Subject: Re: IPv6 ??
Posted by Thorsten Schifferdeck[1] on Fri, 25 Jan 2008 06:30:42 GMT

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Hi,

@jan: how get your IPv6 connectivity ?

IPv6 traceroute from noc.sixxs.net @ SixXS NOC, AS12871 to
2001:718:1:e::23:3257 :

```
Hop  Node                Loss% Sent  Last  Avg  Best Worst
StDev    ASN      Organisation
  1. 2001:838:1:1::1        0.0%    5   0.4  0.4  0.4  0.4
0.0   [.nl] Netherlands, The 12871     Concepts ICT
   ge-1-3-0.breda.ipv6.concepts-ict.net.
  2. 2001:838:0:10::1        0.0%    5   2.3  2.4  2.3  2.4
0.0   [.nl] Netherlands, The 12871     Concepts ICT
  3. 2001:7f8:1::a500:3257:1    0.0%    5   2.8  2.8  2.8  2.8  0.0
   ams-ix-1.ip.tiscali.net.
  4. 2001:668:0:2::1:272        0.0%    5   2.9  3.0  2.9  3.0
0.0   [.eu] Europe       Tiscali International Network B.V.
   so-6-1-0.ams22.ip6.tiscali.net.
  5. 2001:668:0:2::1:481        0.0%    5   6.1  6.4  6.1  6.8
0.3   [.eu] Europe       Tiscali International Network B.V.
   so-6-1-0.dus11.ip6.tiscali.net.
  6. 2001:668:0:2::1:2         0.0%    5   9.5  9.4  9.2  9.6
0.2   [.eu] Europe       Tiscali International Network B.V.
   so-0-1-0.fra40.ip6.tiscali.net.
  7. 2001:668:0:2::1:292       0.0%    5  17.2 18.8 17.2 24.8
3.4   [.eu] Europe       Tiscali International Network B.V.
   so-0-0-0.prg11.ip6.tiscali.net.
  8. 2001:7f8:14::1:1        0.0%    5  18.0 20.1 18.0 25.4  3.1
   nix2-10ge.ipv6.cesnet.cz.
  9. ???              100.0    5   0.0  0.0  0.0  0.0  0.0
```

Can you post the output from traceroute6 from your Hardware Node / VE to
2001:838:1:1:210:dcff:fe20:7c7c (noc.sixxs.net) ?

Bye,
 Thorsten
--
Thorsten Schifferdecker
tsd@debian.systs.org

Am Do, 24.01.2008, 21:47, schrieb Jan Tomasek:
> Hello Benoit,
>

>> 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.
>>
>> [...]
>
>> 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 !!
>
> Very interesting! I'm having exactly same problem here. IPv6 was working
> perfectly for me after some problems before several months. Now I had to
> reboot my HW node and IPv6 is gone.
>
> When I try to ping VE from real world I'm getting:
>
>> semik@staff:~$ ping6 2001:718:1:e::23:3257
>> PING 2001:718:1:e::23:3257(2001:718:1:e::23:3257) 56 data bytes
>> From 2001:718:1:101::1 icmp_seq=0 Destination unreachable: Address
>> unreachable
>> From 2001:718:1:101::1 icmp_seq=3 Destination unreachable: Address
>> unreachable
>
> From HW node to VE or from one VE to another VE is IPv6 working fine. I
> think that HW node didn't sent some info to it's IPv6 gateway about
> presence of new IPv6 address. Sadly I'm clue less how to better debug
> this. But!
>
> I've discovered trick. Run alternate version of this on your HW node:
>
>> ifconfig eth0 add 2001:718:1:e::23:3257/64
>> sleep 5
>> ping6 -I 2001:718:1:e::23:3257 -c 1 2001:718:1:e::1
>> ifconfig eth0 del 2001:718:1:e::23:3257/64
>

> 2001:718:1:e::23:3257 - IPv6 address of VE
> 2001:718:1:e::1 - gateway
>
> That will cause that router will learn about presence of VE. It lasts
> for several hours. I discovered it at about 17 clock and now at 22 are
> VE still IPv6 online... but I'm afraid that clearing IPv6 neighbours
> table on router will kill this. Something is not working on HW node.
>
>
> I'm running 2.6.18-028stab051 on Debian Etch. Output of sysctl -a |grep
> net.ipv6 | sort >/tmp/chlivek.ipv6 is attached. Hope someone will point
> out where problem is. Yesterday I've reboot my second HW node...
>
> --
> ----------------------
> Jan Tomasek aka Semik
> http://www.tomasek.cz/