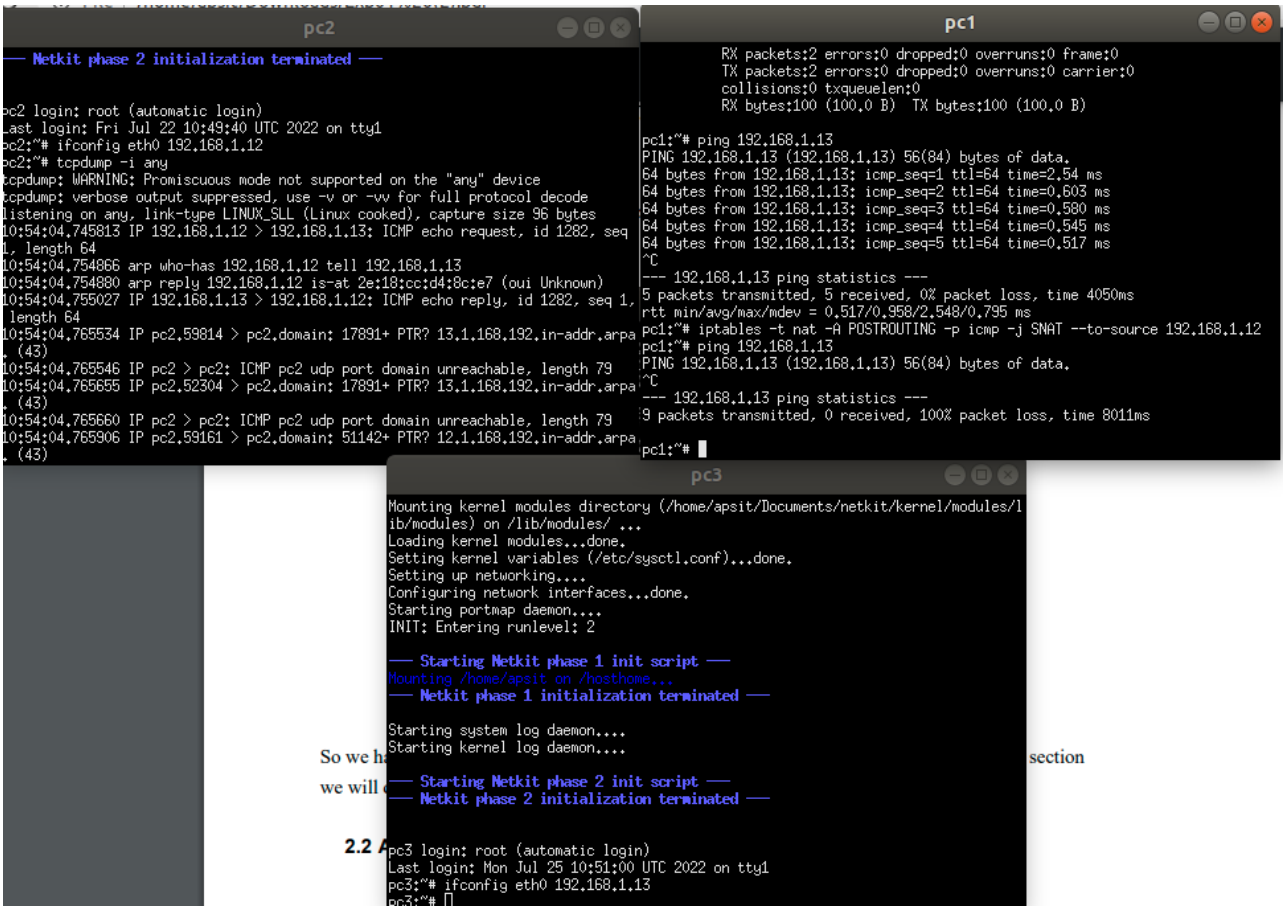
Semester: V
Academic Year: 2022-23
Class / Branch: TE IT
Subject: Security Lab (SL)
Name of Instructor: Prof. Apeksha Mohite

Name of Student: visha
Student ID: 20104084

EXPERIMENT NO. 1

Aim: To Demonstrate IP Spoofing and ARP Spoofing in Local Area Network.

Demonstration of IP Spoofing:



ARP TABLE:

```
apsit@apsit-HP-280-G3-MT:~$ arp -e
Address                  HWtype  HWaddress           Flags Mask            Iface
_gateway                 ether   c8:4f:86:05:06:24   C                     enp4s0
192.168.87.8             ether   18:60:24:a9:23:83   C                     enp4s0
192.168.5.15             ether   10:62:e5:5c:62:9e   C                     enp4s0
apsit@apsit-HP-280-G3-MT:~$ arp -e
Address                  HWtype  HWaddress           Flags Mask            Iface
_gateway                 ether   c8:4f:86:05:06:24   C                     enp4s0
192.168.87.8             ether   02:42:eb:0c:ac:4d   C                     enp4s0
192.168.5.15             ether   10:62:e5:5c:62:9e   C                     enp4s0
```

Demonstration of ARP Spoofing:

```
root@apsit-HP-280-G3-MT:~# cat /var/log/syslog | grep 192.168.87.8
Jul 25 16:04:46 apsit-HP-280-G3-MT arpwatch: new station 192.168.87.8 02:42:eb:0c:ac:4e enp4s0
root@apsit-HP-280-G3-MT:~# cat /var/log/syslog | grep 192.168.87.8
Jul 25 16:04:46 apsit-HP-280-G3-MT arpwatch: new station 192.168.87.8 02:42:eb:0c:ac:4e enp4s0
Jul 25 16:08:21 apsit-HP-280-G3-MT arpwatch: changed ethernet address 192.168.87.8 02:42:eb:0c:ac:4f (02:42:eb:0c:ac:4e) enp4s0
root@apsit-HP-280-G3-MT:~# cat /var/log/syslog | grep 192.168.87.8
Jul 25 16:04:46 apsit-HP-280-G3-MT arpwatch: new station 192.168.87.8 02:42:eb:0c:ac:4e enp4s0
Jul 25 16:08:21 apsit-HP-280-G3-MT arpwatch: changed ethernet address 192.168.87.8 02:42:eb:0c:ac:4f (02:42:eb:0c:ac:4e) enp4s0
Jul 25 16:11:38 apsit-HP-280-G3-MT arpwatch: changed ethernet address 192.168.87.8 02:42:eb:0c:ac:1b (02:42:eb:0c:ac:4f) enp4s0
root@apsit-HP-280-G3-MT:~#
```