

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/msg01744.html>

- *From:* "SuperGumby [SBS MVP]" <not@xxxxxxxxxxx>
 - *Date:* Fri, 11 May 2007 08:33:22 +1000
-

both MS and VMWare have free versions of their virtualisation products.

<http://www.microsoft.com/windowsserversystem/virtualserver/default.msp>
http://www.vmware.com/products/free_virtualization.html

I have to admit to a preference for VMWare Server which can only be installed on a server OS. You may note that MS Virtual Server is not 'for production use' when installed on a non-server OS, that's OK we're not using it for production.

"Marcus" <Marcus@xxxxxxxxxxxxxxxxxxxxxxxxxxxx> wrote in message news:F43EC250-3379-4AE8-BEC9-0D3ABA1E6499@xxxxxxxxxxxxxxxxxxxx

Thank you for all the links – I'll work my way through them over the weekend.

I like the idea of a little test lab – I have some spare hardware knocking around. You've mentioned the virtualisation term – I don't know where to start with this, but I guess that's another topic for internet searching.

Thanks very much.

"SuperGumby [SBS MVP]" wrote:

IP networking is both a very simple thing and a vast area of knowledge. Most people ignore most of it except what they need to know, which is often just the basics which we've pretty well covered (IP's, masks, subnets). In this respect this is enough knowledge that IP simply works, for this reason Joe Bloggs' 10yr old can grab a router and have a couple of PC's share an internet connection in a few minutes.

I don't really know of any 'basic IP networking' tutorials/books but it

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sounds like a great search term :-)

I've asked the other SBS MVP's to comment on the current status of SBS books. Not having paid much attention to such but generally being 'involved'

I suggest that any I am aware of are getting a bit dated, I'm hoping someone proves me wrong.

SBS resources:

start here

<http://msmvps.com/blogs/kwsupport/archive/2006/08/17/107981.aspx>

or maybe here

<http://www.sbs-rocks.com/sbs2k3/sbs2003-1.htm>

don't skip this one

<http://www.sbsfaq.com/default.aspx>

and goto here

<http://msmvps.com/blogs/bradley/archive/2005/04/07/41246.aspx>

and here

<http://www.smallbizserver.net/>

and more from Susan

<http://www.sbslinks.com/>

I actually threw that list together as a 'primer' on SBS installation but of course there is a lot of content across the sites.

The number one thing I suggest is to put a test/lab/play system together. Grab some old hardware or a virtualisation system and do a couple of installs, play with it till you break it (OH, I won't do that on the real system), format and give it another go, use it to test your Disaster Recovery scenario, non DR restores, patching etc...

"Marcus" <Marcus@xxxxxxxxxxxxxxxxxxxxxxxxxxxx> wrote in message news:B28EA726-07F8-4CC7-9B7E-BF7D67AD4688@xxxxxxxxxxxxxxxxxxxx

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.

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- 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:

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.

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Thanks and have a nice day!

Best regards,

Terence Liu(MSFT)

Microsoft CSS Online Newsgroup Support

Get Secure! – www.microsoft.com/security

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, 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

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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@xxxxxxxxxxxxxxxxxxxxxxxxxxxx>

| 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

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|
| 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
| 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:

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|>
|> 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
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

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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

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|> > either. But the router is working fine...

|> >

|>

|>