

**“I wonder if it would be possible to implement the BSD PF configuration language around Netfilter”**

# PF

- Available on OpenBSD, FreeBSD, and MacOS (10.7+)
- pflog (pcap based log format and interface.)
- Initial release 1/12/2001
- The basis for the things like m0n0wall and pfsense
- Intuitive configuration language

```
pfctl -s all | tee pf.conf
```

```
ether=en0
set skip on lo0
table <local> persist file "/etc/auth_ips"
block drop on $ether log all
pass on $ether from <local>
pass on $ether proto tcp from 134.60.0.0/16 to port 22
pass on $ether proto tcp from 134.60.0.0/16 to port 5900
pass inet proto icmp from 134.60.0.0/16 icmp-type echoreq
```

```
pfctl -f pf.conf
```

```
ifconfig pflog0 create
```

```
tcpdump -n -e -ttt -i pflog0
```

```
listening on pflog0, link-type PFL0G (OpenBSD pflog file), snapshot length 524288 bytes
00:00:00.000000 rule 0/0(match): block in on bridge100: 192.168.64.5.22 >
192.168.64.1.50421: Flags [.], ack 1472325293, win 1761, options [nop,nop,TS val
3104429824 ecr 3500659065], length 0
 0x0000: 3d02 0100 6272 6964 6765 3130 3000 0000 =...bridge100...
 0x0010: 0000 0000 0000 0000 0000 0000 0000 0000 .....
 0x0020: 0000 0000 0000 0000 ffff ffff ffff ff7f .....
 0x0030: a086 0100 0000 0000 8de8 0000 0100 0000 .....
 0x0040: 4510 0034 7541 4000 4006 c41b c0a8 4005 E..4uA@.@.....@.
 0x0050: c0a8 4001 0016 c4f5 a0c4 34e7 57c1 e6ad ..@.....4.W...
 0x0060: 8010 06e1 6332 0000 0101 080a b909 d700 ...c2.....
 0x0070: d0a7 d179 ...y
```