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PRAKTIKUM KEAMANAN JARINGAN MODUL 4

Percobaan 1:

Menghapus "rules" yang ada pada iptables

```
eptio login: root
assword:
ast login: Tue Mar 17 04:29:09 EDT 2020 on tty1
inux septio 3.16.0–4–586 #1 Debian 3.16.7–ckt11–1 (2015–05–24) i686
he programs included with the Debian GNU/Linux system are free software;
he exact distribution terms for each program are described in the
ndividual files in /usr/share/doc/*/copyright.
ebian GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent
ermitted by applicable law.
oot@septio:~# iptables –L
hain INPUT (policy ACCEPT)
arget prot opt source
                                                destination
hain FORWARD (policy ACCEPT)
           prot opt source
                                                destination
arget
hain OUTPUT (policy ACCEPT)
arget prot opt source
oot@septio:~# _
                                                destination
```

Percobaan 2:

Melakukan konfigurasi blocking semua trafik

```
root@septio:~# iptables -A INPUT -m state --state ESTABLISHED,RELATED -j ACCEPT
root@septio:~# _
```

```
64 bytes from 192.163.1.31: icmp_seq=4 ttl=64 time=0.037 ms
64 bytes from 192.163.1.31: icmp_seq=5 ttl=64 time=0.052 ms
64 bytes from 192.163.1.31: icmp_seq=6 ttl=64 time=0.038 ms
64 bytes from 192.163.1.31: icmp_seq=7 ttl=64 time=0.025 ms
64 bytes from 192.163.1.31: icmp_seq=8 ttl=64 time=0.025 ms
64 bytes from 192.163.1.31: icmp_seq=9 ttl=64 time=0.024 ms
64 bytes from 192.163.1.31: icmp_seq=10 ttl=64 time=0.047 ms
64 bytes from 192.163.1.31: icmp_seq=11 ttl=64 time=0.033 ms
64 bytes from 192.163.1.31: icmp_seq=11 ttl=64 time=0.032 ms
62
--- 192.163.1.31 ping statistics ---
12 packets transmitted, 12 received, 0% packet loss, time 11006ms
rtt min/avg/max/mdev = 0.023/0.034/0.052/0.011 ms
root@septio:~# ping 192.163.1.5
PING 192.163.1.5 (192.163.1.5) 56(84) bytes of data.

^C
--- 192.163.1.5 ping statistics ---
13 packets transmitted, 0 received, 100% packet loss, time 12000ms
root@septio:~# ping 192.163.1.5
PING 192.163.1.5 (192.163.1.5) 56(84) bytes of data.
```

```
root@septio:~# iptables -A INPUT -j DROP
root@septio:~# _
```

Percobaan 3 : Mengijinkan Traffic Masuk hanya ke port SSH

```
oot@septio:~# iptables -F
oot@septio:~# iptables -A INPUT -m state --state ESTABLISHED,RELATED -j ACCEPT
root@septio:~# iptables -A INPUT -p tcp --dport ssh -j ACCEPT
root@septio:~# iptables -L
Chain INPUT (policy ACCEPT)
          prot opt source
                                          destination
target
ACCEPT
                                                                state RELATED, ESTA
           all -- anywhere
                                          anywhere
BLISHED
ACCEPT
           tcp -- anywhere
                                          anywhere
                                                                tcp dpt:ssh
Chain FORWARD (policy ACCEPT)
target
                                          destination
          prot opt source
Chain OUTPUT (policy ACCEPT)
          prot opt source
                                          destination
target
root@septio:~# 🔔
```

```
root@septio:~# iptables –A INPUT –j DROP
root@septio:~# iptables –L
Chain INPUT (policy ACCEPT)
target
                                              destination
ACCEPT
            all -- anywhere
                                              anywhere
                                                                     state RELATED, ESTA
BLISHED
            tcp -- anywhere
all -- anywhere
ACCEPT
                                              anywhere
                                                                     tcp dpt:ssh
DROP
                                              anywhere
Chain FORWARD (policy ACCEPT)
                                              destination
target
           prot opt source
Chain OUTPUT (policy ACCEPT)
target protopt source
                                              destination
root@septio:~#
```

