

# Re: Server/Network setup question

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*Source:*

<http://www.tech-archive.net/Archive/Windows/microsoft.public.windows.server.sbs/2006-04/msg01369.html>

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- *From:* "Merv Porter [SBS-MVP]" <[mwport@xxxxxxxxxxxxxxxxxxxxxx](mailto:mwport@xxxxxxxxxxxxxxxxxxxxxx)>
  - *Date:* Sat, 8 Apr 2006 21:41:09 -0400
- 

Maybe we can make this easier to follow. Let's keep the P2P network and the rented printer in the 192.168.1.x subnet. Nothing changes for the present P2P network.

So, you buy a cheap switch and a WAP, power up the switch and connect the SBS server's internal NIC to the switch. Then you complete the SBS install. The internal NIC of the SBS server will default to 192.168.16.2 during the install. After that, you manually assign the SBS external NIC a static IP of 192.168.1.2 (like in the diagram I mentioned), connect it to a port on the router and run CEICW to configure your SBS network. At that point you can set up computer accounts, user accounts, configure domain name, email, etc. on the SBS. You can even set up the WAP and attach it to the switch. Your P2P workstations/printers still don't know anything about a "domain server".

CEICW Walkthrough (Andy Goodman)  
<http://www.12c4pc.com/sbs2k3/sbs2k3-n2.htm>

When you're ready to bring the P2P workstations and printers into the domain, you change the IP of the rented printer to 192.168.16.8 (or some other IP from .3 to .9). Then, one by one, you connect each workstation/printer to the new switch and you start adding your workstations and user profiles to the domain using ConnectComputer.

The end result is an SBS network like:

```
Internet
|
Broadband Modem
|
Router WAN side (ISP Static or Dynamically assigned Public IP Address)
Router LAN side (192.168.1.1)
|
External NIC (192.168.1.2)
SBS
Internal NIC (192.168.16.2)
|
Switch
```

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|||||||

Workstations, WAP, rented printer (all 192.168.16.x)

--

Merv Porter [SBS MVP]

=====

"D. Milton" <D.Milton@xxxxxxxxxxxxxxxxxxxxxxxxxxxx> wrote in message  
news:1D703546-9C23-4F3A-941A-2B3CE4CEE4F7@xxxxxxxxxxxxxxxxxxxx

Yes, currently the users are getting IP addresses from DHCP on the router.

Since you have two 2 NICs in your SBS server, under other circumstances,  
you  
could connect the external NIC to a port on your router and not disturb  
your  
P2P users.

Ok, I'm convinced that I should deal with the rented printer seperately.

If you can overcome this rented printer problem, I'd change the LAN IP  
range  
of the router now.

Change it to 192.168.16.x or to a subset of the current range or to  
something else?

Then all your workstations would just need to reboot to  
get an IP in this new range. After that, you give the external NIC on  
your  
SBS server a static IP address in the same range as the router.

The router is currently 192.168.1.0. So, 192.168.1.2, for example?

Then set up  
your SBS server, making sure to connect the internal NIC to a live  
(turned  
on) hub or switch during the install procedure.

That would be the existing hub, yes?

Since your P2P users will  
be in a subnet that is different from the SBS LAN (with their own  
Internet

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and P2P network connectivity), you should be able to do considerable (almost all) setup of the SBS server without affecting them.

Can you elaborate on what subnet I should add my P2P user to?

Wow – great information.

Am I taking an unusual approach?

—

D. Milton

This posting is provided "AS IS" with no warranties, and confers no rights.

"Merv Porter [SBS-MVP]" wrote:

Basically, what you want to do is isolate your current Peer-to-Peer (P2P) users. Currently, I suspect your users are getting IP addresses automatically from the DHCP service on the router.

Since you have two 2 NICs in your SBS server, under other circumstances, you could connect the external NIC to a port on your router and not disturb your P2P users. However, your requirement that you maintain the 192.168.1.x IP range for your SBS LAN complicates things a bit. You could change the IP scheme used by the router but then that "rented" printer is going to need to have its IP address changed (which you should be able to do yourself with a call to their tech support department).

