231901042 RITHIKA BASKAR

Ex. No.: 7
Date: 11/10/24

SNORT IDS

Aim:

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

Algorithm:

- 1. Download and extract the latest version of daq and snort
- 2. Install development packages libpcap and pcre.
- 3. Install dag 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/snort-
 2.9.16.1.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]# vum install libpcap* pcre*
                                                              libdnet* -v
 [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 SnortTeam: http://www.snort.org/contact#team Copyright
        (C) 2014-2015 Cisco and/or its affiliates. All rights reserved.
        Copyright (C) 1998-2013 Sourcefire, Inc., et al.
```

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Using libpcap version 1.7.3

Using PCRE version: 8.38 2015-11-23

Using ZLIB version: 1.2.8

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[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.