

## Re: Non-domain connection problem

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*Source:*

<http://www.tech-archive.net/Archive/Windows/microsoft.public.windows.server.sbs/2006-02/msg03335.html>

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- *From:* "Gregg Hill" <[bogus@xxxxxxxxxxxxx](mailto:bogus@xxxxxxxxxxxxx)>
  - *Date:* Fri, 17 Feb 2006 18:14:17 -0800
- 

Wow! I questioned that in my first response. Let me introduce you to a friend of mine:

<http://www.microsoft.com/downloads/details.aspx?FamilyId=0A6D4C24-8CBD-4B35-9272-DD3CBFC81887&dis>

The GPMC should help you in the future. By the way, it is built into SBS 2003 on the admin tools menu.

Gregg Hill

"Liam" <[Liam@xxxxxxxxxxxxxxxxxxxxxxxxxxxxx](mailto:Liam@xxxxxxxxxxxxxxxxxxxxxxxxxxxxx)> wrote in message [news:E01879EF-4BDC-485C-A167-48231E4ADC69@xxxxxxxxxxxxxxxxxxxxx](mailto:news:E01879EF-4BDC-485C-A167-48231E4ADC69@xxxxxxxxxxxxxxxxxxxxx)

Hi Gregg,

You are correct. For some reason the DNS is persistent.  
I figured it out.

I built a test pc and did the following:

1. connect new PC to the internet from the non-domain network: SUCCESS
2. connect new PC to the internet as a WORKGROUP from the domain network: SUCCESS
3. connect new PC to the internet from the non-domain network: SUCCESS
4. connect PC to the Domain as a client. connect ot the internet: SUCCESS
5. connect PC to the internet from a non-domain network: fail

As it turns out, someone had created a GPO for the clients to always use the internal DNS and DNS suffix. This only was a problem AFTER they had been

members of the domain.

When I checked the gpo policy from start-->run-->gpedit.msc I had nothing

configured!!! But this is only valid to see the LOCAL machine (Ie:- the SBS

server2003) this did NOT show any policies created for the domain clients!

I had to go administrative tools-->site etc and then look at the GPO's.

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In server 2000 gpedit.msc showed them but in SBS it is different.

Therefore, there WAS a GPO forcing clients to use the local DNS: ALWAYS!  
remote or locally.  
What a pain in the neck!

Thanks for your help on this. It is now settled (after 4 hours on the  
horn  
with the great women and men from Microsoft!

What an as\* i feel like.

Thanks for all your help and input: Gregg and Crina!

Liam

any questions or comments email me.

"Gregg Hill" wrote:

Liam,

I thought you were talking about home users behind home routers, not SBS  
at  
home. Not that it matters, since it should still work no matter where the  
system is located.

You said that you "hard coded the DNS server to a known DNS on the  
internet:  
24.207.7.6," but the ipconfig output you posted does not show that DNS  
server. Why not?

Gregg Hill

"Liam" <Liam@xxxxxxxxxxxxxxxxxxxxxxxxxxxx> wrote in message  
news:A111355D-D341-486D-99CC-E6A287DD3BC7@xxxxxxxxxxxxxxxxxxxx

Hi Gregg,

This output is from the HOME LAN. I use SBS2003  
Premium edition.  
The subnet at work is 192.168.10.13 with a gateway of  
192.168.10.15  
All addressing typically comes from the domain controller.

Yesterday I even hardcoded the DNS of a local ISP into the  
TCP/IP  
properties  
to confirm that the Nameserver is not changing from the

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work DNS.

So today I have re-installed XPPro onto a new machine.  
I am going to do the following:

\*\*Before becoming a Client in the domain:  
Connect to Internet from external network  
Connect to Internet from Internal Network

\*\*After becoming a client on the Domain  
Connect to Internet from external network  
Connect to Internet from Internal Network

If I can still connect then I will install VPN software to see if  
that  
is  
the  
culprit.

"Gregg Hill" wrote:

Liam,

This output looks as though it is from a  
system connected to the work  
LAN.  
Notice that the default gateway and DNS IP  
addresses are different, as  
well  
as the fact that there is a WINS server listed.

What is the ipconfig from the system when it  
is on a home router? A  
typical  
home system would have 192.168.0.1 or  
192.168.1.1 as the default  
gateway  
and  
the DNS server, with no WINS listed.

