

Re: Intermittent Network Connections

Source:

<http://www.tech-archive.net/Archive/Windows/microsoft.public.windows.server.sbs/2004-09/4081.html>

From: DaveIM (*DaveIM_at_discussions.microsoft.com*)

Date: 09/14/04

Date: Tue, 14 Sep 2004 02:15:08 -0700

Chris,

I've just reconnected the Server LAN nic 1 to the ethernet switch (the same one shared by the clients on the LAN) so that it is not directly connected to the router and the connections are still being lost. The router is also hung off the same ethernet switch. As the router is defined as the gateway (to the external network) has this change really made a difference. Do I need to set SBS as the gateway on all the client PC's and set SBS to use the router IP as it's Internet gateway?

Server IP config and Client IP config (all) attached.

<<SERVER>>

Microsoft Windows [Version 5.2.3790]
(C) Copyright 1985-2003 Microsoft Corp.

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

Windows IP Configuration

Host Name : tobsbs001
Primary Dns Suffix : TimOBrienACA.local
Node Type : Unknown
IP Routing Enabled. : No
WINS Proxy Enabled. : Yes
DNS Suffix Search List. : TimOBrienACA.local

Ethernet adapter Server Local Area Connection:

Connection-specific DNS Suffix . : TimOBrienACA.local
Description : Intel(R) PRO/1000 MT Network Connection
Physical Address. : 00-C0-9F-3C-52-5F
DHCP Enabled. : No
IP Address. : 192.168.1.5
Subnet Mask : 255.255.255.0
Default Gateway : 192.168.1.1
DNS Servers : 192.168.1.5

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Primary WINS Server : 192.168.1.5

<<CLIENT>>

Microsoft Windows 2000 [Version 5.00.2195]
(C) Copyright 1985–2000 Microsoft Corp.

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

Windows 2000 IP Configuration

Host Name : REKHA-DESKTOP
Primary DNS Suffix : TimOBrienACA.local
Node Type : Hybrid
IP Routing Enabled. : No
WINS Proxy Enabled. : No
DNS Suffix Search List. : TimOBrienACA.local

Ethernet adapter Local Area Connection:

Connection-specific DNS Suffix . : TimOBrienACA.local
Description : 3Com 3C920 Integrated Fast

Ethernet

Controller (3C905C-TX Compatible)

Physical Address. : 00-06-5B-10-F4-B6
DHCP Enabled. : Yes
Autoconfiguration Enabled : Yes
IP Address. : 192.168.1.119
Subnet Mask : 255.255.255.0
Default Gateway : 192.168.1.1
DHCP Server : 192.168.1.5
DNS Servers : 192.168.1.5
Primary WINS Server : 192.168.1.5
Lease Obtained. : 14 September 2004 04:26:39
Lease Expires : 15 September 2004 04:26:39

Cheers,

Dave

"CRIS HANNA (SBS-MVP)" wrote:

- > *Essentially the problem that you're having is name resolution because your relying on the router to do DNS*
- >
- > *When you don't configure everything to run through SBS you will have this problem...whether you run 1 nic*
- > *or two (recommended)*
- >
- > *Outside dns knows nothing of your inside pcs and so routing does not work well inside the lan without this.*
- >
- > --

Re: Intermittent Network Connections

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> *Cris Hanna (SBS-MVP)*

>

> *Please only respond in the Newsgroup and not directly to me, so that everyone can share the information*

> *"DaveIM" <DaveIM@discussions.microsoft.com> wrote in message*

> *news:FCF24C17-E08D-4585-9381-B42924DE1B43@microsoft.com...*

> *Chris, thanks for your reply.*

>

> *I have 1 nic and it's connected to Linksys WRV54g Wireless router, which in*

> *turn is connected to an ADSL modem out to the internet The clients connect to*

> *the SBS via the router and browse the internet without going through SBS. The*

> *all have Symantec Client security 2.0 installed (AV and firewall) and SBS has*

> *the Symantec Exchange client and AV software on it.*

>

> *It is planned at a later date to connect the 2nd nic up (it's currently*

> *disabled) and reconfigure web access through SBS.*

>

> *I look forward to your reply,*

>

> *Cheers,*

>

> *Dave*

>

> *"CRIS HANNA (SBS-MVP)" wrote:*

>

>> *How many nics in your server*

>>

>> *Do your server and all you workstations directly connected to a Cable DSL router??*

>>

>> --

>> *Cris Hanna (SBS-MVP)*

>>

>> *Please only respond in the Newsgroup and not directly to me, so that everyone can share the information*

