```
acket details: {}
ALLOWED] Ether / IPv6 / ICMPv6 Neighbor Discovery - Neighbor Advertisement (tgt: fe80::20c:29ff:fe1d:
acket details: {'src ip': '192.168.1.3', 'dst ip': '192.168.1.255', 'protocol': 17, 'src port': 44420
ALLOWED] Ether / IP / UDP 192.168.1.3:44420 > 192.168.1.255:15600 / Raw
Stats - Allowed: 777 | Blocked: 73
acket details: {}
ALLOWED] Ether / IPv6 / ICMPv6ND NS / ICMPv6 Neighbor Discovery Option - Source Link-Layer Address 60
acket details: {}
ALLOWED] Ether / IPv6 / ICMPv6 Neighbor Discovery - Neighbor Advertisement (tgt: 2401:4900:882c:8c69:
acket details: {}
ALLOWED] Ether / IPv6 / ICMPv6ND_NS / ICMPv6 Neighbor Discovery Option - Source Link-Layer Address 60
acket details: {}
ALLOWED] Ether / IPv6 / ICMPv6 Neighbor Discovery - Neighbor Advertisement (tgt: 2401:4900:882c:8c69:
acket details: {}
ALLOWED] 60:bd:2c:67:31:c0 > 01:80:c2:00:00:13 (0×893a) / Raw
acket details: {'src port': 42638, 'dst port': 80, 'layer': 'TCP'}
ALLOWED] Ether / IPv6 / TCP 2401:4900:882c:8c69:e003:2072:b457:487b:42638 > 2600:1901:0:38d7:::http A
acket details: {'src ip': '192.168.1.7', 'dst ip': '34.107.221.82', 'protocol': 6, 'src port': 55786,
ALLOWED] Ether / IP / TCP 192.168.1.7:55786 > 34.107.221.82:http A
acket details: {'src_ip': '34.107.221.82', 'dst_ip': '192.168.1.7', 'protocol': 6, 'src_port': 80, 'd
ARNING:root:BLOCKED: Ether / IP / TCP 34.107.221.82:http > 192.168.1.7:55786 A
BLOCKED] Ether / IP / TCP 34.107.221.82:http > 192.168.1.7:55786 A
acket details: {'src_port': 80, 'dst_port': 42638, 'layer': 'TCP'}
ARNING:root:BLOCKED: Ether / IPv6 / TCP 2600:1901:0:38d7:::http > 2401:4900:882c:8c69:e003:2072:b457:
BLOCKED] Ether / IPv6 / TCP 2600:1901:0:38d7:::http > 2401:4900:882c:8c69:e003:2072:b457:487b:42638 A
```

ALLOWED] Ether / IPv6 / ICMPv6ND NS / ICMPv6 Neighbor Discovery Option - Source Link-Layer Address 60

```
Packet callback
lef packet callback(packet):
  if match rules(packet, rules):
       logging.info(f"ALLOWED: {packet.summary()}")
       print(f"[ALLOWED] {packet.summary()}")
       logging.warning(f"BLOCKED: {packet.summary()}")
       print(f"[BLOCKED] {packet.summary()}")
f __name__ = "__main__":
   logging.basicConfig(filename="firewall.log",
                       level=logging.INFO,
                       format="%(asctime)s %(levelname)s: %(message)s")
   print(" Personal Firewall started. Press Ctrl+C to stop.")
   rules = load rules()
```

```
—(kali@kali)-[~/Desktop/personal firewall]
_$ sudo su
sudol password for kali:
             )-[/home/kali/Desktop/personal firewall]
__ curl http://192.168.1.7
curl: (7) Failed to connect to 192.168.1.7 port 80 after 0 ms: Could not connect to server
--(root@kali)-[/home/kali/Desktop/personal_firewall]
```

