

# Re: Urgent! New router and big disaster

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*Source:*

<http://www.tech-archive.net/Archive/Windows/microsoft.public.windows.server.sbs/2006-03/msg01292.html>

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- *From:* "CO-DBA-SC-EL" <dx6490@xxxxxxxx>
  - *Date:* Mon, 6 Mar 2006 22:20:24 -0800
- 

Hey, I don't get DNS errors. And I'm running single NIC config. Natch. <grin>

C\_O

"SuperGumby [SBS MVP]" <not@xxxxxxxx> wrote in message  
<news:OW5zv1YQGHA.2496@xxxxxxxxxxxxxxxxxxxxxxxx>

sorry, very re-active.

Both NICs should point to his internal IP for DNS. ie. the NIC properties of all members of an Active Directory, even multihomed devices such as this server and my workstation, should point only to an AD integrated DNS server for name resolution, the AD integrated DNS server will then satisfy queries outside the AD by the use of either 'forwarders' or 'root hints'.

If 'CO-DBA-SC-EL' has configured external DNS servers on SBS systems it probably explains some of the wierd errors he sometimes asks of the group.

"SuperGumby [SBS MVP]" <not@xxxxxxxx> wrote in message  
<news:uruAJuYQGHA.3460@xxxxxxxxxxxxxxxxxxxxxxxx>

NONONONONONO

Both NICs should point to his internal IP. The SBS DNS server, running on the internal IP, will then satisfy external requests via either forwarders or 'root hints'.

C'mon, we're getting close. Don't spoil it.

"CO-DBA-SC-EL" <dx6490@xxxxxxxx> wrote in message  
<news:%23BUq2VYQGHA.5592@xxxxxxxxxxxxxxxxxxxxxxxx>

You're getting close. Since you can reach an external web site by using its IP it means that your problem is now DNS. I don't see how your settings could work. In the TCP/IP properties for the external NIC, you need to specify an external DNS server for DNS, instead of the server's own IP address. You should do that in the CEICW, that way it will set up the DNS forwarding to work correctly. When the

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CEICW asks you for the configuration for the external NIC, use:

IP Address 192.168.0.99 (See Note 1)

Subnet Mask : 255.255.255.0

Default Gateway: 192.168.0.1

DNS Servers: 192.168.0.1 (See Note 2)

Note 1. 192.168.0.100 looks like an address in the DHCP range of the router. You should give your SBS a fixed external address so you can forward ports to it reliably in the router. I don't have the D-Link doc but x.x.x.99 should be outside its DHCP range. If not pick another one. Why do that if the SBS is the only computer connected to the router? Because some day you might try to debug something else, plug a computer in the router while the SBS is off or disconnected, then plug the SBS back in and discover that the other computer has now been given the address you thought was the SBS's own. Then of course RWW and all those goodies quit working. Play it safe. Use a fixed address outside the DHCP range of the router.

Note 2. Normally the router will forward DNS requests. You may be able to speed things up by specifying the IP address of your ISP's DNS servers instead of the router -- the router will just pass that through instead of actively forwarding.

C\_O

"Kimmy" <Kimmy@xxxxxxxxxxxxxxxxxxxxxxxxxxxx> wrote in message

[news:C56EA7C3-EAE0-4D4F-9BBB-DFA8FBB9DC11@xxxxxxxxxxxxxxxxxxxx](mailto:news:C56EA7C3-EAE0-4D4F-9BBB-DFA8FBB9DC11@xxxxxxxxxxxxxxxxxxxx)

I checked the binding order and the Server Local area connection is at the top.

I should have been more clear about internet connection..

- when we open internet explorer the company web is shown, when we type in an address... http:www.google.ca, we get page cannot be displayed. But if I type the ip address 65.98.45.220 the webpage loads. (this is true for Both the SBS and client stations)

I just read somewhere in another posting about nslookup.exe, and thought I would give it a try. I got this..

