Subject: Firewall Posted by rcraig114 on Mon, 03 Feb 2014 01:23:50 GMT View Forum Message <> Reply to Message

I followed one of the recommended firewall guides that involves creating a "firewall" service instead of just plain ole IPTABLES. It works great, but there are a few customizations that I am having trouble with. Below is my code, sanitized of course. My first goal is to allow access to the Host Node via port 22 (secure shell). The only way I can figure out how to get it working right now is to add the IP I am coming from in the DMZ section. How can I add a statement (and where do I add it) to permit secure shell from a single host? Any help is appreciated.

#!/bin/sh

# firewall Start iptables firewall # chkconfig: 2345 97 87 # description: Starts, stops and saves iptables firewall # This script sets up the firewall for the INPUT chain (which is for # the HN itself) and then processes the config files under # /etc/firewall.d to set up additional rules in the FORWARD chain # to allow access to containers' services. . /etc/init.d/functions # the IP block allocated to this server SEGMENT="63.141.X.X/X" # the IP used by the hosting server itself THISHOST="63.141.X.X" # convince that abound he allowed to the HN:

# services that should be allowed to the HN; # services for containers are configured in /etc/firewall.d/\* OKPORTS="53 22 3000 80" # hosts allowed full access through the firewall, # to all containers and to this server DMZS="192.168.4.0/24 70.122.X.X 208.110.X.X 10.0.0.1 10.1.1.1 10.254.254.0/30"

purge() {
 echo -n "Firewall: Purging and allowing all traffic"
 iptables -P OUTPUT ACCEPT
 iptables -P FORWARD ACCEPT
 iptables -P INPUT ACCEPT
 iptables -F
 success ; echo
}
setup() {

echo -n "Firewall: Setting default policies to DROP" iptables -P INPUT DROP iptables -P FORWARD DROP iptables -I INPUT -j ACCEPT -m state --state ESTABLISHED,RELATED iptables -I FORWARD -j ACCEPT -m state --state ESTABLISHED,RELATED

```
iptables -I INPUT -j ACCEPT -i lo
 iptables -I FORWARD -j ACCEPT --source $SEGMENT
 success; echo
 echo "Firewall: Allowing access to HN"
 for port in $OKPORTS ; do
  echo -n "
                 port $port"
  iptables -I INPUT -j ACCEPT -s $SEGMENT -d $THISHOST --protocol tcp --destination-port
$port
  iptables -I INPUT -j ACCEPT -s $SEGMENT -d $THISHOST --protocol udp --destination-port
$port
  success; echo
 done
 for ip in $DMZS ; do
                DMZ $ip"
  echo -n "
  iptables -I INPUT -i eth0 -j ACCEPT -s $ip
  iptables -I FORWARD -i eth0 -i ACCEPT -s $ip
  success; echo
 done
 CTSETUPS=`echo /etc/firewall.d/*`
 if [ "$CTSETUPS" != "/etc/firewall.d/*" ] ; then
 echo "Firewall: Setting up container firewalls"
 for i in $CTSETUPS ; do
  . $i
  echo -n "
                 $CTNAME CT$CTID"
  if [ -n "$BANNED" ]; then
   for source in $BANNED; do iptables -I FORWARD -j DROP --destination $CTIP --source
$source ; done
  fi
  if [ -n "$OPENPORTS" ]: then
   for port in $OPENPORTS ; do iptables -I FORWARD -j ACCEPT --protocol tcp --destination
$CTIP --destination-port $port ; done
   for port in $OPENPORTS ; do iptables -I FORWARD -j ACCEPT --protocol udp --destination
$CTIP --destination-port $port : done
   for port in $OPENPORTS ; do iptables -I FORWARD -j ACCEPT --protocol udp --destination
$CTIP --destination-port 5060:5080 ; done
   for port in $OPENPORTS ; do iptables -I FORWARD -j ACCEPT --protocol udp --destination
$CTIP --destination-port 10000:20000 ; done
  fi
  if [ -n "$DMZS" ]; then
   for source in $DMZS ; do iptables -I FORWARD -j ACCEPT --protocol tcp --destination $CTIP
--source $source ; done
   for source in $DMZS; do iptables -I FORWARD -j ACCEPT --protocol udp --destination $CTIP
--source $source ; done
  fi
  [$? -eq 0] && success || failure
  echo
```

```
done
 fi
}
case "$1" in
 start)
   echo "Starting firewall ... "
  purge
  setup
  ;;
 stop)
  echo "Stopping firewall ... "
  purge
   ;;
 restart)
   $0 stop
  $0 start
  ;;
 status)
  iptables -n -L
  ;;
 *)
  echo "Usage: $0 <start|stop|restart|status>"
  ;;
```

Subject: Re: Firewall Posted by rcraig114 on Mon, 03 Feb 2014 23:42:31 GMT View Forum Message <> Reply to Message

OK, I've been able to figure out how to add individual rules. I just insert them at the bottom if need be or even in the beginning. My next problem is NAT. In order to conserve IP space, I created a container with a private IP address. The configuration for NAT is fairly straight forward,

iptables -t nat -A POSTROUTING -s 10.254.253.0/24 -o eth0 -j SNAT --to 63.141.X.X iptables -A INPUT -s 10.254.253.0/24 -j ACCEPT iptables -A FORWARD -d 10.254.253.0/24 -j ACCEPT

And it works just fine. However, I've tried a million different ways of integrating it into my above firewall config and it doesn't work. Anyone have any suggestions? Or does anyone have a different way of doing a firewall for the VZ host?