

Re: Urgent! New router and big disaster

## 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/msg01238.html>

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- *From:* "Les Connor [SBS Community Member – SBS MVP]" <[les.connor@xxxxxxxxxxxxx](mailto:les.connor@xxxxxxxxxxxxx)>
  - *Date:* Mon, 6 Mar 2006 20:22:40 -0600
- 

Whooops, local router device is the wrong answer ;-).

You have a full-time broadband connection.

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Les Connor [SBS Community Member – SBS MVP]

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SBS Rocks !

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"Tell me and I'll forget. Show me and I'll remember. Involve me and I'll understand." – Confucius

"Kimmy" <[Kimmy@xxxxxxxxxxxxxxxxxxxxxxxxxxxxx](mailto:Kimmy@xxxxxxxxxxxxxxxxxxxxxxxxxxxxx)> wrote in message  
<news:97BAB5D4-7850-40B0-BEA2-E9B58F95F90A@xxxxxxxxxxxxxxxxxxxxx>

Okay, when I run the CEICW this is what I see...  
First Page of the Internet Connection Wizard, I select my Broadband connection.  
Next I Select a local router device with an ip address. The next page are the DNS Server addresses provided by my ISP, and the local IP address of router, which are already in.

The Next Page is the network connection page, Under ISP network I have the Network connection, but I can't change the ip address or the subnet mask, same as the Server Local Area Connection, I can't change addresses there either.

After that I get the rest, firewall, web server certificate, internet email and so on. I am not sure how I can use the CEICW to make the changes you have listed. Or have I misunderstood.

"CO-DBA-SC-EL" wrote:

You're getting close. Since you can reach an external web site by using

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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 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

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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 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

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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  
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]

=====  
"Kimmy"

<Kimmy@xxxxxxxxxxxxxxxxxxxxxxxxxxxx>

wrote in message

news:41894A1D-D2B3-49C0-AB14-AD2D5EA865E8@xxxxxxxxxxxxxxxxxxxx

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

I –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 internet was available for either the SBS or the Client by using the test page [www.dnslookup.com](http://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

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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 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:

Hmmm. In a 2-NIC setup changing the router (which feeds the WAN side

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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)

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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 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

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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

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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  
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.

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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...

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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 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

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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

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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  
king a  
known good  
test  
address  
(e.g.  
[www.dnsreports.com](http://www.dnsreports.com))  
on the  
Internet  
from a  
workstation.  
If  
that  
doesn't  
work (not

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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

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errors... so  
be careful.

C\_O

..  
"Jan"  
<jan@.n.o.com>  
wrote in  
message  
[news:Ob1SWtCOGHA.1040@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx](mailto:news:Ob1SWtCOGHA.1040@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx)

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

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to  
get  
back  
to  
where  
you  
where  
before  
this  
incident.

--  
Jan  
Wakulicz  
www.micropol.com.au

"Kimmy"  
<Kimmy@xxxxxxxxxxxxxxxxxxxxxxxxxxxx>  
wrote  
in  
message  
[news:C85BE8C6-2E8A-4DC6-AB7A-11CD42D0716B@x](mailto:news:C85BE8C6-2E8A-4DC6-AB7A-11CD42D0716B@x)

quick  
brief  
on  
original  
setup