

Re: 2 NIC SBS2003R2 LAN/WAN Firewall Router Connection Failure

Source:

<http://www.tech-archive.net/Archive/Windows/microsoft.public.windows.server.sbs/2007-05/msg01711.html>

- *From:* Marcus <Marcus@xxxxxxxxxxxxxxxxxxxxxxxxxxxxx>
 - *Date:* Thu, 10 May 2007 12:35:00 -0700
-

OK, I've just gone and followed your instructions.

- a) I connected directly to the router and changed its LAN side subnet mask (I hope I'm using the right terms) from 255.255.0.0 to 255.255.255.0 .
- b) I changed its static IP address to your suggestion.
- c) I changed the SBS external IP settings as you suggest.
- d) I changed the SBS internal IP settings as you suggest.

It workes perfectly. Clients can see the Internet. The SBS Server can see clients and the Internet. Clients and the SBS Server can reach the router.

Perfect.

I feel that I should learn more about networking and SBS fundamentals. Are there any recommended books or websites which can help to educate someone as ignorant as me so I stop making such basic mistakes?

Thanks very much for your help.

"Terence Liu [MSFT]" wrote:

Hello Marcus,

Thank you for posting here. And thanks for Merv's inputs.

According to your description, I understand that you can not access your router from internal client or SBS. If I have misunderstood the problem, please don't hesitate to let me know.

Based on my research, I suggest we try the following steps to see if we can resolve this issue:

1. Please contact your router vendor to check the settings in the router, may be there are some rule deny the access from some IP addresses or subnet.
2. Merv's inputs is correct, your network configuration need to change:

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Please change the IP configuration like following:

Firewall–Router (public WAN side), Static Public IP from your ISP

Firewall–Router (private LAN side), Static IP 192.168.1.1 subnet mask 255.255.255.0

SBS External NIC, Static IP 192.168.1.2 subnet mask 255.255.255.0 gateway 192.168.1.1

SBS Internal NIC, Static IP 192.168.16.2 subnet mask 255.255.255.0

Workstations, Dynamic IPs 192.168.16.x subnet mask 255.255.255.0 gateway 192.168.16.2

Note: the IP 192.168.16.2 subnet mask 255.255.255.0 and IP 192.168.1.1 subnet mask 255.255.255.0 are not in same subnet, but in different subnets.

3. Run the CEICW

Go through the follow KB and Rerun CEICW again carefully.

How to configure Internet access in Windows Small Business Server 2003

<http://support.microsoft.com/kb/825763/en-us>

Additional:

1. Please do not uses IP address 192.165.0.0, this is not private IP. The private IP is 192.168.0.0/16.

2. We do not need to add static route on internal clients or SBS.

Hope these steps will give you some help.

Thanks and have a nice day!

Best regards,

Terence Liu(MSFT)

Microsoft CSS Online Newsgroup Support

Get Secure! – www.microsoft.com/security

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This newsgroup only focuses on SBS technical issues. If you have issues regarding other Microsoft products, you'd better post in the corresponding newsgroups so that they can be resolved in an efficient and timely manner. You can locate the newsgroup here:

<http://www.microsoft.com/communities/newsgroups/en-us/default.aspx>

When opening a new thread via the web interface, we recommend you check the "Notify me of replies" box to receive e–mail notifications when there are any updates in your thread. When responding to posts via your newsreader,

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please "Reply to Group" so that others may learn and benefit from your issue.

Microsoft engineers can only focus on one issue per thread. Although we provide other information for your reference, we recommend you post different incidents in different threads to keep the thread clean. In doing so, it will ensure your issues are resolved in a timely manner.

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

Any input or comments in this thread are highly appreciated.

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| Thread-Topic: 2 NIC SBS2003R2 LAN/WAN Firewall Router Connection Failure
| thread-index: AceSxllir8mwn0HeTi6KosyrUcPIbg==
| X-WBNR-Posting-Host: 207.46.193.207
| From: =?Utf-8?B?TWFyY3Vz?=<Marcus@xxxxxxxxxxxxxxxxxxxxxxxx>
| References: <14DE3A58-36A1-44F6-8F44-B79F64E70118@xxxxxxxxxxxx>
<eGnhawqkHHA.596@xxxxxxxxxxxxxxxxxxxx>
| Subject: Re: 2 NIC SBS2003R2 LAN/WAN Firewall Router Connection Failure
| Date: Wed, 9 May 2007 22:45:00 -0700
| Lines: 92
| Message-ID: <EA51A443-C393-4A5D-9F3B-78EE3D508E04@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 V6.00.3790.2826
| Newsgroups: microsoft.public.windows.server.sbs
| Path: TK2MSFTNGHUB02.phx.gbl
| Xref: TK2MSFTNGHUB02.phx.gbl microsoft.public.windows.server.sbs:35791
| NNTP-Posting-Host: tk2msftibfm01.phx.gbl 10.40.244.149
| X-Tomcat-NG: microsoft.public.windows.server.sbs