\*\*\*Can't find server name for address

192.168.16.2: Non-existent domain

Default Server: Unknown

Address: 192.168.16.2

( I found that in the DNS - clicked my

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server name and ran the lookup tool)

"Merv Porter [SBS-MVP]" wrote:

> However, when I checked  
the binding on the external  
nic there was > no  
> TCP/IP  
> in the list, just File and  
Printer Sharing and the  
Microsoft > Client  
> Networks  
> were the only two in the  
list and neither of them are  
checked off.

Check Binding order

---

Right click My Network  
Places...Properties.  
Highlight the Internal NIC.  
Then  
select Advanced...Advanced  
Settings from the top menu  
for that window. This  
will check the bindings.

The Internal NIC should be  
displayed first followed by  
the External NIC. If  
not, move the Internal NIC  
to the top of the list.  
The Internal NIC should  
have File and Printer  
Sharing bound  
(checkmarked) to  
the TCP/IP Protocol.  
The Internal NIC should  
have Client for Microsoft  
Networks bound  
(checkmarked) to the  
TCP/IP Protocol.

---

Is the Internal NIC at the top  
of the list?

> After  
> running the internet

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connection wizard, no  
internet was available > for  
> either  
> the SBS or the Client by  
using the test page  
www.dnslookup.com, but >  
each  
> can  
> view 65.98.45.220.

What is 65.98.45.220? If  
neither SBS server nor  
client workstation had  
Internet access, how could  
they view anything at this  
public (Internet) IP  
address?

--

Merv Porter [SBS MVP]

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"Kimmy"

<Kimmy@xxxxxxxxxxxxxxxxxxxxxxxxxxxx>

wrote in message

[news:41894A1D-D2B3-49C0-AB14-AD2D5EA865E8@xxxxxxxxxxxxxxxxxxxx](mailto:news:41894A1D-D2B3-49C0-AB14-AD2D5EA865E8@xxxxxxxxxxxxxxxxxxxx)

> Been having a a lot of  
trouble. The original router  
died and now we > are  
> using a D-Link 604. My  
problem is this:

>

> 1 -I have the set up done  
just like this...

>

>

<http://www.smallbizserver.net/Default.aspx?tabid=266&articleType=ArticleV>

>

> However, when I checked  
the binding on the external  
nic there was no

> TCP/IP

> in the list, just File and  
Printer Sharing and the  
Microsoft Client

> Networks

> were the only two in the  
list and neither of them are  
checked off. > After

> running the internet  
connection wizard, no

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internet was available > for  
> either  
> the SBS or the Client by  
using the test page  
www.dnslookup.com, but >  
each  
> can  
> view 65.98.45.220.  
>  
> The Current ipconfig/all  
from server is this  
> Server Local Area  
Connection:  
> Connection-specific DNS  
Suffix:  
> Description: Intel  
Pro/1000  
> Physical Address:  
00-14-22-B4\_12-CE  
> DHCP Enabled : NO  
> IP Address 192.168.16.2  
> Subnet Mask :  
255.255.255.0  
> Default Gateway:  
> DNS Servers:  
192.168.16.2  
> Primary Wins Server  
192.168.16.2  
>  
> Ethernet Network  
Connection  
>  
> Connection-specific DNS  
Suffix:  
> Description: BroadCom  
NetXtream  
> Physical Address:  
00-10-18-18-31-C2  
> DHCP Enabled : NO  
> IP Address 192.168.0.100  
> Subnet Mask :  
255.255.255.0  
> Default Gateway:  
192.168.0.1  
> DNS Servers:  
192.168.16.2  
> NetBios Over TCPIP:  
Disabled  
> Any ideas?  
>  
> Other info... Before I ran

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the internet connection wizard, I also > disabled > the UPNP on the router itself. I have checked the DNS Service and it > is > running, also is the DHCP Service.

> I wonder if I may have missed a firewall setting on the router as > well.

>

>

> "CO-DBA-SC-EL"

wrote:

>

>> Hmm. In a 2-NIC setup changing the router (which feeds the WAN >> side of >> the

>> SBS) should have nothing to do with the inability of the clients to >> login

>> to

>> the domain. Completely separate networks. The IPconfig for the >> client >> shows

>> that the client is not able to get an address from the DHCP server >> on the >> SBS.

