

Re: Dual NIC vs Single NIC

Source:

<http://www.tech-archive.net/Archive/Windows/microsoft.public.windows.server.sbs/2008-03/msg01356.html>

- *From:* v-terliu@xxxxxxxxxxxxxxxxxxxxxx (Terence Liu [MSFT])
 - *Date:* Tue, 11 Mar 2008 03:31:46 GMT
-

Hello SuperGumby,

Thank you for helping me to correct the misunderstand of DNS query process.

Thank you again for your supplement about the client DNS cache issue. I hope all of them are help for Joe.

Have a nice day.

Best regards,

Terence Liu(MSFT)

Microsoft CSS Online Newsgroup Support

Get Secure! – www.microsoft.com/security

=====
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For urgent issues, you may want to contact Microsoft CSS directly. Please check <http://support.microsoft.com> for regional support phone numbers.

Re: Dual NIC vs Single NIC

Any input or comments in this thread are highly appreciated.

=====

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| From: "SuperGumby [SBS MVP]" <not@xxxxxxxxxxxx>
| References: <FA164BBD-4DB2-452C-ADF2-9AE5BCEA6430@xxxxxxxxxxxxxx>
<ebEUjefIHA.2540@xxxxxxxxxxxxxxxxxxxxxx>
<33796A03-8F47-4D52-AC09-1046343B1ABA@xxxxxxxxxxxxxx>
<ekU3IVsfIHA.3940@xxxxxxxxxxxxxxxxxxxxxx>
<26E842FE-6BEF-4E0F-BE4E-B60A50CB6D3A@xxxxxxxxxxxxxx>
<vw0WxA0fIHA.6616@xxxxxxxxxxxxxxxxxxxxxx>
<#r7HpK0fIHA.4684@xxxxxxxxxxxxxxxxxxxxxx>
<A6\$VBqAgIHA.5204@xxxxxxxxxxxxxxxxxxxxxx>
<#wOI0JCgIHA.484@xxxxxxxxxxxxxxxxxxxxxx>
<9ZSSxzpgIHA.4672@xxxxxxxxxxxxxxxxxxxxxx>
| Subject: Re: Dual NIC vs Single NIC
| Date: Mon, 10 Mar 2008 23:21:40 +1100
| Lines: 657
| X-Priority: 3
| X-MSMail-Priority: Normal
| X-Newsreader: Microsoft Outlook Express 6.00.3790.3959
| X-MimeOLE: Produced By Microsoft MimeOLE V6.00.3790.4133
| X-RFC2646: Format=Flowed; Original
| Message-ID: <#SwFNlqgIHA.5752@xxxxxxxxxxxxxxxxxxxxxx>
| Newsgroups: microsoft.public.windows.server.sbs
| NNTP-Posting-Host: cpe-121-217-134-196.nsw.bigpond.net.au 121.217.134.196
| Path: TK2MSFTNGHUB02.phx.gbl!TK2MSFTNGP01.phx.gbl!TK2MSFTNGP03.phx.gbl
| Xref: TK2MSFTNGHUB02.phx.gbl microsoft.public.windows.server.sbs:97405
| X-Tomcat-NG: microsoft.public.windows.server.sbs

| G'day Terence,

| we all learn my friend, and I am glad to see your response, not for
the
| 'admitted mistake' but to see that you have gone looking for the right
| answers.

| You also now explain why and the possible 'workarounds'. High points
for
| doing so.

| You are not the 1st, nor last, person to misunderstand this before
| looking more closely at the process.

| I will again argue that turning off the client DNS cache (0 refresh
| time) is not a good idea, causing the DNS client to pass all queries to a
| server rather than using locally cached information may slow things down.
| This argument results in what I consider a 'foregone conclusion', AD
members

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| should _only_ look to AD aware DNS servers for name resolution (WINS is
| almost dead, and the Browser Service should be dead but is needed in some
| circumstances). Processes which require name resolution will normally
'fall
| back' through available name resolution methods, it is the timeouts and
| delays that cause us grief. If a name isn't available by one mechanism,
or
| appears not to be available (slow DNS response), it is likely that the OS
| will satisfy the query by another mechanism but this may happen outside
the
| application's timeout period. If the app regenerates the query and cached
| information is available the query will not timeout.

|
| "Terence Liu [MSFT]" <v-terliu@xxxxxxxxxxxxxxxxxxxxxx> wrote in message
| news:9ZSSxzpgIHA.4672@xxxxxxxxxxxxxxxxxxxxxxxxxx
| > Hello SuperGumby and Joe,
| >
| > I'm sorry for the delay response and I had discussed this DNS query
issue
| > with DNS support engineers.
| >
| > I need to say I'm wrong. I was misunderstanding the DNS query process. I
| > get the KB261968 to describe this process.
| >
| > 261968 Explanation of the Server List Management Feature in the Domain
| > Name
| > <http://support.microsoft.com/?id=261968>
| >
| > We can configure an external DNS server entry in the clients TCP/IP
| > properties as an alternate DNS. The clients will be able to access the
| > Internet when the SBS server is offline. However, after we reload the
SBS
| > server into the network, we need to reboot the client computers so that
| > the
| > clients will go back to use the SBS server as DNS service provider.
| >
| > If you are using Windows 2000 or Windows XP as the client OS, the
| > computers
| > will build a DNS server search list. This mechanism is used to improve
the
| > DNS query performance of the client computers. All the DNS servers you
| > configured for the client computer will be put into the list. The client
| > computer queries the DNS server from the top of the list. If there is no
| > response from the first DNS server, the client computer will then query
| > the
| > second DNS server and move the first DNS server to the bottom of the
list.
| > This causes the DNS query still goes to the second server after
recovering
| > the primary server.
| >

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|> More information:
|> How DNS query works
|>
|> [http://www.microsoft.com/resources/documentation/WindowsServ/2003/standard/p
roddocs/en-us/sag_DNS_und_HowDnsWorks.asp](http://www.microsoft.com/resources/documentation/WindowsServ/2003/standard/p
roddocs/en-us/sag_DNS_und_HowDnsWorks.asp)
|>
|>
|> [http://www.microsoft.com/resources/documentation/WindowsServ/2003/standard/p
roddocs/en-us/sag_DNS_ovr_ClientFeatures.asp](http://www.microsoft.com/resources/documentation/WindowsServ/2003/standard/p
roddocs/en-us/sag_DNS_ovr_ClientFeatures.asp)
|>
|> 135919 DNS Server Search Order Functionality in Windows
|> <http://support.microsoft.com/?id=135919>
|>
|>
|> Hello Joe,
|>
|> I'm sorry for my mistake.
|>
|> I would suggest that we have a second DC in the SBS domain. The second
DC
|> would also have to be a DNS server and a GC, and as long as it's DNS its
|> set as secondary for the clients, the clients should still be able to
|> authenticate using the second DC if SBS goes down. Of course there
would
|> be
|> no access to any resources hosted on SBS, such as Exchange or the User
|> shared folders.
|>
|> As to the DNS query doesn't get back to the first listed DNS server
issue,
|> DNS client will use a single server (per NIC) and not change that server
|> unless it gets no response. When it receives no response from the
primary
|> DNS server on a NIC it will loop through the servers in order timing out
|> each one until it receives a valid response. The server that gives it a
|> valid response will be tagged as the primary DNS server for that NIC
until
|> one of 4 events:
|>
|> 1. Reboot
|> 2. Disable/re-enable the NIC
|> 3. Stop/start the DNS client service
|> 4. The server fails to respond to a DNS request in which case the above
|> process starts again with the next server on the list.
|> 5. The DNS client is forced to query the first listed DNS server (see
|> below.)
|>
|> I. There's a registry key in Windows 2000 that allow this "client" to
hold
|> its DNS server priority for a certain time period before querying the
|> failed primary DNS server again. If the value is zero which means it

