

PF

pf.conf

```
#####
#####
# GLOBAL
#####
#####
block in quick on ISP proto tcp to port {9200,8080}          label
"Block Spammer on port $dstport"
#####
#####
# QUEUE
#####
#####
queue rootq on em0 bandwidth 1G #, max 250M qlimit 300
    queue ssh          parent rootq bandwidth 900M #900K, min 50K burst 1M
for 200ms qlimit 50
    queue vpn          parent rootq bandwidth 900M # qlimit 100
    queue admin        parent rootq bandwidth 900M # qlimit 100
    queue main parent rootq bandwidth 200M min 10M max 200M
        queue def      parent main bandwidth 150M default
        queue rtp       parent main bandwidth 350K, min 350K burst 700K
for 200ms qlimit 50
        queue nzb       parent main bandwidth 200M qlimit 50
        queue pri       parent main bandwidth 900K, min 50K burst 1M
for 200ms qlimit 50
        queue dns       parent main bandwidth 100K, min 10K burst 200K
for 1000ms qlimit 50
        queue guests    parent main bandwidth 100M
        queue ack       parent main bandwidth 2M
        queue bulk      parent main bandwidth 160M default
#####
#####
match      proto {ospf}                                set
queue rtp          set prio 6          label "Set proto $proto to prio 6"
match      proto {tcp}                    to port {bgp}                set
queue rtp          set prio 6          label "Set port $dstport to prio 6"
match      proto {esp}                                set
queue rtp          set prio 6          label "Set proto $proto to prio 6"
match      proto {udp}                    to port {isakmp,ipsec-nat-t} set
queue vpn          set prio 6          label "Set port $dstport to prio 6"
match      proto {tcp}                    to port {http,https}        set
queue (bulk,ack)   set prio (3, 6) label "Set port $dstport to prio
3,6"
match      proto {tcp}                    to port {ssh}                set
queue ssh set tos lowdelay set prio 6          label "Set port $dstport to
prio 6"
match      proto {udp}                    to port {domain}            set
```

```

queue dns                set prio 6          label "Set port $dstport to prio 6"
match    proto {tcp}      to port {563}      set
queue nzb                set prio 4          label "Set port $dstport to prio 4"
#match    proto {tcp,udp,igmp} from <guests>    set
queue guests              set prio 2          label "Set $srcaddr to $dstaddr to
prio 2"
match                                  from <admin>      set
queue admin              set prio 6          label "Set $srcaddr to $dstaddr to
prio 6"
#####
#####
# GLOBAL OPTIONS
#####
#####
#set debug info
set skip on lo
set loginterface egress
set skip on lo0
set skip on enc0
#set optimization conservative
#set ruleset-optimization basic
#####
#####
# TABLES
#####
#####
table <attacker>          persist
table <tor>               persist file "/etc/pf_tables/pf.tor"
table <ransom>            persist file "/etc/pf_tables/pf.ransom"
table <malware>           persist file "/etc/pf_tables/pf.malware"
table <adhosts>           persist file "/etc/pf_tables/pf.adhosts"
table <country>           persist file "/etc/pf_tables/pf.country"
#####
#####
table <firewall>          const { self }
table <GC-MV>             persist file "/etc/pf_tables/pf.GC-MV"
table <GC-TG>             persist file "/etc/pf_tables/pf.GC-TG"
table <GC-SB>             persist file "/etc/pf_tables/pf.GC-SB"
table <HP>                persist file "/etc/pf_tables/pf.HP"
table <GC>                persist file "/etc/pf_tables/pf.GC"
table <RZ-FW>             persist file "/etc/pf_tables/pf.RZ-FW"
table <RZ-CORE>           persist file "/etc/pf_tables/pf.CORE"
table <openvpn>           persist file "/etc/pf_tables/pf.openvpn"
table <RZ>                persist file "/etc/pf_tables/pf.RZ"
table <NSAS>              persist file "/etc/pf_tables/pf.nsas"
table <NSAS-INT>          persist file "/etc/pf_tables/pf.nsas-int"
table <NSAS-VM>           { 10.192.1.0/24 }
table <ADMIN>             persist file "/etc/pf_tables/pf.admin"
table <VPN>               persist file "/etc/pf_tables/pf.vpn"
table <NET>               persist file "/etc/pf_tables/pf.net"
table <SWISSBIT>          persist file "/etc/pf_tables/pf.swissbit"