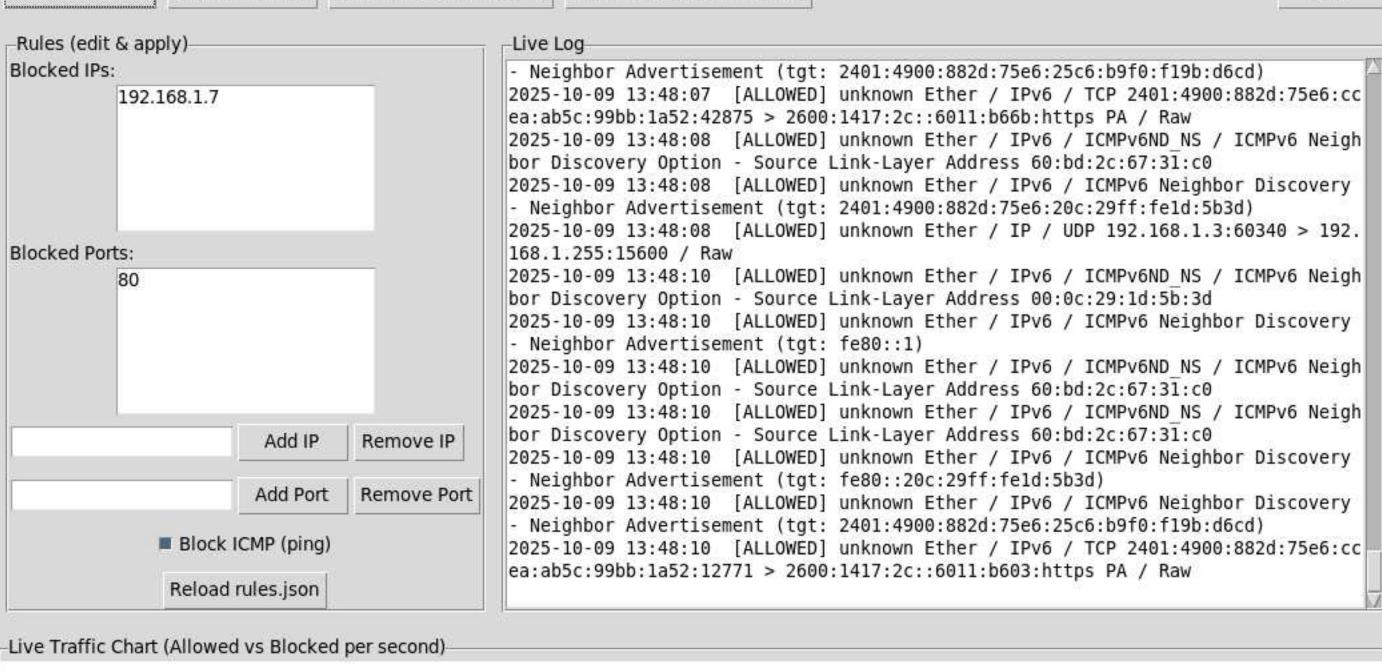
Session Actions Late View Help

Session Actions Edit View Help					
Every	1.0s: sudo iptab	les -L -v -n			
	INPUT (policy ACC bytes target			source	destination
	FORWARD (policy A			source	destination
pkts	OUTPUT (policy AG bytes target 13356 DROP	prot opt in	out	source	destination 0.0.0.0/0

```
—(kali@ kali)-[~/Desktop/personal_firewall]
-$ <u>sudo</u> su
sudo] password for kali:
—(root@ kali)-[/home/kali/Desktop/personal_firewall]
-# sudo iptables -A OUTPUT -p icmp -j DROP
```

ING 8.8.8.8 (8.8.8.8) 56(84) bytes of data.

