

# Re: How do I configure SBS 2003 as a DHCP server?

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*Source:*

<http://www.tech-archive.net/Archive/Windows/microsoft.public.windows.server.sbs/2007-09/msg02257.html>

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- *From:* JJ <JJ@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx>
  - *Date:* Sun, 16 Sep 2007 20:26:02 -0700
- 

The SpeedStream 6520 is indeed capable of handling PPPoE. However, if I need to disable it's DHCP functionality, I have to disable all it's extra intelligence (at least that's why my ISP told me) including it's PPPoE capability. Therefore, I configured SBS as my PPPoE conduit. When you run CEICW, there's an option to do this. So, the PPPoE adapter I have is on SBS as a software component. At this time, SBS authenticates against my ISP's servers for PPPoE.

Merv, please see Cris' post below and let me know if there's anything else I need to do.

Thanks.

"Merv Porter [SBS-MVP]" wrote:

Where did the need for a "PPPoE adapter" come from (and where is it installed)? Your SpeedStream 6520 should be able to handle PPPOE.

SpeedStream 6520 manual (Sieman's Australia guide)

[http://www.siemens.com/Daten/siecom/Australia/ICN/Internet/ICN\\_Unitwide/WORKAREA/au\\_ed\\_in/templa](http://www.siemens.com/Daten/siecom/Australia/ICN/Internet/ICN_Unitwide/WORKAREA/au_ed_in/templa)

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Merv Porter [SBS-MVP]

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"JJ" <JJ@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx> wrote in message  
<news:50C1294D-C96E-4A8E-A591-15D1828B6312@xxxxxxxxxxxxxxxxxxxx>

Hi Merv:

I can now see that my external NIC does indeed have a private IP address. It's my PPPoE adapter -which has been newly added to my configuration, since I had to enter my username/password for the PPPoE connection somewhere other than the modem - that has the public and static IP address. I had to run

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CEICW again after disabling the DHCP server on the modem which is a Siemens SpeedStream 6520.

Here's the new output of ipconfig /all, which was executed on SBS, encapsulated in a C-style comment:

```
/******
```

```
C:\Documents and Settings\Administrator>ipconfig /all
```

Windows IP Configuration

```
Host Name . . . . . : website
Primary Dns Suffix . . . . . : Internet-Centricity.local
Node Type . . . . . : Hybrid
IP Routing Enabled. . . . . : Yes
WINS Proxy Enabled. . . . . : No
DNS Suffix Search List. . . . . : Internet-Centricity.local
no-domain-set.bellcanada
```

Ethernet adapter Server Local Area Connection:

```
Connection-specific DNS Suffix . :
Description . . . . . : Intel(R) PRO/1000 PT Desktop Adapter
Physical Address. . . . . : 00-1B-21-02-DF-14
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 adapter Internet Connection:

