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Subject: Setup ipv6

Posted by [Husar](#) on Wed, 24 Nov 2010 21:08:56 GMT

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Hello.

Can anyone help me with setup ipv6?

I have fresh install CentOS 5.5 (2.6.18-194.17.1.el5.028stab070.7), under dedicated server.

vzctl version: 3.0.24.2

I read some docs, but i cant bring to live ipv6 under VM

What i need to do on HN?

1. /etc/sysctl:

```
net.ipv4.ip_forward = 1
net.ipv6.conf.default.forwarding = 1
net.ipv6.conf.all.forwarding = 1
net.ipv4.conf.default.proxy_arp = 0
net.ipv4.conf.all.rp_filter = 1
kernel.sysrq = 1
net.ipv4.conf.default.send_redirects = 1
net.ipv4.conf.all.send_redirects = 0
```

2. Enable ipv6 on /etc/vz/vz.conf:

```
## Global parameters
VIRTUOZZO=yes
LOCKDIR=/vz/lock
DUMPPDIR=/vz/dump
VE0CPUUNITS=1000
```

```
## Logging parameters
LOGGING=yes
LOGFILE=/var/log/vzctl.log
LOG_LEVEL=0
VERBOSE=0
```

```
## Disk quota parameters
DISK_QUOTA=yes
VZFASTBOOT=no
```

```
# Disable module loading. If set, vz initscript do not load any modules.
#MODULES_DISABLED=yes
```

```
# The name of the device whose IP address will be used as source IP for CT.
# By default automatically assigned.
```

```
#VE_ROUTE_SRC_DEV="eth0"

# Controls which interfaces to send ARP requests and modify APR tables on.
NEIGHBOUR_DEVS=all

## Template parameters
TEMPLATE=/vz/template

## Defaults for containers
VE_ROOT=/vz/root/$VEID
VE_PRIVATE=/vz/private/$VEID
CONFIGFILE="vps.basic"
DEF_OSTEMPLATE="fedora-core-4"

## Load vzwdog module
VZWDOG="no"

## IPv4 iptables kernel modules
IPTABLES="ipt_REJECT ipt_tos ipt_TOS ipt_LOG ip_conntrack ipt_limit ipt_multiport iptable_filter
iptables_mangle ipt_TCPMSS ipt_tcpmss ipt_ttl ipt_length ipt_state iptable_nat ip_nat_ftp
ipt_owner ipt_REDIRECT"
## Enable IPv6
[b]IPV6="yes"[/b]

## IPv6 ip6tables kernel modules
IP6TABLES="ip6_tables ip6table_filter ip6table_mangle ip6t_REJECT"
```

### 3. Check kernel modules:

```
[home-node]# lsmod | grep ipv6
ipv6                466492  132 vzrst,vzcpt,vzmon,ip6t_REJECT
xfrm_nalgo           43268   1 ipv6

[home-node]# lsmod | grep vznetdev
vznetdev             57616   26
vzmon                84120   17 vzethdev,vznetdev,vzrst,vzcpt
vzdev                36872    6 vzethdev,vznetdev,vzmon,vzquota
```

So, its look ok. I have dedicated server on OVH with: "IPv6: 2001:41D0:x:yyyy::/64".  
 What should i do next, to get usable ipv6 adress working on VPS(not home-node)? Example:  
 "2001:41D0:x:yyyy:zzzz:zzzz:zzzz:zzzz" ?

Thanks for any help

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