Subject: 6to4 - tunnel for VE
Posted by shion on Tue, 11 Aug 2009 15:07:06 GMT
View Forum Message <> Reply to Message

Hello,

I need a separate 6to4 tunnel IP-address for a VE.
The HN and each VE have a own static public IPv4-address.

Configuration on HN:
auto sit1
iface sit1 inet6 v4tunnel
address 2002:75aa:2a14::1
netmask 64
gateway ::192.88.99.1
endpoint any
local 117.170.42.20
Enable IPv6 in vz.conf
ipv6="yes"
Enable IPv6 forwarding
echo 1 > /proc/sys/net/ipv6/conf/all/forwarding
After this configuration is a ping6 from 2002:75aa:2a14::1 possible.
ping6 ipv6.google.com
PING ipv6.google.com(ey-in-x68.google.com) 56 data bytes
64 bytes from ey-in-x68.google.com: icmp_seq=1 ttl=54 time=42.0 ms
64 bytes from ey-in-x68.google.com: icmp_seq=2 ttl=54 time=41.6 ms
Next I have executed
vzctl set 111 --ipadd 2002:75aa:2a14::2 --saveso that I can ping6 from the VE too.
The VE uses the venet0 interface.

So far, so good..

That works for now but I need another solution.
The VE has an own public IPv4-address and this address should be used for VEs 6to4 tunnel.

I tried the following things:

Set NEIGHBOUR_DEVS to all in vz.conf
NEIGHBOUR_DEVS=all
Set the desired 6to4 IPv6 address and removed the old IP:
vzctl set 111 --ipdel 2002:75aa:2a14::2 -save
vzctl set 111 --ipadd 2002:75aa:2a15::1 -save
Results:
- ping6 from HN works furthermore
- ping6 from VE doen't work anymore

```
# ping6 ipv6.google.com
PING ipv6.google.com(ey-in-x68.google.com) 56 data bytes
^C
# tcpdump -n icmp6
tcpdump: verbose output suppressed, use -v or -vv for full protocol decode
listening on venet0, link-type LINUX_SLL (Linux cooked), capture size 96 bytes
16:24:39.462282 IP6 2002:75aa:2a15::1 > 2001:4860:a005::68: ICMP6, echo request, seq 1,
length 64
16:24:40.475794 IP6 2002:75aa:2a15::1 > 2001:4860:a005::68: ICMP6, echo request, seq 2,
length 64
16:24:41.475795 IP6 2002:75aa:2a15::1 > 2001:4860:a005::68: ICMP6, echo request, seq 3,
length 64
```

The ICMP reply packets are missing. So it could be a routing issue?!

VE - route -6

```
# route -6
Kernel IPv6 routing table
Destination                    Next Hop                   Flag Met Ref Use If
::1/128                        ::                         U    256 0     0 venet0
fe80::/64                      ::                         U    256 0     0 venet0
::/0                           ::                         U    256 0     1 venet0
::/0                           ::                         !n   -1  1  1345 lo
::1/128                        ::                         Un   0   1   425 lo
::1/128                        ::                         Un   0   1     0 lo
2002:75aa:2a15::1/128          ::                         Un   0   1  4642 lo
ff00::/8                       ::                         U    256 0     0 venet0
::/0                           ::                         !n   -1  1  1345 lo
```

HN - route -6

```
# route -6
Kernel IPv6 routing table
Destination                    Next Hop                   Flag Met Ref Use If
::192.88.99.1/128              ::                         U    1024 0     3 sit1
::/96                          ::                         Un   256 0     0 sit1
2002:75aa:2a14::/64            ::                         U    256 0     0 sit1
2002:75aa:2a15::1/128          ::                         U    1024 0     0 venet0
fe80::1/128                    ::                         U    256 0     0 venet0
fe80::/64                      ::                         U    256 0     0 eth0
fe80::/64                      ::                         U    256 0     0 venet0
fe80::/64                      ::                         U    256 0     0 sit1
::/0                           ::192.88.99.1              UG   1024 0     7 sit1
::/0                           ::                         !n   -1  1301588 lo
::1/128                        ::                         Un   0   1 31413 lo
::117.170.42.20/128            ::                         Un   0   1     0 lo
2002:75aa:2a14::/128           ::                         Un   0   1     0 lo
2002:75aa:2a14::1/128          ::                         Un   0   1     0 lo
fe80::/128                     ::                         Un   0   1     0 lo
fe80::/128                     ::                         Un   0   1     0 lo
fe80::1/128                    ::                         Un   0   1     0 lo
```

fe80::214:22ff:fe73:78e4/128 :: Un 0 1 0 lo
fe80::218:51ff:fec5:4e68/128 :: Un 0 1 0 lo
ff00::/8 :: U 256 0 0 eth0
ff00::/8 :: U 256 0 0 venet0
ff00::/8 :: U 256 0 0 sit1
::/0 :: !n -1 1301588 lo
But it is possible to ping6 between HN <--> VE.
ping6 2002:75aa:2a14::1
PING 2002:d946:8e2a::1(2002:d946:8e2a::1) 56 data bytes
64 bytes from 2002:75aa:2a14::1: icmp_seq=1 ttl=64 time=0.074 ms
64 bytes from 2002:75aa:2a14::1: icmp_seq=2 ttl=64 time=0.046 ms# ping6 2002:75aa:2a15::1
PING 2002:d946:8e51::1(2002:d946:8e51::1) 56 data bytes
64 bytes from 2002:75aa:2a15::1: icmp_seq=1 ttl=64 time=0.071 ms
64 bytes from 2002:75aa:2a15::1: icmp_seq=2 ttl=64 time=0.065 ms
versions:
uname -r
2.6.26-2-openvz-amd64
vzctl --version
vzctl version 3.0.22

So where is the problem?

I hope you can understand my problem.
If not feel free to ask, if something isn't clear.

Best regards
shion

(all IP-addresses are replaced)