

Re: 2nd route to LAN added when client connects

Source:

http://www.tech-archive.net/Archive/Win2000/microsoft.public.win2000.ras_routing/2006-10/msg00008.html

- *From:* "Robert L [MVP – Networking]" <noreply@xxxxxxxxxxx>
 - *Date:* Sat, 7 Oct 2006 09:10:30 -0500
-

Sorry for misreading your post. I have a question about the default gateway. Are you should the default gateway and interface are the same?

By the default the routing table should like look this:

```
Network Dest Netmask Gateway Interface Metric
10.0.0.0 255.255.255.0 10.0.0.x 10.0.0.y 20
10.0.0.0 255.255.255.0 10.0.0.118 10.0.0.121 20
```

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>

"John Philips" <JohnPhilips@xxxxxxxxxxxxxxxxxxxxxxxxxxxx> wrote in message

<news:9E39D8C6-5CE2-4F23-B5E7-F19CF0542D56@xxxxxxxxxxxxxxxxxxxx>

Robert,

I can't access the machine at the moment as it is at another location and with the VPN not functioning then I can get in to pull the commands you requested.

However, let me clarify what's happening with hopes you have seen this before:

The server has a LAN address of 10.0.0.1 and is on a network 10.0.0.0/24. The route I am speaking of is the route to local LAN that is put in the routing table when you configure the NIC. In my case this route looks like this:

```
Network Dest Netmask Gateway Interface Metric
10.0.0.0 255.255.255.0 10.0.0.1 10.0.0.1 20
```

10.0.0.1 is the LAN address.

After the RAS client connects there is another route added so the two entries of interest look like this:

```
Network Dest Netmask Gateway Interface Metric
10.0.0.0 255.255.255.0 10.0.0.1 10.0.0.1 20
10.0.0.0 255.255.255.0 10.0.0.118 10.0.0.121 1 <-this
```

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route added when client connects (in addition to the host route that is also added like you usually see for each client)

10.0.0.118 is the address assigned to the RAS client (using DHCP).
10.0.0.121 is the Internal Interface on the server used by RAS. As you can see after this route is added the server is routing to 10.0.0.0 via the RAS tunnel vs. the LAN Interface so the PCs on the 10.0.0.0/24 local subnet are "disconnected" from the server. The only thing I could think of what that this was related to something that is configured automatically since there are two NICs in the server, but I ran the the Internet Connection wizard and set-up up the server to use one NIC for Internet and LAN.

Have you ever heard of this before. What would be making RRAS add this route?

Thanks,
John

"Robert L [MVP – Networking]" wrote:

- > RRAS may modify the routing table but should not create another default gateway. Posting the routing table and ipconfig /all here may help.
- >
- > 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>
- > "John Philips" <JohnPhilips@xxxxxxxxxxxxxxxxxxxxxxxxxxxx> wrote in message news:8CDFD49B-D1E7-4431-BBBC-9EA2C7838E40@xxxxxxxxxxxxxxxxxxxx
- > I have a SBS 2003 with dual NICs, but I am running the machine in a single
- > NIC configuration. I have set-up RRAS for remote access, which I have done
- > many times before on other machines. For this particular machine, when a RAS
- > client connection, the RRAS on the server adds a 2nd route for the local LAN
- > to the routing stack. With the same destination, but with the vpn client's
- > assigned IP address as the gateway.
- >
- > To illustrate:
- >
- > Before the VPN client connects, the routing table contains 10.0.0.0/24 with
- > a gateway of 10.0.0.1 (Server Local Area Connection address). This entry has
- > a metric of 10.
- >
- > After the VPN client connects, the routing table contains a 2nd entry of
- > 10.0.0.0/24 with a gateway of 10.0.0.118 (the address assigned to the RAS
- > client). This entry has a metric of 1. Since this route has a lower metric
- > it becomes the preferred route for the LAN and not of the PCs on the LAN can
- > communicate with the server.
- >
- > When the RAS client disconnects the route is removed, and the PC on the LAN
- > can reach the server again.
- >
- > I have dug through the RRAS configs many times and can't explain this. Does
- > anyone know what could be causing this? Or, can you provide some pointers on

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- > how you control the routes that get added to the server when a RAS client
- > connects?
- >
- > Thanks,
- > John