Percobaan 4:

Mengijinkan Traffic Masuk hanya ke Port Web dan SSH

```
oot@septio:~# iptables –F
root@septio: * iptables -r
root@septio: *# iptables -A INPUT -p tcp --dport 80 -j ACCEPT
root@septio: *# iptables -A INPUT -p tcp --dport 22 -j ACCEPT
root@septio: *# iptables -L
Chain INPUT (policy ACCEPT)
target
               prot opt source
                                                              destination
               tcp -- anywhere
tcp -- anywhere
ACCEPT
                                                              anywhere
                                                                                              tcp dpt:http
ACCEPT
                                                              anywhere
                                                                                              tcp dpt:ssh
Chain FORWARD (policy ACCEPT)
              prot opt source
                                                              destination
arget
Chain OUTPUT (policy ACCEPT)
arget prot opt source
root@septio:~# _
                                                              destination
```

```
root@septio:~# iptables –A INPUT –j DROP
root@septio:~# iptables –L
Chain INPUT (policy ACCEPT)
            prot opt source
tcp –– anywhere
tcp –– anywhere
                                                destination
target
ACCEPT
                                                anywhere
                                                                         tcp dpt:http
ACCEPT
                                                anywhere
                                                                         tcp dpt:ssh
DROP
            all -- anywhere
                                                anywhere
Chain FORWARD (policy ACCEPT)
target
           prot opt source
                                                destination
Chain OUTPUT (policy ACCEPT)
           prot opt source
                                                destination
target
root@septio:~#
```

Percobaan 5:

Melakukan konfigurasi blocking ip address

185.156.1.31

```
root@septio:~# iptables -F
root@septio:~# iptables -I INPUT -s 185.156.1.31 -j DROP
root@septio:~# ping 185.156.1.31
PING 185.156.1.31 (185.156.1.31) 56(84) bytes of data.
^C
--- 185.156.1.31 ping statistics ---
24 packets transmitted, 0 received, 100% packet loss, time 23183ms
root@septio:~# _
```

```
root@septio:~# iptables -D INPUT -s 185.156.1.31 -j DROP root@septio:~# ping 185.156.1.31
PING 185.156.1.31 (185.156.1.31) 56(84) bytes of data.
64 bytes from 185.156.1.31: icmp_seq=1 ttl=64 time=0.020 ms
64 bytes from 185.156.1.31: icmp_seq=2 ttl=64 time=0.052 ms
64 bytes from 185.156.1.31: icmp_seq=3 ttl=64 time=0.058 ms
64 bytes from 185.156.1.31: icmp_seq=4 ttl=64 time=0.059 ms
64 bytes from 185.156.1.31: icmp_seq=5 ttl=64 time=0.046 ms
64 bytes from 185.156.1.31: icmp_seq=6 ttl=64 time=0.062 ms
64 bytes from 185.156.1.31: icmp_seq=7 ttl=64 time=0.060 ms
64 bytes from 185.156.1.31: icmp_seq=8 ttl=64 time=0.079 ms
64 bytes from 185.156.1.31: icmp_seq=9 ttl=64 time=0.059 ms
^C
--- 185.156.1.31 ping statistics ---
9 packets transmitted, 9 received, 0% packet loss, time 8010ms
rtt min/avg/max/mdev = 0.020/0.055/0.079/0.014 ms
root@septio:~# _
```

Percobaan 6 : Melakukan konfigurasi blocking MAC Address

08:00:27:e4:42:19

```
root@septio:~# iptables –A INPUT –m mac –-mac–source 08:00:27:e4:42:19 –i –eth0
–j DROP
root@septio:~# iptables –D INPUT –m mac ––mac–source 08:00:27:e4:42:19 –i –eth0
–j DROP
root@septio:~# _
```