NAME: JANANY M ROLL NO: 231901012

Ex. No.: 7 Date: 11.10.2024

# **SNORT IDS**

#### Aim:

To demonstrate Intrusion Detection System (IDS) using snort tool.

## Algorithm:

- 1. Download and extract the latest version of dag and snort
- 2. Install development packages libpcap and pcre.
- 3. Install daq and then followed by snort.
- 4. Verify the installation is correct.
- 5. Create the configuration file, rule file and log file directory
- 6. Create snort.conf and icmp.rules files
- 7. Execute snort from the command line
- 8. Ping to yahoo website from another terminal
- 9. Watch the alert messages in the log files

## **Output:**

```
[root@localhost security lab]# cd /usr/src
```

[root@localhost security lab]# wget https://www.snort.org/downloads/snort/daq-2.0.7.tar.gz

[root@localhost security lab]# wget https://www.snort.org/downloads/snort/snort2.9.16.1.tar.gz

[root@localhost security lab]# tar xvzf daq-2.0.7.tar.gz

[root@localhost security lab]# tar xvzf snort-2.9.16.1.tar.gz

[root@localhost security lab]# yum install libpcap\* pcre\* libdnet\* -y

[root@localhost security lab]# cd daq-2.0.7

[root@localhost security lab]#./configure

[root@localhost security lab]# make

[root@localhost security lab]# make install

[root@localhost security lab]# cd snort-2.9.16.1

[root@localhost security lab]#./configure

[root@localhost security lab]# make

[root@localhost security lab]# make install

[root@localhost security lab]# snort --version

,,\_ -\*> Snort! <\*- o" )~ Version

2.9.8.2 GRE (Build 335)

"" By Martin Roesch & The Snort Team: <a href="http://www.snort.org/contact#team">http://www.snort.org/contact#team</a> Copyright

(C) 2014-2015 Cisco and/or its affiliates. All rights reserved.

Copyright (C) 1998-2013 Sourcefire, Inc., et al.

Using libpcap version 1.7.3

Using PCRE version: 8.38 2015-11-23

Using ZLIB version: 1.2.8

[Date]

```
[root@localhost security lab]# mkdir /etc/snort
```

[root@localhost security lab]# mkdir /etc/snort/rules

[root@localhost security lab]# mkdir /var/log/snort

[root@localhost security lab]# vi /etc/snort/snort.conf add this

line- include /etc/snort/rules/icmp.rules

[root@localhost security lab]# vi /etc/snort/rules/icmp.rules alert icmp any any -> any any (msg:"ICMP Packet"; sid:477; rev:3;)

[root@localhost security lab]# snort -i enp3s0 -c /etc/snort/snort.conf -l /var/log/snort/

#### **Another terminal**

[root@localhost security lab]# ping www.yahoo.com

#### Ctrl + C

[root@localhost security lab]# vi /var/log/snort/alert

[\*\*] [1:477:3] ICMP Packet [\*\*]

[Priority: 0]

10/06-15:03:11.187877 192.168.43.148 -> 106.10.138.240

ICMP TTL:64 TOS:0x0 ID:45855 IpLen:20 DgmLen:84 DF Type:8

Code:0 ID:14680 Seq:64 ECHO

[\*\*] [1:477:3] ICMP Packet [\*\*]

[Priority: 0]

10/06-15:03:11.341739 106.10.138.240 -> 192.168.43.148 ICMP TTL:52 TOS:0x38 ID:2493 IpLen:20 DgmLen:84

Type:0 Code:0 ID:14680 Seq:64 ECHO REPLY

[\*\*] [1:477:3] ICMP Packet [\*\*]

[Priority: 0]

10/06-15:03:12.189727 192.168.43.148 -> 106.10.138.240

ICMP TTL:64 TOS:0x0 ID:46238 IpLen:20 DgmLen:84 DF Type:8

Code:0 ID:14680 Seq:65 ECHO

[\*\*] [1:477:3] ICMP Packet [\*\*]

[Priority: 0]

10/06-15:03:12.340881 106.10.138.240 -> 192.168.43.148 ICMP TTL:52 TOS:0x38 ID:7545 IpLen:20 DgmLen:84

Type:0 Code:0 ID:14680 Seq:65 ECHO REPLY

Result: Thus, the Intrusion Detection System (IDS) has been successfully demonstrated using snort.

[Date]