

Exp. No.: 10

Date:19/04/2024

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 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/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]# 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 SnortTeam: <http://www.snort.org/contact#team>
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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 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:

The intrusion detection system has been demonstrated using snort tool.