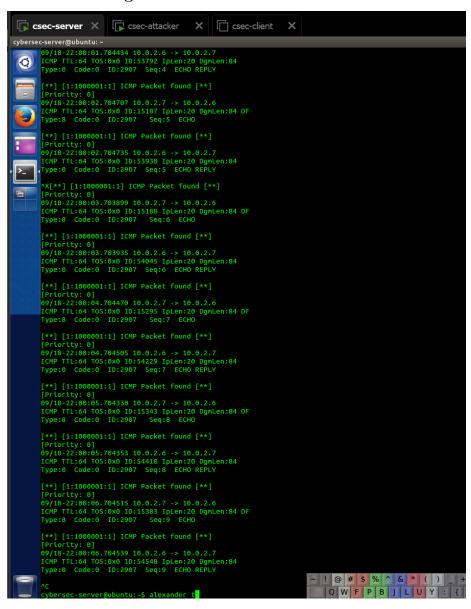
## CSEC Week 07 Lab

Task 1 - Adding a Rule for ICMP Packets



Task 2 - Snort in IDS mode and displaying alerts to the console.

```
Cybersec-servergubuntu:-5 sudo snort -A console -q -c /etc/snort/snort.conf -1 eth8

09/18-22:02:10.911661 [***] [1:1666:7] [CMP PIRG *NIX [**] [Classification: Misc activity] [Priority: 3] (ICMP) 10.0.2.7 -> 10.0.2.6

09/18-22:02:10.911661 [**] [1:1060:1] ICMP PiRG *NIX [**] [Classification: Misc activity] [Priority: 3] (ICMP) 10.0.2.7 -> 10.0.2.6

09/18-22:02:10.911661 [**] [1:1060:1] ICMP PiRG *NIX [**] [Classification: Misc activity] [Priority: 3] (ICMP) 10.0.2.7 -> 10.0.2.6

09/18-22:02:10.91160 [**] [1:1060:1] ICMP PiRG *NIX [**] [Classification: Misc activity] [Priority: 3] (ICMP) 10.0.2.7 -> 10.0.2.6

09/18-22:02:11.94221 [**] [1:166:7] ICMP PIRG *NIX [**] [Classification: Misc activity] [Priority: 3] (ICMP) 10.0.2.7 -> 10.0.2.6

09/18-22:02:11.94227 [**] [1:166:7] ICMP PIRG *NIX [**] [Classification: Misc activity] [Priority: 3] (ICMP) 10.0.2.7 -> 10.0.2.6

09/18-22:02:11.94227 [**] [1:160:7] ICMP PIRG *NIX [**] [Classification: Misc activity] [Priority: 3] (ICMP) 10.0.2.7 -> 10.0.2.6

09/18-22:02:11.94227 [**] [1:160:7] ICMP PIRG *NIX [**] [Classification: Misc activity] [Priority: 3] (ICMP) 10.0.2.7 -> 10.0.2.6

09/18-22:02:11.94257 [**] [1:160:5] ICMP PIRG *NIX [**] [Classification: Misc activity] [Priority: 3] (ICMP) 10.0.2.7 -> 10.0.2.6

09/18-22:02:11.94257 [**] [1:100:02:11] ICMP PIRG *NIX [**] [Classification: Misc activity] [Priority: 3] (ICMP) 10.0.2.7 -> 10.0.2.6

09/18-22:02:12.92310 [**] [1:300:7] ICMP PIRG *NIX [**] [Classification: Misc activity] [Priority: 3] (ICMP) 10.0.2.7 -> 10.0.2.6

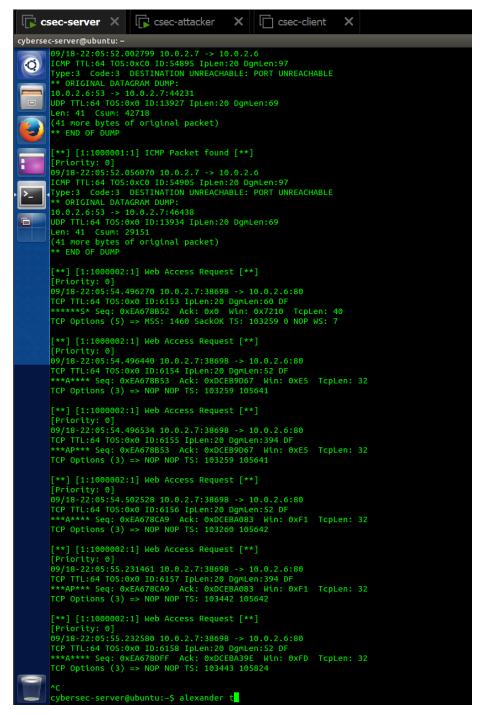
09/18-22:02:12.92320 [**] [1:300:7] ICMP PIRG *NIX [**] [Classification: Misc activity] [Priority: 3] (ICMP) 10.0.2.7 -> 10.0.2.6

09/18-22:02:12.93337 [**] [1:300:7] ICMP PIRG *NIX [**] [Classification: Misc activity] [Priority: 3] (ICMP) 10.0.2.7 -> 10.0.2.6

09/18-22:02:13.93337 [**] [1:300:7] ICMP PIRG *NIX [**] [Classification: Misc activity] [Priority: 3] (ICMP) 10.0.2.7 -> 10.0.2.6

09/18-22:02:13.93337 [**] [1:300:7] ICMP PIRG *NIX [**] [Classification: Misc activity] [Priority: 3] (ICMP) 10.0.2
```

