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Subject: Re: IPv6 ??

Posted by [Thorsten Schifferdeck](#) on Fri, 25 Jan 2008 07:45:06 GMT

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@jan:

IPv6 traceroute from noc.sixxs.net @ SixXS NOC, AS12871 to  
2001:718:1:e::23:3254 :

Hop	Node	Loss%	Sent	Last	Avg	Best	Worst
StDev	ASN	Organisation					
1.	2001:838:1:1::1	0.0%	5	0.5	5.5	0.4	25.5
11.2	[.nl] Netherlands, The 12871			Concepts ICT			
	ge-1-3-0.breda.ipv6.concepts-ict.net.						
2.	2001:838:0:10::1	0.0%	5	2.6	3.0	2.4	4.5
0.9	[.nl] Netherlands, The 12871			Concepts ICT			
3.	2001:7f8:1::a500:3257:1	0.0%	5	3.1	2.9	2.7	3.2 0.2
	ams-ix-1.ip.tiscali.net.						
4.	2001:668:0:2::1:272	0.0%	5	3.2	3.2	3.1	3.3
0.1	[.eu] Europe			Tiscali International Network B.V.			
	so-6-1-0.ams22.ip6.tiscali.net.						
5.	2001:668:0:2::1:121	0.0%	5	6.2	6.6	6.2	6.8
0.3	[.eu] Europe			Tiscali International Network B.V.			
	so-4-0-0.dus11.ip6.tiscali.net.						
6.	2001:668:0:2::1:401	0.0%	5	9.8	9.6	9.3	9.8
0.2	[.eu] Europe			Tiscali International Network B.V.			
	so-5-0-0.fra40.ip6.tiscali.net.						
7.	2001:668:0:2::1:292	0.0%	5	17.0	17.3	16.8	17.9
0.4	[.eu] Europe			Tiscali International Network B.V.			
	so-0-0-0.prg11.ip6.tiscali.net.						
8.	2001:7f8:14::1:1	0.0%	5	18.6	41.7	18.2	134.9 52.1
	nix2-10ge.ipv6.cesnet.cz.						
9.	2001:718:1:e::23:3254	0.0%	5	17.9	17.8	17.4	18.0
0.2	[.cz] Czech Republic			CESNET Sub-T			

work perfectly, btw, you can access the traceroute tool at  
<https://noc.sixxs.net/tools/traceroute/>, too

Bye,

Thorsten

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Thorsten Schifferdecker

[tsd@debian.systs.org](mailto:tsd@debian.systs.org)

Am Fr, 25.01.2008, 08:12, schrieb Jan Tomasek:

