Aldel Education Trust's



St. John College of Engineering and Management, Palghar



(A Christian Religious Minority Institution)

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NAAC Accredited with Grade 'A'

DEPARTMENT OF COMPUTER ENGINEERING

Lab code: CSL602 Class: T.E./COMP/A2 & A3

Course name: Cryptography & System Security Lab

EXPERIMENT 6

Aim: To detect ARP spoofing/packet detection using ARPWATCH [LO3].

Software used: Binary Plant ARP Monitor (Windows)

Theory:

Include following points in the theory,

- 1. What is ARP? Need of ARP.
- 2. What is ARP Spoofing? Types of ARP spoofing.
- 3. Steps of ARP Spoofing. List available ARP spoofing tools.
- 4. How ARP Spoofing is detected, prevented and protected?

Implementation: (Windows)

- 1) Start ARP CACHE WATCH tool on the system.
- 2) Capture a trace of ARP traffic.
- 3) Identify the MAC address of your system using cmd.
- 4) Find the IP address of the local router or default gateway that your system uses to reach the rest of the Internet.
- 5) Identify the ARP packets from your system.
- Analyze the contents of these packets in depth and identify the data required for ARP spoofing.

Note: Use the following commands in cmd and take screenshots and explain them in brief:

- 1) getmac
- 2) *arp –a*
- 3) arp -s your friend's IP address your friend's MAC/physical address
- 4) arp -d your friend's IP address your friend's MAC/physical address
- 5) getmac /s your system's IP address /u username of the system

Output:

- 1) Printout of the screenshots showing traces capture with ARP packet details. Highlight the important ARP packet details.
- 2) Printout of the cmd prompt showing Ethernet interface details. Highlight MAC and default gateway addresses.

Conclusion: Mention your conclusion here

Viva Questions:

- 1. What is spoofing?
- 2. What is the use of ARP protocol?
- 3. Why is ARP protocol vulnerable?
- 4. Discuss preventive measures to mitigate ARP spoofing.

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