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Subject: Re: IPv6 ??

Posted by [Thorsten Schifferdeck](#) on Thu, 24 Jan 2008 20:57:28 GMT

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Hi,

for official IPv6 i'm using sixxs as tunnelbroker,  
these steps i've done connect a Debian OpenVZ system  
to a IPv6 Network for the VE with a venet0 interface:

1) Setup an IPv6 Tunnel (-> <https://noc.sixxs.net/> )

Relevant IPv6 settings in "/etc/network/interfaces"

[...]

```
# device: sixxs ipv6 tunnel with static IPv6
```

```
auto sixxs
```

```
iface sixxs inet6 v4tunnel
```

```
    address <your_assigned_IPv6_ADDRESS>
```

```
    netmask 64
```

```
    endpoint <IPv4_ADDRESS_of_tunnelbroker>
```

```
    ttl 64
```

```
    up ip link set mtu 1280 dev sixxs
```

```
    up ip route add default via <IPv6_ADDRESS_of_tunnelbroker> dev sixxs
```

[...]

```
VE_0$ ifup sixxs
```

2) Setup OpenVZ with IPv6 :

```
# enable IPv6 forwarding for all Interfaces
```

```
VE_0$ sysctl -q -w net.ipv6.conf.all.forwarding=1
```

```
# enable IPv6 in /etc/vz/vz.conf -> IPV6="yes"
```

```
# and restart OpenVZ Subsystem, so venet has a IPv6 Address
```

```
VE_0$ /etc/init.d/vz restart
```

```
# give a VE an IPv6 address, you need a IPv6 subnet (
```

```
https://noc.sixxs.net/ )
```

```
VE_0$ vzctl set <VEID> --ipadd <IPv6_ADDRESS> [--yes]
```

3) Test it

If you connected to an official IPv6 network, you can test it, by pinging  
debian.systs.org ( 2001:6f8:109a::1a01 ) or visit IPv6 sites like  
<http://www.kame.net> and see the dancing turtle ;-)

Bye,

Thorsten

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Thorsten Schifferdecker  
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Am Do, 24.01.2008, 18:29, schrieb Benoit Branciard:

> Temporarily giving up messing with veth devices (forgot dhcpd server for  
> now), I concentrated on setting up a basic VS with both IPv4 and IPv6  
> addresses, using standard venet device.  
>  
> I'm using Debian Etch hardware node with debian.systs.org packages.  
>  
> So I did:  
>  
> - install packages and reboot as necessary :  
> fzkernel-2.6.18-686 vzctl vzctl-ostmpl-debian vzdump vzprocps vzquota  
>  
> - ensure /etc/sysctl.conf contains :  
>  
> net.ipv4.conf.default.forwarding = 1  
> net.ipv4.conf.all.rp\_filter = 1  
> kernel.sysrq = 1  
> net.ipv4.conf.default.send\_redirects = 1  
> net.ipv4.conf.all.send\_redirects = 0  
>  
> - ensure /etc/vz/vz.conf contains:  
> IPV6="yes"  
>  
> - create VS :  
> vzctl create 112 --ipadd XXX.YYY.ZZZ.12 --ipadd xxx:yyy:zzzz::12  
> --hostname brahma-vps112  
>  
> (default template is debian-4.0-i386-minimal, hardware node has only one  
> physical interface activated, on the same subnet as VS)  
>  
> - start VS :  
> vzctl start 112  
>  
>  
> Result:  
>  
> - IPv4 VS works as expected (ping succeeds from hardware node, external  
> server in same subnet, external server on another subnet).  
>  
> - IPv6 VS doesn't work !!! (ping6 works \*only\* between VS and hardware  
> node, not from external sources; VS has IPv6 address correctly defined,  
> as per ifconfig).  
>

> Am I missing something ?  
>  
> I suspected it may be useful to set sysctl  
> net.ipv6.conf.<iface>.forwarding to 1, but :  
> - this turns the box in "router" mode, disabling RA acceptance from  
> default router (annoying)  
> - this doesn't work either !!

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