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OpenVZ Iptables: Allow Traffic To Pass Via venet0 To All VPS

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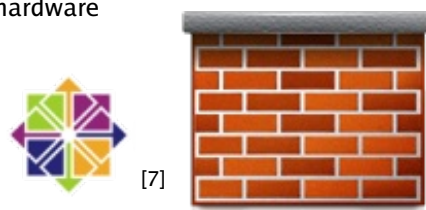
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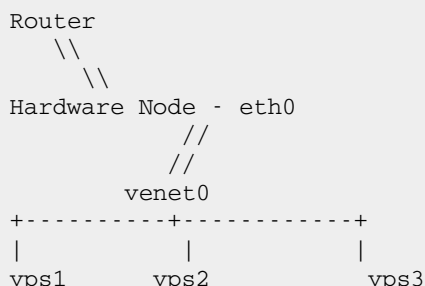
How do I configure IPTABLES to pass all traffic to my VPS (container) under hardware node?

venet0 is recommend networking for security and performance under OpenVZ Virtualization. Protecting hardware node is important from unauthorized access. venet0 is used to communicate between VPS and the LAN / Internet.



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Allow All Traffic To VPS

Following iptables rules allows to pass all traffic between hardware node and all vps / containers. Services running on hardware node such as ssh, http, webmin can only accessed within our LAN and not over the Internet.



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```

#!/bin/bash
# Explains how to setup iptables on the hardware node to allow selective access,
# but allow all traffic into the containers (VPS) so they may define their own iptables ru
# therefore manage their own firewall.
# Author: Vivek Gite < http://www.cyberciti.biz/ >
# See tutorial : http://www.cyberciti.biz/faq/series/rhel-centos-openvz-virtualization/
# This script is under GPL v2.0 or above.
# -----
IPT="/sbin/iptables"
MOP="/sbin/modprobe"
SYST="/sbin/sysctl"

### *****
### Part 1 - Protect Hardware Node
### *****

### HW Node Main IP ranges ###
SRVIP="123.xx.xx.yy"
ADMIN_RANGES="192.168.1.0/24"
  
```

```

SPOOFIP="127.0.0.0/8 192.168.0.0/16 172.16.0.0/12 10.0.0.0/8 169.254.0.0/16 0.0.0.0/8 240.0.0.0/8"

### Path to other scripts ###
[ -f /root/fw/blocked.ip.txt ] && BADIPS=$(egrep -v -E "^#|^$" /root/fw/blocked.ip.txt)

### Interfaces ###
PUB_IF="eth0"    # public interface
LO_IF="lo"       # loopback
VE_IF="venet0"

### start firewall ###
echo "Starting Firewall..."
$IPT -F
$IPT -X
$IPT -t nat -F
$IPT -t nat -X
$IPT -t mangle -F
$IPT -t mangle -X
$IPT -P INPUT ACCEPT
$IPT -P OUTPUT ACCEPT
$IPT -P FORWARD ACCEPT

# Enable ip_conntrack
$IPT ip_conntrack

# DROP and close everything all incoming traffic
$IPT -P INPUT DROP
$IPT -P OUTPUT DROP
$IPT -P FORWARD DROP

# Unlimited lo access
$IPT -A INPUT -i ${LO_IF} -j ACCEPT
$IPT -A OUTPUT -o ${LO_IF} -j ACCEPT

# Allow Full Outgoing connection but no incoming stuff by default
$IPT -A OUTPUT -o ${PUB_IF} -m state --state NEW,ESTABLISHED,RELATED -j ACCEPT
$IPT -A INPUT -i ${PUB_IF} -m state --state ESTABLISHED,RELATED -j ACCEPT

# Drop bad stuff
# get all bad spam / scrap ips
if [ -f /root/fw/blocked.ip.txt ];
then
    $IPT -N spamlist
    for ipblock in $BADIPS
    do
        $IPT -A spamlist -i ${PUB_IF} -s $ipblock -j LOG --log-prefix "SPAM List Block"
        $IPT -A spamlist -i ${PUB_IF} -s $ipblock -j DROP
    done
    $IPT -I INPUT -j spamlist
    $IPT -I OUTPUT -j spamlist
    $IPT -I FORWARD -j spamlist
done

$IPT -N spooflist
for ipblock in $SPOOFIP
do
    $IPT -A spooflist -i ${PUB_IF} -s $ipblock -j LOG --log-prefix "SPOOF List Block"
    $IPT -A spooflist -i ${PUB_IF} -s $ipblock -j DROP
done
$IPT -I INPUT -j spooflist
$IPT -I OUTPUT -j spooflist
$IPT -I FORWARD -j spooflist