```

```

table <COMPROMISED>      persist file "/etc/pf_tables/pf.compromised"
table <FIREHOL>          persist file "/etc/pf_tables/pf.firehol"
table <shadon>           persist file "/etc/pf_tables/pf.shadon"
#####
#####
# BLOCK
#####
#####
block drop in quick log from <tor>                                label
"Block TOR"
block drop in quick log on ISP from <shadon>
label "Block SHADON"
block drop quick log from <ransom>                                label
"Block RANSOM"
block drop quick log to <ransom>                                label
"Block RANSOM"
block drop quick log to <adhosts>                                label
"Block ADWARE"
block drop in quick log on ISP from <COMPROMISED>              label
"Block COMPROMISED"
block drop in quick log on ISP from <FIREHOL>
label "Block FIREHOL"
block drop in quick log from <country>                          label
"Block COUNTRY's"
block drop in quick log from <attacker>
label "Block ATTACKER's"
block drop in log                                                label "Block
UNDEFINED"
#####
#####
match out scrub (no-df random-id reassemble tcp)
label "Normalize Traffic"
#match out all scrub (no-df random-id tcp max-mss 1500 )
label "scrub all"
#####
#####
# PASS quick
#####
#####
include "/etc/pf.conf.local"
#####
#####
# INCLUDE
#####
#####
include "/etc/pf/icmp.conf"
include "/etc/pf/routing.conf"
#####
#####
# Redirect
#####

```

```
#####
pass in on ISP inet proto {tcp} os Openbsd to port {2222} divert-to
127.0.0.1 port 2222 label "Redirect on $if Port:$dstport to HAproxy"
pass in on ISP inet proto {tcp,udp} to port 53 rdr-to 10.192.20.6
label "Redirect on $if Port:$dstport to nsd-a"
#####
#####
# PASS
#####
#####
pass proto tcp os Openbsd to <firewall> port ssh keep state (max-src-
conn 20, max-src-conn-rate 8/30, overload <attacker>) label "Pass SSH
from OPENBSD to $dstport"
pass from { <NSAS-INT> <ADMIN> } keep state set prio (2, 5)
label "Pass from $srcaddr"
pass on CORE
label "Pass on $if"
pass on LAN
label "Pass on $if"
pass on VPN
label "Pass on $if"
#####
#####
# FIREWALL SELF
#####
#####
pass out all
label "Pass out"
#####
#####
# NAT
#####
#####
match out on ISP inet nat-to (ISP:0) label "NAT
from $srcaddr to $dstaddr"
#####
#####
```

Test befor starting rules

```
pfctl -n -f /etc/pf.conf && pfctl -f /etc/pf.conf
```

Kill a session

```
pfctl -k ${IP}
```

Add a host to a table

```
pfctl -t TABLENAME -T add ${IP}
```

pftop

Filter examples

```
pftop -f 'host 10.192.40.4'
```

```
pftop -b -f 'proto ospf'
```

```
pftop -b -f 'host 10.192.40.4 and port 514'
```

pfsync

FW-A

[/etc/hostname.pfsync0](#)

```
up syncdev "HAINTERFACE" syncpeer "IP OF BACKUPFW" defer
```

FW-B

[/etc/hostname.pfsync0](#)

```
up syncdev "HAINTERFACE" syncpeer "IP OF PRIMARYFW" defer
```

Verify that the sync works, the count should be even on both firewalls

```
pfctl -s state | wc -l
```

Hardening

Block ransomware

[block_ransom.sh](#)

```
#!/bin/sh
curl -s
https://feodotracker.abuse.ch/downloads/ipblocklist_recommended.txt
```

```
>/tmp/ransom
curl -s https://feodotracker.abuse.ch/downloads/ipblocklist.txt
>>/tmp/ransom
grep -v \# /tmp/ransom | uniq > /etc/pf_tables/pf.ransom
rm /tmp/ransom
```

crontab

```
~ * * * * /bin/sh /root/bin/block_ransom.sh ; /sbin/pfctl -t ransom -T
replace -f /etc/pf_tables/pf.ransom >/dev/null 2>&1
```

Block country

block_country.sh

```
#!/bin/sh
for c in cn il ua ru ro hk by vn il mu
do
    curl -s http://www.ipdeny.com/ipblocks/data/aggregated/${c}-
    aggregated.zone
done | egrep '([[:digit:]]{1,3}\.){3}[[:digit:]]{1,3}' | uniq | sort -n
> /etc/pf_tables/pf.country
```

crontab

```
~ * * * * /bin/sh /root/bin/block_country.sh ; /sbin/pfctl -t country
-T replace -f /etc/pf_tables/pf.country >/dev/null 2>&1
```

Block TOR

block_tor.sh

```
#!/bin/sh
curl -s https://raw.githubusercontent.com/SecOps-Institute/Tor-IP-
Addresses/master/tor-exit-nodes.lst | uniq > /etc/pf_tables/pf.tor
```

crontab

```
~ * * * * /bin/sh /root/bin/block_tor.sh ; /sbin/pfctl -t tor -T
replace -f /etc/pf_tables/pf.tor >/dev/null 2>&1
```

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