
Subject: Re: i can't ping vps from the host.
Posted by [lars.bailey](#) on Fri, 03 Dec 2010 05:56:43 GMT
[View Forum Message](#) <> [Reply to Message](#)

The kernel key I demonstraated to enable will not work with
with SYSCTL.

This will enable forwarding for all VETH interfaces;

```
net.ipv4.conf.default.forwarding = 1
```

This is taken directly from one Node server.

```
net.ipv4.conf.default.rp_filter = 1
net.ipv4.conf.all.rp_filter = 1
net.ipv4.conf.default.accept_source_route = 0
net.ipv4.conf.default.proxy_arp = 0
net.ipv4.conf.veth0.proxy_arp = 1
net.ipv4.conf.veth0.forwarding = 0
net.ipv4.conf.default.forwarding = 1
net.ipv4.conf.eth1.forwarding = 1
net.ipv4.conf.default.send_redirects = 1
net.ipv4.conf.all.send_redirects = 0
net.ipv4.conf.all.accept_redirects = 0
```

The kernel keys for the physical interfaces, is based on my particular setup.
Just proper your firewall rules, if you want to limit forwarding
for a VETH configured container. (self-explanatory)

This is my full "sysctl.conf"

```
kernel.sysrq = 1
kernel.core_uses_pid = 1
kernel.msgmnb = 65536
kernel.msgmax = 65536
kernel.shmmax = 4294967295
kernel.shmall = 268435456
```

Prevent SYN attacks

```
net.ipv4.tcp_syncookies = 1
net.ipv4.tcp_max_syn_backlog = 2048
net.ipv4.tcp_synack_retries = 2
```

OpenVZ

```
net.ipv4.conf.default.rp_filter = 1
net.ipv4.conf.all.rp_filter = 1
net.ipv4.conf.default.accept_source_route = 0
```

```
net.ipv4.conf.default.proxy_arp = 0
net.ipv4.conf.vebr0.proxy_arp = 1
net.ipv4.conf.vebr0.forwarding = 0
net.ipv4.conf.default.forwarding = 1
net.ipv4.conf.eth1.forwarding = 1
net.ipv4.conf.default.send_redirects = 1
net.ipv4.conf.all.send_redirects = 0
net.ipv4.conf.all.accept_redirects = 0
```

#IPv6

```
net.ipv6.conf.all.forwarding = 1
net.ipv6.conf.all.accept_redirects = 0
```

```
# Depreciated,but needed for setup tool
# net.ipv4.ip_forward = 1
```

My tweaks

```
net.core.rmem_default = 524288
net.core.rmem_max = 524288
net.core.wmem_default = 524288
net.core.wmem_max = 524288
net.ipv4.tcp_wmem = 4096 87380 524288
net.ipv4.tcp_rmem = 4096 87380 524288
net.ipv4.tcp_mem = 524288 524288 524288
net.ipv4.tcp_rfc1337 = 1
net.ipv4.ip_no_pmtu_disc = 0
net.ipv4.tcp_sack = 1
net.ipv4.tcp_fack = 1
net.ipv4.tcp_window_scaling = 1
net.ipv4.tcp_timestamps = 0
net.ipv4.tcp_ecn = 0
net.ipv4.conf.all.log_martians = 1
```

```
vm.vfs_cache_pressure = 50
vm.swappiness = 20
```

Hope it helps