ing -4 8.8.8.8

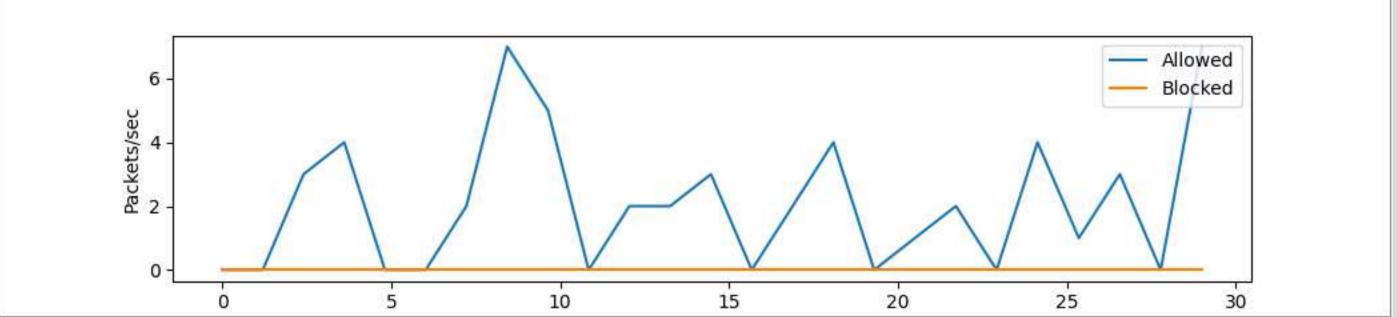


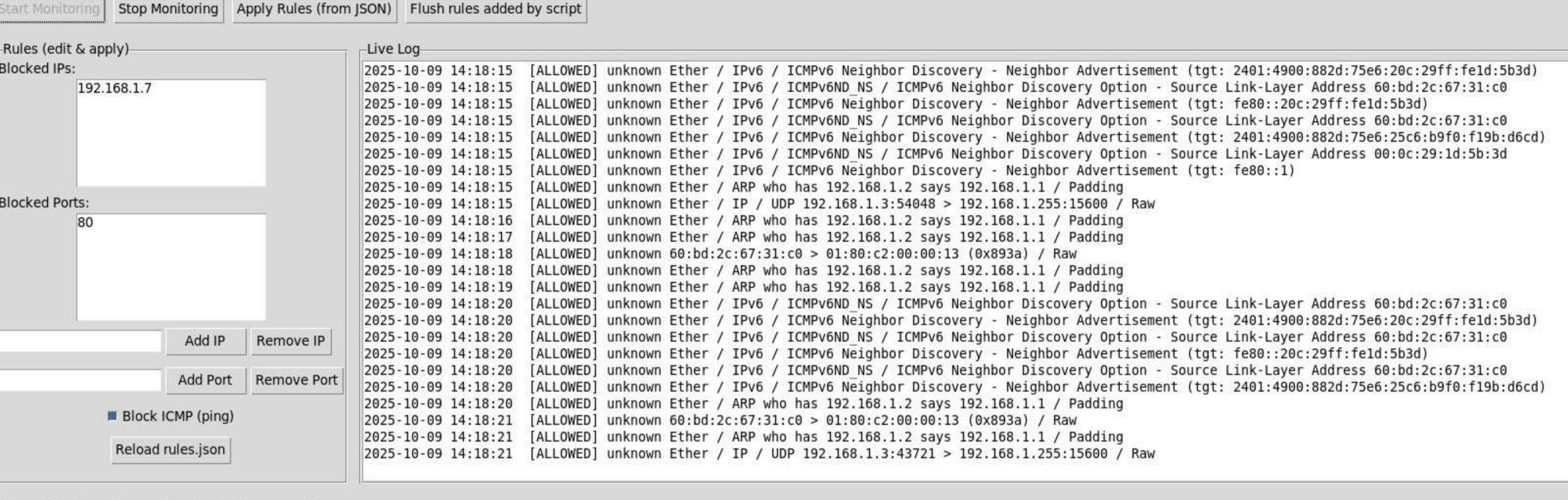
Exit

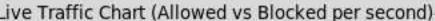
Apply Rules (from ISON) Flush rules added by script