| HI,

| That's not my configuration. If you look at the diagram, both the WAN NIC
| and the LAN NIC are on the same subnet.

| My WAN NIC and LAN NIC are on separate subnets; the former on 255.255.0.0
| the latter on 255.255.255.0.

| I think it's because of the different subnets that the clients and server

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| cannot communicate with the router.

| That's why I asked about static routes, the router table and so on.

| Oh, and I can't put the WAN NIC on the same subnet; I've tried and it won't work.

| Happy to consider any other ideas...

| "Merv Porter [SBS-MVP]" wrote:

| > For network setup, take a look at the following diagrams:

| >

| > Two Nics, a static IP address, ISA, router

| > (works for SBS with or without ISA)

| >

| > <http://www.smallbizserver.net/tabid/266/articleType/ArticleView/articleId/76/Two-Nics-a-static-IP-address-ISA-router.aspx>

| >

| > Then re-run CEICW which will set up the SBS server to handle DHCP for your

| > LAN.

| >

| > When configured correctly, you will essentially have 3 networks, separated

| > for security:

| >

| > The Internet

| > Firewall-Router (public WAN side), Static Public IP from your ISP

| >

| > Firewall-Router (private LAN side), Static IP 192.168.1.1

| > SBS External NIC, Static IP 192.168.1.2

| >

| > SBS Internal NIC, Static IP 192.168.16.2

| > Workstations, Dynamic IPs 192.168.16.x

| >

| > --

| > Merv Porter [SBS-MVP]

| > =====

| >

| > "Marcus" <Marcus@xxxxxxxxxxxxxxxxxxxxxxxxxxxx> wrote in message

| > <news:14DE3A58-36A1-44F6-8F44-B79F64E70118@xxxxxxxxxxxxxxxxxxxx>

| > > I have installed a 2nd NIC in my SBS2003R2 Server.

| > >

| > > I have configured the new NIC (WAN) with IP 192.165.1.30 subnet

| > > 255.255.0.0.

| > > I left the old NIC (LAN) with IP 192.165.1.20 subnet 255.255.255.0.

| > >

| > > I have a firewall router between my WAN NIC and the ISP. This has an

| > > internet facing static IP of W.X.Y.Z. It has an intranet facing

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static IP
|>> of
|>> 192.165.1.1 subnet 255.255.0.0 (previously 255.255.255.0 before the
new
|>> NIC
|>> was installed).
|>>
|>> I have set the DHCP scope on the Server to 192.165.1.1 to
192.165.1.254 (I
|>> guess on subnet 255.255.255.0). The exclusion is set from 192.165.1.1
to
|>> 192.165.1.10.
|>>
|>> I have not defined a second scope on the 255.255.0.0 subnet.
|>>
|>> My clients on the LAN can successfully reach the internet.
|>> My server can successfully reach both clients and the internet.
|>>
|>> Neither my server nor my clients can reach my firewall router. Before
I
|>> installed the 2nd NIC this worked fine. (i.e. before I reset it with
a
|>> static
|>> IP on subnet 255.255.0.0 rather than the original subnet of
|>> 255.255.255.0).
|>>
|>> Q1. Do I have to define another DHCP scope for the new WAN subnet
and, if
|>> so, how?
|>> Q2. Do I have to set up a static route from my LAN (clients and
server) to
|>> the router and, if so, how?
|>> Q3. Do I have to do anything to my inbuilt SBS Firewall settings
(which
|>> are
|>> currently the default ones – I've not messed around with these)?
|>>
|>> I need to reach my router in order to change some of the VPN
tunnelling
|>> permissions, you see.
|>>
|>> Finally, if I plug a LAN laptop directly into the router it can't
reach it
|>> either. But the router is working fine...
|>>
|>
|>
|>
|

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