>>

>> Now, a problem could occur if the physical net was configured to >> use the >> router's LAN switch to connect the workstations (both SBS NICs into >> the >> same

>> switch) which in theory should work but is of course a very bad >> practice.

>> If

>> that is the problem, try to fix that, using the diagram in the SBS

>> documentation (such as it is...). Assuming that this is not the

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>> problem...  
>>  
>> First check whether the DHCP service is running. If it is not, >> start it, >> then try to figure out why it did not start in the first place.  
>>  
>> If that does not fix the problem, go through the following steps:  
>>  
>> 1. Verify that the workstations can physically connect to the LAN >> side of >> the SBS. Since it looks like the workstations are set up to use >> DHCP, a >> quick and dirty way to do that would be (a) >> disconnect everything >> from >> the >> router then (b) to move the cable from the LAN side NIC of the SBS >> to a >> LAN >> port on the router then (c) turn on the router, give it time to >> boot and >> do >> an ipconfig -reset on a workstation then check whether it got an IP >> address >> from the router and that it can ping the router. If that doesn't >> work, >> first >> do a deep reset of the router and try again. If after that it still >> does >> not >> work, look for a bad cable or bad switch in the LAN or some other >> LAN >> config >> problem.  
>> 2. Assuming that step 1

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is fixed, take this opportunity to log into >> the >> router and verify that it is set up correctly. It should have DHCP >> turned >> on >> and have its WAN side configured properly, including the ISP DNS >> and >> gateway >> addresses if the WAN side of the router is not using DHCP. Don't >> bother >> with >> port forwarding yet. Making sure that the firewall on the >> workstation is >> enabled (or using a test laptop instead of the workstation), >> connect the >> WAN >> side of the router and check that the workstation can connect to >> the >> Internet. If that works, then the router should not be a problem >> and you >> can >> focus on the SBS. If that doesn't work, pretend that the router is >> working >> for the purpose of step 3, but you will need a router... >> 3. With all physical connections correct (as in the SBS >> documentation >> diagram for 2-NIC setup with a router), run the CEICW. Use the >> vanilla >> settings. While you are at it, set up a LAN side address of >> 192.168.x.2 >> for >> your SBS, where x is anything except 0, 1, 2 or 13. This will allow >> you to

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>> substitute any router (at least from the brands I've tried) without  
>> having  
>> to worry about subnet conflict between the WAN and LAN side. When >> it  
>> comes  
>> to router UPNP say that your router is not UPNP, and look up the >> "More  
>> Info"  
>> that tells you which ports you will need to forward on the router. >> Port  
>> forwarding on your perimeter device is something you probably want >> to be  
>> able to control yourself. Also, if you control port forwarding on >> the  
>> router  
>> yourself, you can replace the router at will without ever needing >> to  
>> change  
>> anything in the SBS configuration.  
>> 4. Check the Services to verify that the DHCP service is running. >> Go to a  
>> workstation and verify that it can get an IP address through DHCP >> and  
>> that  
>> you can ping the SBS—it should show up as the gateway and DNS >> server in  
>> the  
>> IPconfig for the workstation. If this doesn't work, then you have a >> more  
>> serious problem with your SBS. Call for help.  
>> 5. If steps 1 to 4 succeeded, then try to ping a known good test >> address

