
Subject: IPv6 with venet

Posted by [Jan Tomasek](#) on Mon, 09 Jul 2007 13:40:18 GMT

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Hi,

after upgrade to vzctl version 3.0.18-1dso1 I got new set of /etc/vz/dists/scripts/. There were changes in IPv6 code for Debian.

Thanks to those changes now IPv6 works between HW node and VE:

```
> stj-dev:~# ping6 2001:718:1:e::23:3005
> PING 2001:718:1:e::23:3005(2001:718:1:e::23:3005) 56 data bytes
> 64 bytes from 2001:718:1:e::23:3005: icmp_seq=1 ttl=64 time=0.068 ms
```

Problem is that I still can not reach VE from outside (staff is box with IPv6 support).

```
> semik@staff:~$ ping6 2001:718:1:e::23:3005
> PING 2001:718:1:e::23:3005(2001:718:1:e::23:3005) 56 data bytes
```

ping does not show anything, it just hangs. In tcpdump on HW node I see:

```
> 15:38:41.465836 802.1d unknown version
> 15:38:41.498548 IP6 staff.cesnet.cz > 2001:718:1:e::23:3005: ICMP6, echo request, seq 923, length 64
> 15:38:42.498349 IP6 staff.cesnet.cz > 2001:718:1:e::23:3005: ICMP6, echo request, seq 924, length 64
> 15:38:43.462572 802.1d unknown version
> 15:38:43.498152 IP6 staff.cesnet.cz > 2001:718:1:e::23:3005: ICMP6, echo request, seq 925, length 64
> 15:38:43.733136 arp who-has 195.113.233.73 tell 195.113.233.1
> 15:38:44.497951 IP6 staff.cesnet.cz > 2001:718:1:e::23:3005: ICMP6, echo request, seq 926, length 64
> 15:38:45.427653 IP6 fe80::215:faff:fe87:3100 > ip6-allnodes: ICMP6, router advertisement, length 64
> 15:38:45.462453 802.1d unknown version
> 15:38:45.497753 IP6 staff.cesnet.cz > 2001:718:1:e::23:3005: ICMP6, echo request, seq 927, length 64
> 15:38:46.497552 IP6 staff.cesnet.cz > 2001:718:1:e::23:3005: ICMP6, echo request, seq 928, length 64
```

I was suspecting route problems but routes does look ok. VE:

```
> root@ipv6-pokus:/# route -6
> Kernel IPv6 routing table
> Destination                Next Hop                Flags Metric Ref    Use Iface
> ::1/128                    ::                      U    0    1    1 lo
```

```

> ::1/128 :: U 0 0 1 lo
> 2001:718:1:e::23:3005/128 :: U 0 13 1 lo
> 2001:718:1:101:20b:dbff:fe93:5c38/128 2001:718:1:101:20b:dbff:fe93:5c38 UC 0
101 0 venet0
> fe80::/64 :: U 256 0 0 venet0
> ff00::/8 :: U 256 0 0 venet0
> ::/0 :: U 256 0 0 venet0

```

HW node:

```
> stj-dev:/proc/sys/net/ipv6/conf/venet0# route -6
```

```
> Kernel IPv6 routing table
```

Destination	Next Hop	Flags	Metric	Ref	Use	Iface
> ::1/128	::	U 0	8	1	lo	
> 2001:718:1:e::23:3004/128	::	U 0	926	1	lo	
> 2001:718:1:e::23:3005/128	::	U 1024	0	0	venet0	
> 2001:718:1:e:213:72ff:fe1b:b97/128	::	U 0	0	0	1	lo
> 2001:718:1:e::/64	::	U 256	302	0	eth0	
> fe80::1/128	::	U 0	0	1	lo	
> fe80::213:72ff:fe1b:b97/128	::	U 0	58	1	lo	
> fe80::/64	::	U 256	0	0	eth0	
> fe80::/64	::	U 256	0	0	venet0	
> ff02::1/128	ff02::1	UC 0	327	0	eth0	
> ff00::/8	::	U 256	0	0	eth0	
> ff00::/8	::	U 256	0	0	venet0	
> ::/0	fe80::215:faff:fe87:3100	UGDA	1024	483	0	eth0

Please, does anyone have any sugestions?

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