

Re: queer dns access problem

Source: <http://linux.derkeiler.com/Mailing-Lists/RedHat/2007-12/msg00163.html>

- *From:* "Bill Tangren" <bjt@xxxxxxxxxxxxxx>
 - *Date:* Mon, 17 Dec 2007 18:15:31 -0500 (EST)
-

It sounds like it is a networking issue. If it didn't have the correct gateway it makes sense that you would be able to access everything locally on your subnet, but when it comes time to get out of your subnet it wouldn't know the route to get there. Other possibilities are your firewall/router just doesn't allow your IP outbound or there is a NAT mis-configuration. Does your server require a static 1-to-1 NAT or should it fall into a pool?

The following is why I don't think its a firewall issue.

server a.com is broken.

server b.com is not.

If I change the name and IP address of a.com to match b.com, remove b.com from the network, and reboot a.com (as b.com), it still has the same DNS problem. If the firewall was looking to reject a.com traffic, why won't it work when it is set up like b.com?

Is it possible that this is some bizarre SELinux problem? Perhaps the resolv.conf or nsswitch.conf file has the wrong context, or something? I've seen nothing in the logs that would indicate that, but who knows. I'm not at work right now, so I can't check it until tomorrow. This is the most bizarre problem I've ever encountered.

----- "Bill Tangren" <bjt@xxxxxxxxxxxxxx> wrote:

Earlier you said you could ssh out of the broken box. Can you ssh

to the

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same segment or to a remote network? Can you log in to the box

twice and

start a packet capture while you attempt a dns lookup? This might

show us

if it is related to firewalling or routing.

If by the same segment, you mean within the same 10.1.5.x domain, I can ssh if I use the IP number to the same segment (there are errors, but it ultimately succeeds), but I cannot ssh out of the segment, with or without IP number. Also, I can ssh into the broken box from within the segment.

Ian

----- "Bill Tangren" <bjt@xxxxxxxxxxxxxx> wrote:

On Dec 13, 2007 8:02 AM,
Bill Tangren
<bjt@xxxxxxxxxxxxxx>
wrote:

OK.
Is
the
/8
netmask
a
cut
and
paste
error
too?

No, it is

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correct.

Your
trouble
could
be
a
routing
issue:
10.1.5.58/8
and

10.1.1.46/8 are

on
the
same
subnet
as
far
as
the
network
layer
is
concerned

so

there

is

no
reason
to
go
to
the
default
route.
Thats
why
I
asked
for

a

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tracert
too
--
or
mtr
if
you
have
it
installed
and
it
will

work.

```
#  
mtr  
-rnc  
10  
DNS.SERVER.IP.ADDRESS
```

What
netmask
is
the
firewall
using
for
the
interface?

When the
network
guy comes
in this
afternoon,
I'll ask. This

still

doesn't
explain why
it works for
one
machine,
but not the
other, when

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both

are

set
the same.

I am assuming you've done
the usual stuff

double checked
/etc/resolv.conf

checked /etc/nsswitch.conf

Did these two.

Pinged the default gateway.

Ping is shut off on the gateway. I'll ask the
firewall guy to turn

it

on
long enough to test this.

Checked the network
cabling back to the switch.

Yes, other computers work just fine with this
cabling.

Checked the patch cable.

Patch cable? What is that?

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ifconfig to make sure the
interface is actually up.

yep.

ethtool to check that speed
and duplex are as expected.

Didn't think to do this. Will try it on
Monday.

Can't think of anything else
offhand.

Thanks for the help.

--

Stephen Carville

--

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