Gregg Hill

"Liam"  
<Liam@xxxxxxxxxxxxxxxxxxxxxxxxxxxx>  
wrote in message  
[news:8D9456C0-7981-4894-9E90-0098C9A565AD@xxxxxxxxxxxxxxxxxxxx](mailto:news:8D9456C0-7981-4894-9E90-0098C9A565AD@xxxxxxxxxxxxxxxxxxxx)

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Microsoft Windows XP  
[Version 5.1.2600]  
(C) Copyright 1985-2001  
Microsoft Corp.

C:\Documents and  
Settings\lhawthorne>ipconfig  
/all

Windows IP Configuration

Host Name . . . . . :  
it-test-pc  
Primary Dns Suffix . . . . . :  
: megastream.local  
Node Type . . . . . :  
Hybrid  
IP Routing Enabled. . . . . :  
. . : Yes  
WINS Proxy Enabled. . . . . :  
. . . : No  
DNS Suffix Search List. . . . . :  
. . . : megastream.local

Ethernet adapter Local Area  
Connection:

Connection-specific DNS  
Suffix . . : hoth.local  
Description . . . . . :  
via Rhine III Fast  
ethernet  
adapter  
Physical Address. . . . . :  
: 03-E0-18-F1-94-98  
Dhcp Enabled. . . . . :  
Yes  
Autoconfiguration Enabled .  
. . . : Yes  
IP Address. . . . . :  
192.168.2.11  
Subnet Mask . . . . . :  
255.255.255.0  
Default Gateway . . . . . :  
: 192.168.2.1  
DHCP Server . . . . . :  
: 192.168.2.185  
DNS Servers . . . . . :  
192.168.2.185  
Primary WINS Server . . . . .

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. . . : 192.168.2.185  
Lease Obtained. . . . . :  
February 14, 2006  
12:31:39  
PM  
Lease Expires . . . . . :  
February 22, 2006  
12:31:39  
PM

I hard coded the DNS server  
to a known DNS on the  
internet:  
24.207.7.6  
Again this had no effect on  
the ability to connect to the  
internet.

Thnkas for your help,

Liam

"Gregg Hill" wrote:

Liam,

After you  
do the  
following  
off the  
domain and  
on home  
router

```
ipconfig  
/release  
SUCCESS!  
ipconfig  
/flushdns  
SUCCESS!  
ipconfig  
/renew  
SUCCESS!
```

please post  
the output  
from

```
ipconfig /all
```

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Gregg Hill

"Liam"

<Liam@xxxxxxxxxxxxxxxxxxxxxxxxxxxx>

wrote in  
message

news:FFB0421E-77AF-410B-91C9-3AE47E9A9306@xxxxxxxxxx

Hi  
Gregg,

Thanks  
for  
the  
help.  
DHCP  
is  
"pure".  
At  
home  
it  
is  
from  
the  
routers  
at  
work  
it  
is  
from  
the  
SBS  
box.

There  
are  
few  
fixed  
IP's  
(3  
servers,  
2  
routers).

IPconfig  
/release  
/renew  
/flush  
dbs

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seem  
to  
have  
no  
effect  
on  
the  
connectivity.  
NSLOOKUP  
always  
looks  
for  
the  
SBS  
as  
the  
default  
gateway.

The  
wonder  
of  
all  
of  
this  
is  
that  
it  
worked  
without  
error  
for  
8  
moths.  
When  
I  
put  
the  
server  
2003  
box  
on  
the  
network  
seems  
to  
have  
caused  
these  
problems.

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I  
ran  
gpedit  
and  
all  
the  
gpo's  
are  
"not  
configured"  
which  
is  
as  
it  
should  
be.

I  
currently  
have  
a  
laptop  
here  
that  
is  
off  
the  
domain.  
ipconfig  
/release  
SUCCESS!  
ipconfig  
/flushdns  
SUCCESS!  
ipconfig  
/renew  
SUCCESS!

Connect  
to  
Internet...fail!

The  
client  
software  
is  
Symantec  
VPN  
(same  
as  
our

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router/gateway)

There  
are  
no  
settings  
for  
"allow  
remote  
gateway".  
But

,  
again...this  
worked  
fine  
for  
at  
least  
8  
months  
until  
the  
Server  
2003  
was  
placed  
on  
the  
network.

?

"Gregg  
Hill"  
wrote:

Liam,

Are  
you  
using  
pure  
DHCP  
both  
at  
work  
and  
home  
(NO  
fixed  
address

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anywhere)?

Make

sure

you

have

no

fixed

IP

addresses

for

DNS

servers.

You

**\*\*should\*\***

be

able

to

use

a

batch

file

with

"ipconfig

/release

&&

ipconfig

/renew"

in

it

to

make

it

easy

for

the

end

users

to

release/renew

the

address.

