
Subject: Re: *CLOSED* Good way to isolate VE networks.
Posted by [sebastian](#) on Sun, 25 Mar 2007 16:49:08 GMT
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Hi Craig,

first of all: I got something working but only tested the theoretical Setup on a VMWare machine because i'm waiting for Debian etch to be released. This was more like a case study. I have not verified it for production use (since i'm not an iptables/firewall expert). So please don't be disappointed if this is not what you expected.

The network is as follows:

I use the network 10.10.10.0/8 for the internal machines. I access between those machines and access from those machines to e.g. the firewall and the internet is forbidden via policies. Certain machines are then granted to perform special operations using rules. This setup may be not perfect but i will fine tune it later when i do some real testing and prepare it for production.

I used shorewall for my setup but since it is only a nice interface for iptables you don't need to use it.

I configured three zones the "net" (Internet/LAN) the "fw" (default zone for the firewall(HN)) and "int" (The network for the VEs).

/etc/shorewall/zones:

```
#ZONE  TYPE      OPTIONS    IN          OUT
#              OPTIONS    OPTIONS
fw     firewall
net    ipv4
int    ipv4
#LAST LINE - ADD YOUR ENTRIES ABOVE THIS ONE - DO NOT REMOVE
```

The "routeback" option is important! You can add more options to customize the setup.

/etc/shorewall/interfaces:

```
#ZONE  INTERFACE  BROADCAST  OPTIONS
net    eth0       detect     proxyarp
int    venet0     detect     routeback
#LAST LINE -- ADD YOUR ENTRIES BEFORE THIS ONE -- DO NOT REMOVE
```

/etc/shorewall/policy:

```
#SOURCE  DEST      POLICY      LOG      LIMIT:BURST
#              LEVEL
```

```

fw      int      ACCEPT
fw      net      ACCEPT
#int    net      ACCEPT
int     int      DROP      info
all     all      DROP      info
#LAST LINE -- DO NOT REMOVE

```

I forward some ports to special VEs and allow certain machines to use services on other machines (e.g. DNS and apt-proxy).

/etc/shorewall/rules (This is really dirty but as i said this is nothing used for production)

```

DNAT    net      int:10.10.10.23    tcp    80
DNAT    net      int:10.10.10.24    tcp    53
DNAT    net      int:10.10.10.24    udp    53
ACCEPT  int      int:10.10.10.22    icmp
ACCEPT  int      int:10.10.10.24    tcp    53
ACCEPT  int      int:10.10.10.24    udp    53
ACCEPT  int      net              icmp
ACCEPT  int      int:10.10.10.24    tcp    53
ACCEPT  int      int:10.10.10.24    udp    53
ACCEPT  int      net              icmp
ACCEPT  int      fw              tcp    9999
ACCEPT  int      fw              udp    9999
ACCEPT  int:10.10.10.24 net      udp    53
ACCEPT  int:10.10.10.24 net      tcp    53

```

Then i use masquerading to let special machines access the internet (e.g. the internal apt-proxy and the dns)

/etc/shorewall/masq:

```

#INTERFACE      SUBNET      ADDRESS      PROTO  PORT(S) IPSEC
eth0            10.10.10.0/8
#LAST LINE -- ADD YOUR ENTRIES ABOVE THIS LINE -- DO NOT REMOVE

```

If something doesn't work as expected you can of course contact me again. I had some problems implementing the setup so far and haven't had the time to polish it up. I'm looking forward to hearing from you.

best regards
Sebastian