

Re: Multi NIC Windows 2003 routing problem

Source:

<http://www.tech-archive.net/Archive/Win2000/microsoft.public.win2000.networking/2004-11/0153.html>

From: Phillip Windell (_at_)

Date: 11/02/04

Date: Tue, 2 Nov 2004 14:46:23 -0600

You cannot use two IP#s from different subnets on the same NIC unless it is a NIC that is VLAN (Frame Tagging) compatible and setup to do so.

As far as NT4, I have a strong suspicion that it wasn't doing things exactly the way you may have thought it was doing it.

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Phillip Windell [MCP, MVP, CCNA]
www.wandtv.com

"Chuck" <balt3@inside.net.remove.from.here.no> wrote in message
news:4186c2bd\$0\$325\$4d4ef98e@read.news.ch.uu.net...

> Phillip,

>

> thanks for the information. Do you think it could still be done (if yes,
> how?) with these details:

>

> All network traffic destined for the 192.168.20.x and 192.168.90.x should
> go

> out via NIC1 (the one with the 192.168.90.1 address), ALL other traffic
> can

> safely go out the 10.10.10.2 interface.

>

> How could that be set routing wise (maybe with route add ...)

>

> I stated that before, it worked beautifully on Windows NT 4 for many many
> years.... (still does, but that server has to go, for obvious reasons).

>

> Cheers

>

>

>

> "Phillip Windell" <@.> wrote in message

> news:OYj2eWGwEHA.2016@TK2MSFTNGP15.phx.gbl...

> > You cannot have two Default Gateways. By the very definition of the
> > term,..there can only be one.

> >

> > 157025 - Default Gateway Configuration for Multihomed Computers

> >

> > <http://support.microsoft.com/default.aspx?scid=kb;en-us;157025&Product=win2000>

> >

> > Since you appear to have three subnets floating around and I have no
> > idea

> > about the relationship between them,..I cannot tell you how to deal
> > with

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> > the problem the right way.
> >
> > The best way is to never multi-home a Server under any circumstances
> > except
> > for Proxys and NAT Servers. Place real LAN routers between the subnets,
> > not
> > computers.
> >
> > Here are other multi-homing "horrors" to keep in mind. This is why
> > computers
> > should only "live" on networks and let the Routers "route" the networks.
> >
> > 175767 - Expected Behavior of Multiple Adapters on Same Network
> > <http://support.microsoft.com/default.aspx?scid=kb;EN-US;175767>
> >
> > 272294 - Active Directory Communication Fails on Multihomed Domain
> > Controllers
> > <http://support.microsoft.com/default.aspx?scid=kb;en-us;272294>
> >
> > 191611 - Symptoms of Multihomed Browsers
> > <http://support.microsoft.com/default.aspx?scid=kb;EN-US;191611>
> >
> > Microsoft Windows XP - Multihoming Considerations
> >
> > http://www.microsoft.com/resources/documentation/windows/xp/all/reskit/en-us/prcc_tcp_qpzi.asp?
> >
> > 128978 - Dead Gateway Detection in TCP/IP for Windows NT
> > <http://support.microsoft.com/default.aspx?scid=kb;EN-US;128978>
> >
> > 171564 - TCP/IP Dead Gateway Detection Algorithm Updated for Windows NT
> > <http://support.microsoft.com/default.aspx?scid=kb;EN-US;171564>
> >
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> > --
> >
> > Phillip Windell [MCP, MVP, CCNA]
> > www.wandtv.com
> >
> >
> > "Chuck" <balt3@inside.net.remove.from.here.no> wrote in message
> > news:4186a368\$0\$327\$4d4ef98e@read.news.ch.uu.net...
> >> Hi all,
> >>
> >> I have a Windows 2003 Enterprise Server which talks to machines in one
> >> private network, hosted on one network card, and another private
network
> > as
> >> well as the internet which should be routed over the other network
card.
> >> This exact layout on a Windows NT 4 Server works just fine, but not on
> >> the
> >> Windows 2003 Server which I'm setting up to replace the NT4 Server. The
> >> setup:
> >>
> >> NIC1:
> >> IP: 192.168.90.1
> >> Def GW: 192.168.90.67
> >> Subnet mask: 255.255.255.0
> >>
> >> NIC2:
> >> IP: 10.10.10.2
> >> Def GW: 10.10.10.1

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> >> Subnet mask: 255.255.255.0
> >>
> >> NIC1 is connected to a Cisco PIX leading to a VPN. The PIX is the
default
> >> gateway, the network behind the PIX is 192.168.20.x
> >> NIC2 is connected to a Sonicwall, which is connected to the internet.
The
> >> Sonicwall is the default gateway.
> >>
> >> When I set the TCP/IP properties on the server, I always get a warning
> >> message saying that having different default gateways would not work as
> >> expected. The server then communicates just fine on the 192.168.90.x
> >> network, and it can also ping machines on the 10.10.10.x network. But
any
> >> requests that would go out to the internet are failing, can't even an
> >> outside server with a public IP (which works on the NT4 system).
> >>
> >> Does anyone see how this can be solved? With the NT4 system I had to
add
> >> this route to get it to work:
> >> route add 192.168.20.0 mask 255.255.255.0 192.168.90.67 -p
> >>
> >> but that doesn't seem to make a difference on the Windows 2003 Server.
> >>
> >> Any hints greatly appreciated. Thanks!
> >>
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> >
>
>
```