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|> always
|> queries the primary DNS before trying the others IP on the list:
|>
|> Note: On W2k sp3 and later, the key is not shown, unless it was manually
|> entered or a hotfix was applied that entered the key.
|>
|> 1. In the Windows registry of the Exchange server, go to the Key:
|>
|> HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Dnscache\Parameters.
|>
|> 2. Look for the value: ResetServerPrioritiesTimeInterval or
|> ServerPriorityTimeLimit.
|>
|> 3. Please note whether either of these values are found and their data
|> value. If neither keys are found, proceed below:
|> a) Enter in new value: ServerPriorityTimeLimit
|> b) Set Data type to REG_DWORD
|> c) Range: 384 (HEX)
|>
|> This will hold the DNS server priority list for 900 seconds (384 Hex)
|> before querying the top of the DNS list again: "286834 The DNS Client
|> Service Does Not Revert to Using the First Server in the –
|> <http://support.microsoft.com/?id=286834>".
|>
|> II. For Windows XP and above:
|>
|> 320760 The DNS Client Service Does Not Revert to Using the First Server
in
|> the list in Windows XP
|> <http://support.microsoft.com/?id=320760>
|>
|> 318803 How to Disable Client-Side DNS Caching in Windows XP and Windows
|> Server
|> <http://support.microsoft.com/?id=318803>
|>
|> I hope the above information helps. If you have any questions, please
feel
|> free to let me know.
|>
|> Have a nice day!
|>
|> Best regards,
|>
|> Terence Liu(MSFT)
|>
|> Microsoft CSS Online Newsgroup Support
|>
|> Get Secure! – www.microsoft.com/security
|>
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Please

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|> Any input or comments in this thread are highly appreciated.

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|> | From: "SuperGumby [SBS MVP]" <not@xxxxxxxxxxx>
|> | References: <FA164BBD-4DB2-452C-ADF2-9AE5BCEA6430@xxxxxxxxxxxxxx>
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|> | <ekU31VsfIHA.3940@xxxxxxxxxxxxxxxxxxxxxx>
|> | <26E842FE-6BEF-4E0F-BE4E-B60A50CB6D3A@xxxxxxxxxxxxxx>
|> | <vw0WxA0fIHA.6616@xxxxxxxxxxxxxxxxxxxxxx>
|> | <#r7HpK0fIHA.4684@xxxxxxxxxxxxxxxxxxxxxx>
|> | <A6\$vbQAgIHA.5204@xxxxxxxxxxxxxxxxxxxxxx>
|> | Subject: Re: Dual NIC vs Single NIC
|> | Date: Fri, 7 Mar 2008 18:11:20 +1100
|> | Lines: 378
|> | X-Priority: 3
|> | X-MSMail-Priority: Normal
|> | X-Newsreader: Microsoft Outlook Express 6.00.3790.3959
|> | X-MimeOLE: Produced By Microsoft MimeOLE V6.00.3790.4133
|> | X-RFC2646: Format=Flowed; Original
|> | Message-ID: <#wOI0JCgIHA.484@xxxxxxxxxxxxxxxxxxxxxx>

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|> | Newsgroups: microsoft.public.windows.server.sbs
|> | NNTP-Posting-Host: cpe-121-217-134-196.nsw.bigpond.net.au
|> | 121.217.134.196
|> | Path: TK2MSFTNGHUB02.phx.gbl!TK2MSFTNGP01.phx.gbl!TK2MSFTNGP06.phx.gbl
|> | Xref: TK2MSFTNGHUB02.phx.gbl microsoft.public.windows.server.sbs:97004
|> | X-Tomcat-NG: microsoft.public.windows.server.sbs
|> |
|> | and read my reply, and look into how the DNS Client operates.
|> |
|> | The DNS client will not switch back to using SBS until a timeout is
|> | reached
|> | or the machine is restarted. During normal operation when SBS DNS is
|> | available, if it is delayed for some reason (busy SBS) the alternate
DNS
|> | server will be used and AD queries will not be satisfied, again, not
|> | changing back immediately the SBS DNS Server becomes available but at
|> | some
|> | later time. Yes, there is a reg change that can reduce and/or
eliminate
|> | the
|> | delay in switching from the 'alternate' back to the 'primary', please
do
|> | not
|> | promote it's use either, the behaviour defaults to what it is because
it
|> | should.
|> |
|> | The mixed use of AD + non-AD aware DNS servers is a major contributor
to
|> | 'odd problems', things going wrong intermittently, NOT on SBS networks
|> | but
|> | on _ANY_ AD (ie. the problem is not SBS specific, it affects all
Windows
|> | DNS
|> | clients needing to query AD)
|> |
|> | "Terence Liu [MSFT]" <v-terliu@xxxxxxxxxxxxxxxxxxxx> wrote in message
|> | [news:A6\\$vbQAgIHA.5204@xxxxxxxxxxxxxxxxxxxxxxxx](mailto:news:A6$vbQAgIHA.5204@xxxxxxxxxxxxxxxxxxxxxxxx)
|> |> Hello SuperGumby,
|> |>
|> |> Thank you for your reply.
|> |>
|> |> Please read my reply carefully.
|> |>
|> |> In my suggestion, we try to make the DHCP on SBS to assign TWO DNS
|> |> servers
|> |> to all client computers. The first (Primary) DNS is pointing to SBS
|> |> (AD),
|> |> the second (Alternate) DNS is pointing to ISP.
|> |>
|> |> Note: After the client gets IP configuration from SBS, we can run