If you can overcome this rented printer problem, I'd change the LAN IP range of the router now. Then all your workstations would just need to reboot to get an IP in this new range. After that, you give the external NIC on your SBS server a static IP address in the same range as the router. Then set up your SBS server, making sure to connect the internal NIC to a live (turned on) hub or switch during the install procedure. Since your P2P users will be in a subnet that is different from the SBS LAN (with their own

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Internet and P2P network connectivity), you should be able to do considerable (almost all) setup of the SBS server without affecting them.

I suppose another approach would be to leave everything as it is now in the P2P network, connect the SBS server using the 192.168.1.x range for the external NIC, set up the SBS with an IP range of 192.168.16.2, then later have the IP of the rented printer changed to an IP address in the 192.168.16.x range, then join your workstations to the domain.

--  
Merv Porter [SBS MVP]  
=====

"D. Milton" <D.Milton@xxxxxxxxxxxxxxxxxxxxxxxxxxxx> wrote in message [news:719A65A1-8F68-42F7-96C2-158B178CFC4F@xxxxxxxxxxxxxxxxxxxx](mailto:news:719A65A1-8F68-42F7-96C2-158B178CFC4F@xxxxxxxxxxxxxxxxxxxx)

Merv,

When you say "You can set up quite a bit of the server (setting up email, user accounts, computer accounts) before you actually connect the workstations the domain."

Are you saying that this can be done before the server is inserted into the existing network?

Will the users have internet and LAN connectivity even before they are joined to the domain if the server has been added the the network?

Thanks  
--  
D. Milton

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"Merv Porter [SBS-MVP]" wrote:

IMO, "phasing in" a single (integrated) server like SBS rarely works

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well.

Most companies who use SBS have a small number of users and workstations/laptops. I've found it better to do your homework, pick a weekend, set up the network infrastructure, join all the workstations/laptops to the domain and move existing Peer-to-Peer profiles to "domain" profiles using ConnectComputer. It's a whole lot cleaner that set up the network piecemeal. You can set up quite a bit of the server (setting up email, user accounts, computer accounts) before you actually connect the workstations to the domain.

A big challenge has always been shifting your users' profiles from a "workgroup" to a "domain" (which is where the ConnectComputer utility in SBS 2003 comes in handy). If you can get them to put all their data files in their My Documents folder prior to joining them to the domain, you should consider redirecting their My Documents folder to their user folder on the server so that all user data can be centrally located on the server for daily backup. Folder redirection (with or without offline file synchronization) goes a long way to making this as transparent as possible for the end user.

The current POP3 accounts can be switched over to using the POP3 Connector for downloading and delivering these to each

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Exchange mailbox. In time, you may even want to move up to hosting your own Exchange server (all mail delivered directly to your SBS server).

Just my \$.02.

--

Merv Porter [SBS MVP]

=====  
"D. Milton"

<D.Milton@xxxxxxxxxxxxxxxxxxxxxxxxxxxx>

wrote in message

[news:47641CEC-8794-4595-A66C-E588EC5954A2@xxxxxxxxxxxxxxxxxxxxx](mailto:news:47641CEC-8794-4595-A66C-E588EC5954A2@xxxxxxxxxxxxxxxxxxxxx)

Thanks Merv and SuperGumby.

I guess my goal was to try to minimize the amount of time spent getting the server in place as well as the impact to existing users and devices on the network. I had hoped to be able to just add the server, get it configured correctly, and then have everything keep working. Guess I had better schedule some maintenance time.

The laptops on my network go wireless.

I wanted to phase in the server -- first just get connectivity and routing going, then add a switch, then migrate email from Pop3 to Exchange,

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then  
focus on SQL and  
client/server apps.

I think that approach will  
still work, but I may have  
the laptops  
use  
an  
ethernet connection until I am  
sure that phase I is solid,  
then add a  
wap.

I  
prefer to minimize the  
number of changes that I  
make at one time.

Thanks again for your help.

--

D. Milton

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"Merv Porter [SBS-MVP]"  
wrote:

Your  
internal  
SBS LAN  
IP range can  
be any  
private IP  
scheme you  
like  
(172.x.x.x,  
10.x.x.x,  
192.x.x.x).  
192.168.16.x  
is just the  
SBS  
2003  
default. The  
LAN side of  
your router

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is probably  
set up as  
192.168.1.x  
now  
and will  
need to be  
changed to  
another  
subnet (like  
192.168.2.x)  
if  
you're  
going to use  
the  
192.168.1.x  
scheme for  
your  
internal  
SBS LAN.