>> *"DaveIM" <DaveIM@discussions.microsoft.com> wrote in message*

>> *news:F648C681-1789-4A25-B1D2-ACAF2324CC8B@microsoft.com...*

>> *I have SBS2003 set up with 5 Win2k clients. All PC's and users were added*

>> *using the SBS wizards. I have set up shares to folders on the server with*

>> *read/write/delete access. The PC's were formally part of a workgroup.*

>>

>> *Clients can sucessfully log in but periodically loose their connections.*

>> *They then can establish then again without any intervention and thee time*

>> *between losing the connection and reestablishing it varies. Even when a*

>> *client loses the connection to the shares on the server Outlook remains*

>> *connected to the Exchange server.*

>>

>> *I've attached output from net diag run of the server and on one of the*

>> *clients. Some ideas on what is happening would be appreciated.*

>>

>> *Client Netdiag output:*

>>

>> *Computer Name: TIM-LAPTOP*

>> *DNS Host Name: TIM-LAPTOP.TimOBrienACA.local*

> > *System info : Windows 2000 Professional (Build 2195)*
> > *Processor : x86 Family 6 Model 11 Stepping 1, GenuineIntel*
> > *List of installed hotfixes :*
> > *KB329115*
> > *KB823182*
> > *KB823559*
> > *KB824105*
> > *KB825119*
> > *KB826232*
> > *KB828035*
> > *KB828741*
> > *KB828749*
> > *KB835732*
> > *KB837001*
> > *KB839643*
> > *KB839645*
> > *KB840315*
> > *KB841872*
> > *KB841873*
> > *KB842526*
> > *Q147222*
> > *Q828026*
> >
> >
> > *Netcard queries test : Passed*
> >
> >
> >
> > *Per interface results:*
> >
> > *Adapter : LAN*
> >
> > *Netcard queries test . . . : Passed*
> >
> > *Host Name. : TIM-LAPTOP.TimObrienACA.local*
> > *IP Address : 192.168.1.114*
> > *Subnet Mask. : 255.255.255.0*
> > *Default Gateway. : 192.168.1.1*
> > *Primary WINS Server. . . . : 192.168.1.5*
> > *Dns Servers. : 192.168.1.5*
> >
> >
> > *AutoConfiguration results. : Passed*
> >
> > *Default gateway test . . . : Passed*
> >
> > *NetBT name test. : Passed*
> >
> > *WINS service test. : Passed*
> >
> > *Ipx configuration*

```
> > Network Number . . . . : 00000000
> > Node . . . . . : 00c09f048a60
> > Frame type . . . . . : 802.2
> >
> >
> > Adapter : IPX Internal Interface
> >
> > Netcard queries test . . . : Passed
> >
> > Ipx configuration
> > Network Number . . . . : 00000000
> > Node . . . . . : 000000000001
> > Frame type . . . . . : Ethernet II
> >
> >
> > Adapter : IpxLoopbackAdapter
> >
> > Netcard queries test . . . : Passed
> >
> > Ipx configuration
> > Network Number . . . . : 1234cdef
> > Node . . . . . : 000000000002
> > Frame type . . . . . : 802.2
> >
> >
> > Adapter : NDISWANIPX
> >
> > Netcard queries test . . . : Passed
> >
> > Ipx configuration
> > Network Number . . . . : 00000000
> > Node . . . . . : 909320524153
> > Frame type . . . . . : Ethernet II
> >
> >
> >
> > Global results:
> >
> >
> > Domain membership test . . . . . : Passed
> >
> >
> > NetBT transports test. . . . . : Passed
> > List of NetBt transports currently configured:
> > NetBT_Tcpip_{837A4CB6-EEE2-4C7C-B45A-49711AA7C55E}
> > 1 NetBt transport currently configured.
> >
```

```
>>
>> Autonet address test . . . . . : Passed
>>
>>
>> IP loopback ping test. . . . . : Passed
>>
>>
>> Default gateway test . . . . . : Passed
>>
>>
>> NetBT name test. . . . . : Passed
>>
>>
>> Winsock test . . . . . : Passed
>>
>>
>> DNS test . . . . . : Passed
>>
>>
>> Redir and Browser test . . . . . : Failed
>> List of NetBt transports currently bound to the Redir
>> NetBT_Tcpip_{837A4CB6-EEE2-4C7C-B45A-49711AA7C55E}
>> The redir is bound to 1 NetBt transport.
>>
>> List of NetBt transports currently bound to the browser
>> NetBT_Tcpip_{837A4CB6-EEE2-4C7C-B45A-49711AA7C55E}
>> The browser is bound to 1 NetBt transport.
>> [FATAL] Cannot send mailslot message to 'TIMOBRIENACA*' via browser.
>> [ERROR_
>> BAD_NETPATH]
>>
>>
>> DC discovery test. . . . . : Passed
>>
>>
>> DC list test . . . . . : Failed
>> Failed to enumerate DCs by using the browser.
>> [ERROR_NO_BROWSER_SERVERS_
>> FOUND]
>>
>>
>> Trust relationship test. . . . . : Passed
>> Secure channel for domain 'TIMOBRIENACA' is to
>> \\tobsbs001.TimOBrienACA.loc
>> al'.
>>
>>
>> Kerberos test. . . . . : Failed
>> [FATAL] Kerberos does not have a ticket for TIM-LAPTOP$.
>>
>>
```

```
> > LDAP test. . . . . : Passed
> >
> >
> > Bindings test. . . . . : Passed
> >
> >
> > WAN configuration test . . . . . : Skipped
> > No active remote access connections.
> >
> >
> > Modem diagnostics test . . . . . : Passed
> >
> >
> > Netware configuration
> > You are not logged in to your preferred server .
> > Netware User Name. . . . . :
> > Netware Server Name. . . . . :
> > Netware Tree Name. . . . . :
> > Netware Workstation Context. . :
> >
> > IP Security test . . . . . : Passed
> > IPSec policy service is active, but no policy is assigned.
> >
> >
> > The command completed successfully
> >
> > C:\Program Files\Support Tools>[FATAL] Cann
> > '[FATAL]' is not recognized as an internal or external command,
> > operable program or batch file.
> >
> > C:\Program Files\Support Tools>NETPATH][FATAL] Cann
> > 'NETPATH][FATAL]' is not recognized as an internal or external command,
> > operable program or batch file.
> >
> > C:\Program Files\Support Tools>NETPATH]
> >
> >
> >
> > Server Netdiag output follows:
> >
> > Computer Name: TOBSBS001
> > DNS Host Name: tobsbs001.TimOBrienACA.local
> > System info : Windows 2000 Server (Build 3790)
> > Processor : x86 Family 15 Model 2 Stepping 9, GenuineIntel
> > List of installed hotfixes :
> > KB819696
> > KB822132
> > KB822742
> > KB822743
> > KB822744
```

