

Re: How to configure for Two different IP subnets

Source:

<http://www.tech-archive.net/Archive/Windows/microsoft.public.windows.server.networking/2007-01/msg00237.html>

- *From:* "Jeff" <jeffby@xxxxxxxx>
 - *Date:* Mon, 15 Jan 2007 17:40:56 GMT
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Thanks Robert and Bill,

I realize this is actually way more than I need for my setup, infact just setting up a server is more than I even actually need. Although I do like the vpn aspect that has helped out alot. I actually had the whole server setup and working as I described except for the fact that I only had 1 nic and had it all set to the same 192.168.x.x as my router. everything was working very well that away after playing with it for awhile.

Robert I have actually used the sites that you have links to on numerous occasions and have actually read a couple of the articles that you had referenced here already, I have seen that you use this site quite often in many of the posts here.

Bill thanks for a little more insite into this also, I guess since this is not a recommended why to do this is maybe why I have been unable to find very good info on the setup.

I am doing this more for learning than anything but would like to also put it to some practical use. I have been some programming in .Net and was wanting to set this up so I could also see how working with a network effects the programming and the abiliting to Vpn to get to my system while away is a wonderful thing at times and using it to allow a few other people that I have set up as users to use the system as well. I just wanted to get this into its own ip address range.

my thinking was(is) that this is what the server was supposed to do. I mean I see where it seems to be common practice to have two nic cards in the server with the outside Wan coming into one and the network setup on the second nic with the internal addressing. In my mind this is essentially the same thing, like I said I am just learning so I may be way off base here. I do not have the money or the computers to have serveral 2003 servers running all the time i just thought this could all be accomplished on one machine without too much issue like I had it setup with just the one nic card.

I thought that I had the Nic cards setup like what Bill is describing here, but that my active directory went haywire on me which in turn would not let me run the DHCP. But part of that problem could also have been that I had

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already had everything set up using the one nic card on the 192.168.x.x ip range and then when I tried to switch it over is when everything could have went haywire.

Anyway thanks for the input I guess I will keep trying to get it set up, or my second thought last night might be the simple solution and that would be to get a second hardware router and segment the system that away, but then I have not learned anything that away.

Again Thanks,

Jeff

"Robert L [MVP – Networking]" <noreply@xxxxxxxxxxxx> wrote in message news:OnysMGLOHHA.140@xxxxxxxxxxxxxxxxxxxxxxxxxxxx
Bill,

Thank you for the detail inputs.

Bob Lin, MS–MVP, MCSE & CNE
Networking, Internet, Routing, VPN Troubleshooting on
<http://www.ChicagoTech.net>
How to Setup Windows, Network, VPN & Remote Access on
<http://www.HowToNetworking.com>

"Bill Grant" <not.available@online> wrote in message news:ONzZ6yDOHHA.4992@xxxxxxxxxxxxxxxxxxxxxxxxxxxx
As Bob said there are a lot of issues involved here. Active Directory is really overkill for a setup like that. You don't need it to allow an incoming VPN connection and running RRAS on a DC is definitely not recommended. The other major problem you strike with AD is DNS.

If you really want to run a domain behind a workgroup, it can be done. It can even be done using the DC as the router (otherwise Small Business Server wouldn't work) but it is not simple or straightforward. It certainly doesn't work using the default setup wizard in Server 2003. It becomes even more difficult if you also configure the DC as a VPN server.

If you only want a second IP subnet using the Windows server as a router, things are simpler. You can configure the router as a normal LAN router (but this will mean you need to add extra routing to the Linksys so that it knows how to find your internal subnet). If you can't or don't wish to fiddle with the Linksys, you need to configure the server as a NAT router. This solves the routing problem on the Linksys because all traffic going to the Linksys from your internal subnet is using the 192.168.1.x address of the server (because of NAT).

The network config is like this.

Internet
|
Linksys
192.168.1.1

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|
workgroup machines
192.168.1.x dg 192.168.1.1
|
192.168.1.n dg 192.168.1.1
RRAS
10.10.1.1 dg blank
|
workstations
10.10.1.x dg 10.10.1.1

If you configure the RRAS router for NAT routing should just work.
Without NAT (ie LAN routing only) you need a static route on the Linksys to send the traffic for the inner subnet to the internal router. ie

10.10.0.0 255.255.0.0 192.168.1.n

"Robert L [MVP – Networking]" <noreply@xxxxxxxxxxxx> wrote in message news:eyMVtGDOHHA.5064@xxxxxxxxxxxxxxxxxxxxxxxxxxxx
We have many issues with this configuration. Here are two:

1. You should not enable RRAS on a DC. Check this link for more details.

Name resolution on VPN

Connection issues on DC, ISA, DNS and WINS server as VPN server How to assign DNS and WINS on VPN client manually Name resolution Issue in a VPN client ...

