

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://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
        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 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:**