Subject: Using multicast in virtual servers
Posted by Peter Hinse on Tue, 25 Sep 2007 12:01:22 GMT
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Hi all,

we have several OpenVZ instances (CentOS 4.5) running on several
physical servers (CentOS 5.0) as a QA-/testing environment for Java
applications running in JBoss application server. Since we do have to
test clustering, multicast has to work for all virtual servers, no
matter which physical host they run on.

Right now, we use veth interfaces with local IPs (192.168.*.*) and
tested multicast with ssmping (http://www.venaas.no/multicast/ssmping/)
without success.

Any idea how to get this running?

Regards,

Peter

Subject: Re: Using multicast in virtual servers
Posted by dev on Tue, 25 Sep 2007 13:00:35 GMT
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what OVZ kernel do you use?
we'll try to check with this tool as well.

Regards,
Kirill

> Hi all,
>
> we have several OpenVZ instances (CentOS 4.5) running on several
> physical servers (CentOS 5.0) as a QA-/testing environment for Java
> applications running in JBoss application server. Since we do have to
> test clustering, multicast has to work for all virtual servers, no
> matter which physical host they run on.
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> Right now, we use veth interfaces with local IPs (192.168.*.*) and
> tested multicast with ssmping (http://www.venaas.no/multicast/ssmping/)
> without success.
>
> Any idea how to get this running?
>
> Regards,

>
> Peter

Subject: Re: Using multicast in virtual servers
Posted by Peter Hinse on Tue, 25 Sep 2007 13:00:58 GMT
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Kirill Korotaev wrote:
> what OVZ kernel do you use?
> we'll try to check with this tool as well.

we use the rhel5 kernel series:

Linux bladeG4 2.6.18-8.1.8.el5.028stab039.1 #1 SMP Mon Jul 23 18:02:32
MSD 2007 x86_64 x86_64 x86_64 GNU/Linux

>
> Regards,
> Kirill
>
>> Hi all,
>>
>> we have several OpenVZ instances (CentOS 4.5) running on several
>> physical servers (CentOS 5.0) as a QA-/testing environment for Java
>> applications running in JBoss application server. Since we do have to
>> test clustering, multicast has to work for all virtual servers, no
>> matter which physical host they run on.
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>> tested multicast with ssmping (http://www.venaas.no/multicast/ssmping/)
>> without success.
>>
>> Any idea how to get this running?
>>
>> Regards,
>>
>> Peter

Subject: Re: Using multicast in virtual servers
Posted by dev on Tue, 25 Sep 2007 14:03:55 GMT
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Peter,

Is the same setup working without openvz?

Have you used multicast before? Multicast is a bit complex to set up,
requires support from routers/switches etc., so this might well be not openvz-related.
But we setting up this test case right now to check ourselfes.

Can you please also provide a bit more information about your configuration
like whether you use bridge for veth-eth0 traffic bridging or routed networking,
any configuration options (including sysctl) you used/changed etc.?

Thanks,
Kirill

Peter Hinse wrote:
> Kirill Korotaev wrote:
>
>>what OVZ kernel do you use?
>>we'll try to check with this tool as well.
>
>
> we use the rhel5 kernel series:
>
> Linux bladeG4 2.6.18-8.1.8.el5.028stab039.1 #1 SMP Mon Jul 23 18:02:32
> MSD 2007 x86_64 x86_64 x86_64 GNU/Linux
>
>
>>Regards,
>>Kirill
>>
>>
>>>Hi all,
>>>
>>>we have several OpenVZ instances (CentOS 4.5) running on several
>>>physical servers (CentOS 5.0) as a QA-/testing environment for Java
>>>applications running in JBoss application server. Since we do have to
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>>>
>>>Right now, we use veth interfaces with local IPs (192.168.*.*) and
>>>tested multicast with ssmping (http://www.venaas.no/multicast/ssmping/)
>>>without success.
>>>
>>>Any idea how to get this running?
>>>
>>>Regards,
>>>
>>> Peter

Subject: Re: Using multicast in virtual servers
Posted by Vitaliy Gusev on Tue, 25 Sep 2007 14:18:15 GMT
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On the Tuesday 25 September 2007 16:01 Peter Hinse, wrote:
> Hi all,
>
> we have several OpenVZ instances (CentOS 4.5) running on several
> physical servers (CentOS 5.0) as a QA-/testing environment for Java
> applications running in JBoss application server. Since we do have to
> test clustering, multicast has to work for all virtual servers, no
> matter which physical host they run on.
>
> Right now, we use veth interfaces with local IPs (192.168.*.*) and
> tested multicast with ssmping (http://www.venaas.no/multicast/ssmping/)
> without success.
>
> Any idea how to get this running?
Please, print ssmping command, output for ifconfig, route -n, etc.

