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Subject: IPv6 - arp problem

Posted by [jonasb](#) on Thu, 15 Jan 2009 13:18:31 GMT

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Hello,

I think I have ARP problem with IPv6.

IPv6 is working on HN.

VE can ping HN.

VE can not ping gateway of HN.

Container:

```
VE:~# route -6
```

```
Kernel IPv6 routing table
```

Destination	Next Hop	Flag	Met	Ref	Use	If
2000::/3	::	U	1024	0	0	venet0
fe80::/64	::	U	256	0	0	venet0
::/0	::	!n	-1	1	14214	lo
::1/128	::	Un	0	1	4	lo
::1/128	::	Un	0	1	0	lo
2001:XXX:1::c8/128	::	Un	0	1	209	lo
ff00::/8	::	U	256	0	0	venet0
::/0	::	!n	-1	1	14214	lo

I cant ping gateway of HN:

```
VE:~# ping6 2001:XXX:1::1
```

```
PING 2001:XXX:1::1(2001:XXX:1::1) 56 data bytes
```

```
--- 2001:XXX:1::1 ping statistics ---
```

```
166 packets transmitted, 0 received, 100% packet loss, time 165020ms
```

With tcpdump I can see that the router asking for ip of VE, 2001:XXX:1::c8

```
14:15:28.515495 IP6 2001:XXX:1::c8 > 2001:XXX:1::1: ICMP6, echo request, seq 1, length 64
```

```
14:15:28.516387 IP6 2001:XXX:1::1 > ff02::1:ff00:c8: ICMP6, neighbor solicitation, who has 2001:XXX:1::c8, length 32
```

```
14:15:29.515277 IP6 2001:XXX:1::c8 > 2001:XXX:1::1: ICMP6, echo request, seq 2, length 64
```

```
14:15:29.516413 IP6 2001:XXX:1::1 > ff02::1:ff00:c8: ICMP6, neighbor solicitation, who has 2001:XXX:1::c8, length 32
```

Im running CentOS with kernel 2.6.18-92.1.13.el5.028stab059.6.

Any ideas whats wrong?