> > KB822745
> > KB822925
> > KB823182
> > KB823353
> > KB823559
> > KB823980
> > KB824073
> > KB824105
> > KB824139
> > KB824141
> > KB824146
> > KB825117
> > KB825119
> > KB826238
> > KB826936
> > KB828035
> > KB828741
> > KB830352
> > KB831464
> > KB835732
> > KB837001
> > KB837272
> > KB839643
> > KB839643-DirectX9
> > KB839645
> > KB840315
> > KB840374
> > KB867460
> > KB867801
> > Q147222
> > Q828026
> >
> >
> > Netcard queries test : Passed
> >
> >
> >
> > Per interface results:
> >
> > Adapter : Server Local Area Connection
> >
> > Netcard queries test . . . : Passed
> >
> > Host Name. : tobsbs001.TimOBrienACA.local
> > IP Address : 192.168.1.5
> > Subnet Mask. : 255.255.255.0
> > Default Gateway. : 192.168.1.1
> > Primary WINS Server. : 192.168.1.5
> > Dns Servers. : 192.168.1.5
> >
> >

```
> > AutoConfiguration results. . . . . : Passed
> >
> > Default gateway test . . . : Passed
> >
> > NetBT name test. . . . . : Passed
> >
> > WINS service test. . . . . : Passed
> >
> >
> > Global results:
> >
> >
> > Domain membership test . . . . . : Passed
> >
> >
> > NetBT transports test. . . . . : Passed
> > List of NetBt transports currently configured:
> > NetBT_Tcpip_{2295087C-A4E8-4CE0-8007-36A5A3D3A20D}
> > 1 NetBt transport currently configured.
> >
> >
> > Autonet address test . . . . . : Passed
> >
> >
> > IP loopback ping test. . . . . : Passed
> >
> >
> > Default gateway test . . . . . : Passed
> >
> >
> > NetBT name test. . . . . : Passed
> >
> >
> > Winsock test . . . . . : Passed
> >
> >
> > DNS test . . . . . : Passed
> > PASS – All the DNS entries for DC are registered on DNS server
> > '192.168.1.5'
> > .
> >
> >
> > Redir and Browser test . . . . . : Passed
> > List of NetBt transports currently bound to the Redir
> > NetBT_Tcpip_{2295087C-A4E8-4CE0-8007-36A5A3D3A20D}
> > The redir is bound to 1 NetBt transport.
> >
> > List of NetBt transports currently bound to the browser
> > NetBT_Tcpip_{2295087C-A4E8-4CE0-8007-36A5A3D3A20D}
> > The browser is bound to 1 NetBt transport.
> >
```

```
>>
>> DC discovery test. . . . . : Passed
>>
>>
>> DC list test . . . . . : Passed
>>
>>
>> Trust relationship test. . . . . : Skipped
>>
>>
>> Kerberos test. . . . . : Passed
>>
>>
>> LDAP test. . . . . : Passed
>>
>>
>> Bindings test. . . . . : Passed
>>
>>
>> WAN configuration test . . . . . : Skipped
>> No active remote access connections.
>>
>>
>> Modem diagnostics test . . . . . : Failed
>> [FATAL] Cannot initialize TAPI. Failed with error(0x80000048).
>>
>> IP Security test . . . . . : Skipped
>>
>> Note: run "netsh ipsec dynamic show /?" for more detailed information
>>
>>
>> The command completed successfully
>>
```