<http://www.chicagotech.net/nameresolutionpnvpn.htm> – Jan 12, 2007 –

case Studies – VPN error 721 and 800

Connection issues on DC, ISA, DNS and WINS server as VPN server ... To assign the DNS and WINS to a VPN client for name resolution, you should configure VPN ...

<http://www.chicagotech.net/VPN/vpncase800.htm>

2. You don't need two NICs for VPN. How to may help,

How to setup VPNHow to setup Windows 2003 as VPN server with one NIC How to setup VPN on w2k server with one NIC How to use PPTP through a Cisco PIX ...

<http://www.howtonetworking.com/Windows/vpnsetup.htm>

Bob Lin, MS–MVP, MCSE & CNE

Networking, Internet, Routing, VPN Troubleshooting on

<http://www.ChicagoTech.net>

How to Setup Windows, Network, VPN & Remote Access on

<http://www.HowToNetworking.com>

"Jeff" <jeffby@xxxxxxxx> wrote in message

[news:fYwqh.1217\\$G23.126@xxxxxxxxxxxxxxxxxxxxxxxxxxxx](mailto:news:fYwqh.1217$G23.126@xxxxxxxxxxxxxxxxxxxxxxxxxxxx)

Just wondering if someone can please explain how I can get two different

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ip subnets working? I have been googling, reading the newsgroups, and reading books but I just can not figure out how to make this work.

I have Windows server 2003 and here is what i am trying to setup:

INTERNET

|

LINKSYS ROUTER – PPOE CONNECTION TO DSL INTERNAL IP 192.168.1.1

|

|–WORKGROUP (WIFE AND DAUGHTER LEFT HERE (THEY WOULD KILL ME IF THIER

INTERNET CONNECTION WAS UNAVAILABLE DUE TO MY PLAYING)

|

WINDOWS SERVER 2003

DOMAIN CONTROLLER – MYDOMAIN.LOCAL – WANT THIS AS IP 10.10.1.1

DNS

DHCP – set to give out ip ranges of 10.10.1.10 to 10.10.1.20

computer connecting to domain or vpn in should get a 10.10.1.x address

RRAS – (TO BE ABLE TO VPN IN) I BELIEVE THIS IS WHERE I GET

THE SERVER NAME OF JEFF1.MYDOMAIN.LOCAL

WINS

FILE SERVER

This is where I can not get it to work, from my understanding i need two nic cards in server.

NIC 1 – LOCAL AREA CONNECTION 1 – I believe this is the one that i set my domain up on static IP 10.10.1.1 subnet 255.255.0.0 (no default gateway?)

under advance tabs DNS=JEFF1 10.10.1.1 alternate is

given

one from my isp, WINS=JEFF1 10.10.1.1

NIC 2 – LOCAL AREA CONNECTION 2 – I believe this is the one that i set

pointing to my Linksys Router static IP 192.168.1.2 subnet 255.255.255.0

default gateway 192.168.1.1

under advance tabs DNS= 192.168.1.2 alternate given

from

one from isp, WINS=192.168.1.2

When configuring the Domain Controller, DNS, DHCP, RRAS, and WINS I just ran

the wizards and went with the settings it provided but when all was said

and

done it would not work. I could not see anyone on the 192.168 network,

could not get to the Domaine from the 192.168 network. Active Directory

freaked out on me to where I could not even access it it just kept saying

there was an error. It was like it was not seeing the

JEFF1.MYDOMAIN.LOCAL

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server for some reason.

Any way I played with so many settings that I could think of from reading the books or some articles i found on the web that i completely hosed it. So I reformatted the drive and reloaded windows server and have left it there before adding any roles or anything untill maybe I could get some help in understanding what settings I need to make and where. Like I said I have been searching found alot kind of referencing what I am trying to do but as of yet been able to find anything that kind of explains step by step or shows examples of what the settings are supposed to look like. Only thing I can figure out is this must be so easy that there does not need to be any explanations on the settings, but for the life of me I can not figure it out.

So if anyone could kindly explain how/what to set this up or knows where there is a pretty good detailed guide that I could follow I would appreciate it.

Thanks, Jeff

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