

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/msg01704.html>

- *From:* Marcus <Marcus@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx>
 - *Date:* Thu, 10 May 2007 11:46:03 -0700
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Thank you.

I will try to use the right terms in future.

Oh, by the way, I did use the crashdump debugger that you and Susam suggested on my former problem and localised the problem to sis.sys, which appears to be the recurring source of the crashes since then.

Thanks for the advice with the microsoft crash analysis tool.

"SuperGumby [SBS MVP]" wrote:

NO, they are subnet masks, not subnets.

192.168.0.x mask 255.255.255.0 is a different subnet from 192.168.1.x mask 255.255.255.0

The masks are the same but the subnets are different. (that's what masking is all about)

both 192.165.1.30 subnet 255.255.0.0 and 192.165.1.20 subnet 255.255.255.0 are _sortta_ on the same subnet. It's an invalid configuration.

"Marcus" <Marcus@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx> wrote in message <news:EA51A443-C393-4A5D-9F3B-78EE3D508E04@xxxxxxxxxxxxxxxxxxxx>

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-s>

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

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Merv Porter [SBS-MVP]
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"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

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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
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

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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...