```
Connection-specific DNS Suffix . : no-domain-set.bellcanada
Description . . . . . : VIA Rhine II Compatible Fast Ethernet
Ada
pter
Physical Address. . . . . : 00-13-8F-FE-CF-58
DHCP Enabled. . . . . : Yes
Autoconfiguration Enabled . . . : No
IP Address. . . . . : 192.168.2.11
Subnet Mask . . . . . : 255.255.255.0
Default Gateway . . . . . : 192.168.2.1
DHCP Server . . . . . : 192.168.2.1
DNS Servers . . . . . : 192.168.2.1
NetBIOS over Tcpip. . . . . : Disabled
Lease Obtained. . . . . : Sunday, September 16, 2007 19:34:16
Lease Expires . . . . . : Wednesday, September 19, 2007
```

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19:34:16

PPP adapter Bell Business Internet:

Connection-specific DNS Suffix . :  
Description . . . . . : WAN (PPP/SLIP) Interface  
Physical Address. . . . . : 00-53-45-00-00-00  
DHCP Enabled. . . . . : No  
IP Address. . . . . : 76.65.201.159  
Subnet Mask . . . . . : 255.255.255.255  
Default Gateway . . . . . : 76.65.201.159  
DNS Servers . . . . . : 67.69.184.199  
67.69.184.7  
NetBIOS over Tcpi. . . . . : Disabled

C:\Documents and Settings\Administrator>  
\*\*\*\*\*/

Should I change anything here?

Thanks.

"Merv Porter [SBS-MVP]" wrote:

I thought you had a router on your network. Your IP config (from a previous post) for the server indicated that you have 2 NICs and that the external one was assigned a static private IP address (192.168.2.11). Generally, this indicates that the modem is really a "modem-router". What make/model "modem" do you have?

Your Server ipconfig (from a previous post)

-----  
Windows IP Configuration

Host Name . . . . . : website  
Primary Dns Suffix . . . . . : Internet-Centricity.local  
Node Type . . . . . : Hybrid  
IP Routing Enabled. . . . . : Yes  
WINS Proxy Enabled. . . . . : No  
DNS Suffix Search List. . . . . : Internet-Centricity.local  
no-domain-set.bellcanada

Ethernet adapter Server Local Area Connection:

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Connection-specific DNS Suffix . :  
Description . . . . . : Intel(R) PRO/1000 PT Desktop  
Adapter  
Physical Address. . . . . : 00-1B-21-02-DF-14  
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 adapter Internet Connection:

Connection-specific DNS Suffix . :  
no-domain-set.bellcanada  
Description . . . . . : VIA Rhine II Compatible Fast  
Ethernet  
Ad  
pter  
Physical Address. . . . . : 00-13-8F-FE-CF-58  
DHCP Enabled. . . . . : Yes  
Autoconfiguration Enabled . . . : No  
IP Address. . . . . : 192.168.2.11  
Subnet Mask . . . . . : 255.255.255.0  
Default Gateway . . . . . : 192.168.2.1  
DHCP Server . . . . . : 192.168.2.1  
DNS Servers . . . . . : 192.168.16.2  
NetBIOS over Tcpi. . . . . : Disabled  
Lease Obtained. . . . . : Thursday, September 13, 2007  
21:50:19  
Lease Expires . . . . . : Monday, January 18, 2038  
23:14:07

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

"JJ" <JJ@xxxxxxxxxxxxxxxxxxxxxxxxxxxx> wrote in message  
[news:2D567D7A-99D0-4974-BDAC-2A2525793599@xxxxxxxxxxxxxxxxxxxx](mailto:news:2D567D7A-99D0-4974-BDAC-2A2525793599@xxxxxxxxxxxxxxxxxxxx)

Merv:

Are you sure that you want me to assign a  
static and private IP address  
to  
the external NIC? How will hosts on the  
Internet find my server?  
Remember,  
I

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connect to the Internet using the external  
NIC.

As of now, I have disabled the DHCP server  
on my modem. And the  
external  
NIC  
is set to "Obtain an IP Address  
Automatically". Isn't this the right  
way  
to  
do this?

Please clarify.

Thanks.

"Merv Porter [SBS-MVP]" wrote:

Hi JJ,

Here's a diagram of how  
your network should be  
physically set up:

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

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

Your ipconfig from an  
earlier posts shows that the  
external SBS NIC  
has  
been assigned a dynamic  
IP from your router's DHCP  
service. After  
you  
have the physical network  
set up correctly, from the  
SBS server access  
the  
web interface of the router  
(192.168.2.1) and turn off  
DHCP on the  
router.

Then from the SBS server:

My Network Places |  
Properties | External NIC |

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Properties | Internet  
Protocol (TCP/IP) |  
Properties | assign a (static)  
IP of 192.168.2.11  
and  
enter 192.168.16.2 as the  
(static) Preferred DNS  
server.

Now, check the SBS server  
NIC bindings:

---

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

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 (check  
marked)  
to the TCP/IP Protocol.

The Internal NIC should  
have Client for Microsoft  
Networks bound  
(check  
marked) to the TCP/IP  
Protocol.

The External NIC should be  
bound to TCP/IP only (no  
other protocols or  
services).

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After everything is set up  
properly, re-run CEICW

CEICW Walkthrough  
<http://www.sbs-rocks.com/sbs2k3/sbs2k3-n2.htm>

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On the Firewall screen,  
make sure you enable the  
firewall, select the  
services you want, create the  
Web Server Certificate and  
finish the  
rest  
of  
CEICW.

At that point, the SBS server  
should be handling DHCP  
for your LAN.

Also, make sure that the  
firewall client of ISA has  
been installed on  
each  
workstation (but not on the  
server itself).

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

"JJ"  
<JJ@xxxxxxxxxxxxxxxxxxxxxxxxxxxx>  
wrote in message  
[news:28E18A68-C94D-46FB-99DE-B5A8C557A2FB@xxxxxxxxxxxxxxxxxxxx](mailto:news:28E18A68-C94D-46FB-99DE-B5A8C557A2FB@xxxxxxxxxxxxxxxxxxxx)

The kind of  
networking  
people I get  
here would  
introduce  
spyware/trojans/rootkits  
into my PCs  
to control  
them so that  
they  
can  
get  
more  
business  
from me.  
So, that's  
not an  
option.

The DSL  
router that

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I'm using  
does have a  
static and  
public IP  
address  
on  
it's WAN  
interface.  
The  
192.168.2.1  
address is  
where it  
hosts an  
embedded  
HTTP  
server for  
administering  
the router.  
The DHCP  
server on  
the  
router  
assigns the  
static IP  
address  
192.168.16.2  
to my SBS  
PC. I would  
like  
to  
turn  
off the  
DHCP  
server on  
the router as  
per your  
suggestion.  
However,  
my  
ISA  
Server is  
blocking  
access to  
192.168.2.1  
– the  
router's  
HTTP  
server.  
What  
kind of  
rules should

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I create on  
my ISA  
Server to  
allow this?

Thanks.

"Steve"  
wrote:

Sorry  
but  
this  
is  
getting  
more  
confusing  
all  
the  
time.  
The  
SBS  
NIC(s)  
should  
have  
static  
IPs  
assigned  
to  
them  
that  
are  
appropriate  
for  
the  
IP  
range(s)  
being  
used.  
The  
DSL  
router  
should  
not  
have  
DHCP  
on.  
SBS  
should

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run  
DHCP.  
Is  
your  
DSL  
router  
receiving  
a  
public  
IP  
on  
its  
WAN  
interface?  
I'm  
not  
sure  
how  
it  
can  
be  
using  
both  
a  
192.168.16.x  
and  
192.168.2.x  
range?

I  
think  
it  
may  
be  
time  
to  
bring  
in  
outside  
help  
by  
someone  
knowledgeable  
about  
SBS  
and  
general  
networking  
to  
help  
you

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sort  
this  
out.

"JJ"

<JJ@xxxxxxxxxxxxxxxxxxxxxxxxxxxx>

wrote

in

message

[news:E25B0418-EC99-41EF-B0FB-82E7C0459132@xxxx](mailto:news:E25B0418-EC99-41EF-B0FB-82E7C0459132@xxxx)

Steve:

The  
DSL  
modem  
has  
to  
have  
DHCP  
running.

SBS  
has  
to  
have  
an  
IP  
address  
that  
my  
DSL  
router  
assigned  
to  
it.

Otherwise,  
how  
will  
the  
DSL  
router