>
> Regards,
>
> Peter
--
Thanks,
Vitaliy Gusev

Subject: Re: Using multicast in virtual servers
Posted by Daniel Pittman on Wed, 26 Sep 2007 03:18:46 GMT
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Kirill Korotaev <dev@sw.ru> writes:

> Is the same setup working without openvz? Have you used multicast
> before? Multicast is a bit complex to set up, requires support from
> routers/switches etc., so this might well be not openvz-related. But
> we setting up this test case right now to check ourselfes.
>
> Can you please also provide a bit more information about your
> configuration like whether you use bridge for veth-eth0 traffic
> bridging or routed networking, any configuration options (including
> sysctl) you used/changed etc.?

One thing that is worth noting: I found a bug in the ... veth code, I
think, where it wouldn't pass a multicast packet through. The code
checked with the 'is_broadcast' flag, for a matching mac, and assumed

that anything else was not for this host.

Perhaps this is a similar issue? I can try to dig out the fault report
if it helps, but at the time it was simply changing is_broadcast to
include an is_multicast test on the Ethernet MAC.

Regards,
Daniel

I hope that actually helps. :)
--
Daniel Pittman <daniel@cybersource.com.au> Phone: 03 9621 2377
Level 4, 10 Queen St, Melbourne Web: http://www.cyber.com.au
Cybersource: Australia's Leading Linux and Open Source Solutions Company

---

Subject: Re: Using multicast in virtual servers
Posted by Andrey Mirkin on Wed, 26 Sep 2007 06:47:44 GMT
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Hello,

On Wednesday 26 September 2007 07:18 Daniel Pittman wrote:
> One thing that is worth noting: I found a bug in the ... veth code, I
> think, where it wouldn't pass a multicast packet through. The code
> checked with the 'is_broadcast' flag, for a matching mac, and assumed
> that anything else was not for this host.
Actually the bug you mention about was fixed in 2.6.18-el5-028stab034.1.
So it seems that we have here another problem.

Best regards,
Andrey

Subject: Re: Using multicast in virtual servers
Posted by dev on Wed, 26 Sep 2007 07:13:06 GMT
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Daniel Pittman wrote:
> Kirill Korotaev <dev@sw.ru> writes:
>
>
>>Is the same setup working without openvz? Have you used multicast
>>before? Multicast is a bit complex to set up, requires support from
>>routers/switches etc., so this might well be not openvz-related. But
>>we setting up this test case right now to check ourselfes.
>>

>>Can you please also provide a bit more information about your
>>configuration like whether you use bridge for veth-eth0 traffic
>>bridging or routed networking, any configuration options (including
>>sysctl) you used/changed etc.?
>
>
> One thing that is worth noting: I found a bug in the ... veth code, I
> think, where it wouldn't pass a multicast packet through. The code
> checked with the 'is_broadcast' flag, for a matching mac, and assumed
> that anything else was not for this host.

plz make sure you really use and look at the sources of 028stab039 kernel.
this check in veth_xmit() was fixed in 028stab034 with this commit:
http://git.openvz.org/?p=linux-2.6.18-openvz;a=commitdiff;h=993241dcdfc8ae22d339e08ed78db6e9760b1d89
>
> Perhaps this is a similar issue? I can try to dig out the fault report
> if it helps, but at the time it was simply changing is_broadcast to
> include an is_multicast test on the Ethernet MAC.

and it started to work?

Thanks,
Kirill

Subject: Re: Using multicast in virtual servers
Posted by Peter Hinse on Wed, 26 Sep 2007 07:28:04 GMT
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Kirill Korotaev wrote:
> Peter,
>
> Is the same setup working without openvz?
> Have you used multicast before? Multicast is a bit complex to set up,
> requires support from routers/switches etc., so this might well be not openvz-related.
> But we setting up this test case right now to check ourselfes.

We use several JBoss clusters with multicast in our datacenters.
Multicast itself works between the physical hosts:

ssmping joined (S,G) = (192.168.198.54,232.43.211.234)
pinging S from 192.168.198.53
  unicast from 192.168.198.54, seq=1 dist=0 time=1.513 ms
multicast from 192.168.198.54, seq=1 dist=0 time=1.528 ms
  unicast from 192.168.198.54, seq=2 dist=0 time=0.107 ms
multicast from 192.168.198.54, seq=2 dist=0 time=0.115 ms
  unicast from 192.168.198.54, seq=3 dist=0 time=0.097 ms

multicast from 192.168.198.54, seq=3 dist=0 time=0.104 ms
  unicast from 192.168.198.54, seq=4 dist=0 time=0.113 ms
multicast from 192.168.198.54, seq=4 dist=0 time=0.123 ms
  unicast from 192.168.198.54, seq=5 dist=0 time=0.102 ms
multicast from 192.168.198.54, seq=5 dist=0 time=0.113 ms
  unicast from 192.168.198.54, seq=6 dist=0 time=0.119 ms
multicast from 192.168.198.54, seq=6 dist=0 time=0.130 ms

--- 192.168.198.54 statistics ---
6 packets transmitted, time 5276 ms
unicast:
   6 packets received, 0% packet loss
   rtt min/avg/max/std-dev = 0.097/0.341/1.513/0.524 ms
multicast:
   6 packets received, 0% packet loss since first mc packet (seq 1) recvd
   rtt min/avg/max/std-dev = 0.104/0.352/1.528/0.526 ms

If I try the ssmpingd/ssmping between two virtual instances on two
different hosts (or from one virtual instance to a physical host an vice
versa):

pinging S from 192.168.198.142
  unicast from 192.168.198.132, seq=1 dist=1 time=2627.063 ms
  unicast from 192.168.198.132, seq=2 dist=1 time=1626.828 ms
  unicast from 192.168.198.132, seq=3 dist=1 time=626.718 ms
  unicast from 192.168.198.132, seq=4 dist=1 time=0.100 ms
  unicast from 192.168.198.132, seq=5 dist=1 time=0.101 ms
  unicast from 192.168.198.132, seq=6 dist=1 time=0.150 ms

--- 192.168.198.132 statistics ---
6 packets transmitted, time 5372 ms
unicast:
   6 packets received, 0% packet loss
   rtt min/avg/max/std-dev = 0.100/813.493/2627.063/997.511 ms
multicast:
   0 packets received, 100% packet loss

> Can you please also provide a bit more information about your configuration
> like whether you use bridge for veth-eth0 traffic bridging or routed networking,
> any configuration options (including sysctl) you used/changed etc.?

sysctl settings for the virtual interface on one of the host systems:

net.ipv4.conf.veth1981320.promote_secondaries = 0
net.ipv4.conf.veth1981320.force_igmp_version = 0
net.ipv4.conf.veth1981320.disable_policy = 0
net.ipv4.conf.veth1981320.disable_xfrm = 0

net.ipv4.conf.veth1981320.arp_accept = 0
net.ipv4.conf.veth1981320.arp_ignore = 0
net.ipv4.conf.veth1981320.arp_announce = 0
net.ipv4.conf.veth1981320.arp_filter = 0
net.ipv4.conf.veth1981320.tag = 0
net.ipv4.conf.veth1981320.log_martians = 0
net.ipv4.conf.veth1981320.bootp_relay = 0
net.ipv4.conf.veth1981320.medium_id = 0
net.ipv4.conf.veth1981320.proxy_arp = 1
net.ipv4.conf.veth1981320.accept_source_route = 1
net.ipv4.conf.veth1981320.send_redirects = 1
net.ipv4.conf.veth1981320.rp_filter = 0
net.ipv4.conf.veth1981320.shared_media = 1
net.ipv4.conf.veth1981320.secure_redirects = 1
net.ipv4.conf.veth1981320.accept_redirects = 1
net.ipv4.conf.veth1981320.mc_forwarding = 0
net.ipv4.conf.veth1981320.forwarding = 1

