

Re: Urgent! New router and big disaster

Source:

<http://www.tech-archive.net/Archive/Windows/microsoft.public.windows.server.sbs/2006-03/msg01220.html>

- *From:* "SuperGumby [SBS MVP]" <not@xxxxxxxxxxx>
 - *Date:* Tue, 7 Mar 2006 13:18:31 +1100
-

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@xxxxxxxxxxx> wrote in message news:uruAJuYQGHA.3460@xxxxxxxxxxxxxxxxxxxxxxxxxxxx

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@xxxxxxxxxxx> wrote in message news:%23BUq2VYQGHA.5592@xxxxxxxxxxxxxxxxxxxxxxxxxxxx

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 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

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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

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 server name and ran the lookup tool)

"Merv Porter [SBS-MVP]" wrote:

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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 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.

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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

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 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.

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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 TCP/IP:
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 DCHP
Service.
I wonder if I may have
missed a firewall setting on

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the router as
well.

"CO-DBA-SC-EL" wrote:

Hmmm. 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

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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
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

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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

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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 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

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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

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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
substitute
any router
(at least
from the
brands I've
tried)
without
having
to worry
about
subnet
conflict
between the
WAN and
LAN side.

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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

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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 (e.g. www.dnsreports.com) on the Internet from a workstation. If that doesn't

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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

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errors... so
be careful.

C_O

..
"Jan"
<jan@.n.o.com>
wrote in
message
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@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx>
wrote
in
message
news:C85BE8C6-2E8A-4DC6-AB7A-11CD42D0716B@x

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

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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

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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
to
go
clean
up
my
network
room
and
wires.
During
this
I
shut
down
the
server,
and

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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

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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

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ip
of
the
router
I
can
get
internet
on
the
server.
Ran
the
CEICW...
doh!
The
wizard
poped
up
with
that
the
router
is
a
plug
in
play
and
it
wanted
to
configure
it.
Now
everything
is
so
totally
messed.
I
cant
get
any
clients
to
log
in
but
when
i

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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

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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

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