Subject: Centos 6.6 IPV6 not working
Posted by mperkel on Mon, 03 Nov 2014 22:01:02 GMT

Hi Guys,

This is probably a Centos issue - but I'm new to IPV6 and just trying to get up to where ping6 works. Running Centos 6.6 and did the stuff various web sites suggested. Yet pinging Google is not reachable.

In /etc/sysconfig/network I added:

IPV6

IPV6_DEFAULTGW=2001:470:1:2fe::1
NETWORKING_IPV6=yes
IPV6_AUTOCONF=no

In ifcfg-eth0 I added:

IPV6INIT=YES
IPV6ADDR=2001:470:1:2fe::18/64
IPV6_AUTOCONF=NO
IPV6FORWARDING=YES
IPV6_DEFAULTGW=2001:470:1:2fe::1

In /etc/sysctl.conf I added:

IPV6

net.ipv6.conf.all.autoconf = 0
net.ipv6.conf.default.autoconf = 0
net.ipv6.conf.eth0.autoconf = 0
net.ipv6.conf.all.accept_ra = 0
net.ipv6.conf.default.accept_ra = 0
net.ipv6.conf.eth0.accept_ra = 0
net.ipv6.conf.default.forwarding = 1
net.ipv6.conf.all.forwarding = 1
net.ipv6.conf.all.proxy_ndp = 1
net.ipv6.bindv6only = 1

Restarted the network - tried to ping google

ping6 ipv6.google.com
connect: Network is unreachable

ran ifconfig

```
eth0      Link encap:Ethernet  HWaddr E0:CB:4E:CF:4B:BE
          inet addr:184.105.182.18  Bcast:184.105.182.255
Mask:255.255.255.0
          inet6 addr: fe80::e2cb:4eff:fecf:4bbe/64 Scope:Link
          UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1
          RX packets:21283662 errors:0 dropped:0 overruns:0 frame:0
          TX packets:19638030 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:1000
          RX bytes:2792719190 (2.6 GiB)  TX bytes:2867321807 (2.6 GiB)
```

No Scope:Global IP

what am I missing?

Thanks in advance ...

Subject: Re: Centos 6.6 IPV6 not working
Posted by mmcfarland on Tue, 04 Nov 2014 18:45:01 GMT
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Hello,

The most likely culprit is that CentOS 6.6 is a bit too new. You should not use a version of
CentOS newer than 6.4 - the reason is that openVZ uses an old kernel (2.6) so using any linux
distro with a newer kernel opents the doors for major problems because their
yum/apt-get/package repositories assume a newer kernel.

I currently would never recommend installing openVZ on any linux distro that is newer than
CentOS 6.4

Regards,
Matt

Subject: Re: Centos 6.6 IPV6 not working
Posted by Ales on Thu, 06 Nov 2014 00:16:42 GMT
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mmcfarland wrote on Tue, 04 November 2014 19:45... CentOS 6.6 is a bit too new ... openVZ
uses an old kernel (2.6) so using any linux distro with a newer kernel ...
I'd really appreciate people giving advice only if they have a slightest clue as to what they are
talking about. Not that I'm afraid mperkel would actually listen to such nonsense, but some newbie
could get mislead.

Subject: Re: Centos 6.6 IPV6 not working
Posted by mmcfarland on Thu, 06 Nov 2014 00:35:20 GMT
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This isn't misinformation! Software made for a newer kernel is not going to work as well on openvz. Sure maybe if you're a Unix genius you can get by with your hacks and workarounds. BUT straight out of the box?? Use centos 6.4 nothing newer and openvz runs like a champ. If you have a newer kernel you must be careful.

Subject: Re: Centos 6.6 IPV6 not working
Posted by mperkel on Thu, 06 Nov 2014 01:15:06 GMT
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Going back to Centos 6.4 isn't in the plan.

Subject: Re: Centos 6.6 IPV6 not working
Posted by Ales on Thu, 06 Nov 2014 06:52:30 GMT
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Of course not. He's just spreading FUD. Current OpenVZ kernel is based on a recent RHEL 6.5 kernel, 2.6.32-431.29.2.el6, it isn't old at all.

Subject: Re: Centos 6.6 IPV6 not working
Posted by mmcfarland on Fri, 07 Nov 2014 02:44:36 GMT
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'isnt old at all' yea its old. maybe its not as old as the dinosaurs, but it is certainly older than over a dozen or so linux releases. So 'isn't old at all' is not an accurate statement.

Look, my point is simple - openvz assumes kernel 2.6 - software that runs as a service, application, server, etc on a linux system that uses a later release of the linux kernel assumes that kernel! Maybe the 2.x family is safe, ok, so maybe 6.6 centos should work (I wouldnt bet my money on it!)

CentOS 6.6 runs on 2.6.32-504, openVZ is assumes a slightly older release, so maybe the IPV6 could work. Personally, I'd try to get it working on a server with no other changes. Just start up a basic server with NOTHING installed, CentOS 6.6 then add ipv6 and openvz, see what happens. if it works - then obviously its not openvz that's the problem.

At any rate, I would refrain from saying 'isnt old at all' - I tell you it is, and if you look at the latest linux version and how much different it is under the hood and how its architecture / api has changed so much then I'd say its a LITTLE old.

Subject: Re: Centos 6.6 IPV6 not working
Posted by TOCICI on Fri, 07 Nov 2014 07:53:17 GMT
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Wow, such rant... On the topic of an "old" kernel, you might consider:
  www.lmgtfy.com/?q=RHEL+old+kernel&l=1

We've run a sizable OpenVZ hosting facility for over half a decade, and have yet to encounter a single customer citing issues with the OpenVZ-patched and RHEL-based stable kernel revs. Although we're always interested in hearing of specific issues that could be encountered in a production hosting environment. Please, could you consider cutting the FUD, and citing specific issues you're encountering, which can be directly attributed to said "outdated" kernels. Please?

Subject: Re: Centos 6.6 IPV6 not working
Posted by TOCICI on Fri, 07 Nov 2014 08:21:14 GMT
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IPv6 is working splendidly on our CentOS 6.6 / 2.6.32-042stab094.7 OpenVZ host server builds, so I can't imagine it being that...

You said you configured an IPv6 address and restarted networking:
Quote:
In ifcfg-eth0 I added:

IPV6INIT=YES
IPV6ADDR=2001:470:1:2fe::18/64
IPV6_AUTOCONF=NO
IPV6FORWARDING=YES
IPV6_DEFAULTGW=2001:470:1:2fe::1

Although, I don't see it listed:
Quote:
ran ifconfig

eth0 Link encap:Ethernet HWaddr E0:CB:4E:CF:4B:BE
inet addr:184.105.182.18 Bcast:184.105.182.255
Mask:255.255.255.0
inet6 addr: fe80::e2cb:4eff:fecf:4bbe/64 Scope:Link
UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
RX packets:21283662 errors:0 dropped:0 overruns:0 frame:0
TX packets:19638030 errors:0 dropped:0 overruns:0 carrier:0
collisions:0 txqueuelen:1000
RX bytes:2792719190 (2.6 GiB) TX bytes:2867321807 (2.6 GiB)

What output do you see after running this command:
sudo sysctl net.ipv6.conf.all.disable_ipv6 net.ipv6.conf.default.disable_ipv6