Network config on the VPS:

eth0 Link encap:Ethernet HWaddr 00:0C:29:0A:3D:C6
inet addr:192.168.198.132 Bcast:192.168.198.255
Mask:255.255.255.0
inet6 addr: fe80::20c:29ff:fe0a:3dc6/64 Scope:Link
UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
RX packets:2855871 errors:0 dropped:0 overruns:0 frame:0
TX packets:5495903 errors:0 dropped:0 overruns:0 carrier:0
collisions:0 txqueuelen:0
RX bytes:1453942778 (1.3 GiB) TX bytes:3721100335 (3.4 GiB)

Kernel IP routing table
Destination Gateway Genmask Flags Metric Ref Use
Iface
192.168.198.0 0.0.0.0 255.255.255.0 U 0 0 0 eth0
169.254.0.0 0.0.0.0 255.255.0.0 U 0 0 0 eth0
224.0.0.0 0.0.0.0 240.0.0.0 U 0 0 0 eth0

Any more information you need?

Regards,

Peter

Subject: Re: Using multicast in virtual servers
Posted by dev on Wed, 26 Sep 2007 07:35:36 GMT

uname -a
(from both VEs if you VE <-> VE multicasting)

Thanks,
Kirill
P.S. plz check my another today email about veth code.

Peter Hinse wrote:
> Kirill Korotaev wrote:
>
>>Peter,
>>
>>Is the same setup working without openvz?
>>Have you used multicast before? Multicast is a bit complex to set up,
>>requires support from routers/switches etc., so this might well be not openvz-related.
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> multicast from 192.168.198.54, seq=5 dist=0 time=0.113 ms
>   unicast from 192.168.198.54, seq=6 dist=0 time=0.119 ms
> multicast from 192.168.198.54, seq=6 dist=0 time=0.130 ms
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> --- 192.168.198.54 statistics ---
> 6 packets transmitted, time 5276 ms
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> unicast from 192.168.198.132, seq=3 dist=1 time=626.718 ms
> unicast from 192.168.198.132, seq=4 dist=1 time=0.100 ms
> unicast from 192.168.198.132, seq=5 dist=1 time=0.101 ms
> unicast from 192.168.198.132, seq=6 dist=1 time=0.150 ms
>
> --- 192.168.198.132 statistics ---
> 6 packets transmitted, time 5372 ms
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>
>
>
>>Can you please also provide a bit more information about your configuration
>>like whether you use bridge for veth-eth0 traffic bridging or routed networking,
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>
>
> sysctl settings for the virtual interface on one of the host systems:
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> net.ipv4.conf.veth1981320.force_igmp_version = 0
> net.ipv4.conf.veth1981320.disable_policy = 0
> net.ipv4.conf.veth1981320.disable_xfrm = 0
> net.ipv4.conf.veth1981320.arp_accept = 0
> net.ipv4.conf.veth1981320.arp_ignore = 0
> net.ipv4.conf.veth1981320.arp_announce = 0
> net.ipv4.conf.veth1981320.arp_filter = 0
> net.ipv4.conf.veth1981320.tag = 0
> net.ipv4.conf.veth1981320.log_martians = 0
> net.ipv4.conf.veth1981320.bootp_relay = 0
> net.ipv4.conf.veth1981320.medium_id = 0
> net.ipv4.conf.veth1981320.proxy_arp = 1
> net.ipv4.conf.veth1981320.accept_source_route = 1
> net.ipv4.conf.veth1981320.send_redirects = 1
> net.ipv4.conf.veth1981320.rp_filter = 0
> net.ipv4.conf.veth1981320.shared_media = 1
> net.ipv4.conf.veth1981320.secure_redirects = 1
> net.ipv4.conf.veth1981320.accept_redirects = 1
> net.ipv4.conf.veth1981320.mc_forwarding = 0

