

Ex. No.: 10

Date:

SNORT IDS

Aim:

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

Algorithm:

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

Output:

```
[root@localhost security lab]# cd /usr/src
[root@localhost security lab]# wget https://HYPERLINK "http://www.snort.org/downloads/snort/daq-2.0.7.tar.gz"
www.snort.org/downloads/snort/daq-2.0.7.tar.gz [root@localhost security lab]#
wget https://HYPERLINK "http://www.snort.org/downloads/snort/snort-2.9.16.1.tar.gz"
www.snort.org/downloads/snort/snort-2.9.16.1.tar.gz
[root@localhost security lab]# tar xvfz daq-2.0.7.tar.gz [root@localhost security lab]# tar xvfz 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:
<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.
Using libpcap version 1.7.3
Using PCRE version: 8.38 2015-11-23
Using ZLIB version: 1.2.8

```
[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
```

```
# 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: