

## Re: SBS 2003 Misconfigured?

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<http://www.tech-archive.net/Archive/Windows/microsoft.public.windows.server.sbs/2008-08/msg01166.html>

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- *From:* Mark Grantom <[mgrantom@xxxxxxxxxx](mailto:mgrantom@xxxxxxxxxx)[no spam]>
  - *Date:* Tue, 12 Aug 2008 15:30:03 -0700
- 

What part of my configuration do you need to know? As I stated, there is no setting for NAT on the netopia. Sorry if you can't help me, I appreciate the effort.

--

Mark G

"Cliff Galiher" wrote:

Unfortunately, since you don't know your configuration, asking us for help is kinda like asking someone to bulls-eye a target blindfolded. Some people can do so, and might even enjoy it...but most don't and won't. And it can be dangerous.

I could 'guess' that the configuration, as you described it, is the netopia configured as a bridge and the netgear as the NAT device. It is also possible the netgear is not properly passing LAN traffic.

So, I stand by my previous recommendation. Remove the netgear, configure the netopia as the NAT device (I prefer the Netopia firewall anyways, for a basic firewall), and add a switch to the netopia for the other devices.

-Cliff

"Mark Grantom" <[mgrantom@xxxxxxxxxx](mailto:mgrantom@xxxxxxxxxx)[no spam]> wrote in message [news:D2B234DE-8886-44E7-BF74-9DA23387B206@xxxxxxxxxxxxxxxxxxx](mailto:news:D2B234DE-8886-44E7-BF74-9DA23387B206@xxxxxxxxxxxxxxxxxxx)

I went back and looked at the Netgear. I don't see anything that allows you to turn NAT on or off. I based my post on the notes that a tech I hired left me. I DO know that NAT is off on the Netopia. The netgear has a setting for the Internet IP which is set to the static IP given to me by AT&T. It also has a setting for the LAN ip which is set to 192.168.5.2 if this helps.

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The  
additional information on how my workstations are manually configured:  
WINS is set to the SBS server's ip 192.168.5.109  
DNS server address is set to SBS server's ip 192.168.5.109  
Append primary and connection specific DNS suffixes is selected  
DNS suffix for this connection is set to "grantomlaw.local"  
Register this connection's addresses in DNS is checked  
Use this connection's DNS suffix in DNS registration is checked  
IP Settings  
192.168.5.101 Subnet mask of 255.255.255.0  
Gateway is set to 192.168.5.2 (address of the netgear router)  
Automatic metric is checked

--  
Mark G

"Cliff Galiher" wrote:

Inline:

-Cliff

"Mark Grantom" <mgrantom@xxxxxxxxxxx[no spam]>  
wrote in message  
[news:63AFF1B0-E929-40DB-B7FF-ED1377D9BC69@xxxxxxxxxxxxxxxxxxxx](mailto:news:63AFF1B0-E929-40DB-B7FF-ED1377D9BC69@xxxxxxxxxxxxxxxxxxxx)

Thanks for all the quick responses! I  
apologize for not getting back  
sooner  
but I had to be out of the office today  
unexpectedly. The Netopia IS a  
router/modem, it is just not setup up for  
routing. I wanted to use the  
Netgear router because it has 8 ports, utilizes  
UPnP (at least it did  
it  
ONCE  
then quit) and is brand new (well almost).

UPnP is useful for a very limited subset of applications, none  
of which  
apply in an office setting.

NAT is turned off on both devices.

Which, based on the configuration you gave, is part of the  
problem. You  
mentioned that you assigned the ISP IP to netopia AND the  
netgear. That

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itself will cause a problem. You \*can\* configure the netopia to operate in bridged mode, but in this configuration, it is literally acting as modem, converting DSL/ATM traffic to ethernet and would not hold a public IP of its own. Again, it would have to be configured properly to pass ALL traffic to the netgear...tricky if you aren't sure EXACTLY what you are doing.

Secondly, the netgear SHOULD be configured to NAT unless you are running SBS in a 2-nic configuration in which case SBS would be handling NAT. But, if SBS were in a 2-nic configuration, you'd still need a switch on the internal-facing NIC. You could use the netgear for this, but at that point you'd configure the netgear without an external IP...and basically not be using the routing functions at all. So basically, from where I stand, you still have configuration issues.