> net.ipv4.conf.veth1981320.forwarding = 1
>
>
> Network config on the VPS:
>
> eth0   Link encap:Ethernet HWaddr 00:0C:29:0A:3D:C6
>   inet addr:192.168.198.132 Bcast:192.168.198.255
> Mask:255.255.255.0
>   inet6 addr: fe80::20c:29ff:fe0a:3dc6/64 Scope:Link
>   UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
>   RX packets:2855871 errors:0 dropped:0 overruns:0 frame:0
>   TX packets:5495903 errors:0 dropped:0 overruns:0 carrier:0
>   collisions:0 txqueuelen:0
>   RX bytes:1453942778 (1.3 GiB) TX bytes:3721100335 (3.4 GiB)
>
> Kernel IP routing table
> Destination   Gateway   Genmask   Flags Metric Ref   Use
> Iface
> 192.168.198.0   0.0.0.0   255.255.255.0   U   0   0   0 eth0
> 169.254.0.0   0.0.0.0   255.255.0.0   U   0   0   0 eth0
> 224.0.0.0   0.0.0.0   240.0.0.0   U   0   0   0 eth0
>
> Any more information you need?
>
> Regards,
>
> Peter
>

Subject: Re: Using multicast in virtual servers
Posted by Peter Hinse on Wed, 26 Sep 2007 07:39:16 GMT
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Kirill Korotaev wrote:
> # uname -a
> (from both VEs if you VE <-> VE multicasting)

identical for both VEs:

Linux vps-mpp132 2.6.18-8.1.8.el5.028stab039.1 #1 SMP Mon Jul 23
18:02:32 MSD 2007 x86_64 x86_64 x86_64 GNU/Linux

Linux vps-mpp142 2.6.18-8.1.8.el5.028stab039.1 #1 SMP Mon Jul 23
18:02:32 MSD 2007 x86_64 x86_64 x86_64 GNU/Linux

Regards,

Peter

Subject: Re: Using multicast in virtual servers
Posted by Vitaliy Gusev on Wed, 26 Sep 2007 08:12:10 GMT
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Please, print output for ssmping in VE (which doesn't work), route for VE0,
brctl show for VE0, ifconfig for VE0.

--
Thanks,
Vitaliy Gusev

Subject: Re: Using multicast in virtual servers
Posted by Daniel Pittman on Wed, 26 Sep 2007 08:31:51 GMT
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Kirill Korotaev <dev@sw.ru> writes:
> Daniel Pittman wrote:
>> Kirill Korotaev <dev@sw.ru> writes:
>>
>>>Is the same setup working without openvz? Have you used multicast
>>>before? Multicast is a bit complex to set up, requires support from
>>>routers/switches etc., so this might well be not openvz-related. But
>>>we setting up this test case right now to check ourselfes.
>>>
>>>Can you please also provide a bit more information about your
>>>configuration like whether you use bridge for veth-eth0 traffic
>>>bridging or routed networking, any configuration options (including
>>>sysctl) you used/changed etc.?
>>
>> One thing that is worth noting: I found a bug in the ... veth code, I
>> think, where it wouldn't pass a multicast packet through. The code
>> checked with the 'is_broadcast' flag, for a matching mac, and assumed
>> that anything else was not for this host.
>
> plz make sure you really use and look at the sources of 028stab039 kernel.
> this check in veth_xmit() was fixed in 028stab034 with this commit:
>
http://git.openvz.org/?p=linux-2.6.18-openvz;a=commitdiff;h=993241dcdfc8ae22d339e08ed78db6e9760b1d89

I suspected that you would remember. :)

>> Perhaps this is a similar issue? I can try to dig out the fault report
>> if it helps, but at the time it was simply changing is_broadcast to
>> include an is_multicast test on the Ethernet MAC.
>
> and it started to work?

I never got to test it; that particular job (enable CUPS server browse
announcements in a VE) is still outstanding on my list because it was
low priority. (sorry)

Daniel
--
Daniel Pittman <daniel@cybersource.com.au> Phone: 03 9621 2377
Level 4, 10 Queen St, Melbourne Web: http://www.cyber.com.au
Cybersource: Australia's Leading Linux and Open Source Solutions Company

---

Subject: Re: Using multicast in virtual servers
Posted by Vitaliy Gusev on Wed, 26 Sep 2007 08:52:15 GMT
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On the Wednesday 26 September 2007 11:28 Peter Hinse, wrote:
> Kernel IP routing table
> Destination   Gateway   Genmask   Flags Metric Ref   Use
> Iface
> 192.168.198.0   0.0.0.0   255.255.255.0   U   0   0   0 eth0
> 169.254.0.0   0.0.0.0   255.255.0.0   U   0   0   0 eth0
> 224.0.0.0   0.0.0.0   240.0.0.0   U   0   0   0 eth0

try to set default gateway

--
Thanks,
Vitaliy Gusev

Subject: Re: Using multicast in virtual servers
Posted by Peter Hinse on Wed, 26 Sep 2007 09:00:03 GMT
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Vitaliy Gusev wrote:

