

Re: Mysterious problem driving me crazy! (network? apache? php? firewall?)

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Source: <http://linux.derkeiler.com/Mailing-Lists/RedHat/2006-06/msg00298.html>

- *From:* "Scott Ruckh" <sruckh@xxxxxxxxxxx>
 - *Date:* Tue, 27 Jun 2006 21:54:51 -0700 (MST)
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This is what you said Chris W. Parker

Hello,

I had a server fail on me recently (which is a story in itself... can't figure out why it's failing...) and so now I'm in the process of migrating my data (two websites from a backup) to a new server.

The old server was FC3 and the new server is CentOS 4.3.

Here is the problem stated very briefly: On the old server both websites worked fine. On the new server only one website is working.

Now for some details:

- * I've checked and rechecked `/etc/httpd/conf/httpd.conf` to make sure it matches the original.
- * I've checked and rechecked all my scripts in `/etc/sysconfig/network-scripts` to match the originals.
- * I've checked and rechecked the virtual host settings in `/etc/httpd/virt.d/` to match the originals.
- * I've tried turning off iptables on the new server.
- * I've tried turning off IPv6 (just a shot in the dark!).
- * I've tried turning off SELinux too.
- * I've also compared permissions between the two websites directories.

I'm using NAT and what seems to be happening is that `swatgear.com` WILL NOT resolve to it's internal ip address of `10.0.0.3`. I can't get a successful ping/request from `swatgear.com` or `67.17.248.227`. The only time a ping works or I can get any kind of response is through `10.0.0.3`. And by the way, the site works fine if I add `'10.0.0.3 swatgear.com'` to `/etc/hosts`. But of course that doesn't solve the problem for the outside world.

First of all you might ask if someone has changed the configuration in the hardware firewall, nope. No changes at all. You might also think

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that iptables is getting in the way (see above). You might think that the configurations are different (see above).

If I turn the old server on (which only stays up for about 5 minutes before it kicks the bucket) both sites work perfectly. As soon as I shut it off and turn on the new server only one of the sites will work while the other (www.swatgear.com) does not.

I can't figure it out and I've been working on this ALL DAY so I'm pleading with the community to help me figure it out.

What is driving me crazy is that one site works and the other does not. So inspite my 100% confidence in there being absolutely no difference between the configurations (of the parts that matter) of the two servers I can only be led to believe that it is in fact a misconfiguration and nothing else. Otherwise it just doesn't make sense.

Another thing I should mention is that apache's logs for the website (that doesn't work) doesn't report anything! I mean, it appears that apache is not even SEEING the request for the site (unless I request it at 10.0.0.3). This says to me that it's something that precedes apache that is getting in the way and not apache itself (i.e. a configuration mistake).

Are you sure that there is not MAC Adresses filtering going on in the firewall. You said that no changes were made in the firewall, but if you changed NICs on the new server and had MAC addresses filtering on the firewall that might cause the problem.

You appear to have connectivity (you are able to use site via internal IP). I would also assume apache is correct since site is working. The problem sounds just like you mentioned. A name request is not reaching the server.

What do the firewall logs look like. Does the request even reach the firewall.

How about a tcp packet capture. Outside of apache logs not seeing the request, do you even see the traffic hitting the network interface on the web server?

Hard to speculate without having access to the servers so I am just throwing out some ideas.

Good Luck.

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