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|> |> "ipconfig
|> |> /all" on client to verify it gets TWO DNS servers.
|> |>
|> |> 1. When the SBS in work, the client uses the first (Primary) DNS to
|> |> resolve
|> |> AD related names and Internet domain names.
|> |>
|> |> 2. When the SBS shutdown, the client unable to use the first
(Primary)
|> |> DNS,
|> |> it will try to use the second (Alternate) DNS to resolve Internet
|> |> domain
|> |> names.
|> |>
|> |> 3. When the SBS starts again, the client will automatically use the
|> |> first
|> |> (Primary) DNS instead of second (Alternate). We do not need to do
|> |> anything,
|> |> and we will not experience any AD related name resolution issue.
|> |>
|> |> Hope that clearly.
|> |>
|> |> Thanks and have a nice day!
|> |>
|> |> Best regards,
|> |>
|> |> Terence Liu(MSFT)
|> |>
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|> |> Get Secure! – www.microsoft.com/security
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your

|> |> issue.

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|> |> | <26E842FE-6BEF-4E0F-BE4E-B60A50CB6D3A@xxxxxxxxxxxxxx>

|> |> | <vw0WxA0fIHA.6616@xxxxxxxxxxxxxxxxxxxxxx>

|> |> | Subject: Re: Dual NIC vs Single NIC

|> |> | Date: Thu, 6 Mar 2008 15:29:22 +1100

|> |> | Lines: 211

|> |> | X-Priority: 3

|> |> | X-MSMail-Priority: Normal

|> |> | X-Newsreader: Microsoft Outlook Express 6.00.3790.3959

|> |> | X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.3790.4133

|> |> | X-RFC2646: Format=Flowed; Original

|> |> | Message-ID: <#r7HpK0fIHA.4684@xxxxxxxxxxxxxxxxxxxxxx>

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|> |> | 121.217.134.196

|> |> | Path:

|> |> | TK2MSFTNGHUB02.phx.gbl!TK2MSFTNGP01.phx.gbl!TK2MSFTNGP06.phx.gbl

|> |> | Xref: TK2MSFTNGHUB02.phx.gbl

|> |> | microsoft.public.windows.server.sbs:96665

|> |> | X-Tomcat-NG: microsoft.public.windows.server.sbs

|> |> |

|> |> | Terence, you're gonna make me hot under the collar.

|> |> |

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|> |> | _ALL_ members of a Windows AD should use _only_ AD aware DNS servers
|> for
|> |> | name resolution. Should Joe perform the action you describe and
|> restart
|> |> his
|> |> | SBS any client machine which makes a name query while SBS' DNS is
|> |> | unavailable will switch to querying his AD-ignorant router/ISP for
|> name
|> |> | queries. The PC's will then experience problems requesting AD
|> resources
|> |> | until they switch back to using SBS DNS.
|> |> |
|> |> | Whoever suggested you should pass on this advice needs to talk to
MS
|> |> Active
|> |> | Directory development, then be shot.
|> |> |
|> |> | "Terence Liu [MSFT]" <v-terliu@xxxxxxxxxxxxxxxxxxxxxx> wrote in
|> message
|> |> | news:vw0WxA0fIHA.6616@xxxxxxxxxxxxxxxxxxxxxx
|> |> |> Hello Joe,
|> |> |>
|> |> |> Thank you for posting here. Let's also thank others for the
input.
|> |> |>
|> |> |> According to your description, I understand that you want to
|> client
|> |> |> computers could access Internet when you shutdown or restart the
|> SBS
|> |> for
|> |> |> maintenance. If I have misunderstood the problem, please don't
|> |> hesitate
|> |> to
|> |> |> let me know.
|> |> |>
|> |> |> Based on my research, this is a DNS and DHCP issue. By default
the
|> SBS
|> |> is
|> |> |> the DNS server for all clients. After you shutdown the SBS, the
|> client
|> |> |> computers unable to resolve the domain name of Internet. So the
|> |> Internet
|> |> |> access fail.
|> |> |>
|> |> |> For this, we can make the DHCP on SBS to assign second DNS
server
|> to
|> |> all
|> |> |> client computers. When the primary DNS (SBS) is not available,

