Subject: Re: IPv6 again but this time with veth
Posted by gblond on Fri, 29 Jun 2007 08:50:22 GMT
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You added veth012.0 device to the bridge br0. How about eth0 ?

On the Friday 29 June 2007 12:23 Jan Tomasek, wrote:
> Oh. I got lost! Could I try to describe it again?
>
> My HW node is staj-dev:
>
> auto eth0
> iface eth0 inet static
> address 195.113.233.4
> netmask 255.255.255.0
> network 195.113.233.0
> broadcast 195.113.233.255
> gateway 195.113.233.1
> dns-nameservers 195.113.144.233 195.113.144.194
> dns-search cesnet.cz
>
> iface eth0 inet6 static
> post-up /sbin/sysctl -w "net.ipv6.conf.eth0.autoconf=0"
> address 2001:718:1:e::23:3004
> netmask 64
>
> My VE node, has this config (ip6v2-test):
>
> auto eth0
> iface eth0 inet static
> address 195.113.233.12
> netmask 255.255.255.0
> network 195.113.233.0
> broadcast 195.113.233.255
> gateway 195.113.233.4
> dns-nameservers 195.113.144.233 195.113.144.194
> dns-search cesnet.cz
>
>
> eth0 inet6 static
> iface eth0 inet6 static
> address 2001:718:1:e::23:3012
> netmask 64
>
> After executing:
>
> brctl addbr vzbr0
> brctl addif vzbr0 veth012.0

> ifconfig vzbr0 0
> echo 1 > /proc/sys/net/ipv4/conf/vzbr0/forwarding
> echo 1 > /proc/sys/net/ipv4/conf/vzbr0/proxy_arp
> echo 1 > /proc/sys/net/ipv4/conf/eth0/forwarding
> echo 1 > /proc/sys/net/ipv4/conf/eth0/proxy_arp
> ip route add 195.113.233.12 dev vzbr0
> ip route add 2001:718:1:e::23:3012 dev vzbr0
>
> **MARK**
>
> VE starts to be reachable from Internet on IPv4. What should I do next?
>
> echo 1 > /proc/sys/net/ipv6/conf/eth0/forwarding
>
> somehow broke IPv6 for HW node.
>
> echo 1 > /proc/sys/net/ipv6/conf/vzbr0/forwarding
>
> cause no problem.
>
> Well - returning to point marked as **MARK**.
>
> Route table on HW node:
>
> > staj-dev:~# route -6
> > Kernel IPv6 routing table
> > Destination Next Hop Flags Metric Ref Use Iface
> > ::1/128 :: U 0 6 1 lo
> > 2001:718:1:e::23:3004/128 :: U 0 788 1 lo
> > 2001:718:1:e::23:3012/128 :: U 1024 0 0 vzbr0
> > 2001:718:1:e::/64 :: U 256 169 0 eth0
> > fe80::/128 :: U 0 0 2 lo
> > fe80::1/128 :: U 0 0 1 lo
> > fe80::20c:29ff:fe63:a674/128 :: U 0 0 1 lo
> > fe80::20c:29ff:fe63:a674/128 :: U 0 0 1 lo
> > fe80::213:72ff:fe1b:b97/128 :: U 0 32 1 lo
> > fe80::/64 :: U 256 0 0 eth0
> > fe80::/64 :: U 256 0 0 venet0
> > fe80::/64 :: U 256 0 0 veth012.0
> > fe80::/64 :: U 256 0 0 vzbr0
> > f020::1/128 ff02::1 UC 0 165 0 eth0
> > ff00::/8 :: U 256 0 0 eth0
> > ff00::/8 :: U 256 0 0 venet0
> > ff00::/8 :: U 256 0 0 veth012.0
> > ff00::/8 :: U 256 0 0 vzbr0
> > ::/0 fe80::215:faff:fe87:3100 UGDA 1024 167 0 eth0
>
> Route table on VE node:

>
> > root@ip6v2-test:/# route -6
> > Kernel IPv6 routing table
> > Destination Next Hop Flags Metric Ref Use Iface
> > ::1/128 :: U 0 1 1 lo
> > 2001:718:1:e::23:3012/128 :: U 0 53 1 lo
> > 2001:718:1:e::/64 :: U 256 0 0 eth0
> > fe80::20c:29ff:fe63:a673/128 :: U 0 0 1 lo
> > fe80::/64 :: U 256 0 0 eth0
> > ff00::/8 :: U 256 0 0 eth0
>
> VE is missing default GW, I expect it to show there somehow automaticaly
> like in HW node... maybe this is one of my bugs.
>
> When I try to ping my HW node, for that I've routes there I get:
>
> > root@ip6v2-test:/# ping6 2001:718:1:e::23:3004
> > PING 2001:718:1:e::23:3004(2001:718:1:e::23:3004) 56 data bytes
> > From 2001:718:1:e::23:3012 icmp_seq=1 Destination unreachable: Address unreachable
> > From 2001:718:1:e::23:3012 icmp_seq=2 Destination unreachable: Address unreachable
>
> and on HW node:
>
> > staj-dev:~# tcpdump -i vzbr0
> > tcpdump: WARNING: vzbr0: no IPv4 address assigned
> > tcpdump: verbose output suppressed, use -v or -vv for full protocol decode
> > listening on vzbr0, link-type EN10MB (Ethernet), capture size 96 bytes
> > 11:23:40.306129 IP6 2001:718:1:e::23:3012 > ff02::1:ff23:3004: ICMP6, neighbor solicitation, who has staj-dev6.cesnet.cz, length 32
> > 11:23:41.305975 IP6 2001:718:1:e::23:3012 > ff02::1:ff23:3004: ICMP6, neighbor solicitation, who has staj-dev6.cesnet.cz, length 32
>
> When I try oposite direction:
>
> > staj-dev:~# ping6 2001:718:1:e::23:3012
> > PING 2001:718:1:e::23:3012(2001:718:1:e::23:3012) 56 data bytes
> > [... no output at all ...]
>
> > root@ip6v2-test:/# tcpdump -n -i eth0
> > tcpdump: verbose output suppressed, use -v or -vv for full protocol decode
> > listening on eth0, link-type EN10MB (Ethernet), capture size 96 bytes
> > 09:32:01.755512 IP6 2001:718:1:e::23:3012 > ff02::1:ff23:3004: ICMP6, neighbor solicitation, who has 2001:718:1:e::23:3004, length 32
> > 09:32:01.755721 IP6 2001:718:1:e::23:3004 > 2001:718:1:e::23:3012: ICMP6, echo request, seq 27, length 64
> > 09:32:02.756372 IP6 2001:718:1:e::23:3004 > 2001:718:1:e::23:3012: ICMP6, echo request, seq 28, length 64
> > 09:32:02.757356 IP6 2001:718:1:e::23:3012 > ff02::1:ff23:3004: ICMP6, neighbor solicitation,

who has 2001:718:1:e::23:3004, length 32
> > 09:32:03.756222 IP6 2001:718:1:e::23:3004 > 2001:718:1:e::23:3012: ICMP6, echo request, seq 29, length 64
> > 09:32:03.757208 IP6 2001:718:1:e::23:3012 > ff02::1:ff23:3004: ICMP6, neighbor solicitation, who has 2001:718:1:e::23:3004, length 32
> > 09:32:04.756070 IP6 2001:718:1:e::23:3004 > 2001:718:1:e::23:3012: ICMP6, echo request, seq 30, length 64
> > 09:32:04.757057 IP6 2001:718:1:e::23:3012 > ff02::1:ff23:3004: ICMP6, neighbor solicitation, who has 2001:718:1:e::23:3004, length 32
> > 09:32:05.755924 IP6 2001:718:1:e::23:3004 > 2001:718:1:e::23:3012: ICMP6, echo request, seq 31, length 64
> > 09:32:06.755787 IP6 2001:718:1:e::23:3004 > 2001:718:1:e::23:3012: ICMP6, echo request, seq 32, length 64
> > 09:32:06.756762 IP6 2001:718:1:e::23:3012 > ff02::1:ff23:3004: ICMP6, neighbor solicitation, who has 2001:718:1:e::23:3004, length 32
>
> Any thoughts, please?

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Vitaliy Gusev,