Correct  
about the  
WAP since,  
once you  
get your  
SBS  
network set  
up,  
the  
wireless  
router will  
be outside  
your LAN.

--

Merv Porter  
[SBS MVP]

=====

"D. Milton"

<D.Milton@xxxxxxxxxxxxxxxxxxxxxxxxxxxx>

wrote in

message

[news:069E086A-68E0-4E7B-85F7-845855524E55@xxxxxxxxxxxx](mailto:news:069E086A-68E0-4E7B-85F7-845855524E55@xxxxxxxxxxxx)

Great  
diagram.  
Thanks.

Two  
questions:

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The  
internal  
LAN  
address  
range,  
according  
to  
the  
diagram,  
should  
be  
192.168.1.x.  
The  
external  
address  
should  
be  
192.168.1.10  
or  
any  
address  
within  
the  
same  
subnet  
as  
the  
router.  
Currently,  
I  
have  
several  
devices,  
namely  
a  
rented  
printer  
installed  
and  
configured  
by  
the  
printer  
company  
to  
use  
address  
192.168.1.20.  
Once  
I  
add

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my  
server  
and  
assign  
the  
addresses  
according  
to  
the  
diagram,  
this  
printer  
will  
cease  
to  
work  
and  
I  
will  
need  
to  
call  
the  
not-very-responsive  
printer  
company  
back  
in  
to  
reconfigure  
the  
printer.  
Since  
my  
company  
is  
actively  
doing  
business,  
I  
would  
prefer  
to  
avoid  
this  
if  
at  
all  
possible.  
I  
have

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have  
a  
wireless  
print  
server  
with  
a  
static  
address  
also  
in  
the  
192.168.1.x  
range.  
My  
question  
is  
this:  
must  
the  
internal  
addresses  
be  
192.168.16.x  
or  
can  
they  
remain  
as  
the  
are  
(192.168.1.x)  
and  
the  
external  
address  
could  
be  
something  
else?

Also:  
my  
wireless  
connectivity  
will  
cease  
to  
work  
when  
I

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add  
the  
server  
between  
the  
modem/wireless  
router,  
hence  
the  
suggestion  
for  
a  
wap,  
yes?

Thanks!  
--  
D.  
Milton

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posting  
is  
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IS"  
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confers  
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rights.

"Merv  
Porter  
[SBS-MVP]"  
wrote:

Take  
a  
look  
at  
the  
diagram  
at:  
(works  
for

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SBS  
2003  
with  
or  
without  
ISA)

Two  
Nics,  
a  
dynamic  
IP  
address,  
ISA  
and  
a  
router

<http://www.smallbizserver.net/Default.aspx?tabid=26>

For  
wireless  
for  
the  
LAN  
workstations,  
I  
would  
buy  
a  
Wireless  
Access  
Point  
(WAP)  
and  
connect  
it  
to  
the  
"hub"  
(which  
really  
should  
be  
a  
"switch")  
on  
the  
LAN  
side  
of  
that

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diagram.

--

Merv  
Porter  
[SBS  
MVP]

=====  
"D.  
Milton"

<D.Milton@xxxxxxxxxxxxxxxxxxxxxxxxxxxx>

wrote

in

message

[news:0C092EE3-14EF-4757-AFD2-DBA1154988](mailto:news:0C092EE3-14EF-4757-AFD2-DBA1154988)

I  
have  
a  
windows  
2003  
SBS  
w/  
2  
net  
cards.  
My  
internet  
connection  
is  
via  
a  
DSL  
wireless  
modem/router  
combined.  
Currently,  
the  
one  
ethernet  
port  
on  
modem/router  
runs  
into  
a  
hub  
which  
provides  
connectivity  
for

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the  
clients  
on  
the  
LAN.  
Wireless  
also  
works.

Given  
my  
current  
configuration,  
what  
is  
the  
best  
place  
to  
interject  
the  
server?

Thanks  
--  
D.  
Milton

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