

Evaluation Sheet

Class: T.E Computer Engineering

Sem: VI

Subject: Cryptography and System Security

Experiment No: 12

Date:

Title of Experiment: Detect ARP spoofing using nmap and/or open source ARPWATCH and wireshark. Use arping tool to generate gratuitous arps and monitor using wireshark.

Sr. No.	Evaluation Criteria	Max Marks	Marks Obtained
1	Practical Performance	12	
2	Oral	2	
3	Timely Submission	1	
	Total	15	

Signature of Subject Teacher
[Vijesh M.Nair]

Output –

```
student@student-HP-Desktop-Pro-G1-MT:~$ sudo apt install arpwatch
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following package was automatically installed and is no longer required:
  gir1.2-goa-1.0
Use 'sudo apt autoremove' to remove it.
The following additional packages will be installed:
  gawk ieee-data libsigsegv2
Suggested packages:
  gawk-doc
The following NEW packages will be installed:
  arpwatch gawk ieee-data libsigsegv2
0 upgraded, 4 newly installed, 0 to remove and 124 not upgraded.
Need to get 13.9 kB/2,065 kB of archives.
After this operation, 12.3 MB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 http://in.archive.ubuntu.com/ubuntu focal/main amd64 libsigsegv2 amd64 2.12-2
[13.9 kB]
Fetched 13.9 kB in 10s (1,407 B/s)
Selecting previously unselected package libsigsegv2:amd64.
(Reading database ... 186236 files and directories currently installed.)
Preparing to unpack .../libsigsegv2_2.12-2_amd64.deb ...
Unpacking libsigsegv2:amd64 (2.12-2) ...
Setting up libsigsegv2:amd64 (2.12-2) ...
Selecting previously unselected package gawk.
(Reading database ... 186243 files and directories currently installed.)
Preparing to unpack .../gawk_1%3a5.0.1+dfsg-1_amd64.deb ...
Unpacking gawk (1:5.0.1+dfsg-1)
```

```
student@student-HP-Desktop-Pro-G1-MT:~$ arpwatch -i eth0
student@student-HP-Desktop-Pro-G1-MT:~$ tail -f /var/log/syslog
Apr 11 15:52:16 student-HP-Desktop-Pro-G1-MT systemd-resolved[744]: Using degraded
feature set (TCP) for DNS server fe80::1%2.
Apr 11 15:52:21 student-HP-Desktop-Pro-G1-MT systemd-resolved[744]: Using degraded
feature set (UDP) for DNS server fe80::1%2.
Apr 11 15:52:21 student-HP-Desktop-Pro-G1-MT systemd-resolved[744]: Using degraded
feature set (TCP) for DNS server fd80::fae9:3ff:fef5:3302.
Apr 11 15:52:32 student-HP-Desktop-Pro-G1-MT systemd-resolved[744]: Using degraded
feature set (UDP) for DNS server fd80::fae9:3ff:fef5:3302.
Apr 11 15:52:39 student-HP-Desktop-Pro-G1-MT systemd-resolved[744]: Using degraded
feature set (UDP) for DNS server fe80::1%2.
Apr 11 15:52:44 student-HP-Desktop-Pro-G1-MT systemd-resolved[744]: Using degraded
feature set (TCP) for DNS server fd80::fae9:3ff:fef5:3302.
Apr 11 15:52:44 student-HP-Desktop-Pro-G1-MT systemd-resolved[744]: Using degraded
feature set (TCP) for DNS server fe80::1%2.
Apr 11 15:52:53 student-HP-Desktop-Pro-G1-MT systemd-resolved[744]: Using degraded
feature set (UDP) for DNS server fe80::1%2.
Apr 11 15:52:53 student-HP-Desktop-Pro-G1-MT systemd-resolved[744]: Using degraded
feature set (UDP) for DNS server fd80::fae9:3ff:fef5:3302.
Apr 11 15:53:04 student-HP-Desktop-Pro-G1-MT systemd-resolved[744]: Using degraded
feature set (TCP) for DNS server fd80::fae9:3ff:fef5:3302.
```

```
student@student-HP-Desktop-Pro-G1-MT:~$ sudo apt install net-tools
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following package was automatically installed and is no longer required:
  gir1.2-goa-1.0
Use 'sudo apt autoremove' to remove it.
The following NEW packages will be installed:
  net-tools
0 upgraded, 1 newly installed, 0 to remove and 124 not upgraded.
Need to get 196 kB of archives.
After this operation, 864 kB of additional disk space will be used.
Get:1 http://in.archive.ubuntu.com/ubuntu focal/main amd64 net-tools amd64 1.60+git20180626.aebd88e-1ubuntu1 [196 kB]
Fetched 196 kB in 11s (17.2 kB/s)
Selecting previously unselected package net-tools.
(Reading database ... 186459 files and directories currently installed.)
Preparing to unpack .../net-tools_1.60+git20180626.aebd88e-1ubuntu1_amd64.deb ...
Unpacking net-tools (1.60+git20180626.aebd88e-1ubuntu1) ...
Setting up net-tools (1.60+git20180626.aebd88e-1ubuntu1) ...
Processing triggers for man-db (2.9.1-1) ...
```