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>> (e.g.  
www.dnsreports.com) on  
the Internet from a  
workstation. If >> that  
>> doesn't work (not found),  
try to ping a known IP  
address (e.g.  
>> 65.98.45.220). If that  
works but pinging by name  
did not work, you >> have a  
>> DNS problem. Check  
that the DNS configuration  
in the CEICW is >> correct.  
If  
>> you had made manual  
modifications to the SBS  
DNS settings, go back >> to  
>> your  
>> setup nodes and try to  
undo them before running  
the CEICW. If that >> still  
>> doesn't work, call for  
help.  
>> Let us know how you've  
done. Sleeplessness induces  
people to make >> strange  
>> errors... so be careful.  
>>  
>> C\_O  
>>  
>>  
>>  
>>  
>>  
>> ..  
>> "Jan" <jan@.n.o.com>  
wrote in message  
>>  
[news:Ob1SWtCOGHA.1040@xxxxxxxxxxxxxxxxxxxxxxxxxxxxx](mailto:news:Ob1SWtCOGHA.1040@xxxxxxxxxxxxxxxxxxxxxxxxxxxxx)  
>> > It looks like new router  
configuration was different  
from one >> > that  
>> > died.  
>> > Post output of  
"ipconfig /all" from server  
and one workstation  
>> > connected  
>> > to 24 port switch.  
>> > Should be able to give  
you simple instructions to  
get back to >> > where you

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>> > where before this  
incident.  
>> >  
>> > -- >> > Jan Wakulicz  
>> > www.micropol.com.au  
>> >  
>> >  
>> > "Kimmy"  
<Kimmy@xxxxxxxxxxxxxxxxxxxxxxxxxxxx>  
wrote in message  
>> >  
news:C85BE8C6-2E8A-4DC6-AB7A-11CD42D0716B@xxxxxxxxxxxxxxxxxxxx  
>> >> quick brief on original  
setup  
>> >> Dell Power 1800  
server running SBS2003  
standard with 2 nics  
>> >> 1 D-link 8 port  
router & 1- 24 port switch  
>> >> D-link connected to  
ISP with a static ip and  
server- onboard nic  
>> >> connected  
>> >> to switch.  
>> >> Original install went  
off with out a hitch  
including all updates >> >>  
ect.  
>> >> For  
>> >> a  
>> >> week clients could  
communicate with server.  
>> >>  
>> >> Yesterday the router  
dies, and I quickly swapped  
it with another  
>> >> D-link  
>> >> router this one  
smaller -only a four port.  
When the router died, >> >>  
other  
>> >> than  
>> >> no internet access,  
the client machines could  
still connect to >> >>  
server.  
>> >> After I swaped the  
router everything was still  
fine.  
>> >>  
>> >> This morning, I had

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to go clean up my network  
room and wires. >> >>  
During  
>> >> this  
>> >> I  
>> >> shut down the server,  
and removed of from the  
room. It was down >> >>  
for  
>> >> about  
>> >> 5  
>> >> hours.  
>> >> Then I set it back up,  
all the same- i didn't touch a  
setting, >> >> and now  
>> >> my  
>> >> clients can't login.  
The administrator can log in  
client >> >> machines,  
>> >> release/renew the ip  
address, look at network  
places, see the >> >> server  
>> >> but  
>> >> cant  
>> >> connect. No internet  
access either.  
>> >>  
>> >> Okay so back at the  
server -no internet  
connection but can see >>  
>> the  
>> >> internal  
>> >> website. The external  
nic is set to auto get ip from  
router, but >> >> the  
>> >> primary  
>> >> dns is the ip address  
of the local nic. When I  
change that to >> >> the ip  
>> >> of  
>> >> the  
>> >> router I can get  
internet on the server. Ran  
the CEICW... doh! >> >>  
The  
>> >> wizard  
>> >> popped up with that  
the router is a plug in play  
and it wanted to  
>> >> configure  
>> >> it. Now everything is

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so totally messed.  
>>> I cant get any clients  
to log in but when i set the  
ip on the >>> external  
>>> nic  
>>> back to the router ip,  
I can reach the remote  
server login page >>> on  
my  
>>> laptop.  
>>> I have ran the change  
server ip wizard, but  
nothing.  
>>>  
>>> Please I need to have  
this whole thing back up and  
running by >>> Mon.  
>>> morning,  
>>> so please give very  
deatiled instructions if ya  
got them. I have >>> been  
>>> going  
>>> on less than 3 hours  
sleep, and if you can come  
up with a less >>> than  
>>> perfect  
>>> quick fix until next  
weekend, I am all ears.  
>>>  
>>> Thanks  
>>>  
>>>  
>>>  
>>>  
>>>  
>>>