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the

|> |> clients

|> |> |> will try the alternate DNS server.

|> |> |>

|> |> |> 1. Run command "dhcpmgmt.msc" on SBS to open DHCP console

|> |> |> 2. Extend DHCP -> SBS.domain.local -> Scope -> Scope Options

|> |> |> 3. Double click "006 DNS Servers" in right pane

|> |> |> 4. Input the second DNS (your ISP DNS), click Add

|> |> |>

|> |> |> Note: Ensure the SBS IP is above your ISP IP in the list.

|> |> |>

|> |> |> 5. Click OK

|> |> |> 6. Restart the clients

|> |> |>

|> |> |> Note: If you rerun the CEICW, the above configuration will be

|> reset

|> to

|> |> |> default value. Therefore, you need to perform the above steps

|> again

|> |> after

|> |> |> your rerun the CEICW.

|> |> |>

|> |> |> Of course, this workaround does not work when the client

restarts

|> at

|> |> the

|> |> |> SBS shutdown time. The client gets IP address from SBS, if the

SBS

|> |> |> shutdown, the client unable to detect the DHCP server, and

unable

|> to

|> |> get

|> |> |> IP. The whole network of client will be unavailable.

|> |> |>

|> |> |> To workaround this scenario, you only have to disable DHCP on

SBS

|> and

|> |> make

|> |> |> your router work as DHCP server. However, this is not

recommended.

|> If

|> |> you

|> |> |> like, you can try it yourself.

|> |> |>

|> |> |> I hope these steps will give you some help.

|> |> |>

|> |> |> Thanks and have a nice day!

|> |> |>

|> |> |> Best regards,

|> |> |>

|> |> |> Terence Liu(MSFT)

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>>> -----
>>> | Thread-Topic: Dual NIC vs Single NIC
>>> | thread-index: Ach+7Ycor51Gr0zTRzilimYCEQJBpQ==
>>> | X-WBNR-Posting-Host: 207.46.19.168
>>> | From: =?Utf-8?B?Sm9l?= <Joe@xxxxxxxxxxxxxxxxxxxxxxxx>
>>> | References:
> <FA164BBD-4DB2-452C-ADF2-9AE5BCEA6430@xxxxxxxxxxxx>
>>> | <ebEUjefIHA.2540@xxxxxxxxxxxxxxxxxxxx>
>>> | <33796A03-8F47-4D52-AC09-1046343B1ABA@xxxxxxxxxxxx>
>>> | <ekU3IVsfIHA.3940@xxxxxxxxxxxxxxxxxxxx>
>>> | Subject: Re: Dual NIC vs Single NIC
>>> | Date: Wed, 5 Mar 2008 10:20:01 -0800
>>> | Lines: 73
>>> | Message-ID:
<26E842FE-6BEF-4E0F-BE4E-B60A50CB6D3A@xxxxxxxxxxxx>
>>> | MIME-Version: 1.0
>>> | Content-Type: text/plain;
>>> | charset="Utf-8"
>>> | Content-Transfer-Encoding: 7bit
>>> | X-Newsreader: Microsoft CDO for Windows 2000
>>> | Content-Class: urn:content-classes:message
>>> | Importance: normal
>>> | Priority: normal
>>> | X-MimeOLE: Produced By Microsoft MimeOLE V6.00.3790.2992
>>> | Newsgroups: microsoft.public.windows.server.sbs
>>> | Path: TK2MSFTNGHUB02.phx.gbl
>>> | Xref: TK2MSFTNGHUB02.phx.gbl
>> microsoft.public.windows.server.sbs:96557
>>> | NNTP-Posting-Host: tk2msftsbfm01.phx.gbl 10.40.244.148
>>> | X-Tomcat-NG: microsoft.public.windows.server.sbs
>>>>
>>>> Lanwench, thanks again for your input. I attempt to do as
little
>>>> maintainence
>>>> as possible during the work hours of course. However 2 of my
>> clients
>> are
>>>> large churches and they have extended hours 7 days a wekk plus
>> some
>>> of
>>>> the
>>>> programs they run require maintance by the software support
>> personel
>>>> during
>>>> the 8-5 time frame.
>>>>>