Task 3 - Generating alerts for web service



Task 4 - Generating alerts for ICMP Source Quench Packets

```
X
                                                                       csec-client
                                                                                                   X
File Edit View Search Terminal Help
   ICMP TTL:64 TOS:0x0 ID:36556 IpLen:20 DgmLen:84 DF
Type:8 Code:0 ID:2858 Seq:6 ECHO
     [**] [1:1000001:1] ICMP Packet found [**]
    [Priority: 0]

09/18-22:09:56.234073 10.0.2.6 -> 10.0.2.8
     ICMP TTL:64 TOS:0x0 ID:30245 IpLen:20 DgmLen:84
     Type:0 Code:0 ID:2858 Seq:6 ECHO REPLY
     [**] [1:1000003:1] ICMP source uench [**]
    [Priority: 0]
   10.0.2.6 -> 10.0.2.8

ICMP TTL:255 TOS:0x0 ID:39319 IpLen:20 DgmLen:56

Type:4 Code:0 SOURCE QUENCH

** ORIGINAL DATAGRAM DUMP:
    10.0.2.8 -> 10.0.2.6
ICMP TTL:64 TOS:0x0 ID:36556 IpLen:20 DgmLen:84 DF
Type: 8 Code: 0 Csum: 56571 Id: 2858 SeqNo: 6
     [**] [1:1000001:1] ICMP Packet found [**]
     9/18-22:09:56.237380 10.0.2.6 -> 10.0.2.8
    ICMP TTL:255 TOS:0x0 ID:39319 IpLen:20 DgmLen:56
Type:4 Code:0 SOURCE QUENCH
** ORIGINAL DATAGRAM DUMP:
    10.0.2.8 -> 10.0.2.6
ICMP TTL:64 TOS:0x0 ID:36556 IpLen:20 DgmLen:84 DF
Type: 8 Code: 0 Csum: 56571 Id: 2858 SeqNo: 6
      * END OF DUMP
     [**] [1:1000003:1] ICMP source uench [**]
    [Priority: 0]
    09/18-22:09:56.237388 10.0.2.6 -> 10.0.2.6
    ICMP TTL:255 TOS:0x0 ID:38670 IpLen:20 DgmLen:56
Type:4 Code:0 SOURCE QUENCH
** ORIGINAL DATAGRAM DUMP:
   10.0.2.6 -> 10.0.2.8
ICMP TTL:64 TOS:0x0 ID:30245 IpLen:20 DgmLen:84
Type: 0 Code: 0 Csum: 58619 Id: 2858 SeqNo: 6
** END OF DUMP
    [**] [1:1000001:1] ICMP Packet found [**]
    [Priority: 0]
    09/18-22:09:56.237388 10.0.2.6 -> 10.0.2.6
    ICMP TTL:255 TOS:0x0 ID:38670 IpLen:20 DgmLen:56
Type:4 Code:0 SOURCE QUENCH
** ORIGINAL DATAGRAM DUMP:
   10.0.2.6 -> 10.0.2.8
ICMP TTL:64 TOS:0x0 ID:30245 IpLen:20 DgmLen:84
Type: 0 Code: 0 Csum: 58619 Id: 2858 SeqNo: 6
** END OF DUMP
   [**] [1:527:8] BAD-TRAFFIC same SRC/DST [**]
[Classification: Potentially Bad Traffic] [Priority: 2]
09/18-22:09:56.237388 10.0.2.6 -> 10.0.2.6
    ICMP TTL:255 TOS:0x0 ID:38670 IpLen:20 DgmLen:56
Type:4 Code:0 SOURCE QUENCH
** ORIGINAL DATAGRAM DUMP:
   10.0.2.6 -> 10.0.2.8
ICMP TTL:64 TOS:0x0 ID:30245 IpLen:20 DgmLen:84
Type: 0 Code: 0 Csum: 58619 Id: 2858 SeqNo: 6
** END OF DUMP
    [Xref => http://www.cert.org/advisories/CA-1997-28.html][Xref => http:
```

Task 5 - Running Snort as Intrusion Prevention System (IPS)

