

Re: Multihomed RRAS Configurations

Source:

http://www.tech-archive.net/Archive/Win2000/microsoft.public.win2000.ras_routing/2005-02/0246.html

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DHCP doesn't really have much to do with this problem. The VPN client does not get its network config from the DHCP server. If you have set up the RRAS server to use the DHCP option, what really happens is that the RRAS server will lease a batch of IP addresses from DHCP to use for VPN.

When the client connects, it gets an IP (and other things like DNS and WINS addresses) from the RRAS server. If you are using the DHCP option, the client will get an IP address in the same subnet as your private LAN (because the RRAS server got its addresses from your DHCP server). The VPN client does not connect to either of the server's NICs. It connects to a "virtual" interface which appears in the RRAS console with the name "internal".

Making a VPN connection sets up a simple IP connection. It is not the same thing as a LAN connection. Importantly it does not carry LAN broadcasts, so name resolution and browsing does not work automatically.

Can you ping a LAN machine by its IP address? If yes, routing is working. Can you ping a machine by its FQDN (ie its full name as it appears in your local DNS server)? If yes, DNS is also working. Can you ping using just machinename? If not, you will need to add your domain suffix to the client's TCP/IP settings for the connection.

When you can ping by name, you should be able to browse that machine using net view \\machinename, and then share files using net use \\machinename\filename .

"rgc" <rgc@discussions.microsoft.com> wrote in message
news:97242BB3-2383-48CF-A42E-92EBC50148C1@microsoft.com...
>I have Windows 2000 Advanced Server system with two network cards. Each
>>card is configured on a seperate subnet. My understanding of DHCP is
>that it
> configures to the internal network card not the external network card. I
> am
> creating a VPN connection with the external network card. I am running
> DNS

> and DHCP on the server on my internal card. The second network card is
> configured with a static IP address from a range of IP address. I want to
> be
> able to come in two the RRAS server as the external network card or subnet
> and see the resources on the internal network. My understanding is that I
> am
> creating a multihomed DHCP server which should support multiple NICS. I
> also
> understand that the server must be physicaly multihomed because the server
> service will bind only the primary IP address on each interface. If the
> internal network has multiple network IDs, and VPN clients need to reach
> resources on these multiple network IDs, configure the routing table on
> the
> VPN server. The VPN clients take advantage of the router table on the VPN
> server to reach resources on remote networks. It also recommends that you
> configure the new routing table entries in RRAS GUI interface. My question
> is
> what configuration is needed in DHCP on the server when you have two nic
> cards. Do you setup the internal network card and then refer the second
> nic
> card in a the same scope or do you setup another scope referencing the
> second
> card (external network)and I also am aware that their is a DHCP relay
> agent
> which works as a protocol router for DHCP messages. Currently, I am able
> to
> log into the RRAS as a user and that user is seen on the RRAS server but I
> am
> unable to see any network resources in My Network Places/The network
> neighborhood! I have study many areas of infomation on the internet and I
> have not found any area which explains the proper configuration of a two
> subnets multihomed network running RRAS and DNS & DHCP on a server.
> I want to be able to tunnel on a static IP address on a seperate network
> card but
> then see the internal network at my office and see all the resources! I
> have
> to believe that this would be almost a standard configuration for any
> small
> business who doesn't want to expose his business to the rest of the world.
>
> Thanks,
> Robert
>
> Note: If you need ipconfig /all or need IP routing tables please let me
> know.