Re: Dual NIC vs Single NIC

|> |> |> | When I don't use ISA I typically intall a Sonicwall as my
|> gateway
|> |> and
|> |> |> more
|> |> |> | recently a newer firewall by Calyptix Security (it also has an
|> |> internal
|> |> |> hard
|> |> |> | drive and will hold mail when the server is offline)
|> |> |> |
|> |> |> | Joe
|> |> |> |
|> |> |> | "Lanwench [MVP – Exchange]" wrote:
|> |> |> |
|> |> |> |> Joe <Joe@xxxxxxxxxxxxxxxxxxxxxxxxxxxx> wrote:
|> |> |> |> > Lanwrench that is one the problem with the dual nic
setup,
|> The
|> |> users
|> |> |> |> > get to the internet thru the SBS box. If it is down, while
|> they
|> |> can
|> |> |> |> > log on to their own box they have no access to the outside
|> |> world.
|> |> I
|> |> |> |> > am looking for a way to make my systems a little more
|> |> "bulletproof"
|> |> |> |> > and at the same time allow me to do some server
maintainance
|> |> without
|> |> |> |> > totally shutting down the office.
|> |> |> |>
|> |> |> |> > Well, I don't think you should be doing server maintenance
|> during
|> |> the
|> |> |> |> > business day, myself – but your server shouldn't be the
|> gateway
|> if
|> |> you
|> |> |> don't
|> |> |> |> > have ISA. Set all clients to point at your router's LAN IP
as
|> |> default
|> |> |> |> > gateway.
|> |> |> |> >
|> |> |> |> > "Lanwench [MVP – Exchange]" wrote:
|> |> |> |> >
|> |> |> |> > > Joe <Joe@xxxxxxxxxxxxxxxxxxxxxxxxxxxx> wrote:
|> |> |> |> > > > In the past Most of my systems have been dual NIC
usually
|> with
|> |> ISA

Re: Dual NIC vs Single NIC

|> |> |> |> >>> but due to many reasons I am now considering going to a
|> single
|> |> NIC
|> |> |> |> >>> and moving away from ISA.
|> |> |> |> >>>
|> |> |> |> >>> Currently with my existing setup, if the SBS server is
|> down,
|> |> for
|> |> |> |> >>> what ever reason, my customers can't even get to the
|> internet.
|> |> |> |> >>>
|> |> |> |> >>> Yes they can.....they just can't resolve names :)
|> |> |> |> >>>
|> |> |> |> >>> If I had a second member server set up as the backup
DC, a
|> |> single
|> |> |> |> >>> NIC SBS server, and a hardware firewall wouldn't that
|> allow
|> my
|> |> |> |> >>> customer to log on and access the internet if the SBS
|> server
|> |> was
|> |> |> |> >>> offline temporarily? I would still want the SBS server to
|> run
|> |> the
|> |> |> |> >>> DHCP and DNS roles but would assume that would not
matter
|> as
|> |> long
|> |> |> |> >>> as the SBS machine was not down for more than a few
hours
|> at a
|> |> |> time.
|> |> |> |> >>>
|> |> |> |> >>> Yes. If you have another DC running AD-integrated DNS,
and
|> your
|> |> |> |> >>> client workstations have the secondary DNS server listed,
|> they
|> |> |> |> >>> should work.
|> |> |> |> >>>
|> |> |> |> >>> The above seems logical to me, but then since I have not
|> done
|> |> it I
|> |> |> |> >>> am checking for any "gotchas" lying around that I might
|> not
|> be
|> |> |> |> >>> aware of.
|> |> |> |> >>>
|> |> |> |> >>> By the way I would be running SBS2003R2 on such an
install