I am NOT a techie I just figured out a lot by myself in the last 30 years that I have been building / using computers ( I started in 1978). Initially when I installed SBS 2003 I was using the netgear router with a DSL modem. When I changed over to a static IP, AT&T sent me the netopia router/modem so I was forced to use it, but since it only has 4 ports, I had a tech help me to set it up so it only obtains the ip (so it does operate as

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only a modem).

If it is properly configured as "only" a modem, then it won't obtain the IP.

It will let the netgear handle that task. See above.

I then linked it to the netgear router. DHCP is configured on the server, but if I set a workstation to "obtain ip automatically" that WS cannot get onto the internet. If I manually set the ip's there are no problems.

A perfect example of why I think you have fundamental network issues.

Until

you get DHCP working, you can't expect other things to work. DHCP isn't

an

overly complex protocol. If it is broke...well....you need to concentrate

on fixing it. Don't even \*worry\* about trying to fix the printing issue

yet. When you fix DHCP, I suspect you'll find other things magically

start

working.

The specific problem I have at the moment is that I have to run

Quickbooks on my server (I know, I shouldn't but I HAVE to because

another

application I use Time Matters "Quickbooks Server, requires it.)

You know you shouldn't. We know you shouldn't. Suffice it to say, you

should look at addressing this. I'm familiar with Time Matters and have

my

own opinions on how to resolve this issue, but as tempted as I am to do

so,

I think it'd only fracture the thread and frankly does not

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directly  
relate  
to the problem you have right now.

When I try  
to print from the server using the laser  
printer on one of the  
workstations,  
the printer does not show up. Everything  
else seems to work.

Everything except DHCP. You can't ignore problems and  
expect everything  
else to work. Sorry if that comes across harshly, but it is true.  
To  
say  
"everything else seems to work" blatantly ignores the other  
problems  
you've  
posted here.

I can browse  
files on the workstations etc. The printer is  
properly shared on the  
workstation and the box checked that says to  
"list in directory".

The "list in directory" is nice if you are using AD to find  
printers. It  
is  
not necessary though. If you've shared the printer, then you  
can always  
fall back to 'classic' file and printer sharing. And since that  
does not  
appear to be working, you have other problems.

I'm not  
sure, but I believe it MAY be related to my  
having "moved" the  
workstations  
in the Active Directory to the "my company"  
computers folder, if I'm  
making  
sense.

Possible, if a GPO is configured to stop file and printer  
sharing or  
setting

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firewall rules to block such communications. Why did you  
move the  
computer  
to a different OU? For SBS, the default setup with  
/connectcomputer is  
good  
99% of the time. There *\*are\** legitimate reasons to move  
machines, but I  
find many people do so when it is unnecessary as well. There  
is usually  
a  
better way...

Thanks for all of the help.

--

Mark G

"Lanwench [MVP – Exchange]" wrote:

Cliff Galiher  
<cgalier@xxxxxxxx>  
wrote:

Lanwench  
brings up  
good points,  
but I'm  
going to go  
a step  
further  
and say I'm  
concerned  
about your  
current  
device  
configuration.

If I read this  
properly,  
you have  
the WAN  
port of your  
netgear  
device  
plugged  
into one of  
the LAN  
ports of

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your  
netopia.

Yes, that was my  
understanding as well.

The netopia  
3300  
series (I'm  
guessing the  
model  
based on the  
specs given)  
default to  
a  
NAT  
routing  
configuration,

But not necessarily. I have  
several clients running  
Netopias. I merely  
tell  
the ISP that I have my own  
firewall appliance & don't  
want NAT or any  
filtering. The NetGear  
FVS318 is not the greatest  
firewall on the  
planet,  
but it's a decent little device  
– and it has an integrated  
Ethernet  
switch,  
which I presume he's using.

Even if the Netopia were  
configured to do NAT, the  
worst thing that  
would  
happen is that his LAN  
would be 'double NATted' –  
which might cause  
problems  
with \*inbound\* traffic but  
wouldn't cause any  
problems with LAN  
traffic

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or  
outbound Internet  
connectivity.

Guess we'll have to wait til  
the OP posts back to find  
out.

so  
essentially  
you've  
segmented  
your  
network if  
you have  
equipment  
plugged  
into both  
devices.  
This could  
cause all  
sorts of  
problems if  
you haven't  
carefully  
configured  
the  
equipment.  
I'd  
personally  
pull the  
netgear out  
of the  
equation.  
No  
need for  
two peices  
of  
equipment  
that do the  
same job.