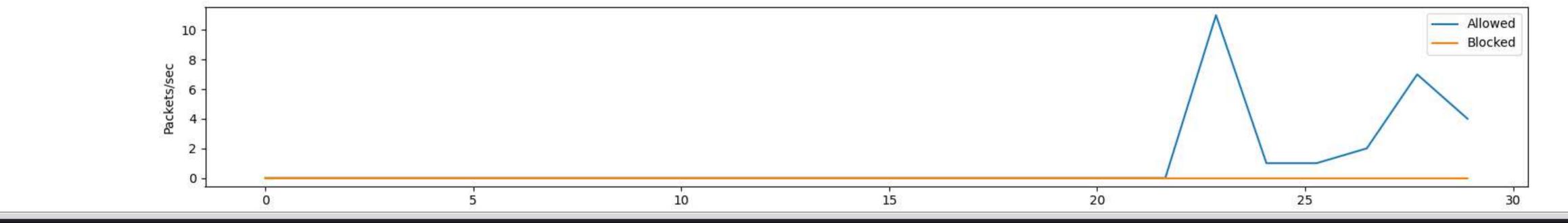
Start Monitoring

Stop Monitoring









```
—(kali⊗kali)-[~/Desktop/personal firewall]
-$ sudo su
sudo] password for kali:
—(root@kal1)-[/home/kali/Desktop/personal_firewall]
mping -c 4 192.168.1.7
rl http://192.168.1.7
ING 192.168.1.7 (192.168.1.7) 56(84) bytes of data.

    — 192.168.1.7 ping statistics —

packets transmitted, 0 received, 100% packet loss, time 3076ms
url: (7) Failed to connect to 192.168.1.7 port 80 after 0 ms: Could not connect to server
—(root@kali)-[/home/kali/Desktop/personal_firewall]
sudo iptables -L -v -n —line-numbers
hain INPUT (policy ACCEPT 189 packets, 12488 bytes)
   pkts bytes target prot opt in out source
                                                                destination
um
            0 DROP icmp -- * * 0.0.0.0/0
                                                                 0.0.0.0/0
hain FORWARD (policy ACCEPT 0 packets, 0 bytes)
                                                                 destination
   pkts bytes target prot opt in out
um
                                              source
hain OUTPUT (policy ACCEPT 2 packets, 100 bytes)
   pkts bytes target prot opt in out
                                                                 destination
um
                                              source
      4 336 DROP icmp -- * *
                                             0.0.0.0/0
                                                                 0.0.0.0/0
--(root@kali)-[/home/kali/Desktop/personal_firewall]
```

session Actions Edit view netp

```
Session Actions Edit View Help

(kali@ kali)-[~/Desktop/personal_firewall]

[sudo] password for kali:

(root@ kali)-[/home/kali/Desktop/personal_firewall]

2025-10-09 14:19:04,847 INFO: [ALLOWED] unknown Ether / IPv6 / ICMPv6ND_NS / ICMPv6 Neighbor Discovery Option - Source Link-Layer Address 60:bd:2c:67:31:c0
2025-10-09 14:19:04,848 INFO: [ALLOWED] unknown Ether / IPv6 / ICMPv6ND_NS / ICMPv6 Neighbor Discovery - Neighbor Advertisement (tgt: 2401:4900:882d:75e6:20:29ff:feld:5b3d)
2025-10-09 14:19:04,848 INFO: [ALLOWED] unknown Ether / IPv6 / ICMPv6ND_NS / ICMPv6 Neighbor Discovery Option - Source Link-Layer Address 60:bd:2c:67:31:c0
2025-10-09 14:19:04,848 INFO: [ALLOWED] unknown Ether / IPv6 / ICMPv6ND_NS / ICMPv6 Neighbor Discovery Option - Source Link-Layer Address 60:bd:2c:67:31:c0
2025-10-09 14:19:04,849 INFO: [ALLOWED] unknown Ether / IPv6 / ICMPv6ND_NS / ICMPv6 Neighbor Discovery Option - Source Link-Layer Address 60:bd:2c:67:31:c0
2025-10-09 14:19:04,850 INFO: [ALLOWED] unknown Ether / IPv6 / ICMPv6ND_NS / ICMPv6 Neighbor Discovery Option - Source Link-Layer Address 60:bd:2c:67:31:c0
2025-10-09 14:19:04,850 INFO: [ALLOWED] unknown Ether / IPv6 / ICMPv6ND_NS / ICMPv6 Neighbor Discovery Option - Source Link-Layer Address 60:bd:2c:67:31:c0
2025-10-09 14:19:04,850 INFO: [ALLOWED] unknown Ether / IPv6 / ICMPv6ND_NS / ICMPv6 Neighbor Discovery - Neighbor Advertisement (tgt: 2401:4900:882d:75e6:25c6:b9f0:f19b:d6cd)
2025-10-09 14:19:04,850 INFO: [ALLOWED] unknown Ether / IPv6 / ICMPv6ND_NS / ICMPv6 Neighbor Discovery - Neighbor Advertisement (tgt: 2401:4900:882d:75e6:1)
2025-10-09 14:19:05,153 INFO: [ALLOWED] unknown Ether / IPv6 / ICMPv6 Neighbor Discovery - Neighbor Advertisement (tgt: 2401:4900:882d:75e6:1)
```