> Hi,

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> Thorsten Schifferdecker wrote:
>> @jan: how get your IPv6 connectivity ?
>
> I've static setup on HW node:
>
> iface eth0 inet6 static
>     post-up /sbin/sysctl -w "net.ipv6.conf.eth0.autoconf=0"
>     post-up /sbin/sysctl -w "net.ipv6.conf.all.forwarding=1"
>     address 2001:718:1:e::23:3254
>     gateway 2001:718:1:e::1
>     netmask 64
>
> Traceroute from HW node:
>
>> chlivek:~# traceroute6 2001:838:1:1:210:dcff:fe20:7c7c
>> traceroute to 2001:838:1:1:210:dcff:fe20:7c7c
>> (2001:838:1:1:210:dcff:fe20:7c7c) from 2001:718:1:e::23:3254, 30 hops
>> max, 16 byte packets
>> 1 2001:718:1:e::1 (2001:718:1:e::1) 0.983 ms 4.869 ms 2.949 ms
>> 2 2001:718:0:607::1 (2001:718:0:607::1) 4.943 ms 4.823 ms 2.895 ms
>> 3 2001:718:0:607::2 (2001:718:0:607::2) 4.929 ms 4.867 ms 2.968 ms
>> 4 ipv6-ge-2-1-0.prg11.ip.tiscali.net (2001:7f8:14::3:1) 3.359 ms
>> 3.328 ms 4.439 ms
>> 5 so-5-1-0.fra40.ip6.tiscali.net (2001:668:0:2::1:291) 9.113 ms
>> 8.861 ms 14.915 ms
>> 6 so-4-1-0.dus11.ip6.tiscali.net (2001:668:0:2::1:402) 12.322 ms
>> 12.146 ms 15.893 ms
>> 7 so-7-0-0.ams22.ip6.tiscali.net (2001:668:0:2::1:482) 15.88 ms
>> 16.848 ms 15.919 ms
>> 8 so-6-0-0.ams11.ip6.tiscali.net (2001:668:0:2::1:271) 15.889 ms
>> 15.955 ms 14.971 ms
>> 9 ge6-2-0.br0.ams3.nl.gbx.net (2001:7f8:1::a500:9009:1) 15.511 ms
>> 15.454 ms 15.972 ms
>> 10 ams-ix2.ipv6.concepts.nl (2001:7f8:1::a501:2871:2) 15.437 ms
>> 15.937 ms 15.837 ms
>> 11 2001:838:0:14::2 (2001:838:0:14::2) 16.108 ms 15.294 ms 16.615 ms
>> 12 2001:838:0:10::2 (2001:838:0:10::2) 21.508 ms 21.488 ms 17.428 ms
>> 13 noc.sixxs.net (2001:838:1:1:210:dcff:fe20:7c7c) 21.508 ms 21.46 ms
>> 18.441 ms
>
>
> From VE (differnet IP, that 3257 was just experiemnt with my trick).
>
>> root@idp:~# traceroute6 2001:838:1:1:210:dcff:fe20:7c7c
>> traceroute to 2001:838:1:1:210:dcff:fe20:7c7c
>> (2001:838:1:1:210:dcff:fe20:7c7c) from 2001:718:1:e::23:3248, 30 hops
>> max, 16 byte packets
>> 1 2001:718:1:e::23:3254 (2001:718:1:e::23:3254) 0.045 ms 0.015 ms

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>> 0.011 ms
>> 2 2001:718:0:607::1 (2001:718:0:607::1) 1.105 ms 0.837 ms 1.381 ms
>> 3 2001:718:0:607::2 (2001:718:0:607::2) 0.663 ms 0.44 ms 0.373 ms
>> 4 ipv6-ge-2-1-0.prg11.ip.tiscali.net (2001:7f8:14::3:1) 0.566 ms
>> 0.529 ms 0.529 ms
>> 5 so-5-1-0.fra40.ip6.tiscali.net (2001:668:0:2::1:291) 8.551 ms
>> 8.493 ms 8.499 ms
>> 6 so-4-1-0.dus11.ip6.tiscali.net (2001:668:0:2::1:402) 11.302 ms
>> 11.26 ms 11.256 ms
>> 7 so-0-0-0.ams22.ip6.tiscali.net (2001:668:0:2::1:122) 15.086 ms
>> 15.044 ms 15.039 ms
>> 8 pos-7-5-0.ams11.ip6.tiscali.net (2001:668:0:2::630) 14.943 ms
>> 14.945 ms 15.464 ms
>> 9 ge6-2-0.br0.ams3.nl.gbxs.net (2001:7f8:1::a500:9009:1) 15.65 ms
>> 15.52 ms 16.392 ms
>> 10 ams-ix2.ipv6.concepts.nl (2001:7f8:1::a501:2871:2) 17.111 ms
>> 15.812 ms 15.879 ms
>> 11 2001:838:0:14::2 (2001:838:0:14::2) 16.031 ms 15.915 ms 15.91 ms
>> 12 2001:838:0:10::2 (2001:838:0:10::2) 17.83 ms 18.28 ms 17.903 ms
>> 13 noc.sixxs.net (2001:838:1:1:210:dcff:fe20:7c7c) 17.661 ms 18.263
>> ms 17.993 ms
>
> Could you please try traceroute at 2001:718:1:e::23:3254? Path seems to
> be different from yours. But I'm not sure if that could indicate
> something bad in your IPv6 network setup. I'm not able to reach machines
> which are in our own network so it looks like something more
> fundamental. For IPv4 I will say that arp is not working but ...
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>
>
> --
> -----
> Jan Tomasek aka Semik
> http://www.tomasek.cz/
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