

Multihomed Server Routing Woes: Two network segments can't communi

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Hi All,

I'm having problems with a multihomed Windows 2003 server that I've inherited and is giving me some problems. I'd really appreciate any help or insight on the issues below.

Here's the setup:

We have an internal server, named "NMS", which has two NICs, with IPs of 192.168.1.5 and 170.34.179.1. Both NICs are connected to the same switch.

A second server is connected to the switch, it's got an IP of 192.168.1.144, and it's got a number of virtual machines on it with IPs of: 170.34.179.201, 170.34.179.132, and 170.34.179.63.

And then there are client workstations on the 192.168.1.x range also connected to the same switch or an uplinked switch.

NMS has RRAS setup and enabled as a "router" for "LAN routing only".

Here's my problem symptoms:

- NMS can ping all addresses on 192.168.1.x and 170.34.179.x.
- Any other machine on 192.168.1.x cannot ping any machine on 170.34.179.x.
- All of the machines with 170.34.179.x addresses can ping each other, and can ping NMS at both 170.34.179.1 and 192.168.1.5. They cannot ping anything else on 192.168.1.x.

What I'd LIKE to happen is for any machines on 192.168.1.x to be able to communicate freely with anything on 170.34.179.x. I'm not tied to this happening via NMS's being multihomed. If there's an easier way to accommodate this functionality, I'm all for it.

Lastly, here's the routing table for NMS:

IPv4 Route Table

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Interface List

```
0x1 ..... MS TCP Loopback interface
0x10003 ...00 12 79 d4 e5 92 ..... HP NC7782 Gigabit Server Adapter #2
0x10004 ...00 12 79 d4 e5 93 ..... HP NC7782 Gigabit Server Adapter
```

Active Routes:

```
Network Destination Netmask Gateway Interface Metric
0.0.0.0 0.0.0.0 192.168.1.1 192.168.1.5 10
127.0.0.0 255.0.0.0 127.0.0.1 127.0.0.1 1
170.34.179.0 255.255.255.0 170.34.179.1 170.34.179.1 10
170.34.179.1 255.255.255.255 127.0.0.1 127.0.0.1 10
170.34.255.255 255.255.255.255 170.34.179.1 170.34.179.1 10
192.168.1.0 255.255.255.0 192.168.1.5 192.168.1.5 10
192.168.1.5 255.255.255.255 127.0.0.1 127.0.0.1 10
192.168.1.255 255.255.255.255 192.168.1.5 192.168.1.5 10
224.0.0.0 240.0.0.0 170.34.179.1 170.34.179.1 10
224.0.0.0 240.0.0.0 192.168.1.5 192.168.1.5 10
255.255.255.255 255.255.255.255 170.34.179.1 170.34.179.1 1
255.255.255.255 255.255.255.255 192.168.1.5 192.168.1.5 1
Default Gateway: 192.168.1.1
```

Persistent Routes:

None

Any help or advice is greatly appreciated.

Thanks!

Evan

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