2025-10-09 14:19:05,242 INFO: [ALLOWED] unknown Ether / IP / TCP 192.168.1.8:8994 > 23.41.28.28:https PA / Raw

```
---(kali⊕kali)-[~/Desktop/personal firewall]
sudo su
sudol password for kali:
(root@kali)-[/home/kali/Desktop/personal firewall]
tail -f firewall.log
2025-10-09 14:19:04,847 INFO: [ALLOWED] unknown Ether / IPv6 / ICMPv6ND NS / ICMPv6 Neighbor Discovery Option - Source Link-Layer Address 60:bd:2c:67:31:c0
2025-10-09 14:19:04,848 INFO: [ALLOWED] unknown Ether / IPv6 / ICMPv6 Neighbor Discovery - Neighbor Advertisement (tgt: 2401:4900:882d:75e6:20c:29ff:fe1d:5b3d)
2025-10-09 14:19:04,848 INFO: [ALLOWED] unknown Ether / IPv6 / ICMPv6ND NS / ICMPv6 Neighbor Discovery Option - Source Link-Layer Address 60:bd:2c:67:31:c0
2025-10-09 14:19:04.848 INFO: [ALLOWED] unknown Ether / IPv6 / ICMPv6 Neighbor Discovery - Neighbor Advertisement (tgt: fe80::20c:29ff:fe1d:5b3d)
2025-10-09 14:19:04,849 INFO: [ALLOWED] unknown Ether / IPv6 / ICMPv6ND NS / ICMPv6 Neighbor Discovery Option - Source Link-Layer Address 60:bd:2c:67:31:c0
2025-10-09 14:19:04,850 INFO: [ALLOWED] unknown Ether / IPv6 / ICMPv6 Neighbor Discovery - Neighbor Advertisement (tgt: 2401:4900:882d:75e6:25c6:b9f0:f19b:d6cd)
2025-10-09 14:19:04,850 INFO: [ALLOWED] unknown Ether / IPv6 / ICMPv6ND NS / ICMPv6 Neighbor Discovery Option - Source Link-Layer Address 00:0c:29:1d:5b:3d
2025-10-09 14:19:04,850 INFO: [ALLOWED] unknown Ether / IPv6 / ICMPv6 Neighbor Discovery - Neighbor Advertisement (tgt: 2401:4900:882d:75e6::1)
2025-10-09 14:19:05,153 INFO: [ALLOWED] unknown Ether / IPv6 / ICMPv6 Neighbor Discovery - Neighbor Advertisement (tgt: 2401:4900:882d:75e6::1)
2025-10-09 14:19:05,242 INFO: [ALLOWED] unknown Ether / IP / TCP 192.168.1.8:8994 > 23.41.28.28:https PA / Raw
```

