
Subject: Re: Re: [patch 0/2][NETNS49][IPV4][IGMP] activate multicast per namespace

Posted by [Daniel Lezcano](#) on Mon, 15 Oct 2007 16:14:41 GMT

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Denis V. Lunev wrote:

> Daniel Lezcano wrote:

>> Eric W. Biederman wrote:

>>> Daniel Lezcano <dlezcano@fr.ibm.com> writes:

>>>

>>>> The following patches activate the multicast sockets for
>>>> the namespaces. The results is a traffic going through differents
>>>> namespaces. So if there are several applications
>>>> listenning to the same multicast group/port, running in
>>>> different namespaces, they will receive multicast packets.

>>>

>>> At a first glance this feels wrong. I don't see any per
>>> namespace filtering of multicast traffic. Unless the
>>> multicast traffic is routed/bridged between namespaces
>>> it should be possible to send multicast traffic in one
>>> namespace and listen for that same traffic in another
>>> namespace and not get it.

>>

>> The described behavior is the case were the namespaces are
>> communicating via veth like:

>>

>> eth0

>> |

>> | ----- nsA

>> veth0 <--|--> veth1 |

>> | -----

>> |

>> | -----nsB

>> veth2 <--|--> veth3 |

>> -----

>>

>>

>> If an application is listening in nsA and nsB. And if in nsA, an
>> application sends multicast traffic, both will receive the packets
>> because they are routed by the pair device.

>> As you said this is the correct behavior, if we have two machines
>> hostA and hostB in the same network and both are listening on the
>> multicast address and if an application on hostA send multicast
>> packets, both should receive the multicast packets.
>> If the traffic is not routed, multicast will not pass through the
>> namespaces.

>>

>> The description I gave in the patchset introduction was to describe

>> such behavior which is, IMHO, important for inter-container
>> communication.
>> Perhaps, I should have not gave this description which seems to sow
>> confusion in mind, sorry for that.
>>
>> Anyway, I hope the patchset is ok :)
>
> hmm, by the way, will this work with macvlan?

I will check that. At the first glance, IMO it will not work if the
IP_MULTICAST_LOOP option is not set. Need to check ...

> also, I am dumb with multicasts :) who will clone the packet if there
> are more than one namespace listen and there are some listeners behind
> ethernet?

For local delivery, the function is:

__udp4_lib_mcast_deliver

For packet emission and loopbacking packets to ourself, it is:

ip_mc_output

For behind ethernet, the packet is multicasted to the network, so it is
up the peers to manage the packet.

Containers mailing list
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