

PARSHVANATH CHARITABLE TRUST'S

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Parshvanath Charitable Trust's

A. P. SIIAII INSTRUMED OF TECHNOLOGY

(Approved by AICTE New Delhi & Govt. of Maharashtra, Affiliated to University of Mumbai) (Religious Jain Minority)

Department of Information Technology

Semester: V Name of Student: Vishal Bangar

Academic Year: 2022-23 Student ID: 20104084

Class / Branch: TE IT Subject: Security Lab (SL)

Name of Instructor: Prof. Apeksha Mohite

EXPERIMENT NO. 06

Aim: To study Intrusion Detection system SNORT and its log analysis.

Output:

1) snort.conf

Department of Information Technology |







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2) local.rules

3) Alert

a) icmp

```
10/11-13:30:09.279290 [**] [1:366:7] ICMP PING *NIX [**] [classification: Misc activity] [Priority: 3] {ICMP} 192.168.87.27 -> 192.168.87.30  
10/11-13:30:09.279290 [**] [1:1000001:1] "ICMP test demo by chirag" [**] [Priority: 0] {ICMP} 192.168.87.27 -> 192.168.87.30  
10/11-13:30:09.279352 [**] [1:1000001:1] "ICMP test demo by chirag" [**] [Priority: 0] {ICMP} 192.168.87.30 -> 192.168.87.27  
10/11-13:30:09.279352 [**] [1:1000001:1] "ICMP Echo Reply [**] [Classification: Misc activity] [Priority: 3] {ICMP} 192.168.87.30 -> 192.168.87.27  
10/11-13:30:10.303353 [**] [1:366:7] ICMP PING *NIX [**] [Classification: Misc activity] [Priority: 3] {ICMP} 192.168.87.30 -> 192.168.87.30  
10/11-13:30:10.303353 [**] [1:384:5] ICMP Echo Reply [**] [Classification: Misc activity] [Priority: 3] {ICMP} 192.168.87.27 -> 192.168.87.30  
10/11-13:30:10.303416 [**] [1:1000001:1] "ICMP test demo by chirag" [**] [Priority: 0] {ICMP} 192.168.87.30 -> 192.168.87.30  
10/11-13:30:10.303416 [**] [1:1000001:1] "ICMP test demo by chirag" [**] [Priority: 0] {ICMP} 192.168.87.30 -> 192.168.87.27  
10/11-13:30:11.327360 [**] [1:366:7] ICMP PING [**] [Classification: Misc activity] [Priority: 3] {ICMP} 192.168.87.37 -> 192.168.87.27  
10/11-13:30:11.327360 [**] [1:366:7] ICMP PING *NIX [**] [Classification: Misc activity] [Priority: 3] {ICMP} 192.168.87.27 -> 192.168.87.30  
10/11-13:30:11.327360 [**] [1:384:5] ICMP PING **] [Classification: Misc activity] [Priority: 3] {ICMP} 192.168.87.27 -> 192.168.87.30  
10/11-13:30:11.327360 [**] [1:384:5] ICMP PING **] [Classification: Misc activity] [Priority: 3] {ICMP} 192.168.87.27 -> 192.168.87.30  
10/11-13:30:11.327360 [**] [1:384:5] ICMP PING **] [Classification: Misc activity] [Priority: 3] {ICMP} 192.168.87.27 -> 192.168.87.30  
10/11-13:30:11.327360 [**] [1:384:5] ICMP PING **] [Classification: Misc activity] [Priority: 3] {ICMP} 192.168.87.27 -> 192.168.87.27  
10/11-13:30:11.327360 [**] [1:384:5] ICMP PING **] [Classification: Misc activity] [Priority: 3] {ICMP} 192.168.87.27 -> 192.168.8
```

b) tcp

```
10/11-13:37:26.0606975 [**] [1:10000002:1] TCP test demo by chirag' [**] [Priority: 0] {TCP} 192.108.87.27:35140 -> 192.108.87.30:80
10/11-13:37:26.066975 [**] [1:1000002:1] "TCP test demo by chirag" [**] [Priority: 0] {TCP} 192.168.87.27:35140 -> 192.168.87.30:80
10/11-13:37:26.063463 [**] [1:527:8] BAD-TRAFFIC same SRC/DST [**] [Classification: Potentially Bad Traffic] [Priority: 2] {TPV6-ICMP} :: -> ff02::16
```



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4) tcpdump snort log

```
apsit@apsit-HP-280-G3-MT:/var/log/snort$ ls
snort.log.1665475093
apsit@apsit-HP-280-G3-NT:/var/log/snort$ sudo tcpdump -r snort.log.1665475093
[sudo] password for apsit:
reading from file snort.log.1665475093, link-type EN10MB (Ethernet)
31:28:13.022821 IP6 :: > ff02::1:ffb9:cdd4: ICMP6, neighbor solicitation, who has fe80::88fc:daff:feb9:cdd4, length 32
13:28:13.061793 IP6 :: > ff02::16: HBH ICMP6, multicast listener report v2, 1 group record(s), length 28
13:28:13.065278 IP 0 0.0.0.0 bootpc > 255.255.255.255.bootps: B00TP/DHCP, Request from 8a:fc:da:b9:cdd4 (oui Unknown), length 310
13:28:13.620566 IP6 :: > ff02::16: HBH ICMP6, multicast listener report v2, 3 group record(s), length 68
13:28:13.620566 IP6 :: > ff02::16: HBH ICMP6, multicast listener report v2, 3 group record(s), length 68
13:28:13.710596 IP6 :: > ff02::16: HBH ICMP6, multicast listener report v2, 3 group record(s), length 68
13:28:13.720340 IP6 :: > ff02::1:ff37:50c8: ICMP6, neighbor solicitation, who has fe80::ef08:dd61:7a7:50c8, length 24
13:28:13.720340 IP6 :: > ff02::1:ff64:9178: ICMP6, neighbor solicitation, who has fe80::17c7:1791:3764:9178, length 320
13:28:21.322924 IP6 :: > ff02::1:ff64:9178: ICMP6, neighbor solicitation, who has fe80::17c7:1791:3764:9178, length 32
13:28:21.378653 IP 0.0.0.0.bootpc > 255.255.255.255.255.bootps: B00TP/DHCP, Request from b4:c4:fc:bd:af:40 (oui Unknown), length 320
13:28:21.378653 IP 0.0.0.0.bootpc > 255.255.255.255.255.bootps: B00TP/DHCP, Request from 84:c4:fc:bd:af:40 (oui Unknown), length 312
13:28:21.378653 IP 0.0.0.0.bootpc > 255.255.255.255.255.555.bootps: B00TP/DHCP, Request from 84:c4:fc:bd:af:40 (oui Unknown), length 312
13:28:21.378653 IP 0.0.0.0.bootpc > 255.255.255.255.555.bootps: B00TP/DHCP, Request from 84:c4:fc:bd:af:40 (oui Unknown), length 312
13:28:21.503468 IP6 :: > ff02::1:ff04:9178: ICMP6, neighbor solicitation, who has fe80::ef3:46ff:fe25:31a0, length 24
13:28:21.503468 IP6 :: > ff02::1:ff04:9178: ICMP6, neighbor solicitation, who has fe80::ef3:46ff:fe25:31a0, length 24
13:28:21.6
```