Session Actions Edit View Help

```
"block_ips": [
  "192.168.1.8"
"block ports":
 22
"block protocols": [
  "ICMP"
```

```
Session Actions Edit View Help
-(kali@kali)-[~/Desktop/personal_firewall]
_s sudo su
[sudo] password for kali:
(root@ kali)-[/home/kali/Desktop/personal_firewall]
source venv/bin/activate
(venv)-(root@kali)-[/home/kali/Desktop/personal_firewall]
sudo ./venv/bin/python firewall.py4
Error loading rules.json: Expecting ',' delimiter: line 2 column 24 (char 25)
Applied iptables rules from configuration.
Dynamic Firewall started. Type 'list' to see rules, 'exit' to stop.
firewall> list
 "block_ips": [],
 "block ports": [],
"block_protocols": []
firewall> add ip 192.168.1.8
Applied iptables rules from configuration.

    Added blocked IP: 192.168.1.8

firewall> add port 22
Applied iptables rules from configuration.
Added blocked port: 22
firewall> add protocol ICMP
Applied iptables rules from configuration.
firewall>
```

```
"block_ips": |
  "192.168.1.7",
  "192.168.1.8"
"block ports": [
"block_protocols":
  "ICMP"
```

```
1 {
   "block ips":
2
      "192.168.1.7"
3
      "192.168.1.8"
5
   "block ports":
     80.
В
     22
9
0
   "block protocols":
1
      "ICMP"
2
```

```
"block_ips":
    "192.168.1.7".
    "192 168 1 8"
"block_ports":
   80.
   22,
   22
"block_protocols":
    "ICMP"
```

```
Session Actions Edit View Help
-- (kali@kali)-[~/Desktop/personal firewall]
-$ sudo su
sudol password for kali:
—(root@kali)-[/home/kali/Desktop/personal_firewall]
-# source venv/bin/activate
—(venv)—(root@kali)-[/home/kali/Desktop/personal_firewall]
-# sudo ./venv/bin/python firewall.py5
≡ Personal Firewall CLI Started <u></u>
ype 'monitor' to begin sniffing packets.
ype 'list' to view rules, 'exit' to quit.
irewall> list
   "block_ips": [
       "192.168.1.7"
       "192.168.1.8"
   "block ports": [
       80.
       22,
       22
   "block protocols": [
       "ICMP"
  1
irewall> moniter
ommands:
list
add ip <addr>
add port <num>
add protocol <name>
remove ip <addr>
remove port <num>
remove protocol <name>
monitor
exit
irewall> monitor
niffer started... (Ctrl+C to stop monitoring)
BLOCKED] Ether / IP / ICMP 192.168.1.7 > 8.8.8.8 echo-request 0 / Raw
BLOCKED] Ether / IP / ICMP 8.8.8.8 > 192.168.1.7 echo-reply 0 / Raw
BLOCKED] Ether / IP / ICMP 192.168.1.7 > 8.8.8.8 echo-request 0 / Raw
BLOCKED] Ether / IP / ICMP 8.8.8.8 > 192.168.1.7 echo-reply 0 / Raw
BLOCKED] Ether / IP / ICMP 192.168.1.7 > 8.8.8.8 echo-request 0 / Raw
BLOCKED] Ether / IP / ICMP 8.8.8.8 > 192.168.1.7 echo-reply 0 / Raw
```

```
firewall> remove port 22
Removed port: 22
firewall> list
   "block_ips": [
        "192.168.1.7"
   "block_ports": [
        80,
        22
   "block_protocols": [
        "ICMP"
firewall> exit
Exiting firewall CLI...
```

```
ping 8.8.8.8
PING 8.8.8.8 (8.8.8.8) 56(84) bytes of data.
64 bytes from 8.8.8.8: icmp seg=1 ttl=118 time=21.2 ms
64 bytes from 8.8.8.8: icmp_seq=2 ttl=118 time=17.1 ms
64 bytes from 8.8.8.8: icmp seq=3 ttl=118 time=19.5 ms
— 8.8.8.8 ping statistics —
3 packets transmitted, 3 received, 0% packet loss, time 2003ms
rtt min/avg/max/mdev = 17.138/19.293/21.233/1.678 ms
   root@kali)=[/home/kali/Desktop/personal_firewall]
```

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