# Stop sync
$IPT -A INPUT -i ${PUB_IF} -p tcp ! --syn -m state --state NEW -j DROP

# Stop Fragments
$IPT -A INPUT -i ${PUB_IF} -f -j DROP

$IPT -A INPUT -i ${PUB_IF} -p tcp --tcp-flags ALL FIN,URG,PSH -j DROP

```

```

$IPT -A INPUT -i ${PUB_IF} -p tcp --tcp-flags ALL ALL -j DROP

# Stop NULL packets
$IPT -A INPUT -i ${PUB_IF} -p tcp --tcp-flags ALL NONE -m limit --limit 5/m --limit-burst 5 -j LOG
$IPT -A INPUT -i ${PUB_IF} -p tcp --tcp-flags ALL NONE -j DROP

$IPT -A INPUT -i ${PUB_IF} -p tcp --tcp-flags SYN,RST SYN,RST -j DROP

# Stop XMAS
$IPT -A INPUT -i ${PUB_IF} -p tcp --tcp-flags SYN,FIN SYN,FIN -m limit --limit 5/m --limit-burst 5 -j LOG
$IPT -A INPUT -i ${PUB_IF} -p tcp --tcp-flags SYN,FIN SYN,FIN -j DROP

# Stop FIN packet scans
$IPT -A INPUT -i ${PUB_IF} -p tcp --tcp-flags FIN,ACK FIN -m limit --limit 5/m --limit-burst 5 -j LOG
$IPT -A INPUT -i ${PUB_IF} -p tcp --tcp-flags FIN,ACK FIN -j DROP

$IPT -A INPUT -i ${PUB_IF} -p tcp --tcp-flags ALL SYN,RST,ACK,FIN,URG -j DROP

# Get rid of broadcast
$IPT -A INPUT -i ${PUB_IF} -m pkttype --pkt-type broadcast -j DROP
$IPT -A INPUT -i ${PUB_IF} -m pkttype --pkt-type multicast -j DROP
$IPT -A INPUT -i ${PUB_IF} -m state --state INVALID -j DROP

# allow SSH, HTTP, HTTPD and webmin ONLY from $ADMIN_RANGES
$IPT -A INPUT -i ${PUB_IF} -s ${ADMIN_RANGES} -d ${SRVIP} -p tcp --destination-port 22 -j ACCEPT
$IPT -A INPUT -i ${PUB_IF} -s ${ADMIN_RANGES} -d ${SRVIP} -p tcp --destination-port 10000 -j ACCEPT
$IPT -A INPUT -i ${PUB_IF} -s ${ADMIN_RANGES} -d ${SRVIP} -p tcp --destination-port 80 -j ACCEPT
$IPT -A INPUT -i ${PUB_IF} -s ${ADMIN_RANGES} -d ${SRVIP} -p tcp --destination-port 443 -j ACCEPT

# Allow incoming ICMP ping pong stuff
$IPT -A INPUT -i ${PUB_IF} -p icmp --icmp-type 8 -m state --state NEW,ESTABLISHED,RELATED --state-timeout 30 -j ACCEPT
$IPT -A INPUT -i ${PUB_IF} -p icmp --icmp-type 3 -m limit --limit 30/sec -j ACCEPT
$IPT -A INPUT -i ${PUB_IF} -p icmp --icmp-type 5 -m limit --limit 30/sec -j ACCEPT
$IPT -A INPUT -i ${PUB_IF} -p icmp --icmp-type 11 -m limit --limit 30/sec -j ACCEPT

### *****
### Part 1 - Protect Hardware Node END          ###
### *****

### *****
### Part 2 - ALL VPS Specific Config          ###
### *****

# Allow all ports for all VPS i.e. full access
# user can set their own firewall inside vps
$IPT -P FORWARD ACCEPT
$IPT -F FORWARD

### *****
### Part 2 - ALL VPS Specific Config END      ###
### *****

# drop and log everything else
$IPT -A INPUT -m limit --limit 5/m --limit-burst 7 -j LOG
$IPT -A INPUT -j REJECT --reject-with icmp-port-unreachable

exit 0

```

Install this script at /root/fw/firewall:

```
# chmod +x /root/fw/firewall
```

Call it from /etc/rc.local

```
# echo '/root/fw/firewall' >> /etc/rc.local
```

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[5] OpenVZ Virtual Machine (VPS) Management: <http://www.cyberciti.biz/faq/openvz-virtual-machine-vps-management/>

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[7] Image: <http://www.cyberciti.biz/faq/category/centos/>

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