As

long

as

no

fixed

settings

are

there,

and

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as  
long  
as  
the  
user's  
home  
router  
is  
configured  
properly,  
it  
should  
get  
the  
correct  
addressing.

What  
is  
the  
result  
of  
taking  
the  
laptop  
off  
the  
network,  
then  
running  
"ipconfig  
/release"  
followed  
by  
an  
"ipconfig  
/all"  
command?  
Please  
post  
your  
results  
here.

Do  
you  
have  
any  
GPOs  
forcing  
IP

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settings?

Gregg  
Hill

"Liam"

<Liam@xxxxxxxxxxxxxxxxxxxxxxxxxxxx>

wrote

in

message

<news:62108E7B-8810-4660-8D3A-22A0ABDCB6>

Crina  
Li,

Thank  
you  
so  
much  
for  
replying  
and  
attempting  
to  
help  
me  
solve  
my  
challenge.

I  
have  
done  
everything  
you  
have  
asked  
and  
still  
remote  
clients  
cannot  
find  
a  
dns  
server  
other  
than

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the  
Primary  
Domain  
Controller  
on  
the  
domain.

I  
am  
sure  
that  
I  
need  
to  
find  
a  
way  
to  
"change  
the  
default  
gateway  
on  
the  
remote  
PC"  
Since  
the  
default  
gateway  
is  
ALWAYS  
the  
domain  
controller  
of  
the  
SBS  
domain!  
From  
home  
this  
is  
a  
real  
problem.

""Crina  
Li""

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wrote:

Hi  
Liam,

Thank  
you  
for  
posting  
in  
SBS  
newsgroup.

From  
the  
description,  
I  
understand  
the  
issue  
to  
be:  
you  
want  
to  
let  
the  
laptop  
can  
surf  
internet  
from  
home  
without  
going  
through  
SBS.

If  
I  
have  
misunderstood  
your  
concerns,  
please  
do  
not  
hesitate  
to  
let  
me

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know.

As  
I  
know,  
when  
a  
laptop  
which  
is  
set  
to  
obtain  
an  
IP  
address  
automatically  
connects  
to  
your  
network,  
it  
should  
contact  
the  
SBS  
server  
for  
an  
IP  
address  
(including  
DNS  
and  
other  
settings)  
and  
then  
it  
can  
browse  
the  
internal  
network  
and  
Internet  
web  
sites.  
When  
the  
laptop

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disconnects  
from  
the  
network  
cable,  
all  
IP  
configuration  
should  
be  
deleted  
by  
the  
system  
automatically.

Currently,  
we  
can  
check  
the  
following  
configuration  
on  
laptop:

1.  
IE  
setting:

1)  
Open  
IE  
and  
then  
Click  
Internet  
Options  
on  
Tools  
menu.

2)  
Click  
Connections  
and  
then  
click  
LAN  
settings.

3)  
Check

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if  
you  
have  
selected  
Automatically  
detect  
settings.

4)  
Please  
do  
not  
use  
Proxy  
server  
to  
see  
how  
thing  
goes.

2.  
IP  
address  
and  
DNS  
settings:

1)  
Right  
click  
My  
Network  
Places  
and  
select  
Properties.

2)  
Open  
the  
properties  
of  
the  
Network  
Connection  
you  
are  
using  
to  
connect  
to  
internet

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on  
home.  
3)  
Select  
TCP/IP  
and  
then  
click  
Properties.  
4)  
Have  
you  
specified  
the  
SBS  
as  
the  
DNS  
server?  
5)  
Make  
sure  
you  
have  
selected  
Obtain  
an  
IP  
address  
automatically  
and  
Obtain  
DNS  
server  
address  
automatically  
if  
you  
are  
obtaining  
the  
IP  
and  
DNS  
from  
ISP  
automatically  
when  
you  
surf  
internet

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at  
home.  
6)  
Click  
Advanced  
and  
then  
check  
if  
you  
have  
configured  
SBS  
on  
it.

If  
you  
do  
want  
release  
an  
IP  
address,  
you  
can  
use  
the  
following  
command:

```
ipconfig  
/release
```

```
ipconfig  
/renew
```

Hope  
it  
helps  
and  
I  
look  
forward  
to  
hearing  
from  
you.

Best  
regards,

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Crina  
Li  
(MSFT)

Microsoft  
CSS  
Online  
Newsgroup  
Support

Get  
Secure!

–

[www.microsoft.com/security](http://www.microsoft.com/security)