> Please, print output for ssmping in VE (which doesn't work), route for VE0,
> brctl show for VE0, ifconfig for VE0.

ssmping output in VE:

```
pinging S from 192.168.198.142
  unicast from 192.168.198.132, seq=1 dist=1 time=2627.063 ms
  unicast from 192.168.198.132, seq=2 dist=1 time=1626.828 ms
  unicast from 192.168.198.132, seq=3 dist=1 time=626.718 ms
  unicast from 192.168.198.132, seq=4 dist=1 time=0.100 ms
  unicast from 192.168.198.132, seq=5 dist=1 time=0.101 ms
  unicast from 192.168.198.132, seq=6 dist=1 time=0.150 ms

--- 192.168.198.132 statistics ---
6 packets transmitted, time 5372 ms
unicast:
   6 packets received, 0% packet loss
   rtt min/avg/max/std-dev = 0.100/813.493/2627.063/997.511 ms
multicast:
   0 packets received, 100% packet loss
```

route for VE0:

```
Kernel IP routing table
Destination     Gateway         Genmask         Flags Metric Ref    Use
Iface
192.168.198.141 0.0.0.0         255.255.255.255 UH    0      0        0
veth1981410
192.168.198.142 0.0.0.0         255.255.255.255 UH    0      0        0
veth1981420
195.x.x.x       0.0.0.0         255.255.255.255 UH    0      0        0
veth1981411
195.x.x.x       0.0.0.0         255.255.255.224 U     0      0        0 eth0
192.168.198.0   0.0.0.0         255.255.255.0   U     0      0        0 eth0
169.254.0.0     0.0.0.0         255.255.0.0     U     0      0        0 eth0
224.0.0.0       0.0.0.0         240.0.0.0       U     0      0        0 eth0
0.0.0.0         195.x.x.x       0.0.0.0         UG    0      0        0 eth0
```

ifconfig for VE0:

```
eth0      Link encap:Ethernet  HWaddr 00:1A:64:32:0A:F8
          inet addr:192.168.198.54  Bcast:192.168.198.255
Mask:255.255.255.0
          inet6 addr: fe80::21a:64ff:fe32:af8/64 Scope:Link
          UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1
          RX packets:19330162 errors:0 dropped:0 overruns:0 frame:0
          TX packets:3542937 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:1000
          RX bytes:4931551683 (4.5 GiB)  TX bytes:1232779800 (1.1 GiB)
          Interrupt:98 Memory:da000000-da011100

eth0:1    Link encap:Ethernet  HWaddr 00:1A:64:32:0A:F8
          inet addr:195.x.x.x  Bcast:195.x.x.x  Mask:255.255.255.224
```

```
        UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1
        Interrupt:98 Memory:da000000-da011100

lo      Link encap:Local Loopback
        inet addr:127.0.0.1  Mask:255.0.0.0
        inet6 addr: ::1/128 Scope:Host
        UP LOOPBACK RUNNING  MTU:16436  Metric:1
        RX packets:788 errors:0 dropped:0 overruns:0 frame:0
        TX packets:788 errors:0 dropped:0 overruns:0 carrier:0
        collisions:0 txqueuelen:0
        RX bytes:246284 (240.5 KiB)  TX bytes:246284 (240.5 KiB)

venet0    Link encap:UNSPEC  HWaddr
00-00-00-00-00-00-00-00-00-00-00-00-00-00-00-00
        UP BROADCAST POINTOPOINT RUNNING NOARP  MTU:1500  Metric:1
        RX packets:0 errors:0 dropped:0 overruns:0 frame:0
        TX packets:0 errors:0 dropped:0 overruns:0 carrier:0
        collisions:0 txqueuelen:0
        RX bytes:0 (0.0 b)  TX bytes:0 (0.0 b)

veth1981410 Link encap:Ethernet  HWaddr 00:0C:29:91:B1:81
        inet6 addr: fe80::20c:29ff:fe91:b181/64 Scope:Link
        UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1
        RX packets:345225 errors:0 dropped:0 overruns:0 frame:0
        TX packets:379368 errors:0 dropped:0 overruns:0 carrier:0
        collisions:0 txqueuelen:0
        RX bytes:221623267 (211.3 MiB)  TX bytes:349531019 (333.3 MiB)

veth1981411 Link encap:Ethernet  HWaddr 00:0C:29:91:B1:83
        inet6 addr: fe80::20c:29ff:fe91:b183/64 Scope:Link
        UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1
        RX packets:558932 errors:0 dropped:0 overruns:0 frame:0
        TX packets:696100 errors:0 dropped:0 overruns:0 carrier:0
        collisions:0 txqueuelen:0
        RX bytes:75514675 (72.0 MiB)  TX bytes:432185018 (412.1 MiB)

veth1981420 Link encap:Ethernet  HWaddr 00:0C:29:F7:A0:88
        inet6 addr: fe80::20c:29ff:fef7:a088/64 Scope:Link
        UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1
        RX packets:4101690 errors:0 dropped:0 overruns:0 frame:0
        TX packets:3166888 errors:0 dropped:0 overruns:0 carrier:0
        collisions:0 txqueuelen:0
        RX bytes:1071935233 (1022.2 MiB)  TX bytes:3124980969 (2.9 GiB)

No bridging used right now.
```