I would  
instead pick  
up a switch  
(not a  
router),  
such as a  
3com  
OfficeConnect



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advance  
for  
the  
length  
of  
this  
post,  
however  
I  
wanted  
to  
furnish  
as  
much  
information  
as  
possible  
to  
help  
me  
solve  
this  
problem.  
I  
have  
spent  
a  
great  
deal  
of  
time  
trying  
to  
solve  
this  
myself  
but  
I  
am  
at  
a  
complete  
roadblock  
at  
this  
point.  
I  
really  
need  
to  
get

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my  
system  
up  
and  
functional  
again.  
My  
SBS  
2003  
is  
setup  
with  
1  
NIC  
&  
3  
Win  
XP  
workstations.  
I  
am  
using  
a  
Netopia  
ADSL2/2+  
4pt  
Managed  
Switch  
that  
is  
connected  
to  
a  
netgear  
router.  
I  
needed  
the  
Netgear  
router  
because  
it  
has  
8  
ports  
and  
I  
have  
several  
printers  
besides

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my  
3  
workstations  
and  
server  
that  
I  
wanted  
to  
connect  
to  
it.  
My  
SBS  
2003  
Server  
and  
3  
workstations  
are  
all  
connected  
to  
the  
router.  
I  
am  
having  
trouble  
not  
being  
able  
to  
print  
from  
the  
server  
to  
a  
printer  
connected  
on  
one  
of  
the  
workstations.  
I  
get  
an  
"access  
denied,

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unable  
to  
connect"  
type  
message.  
I  
also  
lose  
connectivity  
between  
the  
WS  
and  
the  
server  
from  
time  
to  
time.  
I  
believe  
I  
have  
something  
misconfigured  
but  
I  
cannot  
figure  
it  
out.  
Any  
help  
in  
getting  
this  
resolved  
would  
be  
much  
appreciated.  
The  
configuration  
of  
the  
devices  
is  
as  
follows:  
Netopia  
router

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(this  
is  
really  
a  
modem)

DHCP  
"OFF"  
Manually  
configured  
static  
IP  
from  
ISP  
DNS  
set  
to  
ISP  
DNS-1  
&  
DNS-2

Netgear  
FVG318  
router  
WAN  
IP  
set  
to  
one  
of  
the  
static  
IP's  
assigned  
by  
ISP  
LAN  
IP  
of  
router  
manually  
set  
to  
192.168.5.2  
DHCP  
turned

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off  
Primary  
and  
Secondary  
DNS  
setup  
to  
my  
ISP's  
DNS

SBS  
2003  
Server  
Computer  
name  
is  
MSGSRV  
IP  
of  
server  
is  
192.168.5.109

That's  
fine,  
but  
for  
reasons  
of  
tidiness  
&  
organization  
it's  
usually  
best  
to  
assign  
your  
static  
IP  
addresses  
from  
the  
lowest  
or  
highest

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range  
of  
your  
IP  
subnet.  
I  
set  
exclusions  
–  
such  
as,  
from  
.1  
to  
.50  
and  
from  
200  
–  
.250.  
I  
set  
the  
gateway/router  
appliance  
to  
.1,  
and  
set  
my  
servers  
to  
use  
between  
.10  
and  
.20,  
etc.  
You  
don't  
have  
to  
do  
this,  
but  
I  
find  
it  
tidier.

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TCP/IP  
is  
configured  
so  
that  
DNS  
point  
to  
itself

Good

The  
alternate  
DNS  
is  
blank,  
should  
I  
set  
it  
to  
the  
ISP  
DNS-1?

Nope.

Default  
gateway  
is  
set  
to  
router  
192.168.5.2

DHCP  
is  
configured,  
but  
I  
manually  
configured  
all  
IP's

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on  
all  
computers  
after  
I  
started  
having  
problems.

OK

–

you  
shouldn't  
need  
that,  
but  
see  
below.

DHCP  
scope  
192.168.5.100  
to  
192.168.5.150

OK.

IP's  
on  
Workstations  
was  
Manually  
configured  
as  
192.168.5.101,  
192.168.5.110,  
and  
192.168.5.108  
because  
DHCP  
will  
not  
work.  
Each  
WS  
has  
its

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DNS  
pointed  
to  
the  
server  
local  
ip.