Subject: Re: Using multicast in virtual servers
Posted by Vitaliy Gusev on Wed, 26 Sep 2007 09:58:44 GMT
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On the Wednesday 26 September 2007 13:00 Peter Hinse, wrote:

> veth1981420 Link encap:Ethernet HWaddr 00:0C:29:F7:A0:88
> inet6 addr: fe80::20c:29ff:fef7:a088/64 Scope:Link
> UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
> RX packets:4101690 errors:0 dropped:0 overruns:0 frame:0
> TX packets:3166888 errors:0 dropped:0 overruns:0 carrier:0
> collisions:0 txqueuelen:0
> RX bytes:1071935233 (1022.2 MiB) TX bytes:3124980969 (2.9 GiB)
>
> No bridging used right now.

I use veth with bridges and it works.

Now I try without bridges.

--
Thanks,
Vitaliy Gusev

Subject: Re: Using multicast in virtual servers
Posted by Vitaliy Gusev on Wed, 26 Sep 2007 12:50:50 GMT
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> On the Wednesday 26 September 2007 13:00 Peter Hinse, wrote:
> > veth1981420 Link encap:Ethernet HWaddr 00:0C:29:F7:A0:88
> > inet6 addr: fe80::20c:29ff:fef7:a088/64 Scope:Link
> > UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
> > RX packets:4101690 errors:0 dropped:0 overruns:0 frame:0
> > TX packets:3166888 errors:0 dropped:0 overruns:0 carrier:0
> > collisions:0 txqueuelen:0
> > RX bytes:1071935233 (1022.2 MiB) TX bytes:3124980969 (2.9 GiB)
> >
> > No bridging used right now.
>
You must use a bridge. Multicast packets is not forwarded.

--
Thanks,
Vitaliy Gusev

Subject: Re: Using multicast in virtual servers
Posted by Peter Hinse on Mon, 01 Oct 2007 17:00:10 GMT
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Vitaliy Gusev schrieb:
>> On the Wednesday 26 September 2007 13:00 Peter Hinse, wrote:
>>> veth1981420 Link encap:Ethernet HWaddr 00:0C:29:F7:A0:88
>>> inet6 addr: fe80::20c:29ff:fef7:a088/64 Scope:Link
>>> UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
>>> RX packets:4101690 errors:0 dropped:0 overruns:0 frame:0
>>> TX packets:3166888 errors:0 dropped:0 overruns:0 carrier:0
>>> collisions:0 txqueuelen:0
>>> RX bytes:1071935233 (1022.2 MiB) TX bytes:3124980969 (2.9 GiB)
>>>
>>> No bridging used right now.
> You must use a bridge. Multicast packets is not forwarded.
>

OK, multicast works with bridging enabled. Big thx for help!

Regards,

Peter