

# Re: Two networking cards

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*Source:*

<http://www.tech-archive.net/Archive/Windows/microsoft.public.windows.server.networking/2005-10/msg00151.html>

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- *From:* "Ray" <ray@xxxxxxxx>
  - *Date:* Mon, 10 Oct 2005 08:17:18 -0600
- 

Wendel, sorry for confusion. I've given all information on 4 cards. All of them connected Ineternet directly.

2 cards (in fact, it's a Dual Port card) on working one are, 155.57.19.210 with the gateway of 155.57.19.254 and 155.57.44.92 without the gateway (in fact, the gateway of 155.57.44.92/24 is 155.57.44.254, but the gateway isn't set because two cards are in win2k3 ). All computers on 155.57.19.0/24 and 157.57.44.0/24 can access them (including PING, we have file sharing service). The OS is windows 2003 enterprise version SP1.

2 cards (two separate cards) on non-working one are, 155.57.19.237 with the gateway of 155.57.19.254 and 155.57.44.72 without gateway either. Computers on 155.57.19.0/24 can access 155.57.19.237 and those on 155.57.44.0/24 can access 155.57.44.72, but 155.57.19.0/24 cannot access 155.57.44.72, vice versa. The OS is windows 2003 standard version SP1.

The networking settings of the two servers are same (at lease I think), is there an internal routing in a Dual Port card? Does 2003 enterprise support more powerful on two cards? Or other setting I can configure? I never set up a server with two cards before, so confused.

Thanks.

Ray

"Wendel Hamilton" <WendelHamilton@xxxxxxxxxxxxxxxxxxxxxxxxxxxx> wrote in message [news:366AE4E2-5772-4697-8A12-8436E517F130@xxxxxxxxxxxxxxxxxxxx](mailto:news:366AE4E2-5772-4697-8A12-8436E517F130@xxxxxxxxxxxxxxxxxxxx)

- > Ray,
- > Need more information on the physical topology
- > You have described only 2 out of the 4 network cards.
- > Is it?
- > <internet>----<nic2 155.57.19.0/24 server1 nic1xxx.xxx.xxx.yyy/24>-----,
- >
- > }-----<Workstations xxx.xxx.xxx.0/24>
- > <internet>----<nic2 155.57.44.0/24 server2 nic1 xxx.xxx.xxx.yyy/24>-----'
- >

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> or
> <internet>----<nic2 xxx.xxx.xxx.xxx server1 nic1 155.57.19.0/24>-----,
>
> }-----<workstations>
> <internet>----<nic2 xxx.xxx.xxx.xxx server2 nic1 155.57.44.0/24>-----'
>
> or
> <internet>----<nic2 xxx.xxx.xxx.xxx server1 nic1
> 155.57.19.0/24>-----<workstations>
>
>
> <internet>----<nic2 xxx.xxx.xxx.xxx server2 nic1
> 155.57.44.0/24>-----<workstations>
>
> or
> ,----<nic2 xxx.xxx.xxx.xxx server1 nic1
> 155.57.19.0/24>-----<workstations>
> <internet>-<Router>-{
>
> '----<nic2 xxx.xxx.xxx.xxx server2 nic1
> 155.57.44.0/24>-----<workstations>
>
>
> "Ray" wrote:
>
>> Hi there,
>>
>> Here is an interesting question. We have two servers, each of them has
>> two
>> networking cards, all of them connect Internet directly (two subnets,
>> 155.57.19.xxx and 155.57.44.xxx), but only cards on 155.57.19.xxx sets up
>> a
>> gateway, 155.57.19.254. My question is both cards on one of servers work
>> very well, computers on both subnets 155.57.19.xxx and 155.57.44.xxx can
>> access both cards, but one card on the other server works not well,
>> computers on 155.57.44.xxx can access 155.57.44.72, computers on
>> 155.57.19.xxx can access 155.57.19.237, but computers on 155.57.19.xxx
>> cannot access 155.57.44.72.
>>
>> Configuration of working one as
>> Windows 2003 Enterprise Version SP1
>> An Intel dual port networking card
>>
>> Configuration of non-working one as
>> Windows 2003 Standard Version SP1
>> One Intel(R) PRO/1000 XT Network Connection and one Intel(R) PRO/100 S
>> Server Adapter
>>
>> I don't know why one of them doesn't work. Is it networking configuration
>> problem, Windows 2k3 version problem or networking card problem? In fact,
>> I
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>> cannot figure out both two networking card connecting with Internet.

>>

>> Please see the attached route tables, the top one is from working server,

>> the bottom one is from non-working server.

>>

>> Thanks.

>>

>> Ray

>>

>> IPv4 Route Table

>> =====

>> Interface List

>> 0x1 ..... MS TCP Loopback interface

>> 0x10003 ...00 07 b3 2c d6 04 ..... Intel(R) PRO/1000 MT Dual Port Server

>> Adapte

>> r

>> 0x10004 ...00 07 b3 2c d6 05 ..... Intel(R) PRO/1000 MT Dual Port Server

>> Adapte

>> r #2

>> =====

>> =====

>> Active Routes:

>> Network Destination Netmask Gateway Interface

>> Metric

>> 0.0.0.0 0.0.0.0 155.57.19.254 155.57.19.210

>> 1

>> 127.0.0.0 255.0.0.0 127.0.0.1 127.0.0.1

>> 1

>> 155.57.19.0 255.255.255.0 155.57.19.210 155.57.19.210

>> 1

>> 155.57.19.210 255.255.255.255 127.0.0.1 127.0.0.1

>> 1

>> 155.57.44.0 255.255.255.0 155.57.44.92 155.57.44.92

>> 10

>> 155.57.44.92 255.255.255.255 127.0.0.1 127.0.0.1

>> 10

>> 155.57.255.255 255.255.255.255 155.57.19.210 155.57.19.210

>> 1

>> 155.57.255.255 255.255.255.255 155.57.44.92 155.57.44.92

>> 10

>> 224.0.0.0 240.0.0.0 155.57.19.210 155.57.19.210

>> 1

>> 224.0.0.0 240.0.0.0 155.57.44.92 155.57.44.92

>> 10

>> 255.255.255.255 255.255.255.255 155.57.19.210 155.57.19.210

>> 1

>> 255.255.255.255 255.255.255.255 155.57.44.92 155.57.44.92

>> 1

>> Default Gateway: 155.57.19.254

>> =====

>> Persistent Routes:

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```
>> None
>>
>>
>> IPv4 Route Table
>> =====
>> Interface List
>> 0x1 ..... MS TCP Loopback interface
>> 0x30004 ...00 02 e5 c2 3f fc ..... Intel(R) PRO/100 S Server Adapter
>> 0x30005 ...00 06 3e f2 ec c4 ..... Intel(R) PRO/1000 XT Network
>> Connection
>> =====
>> =====
>> Active Routes:
>> Network Destination Netmask Gateway Interface
>> Metric
>> 0.0.0.0 0.0.0.0 155.57.19.254 155.57.19.237
>> 1
>> 127.0.0.0 255.0.0.0 127.0.0.1 127.0.0.1
>> 1
>> 155.57.19.0 255.255.255.0 155.57.19.237 155.57.19.237
>> 1
>> 155.57.19.237 255.255.255.255 127.0.0.1 127.0.0.1
>> 1
>> 155.57.44.0 255.255.255.0 155.57.44.72 155.57.44.72
>> 20
>> 155.57.44.72 255.255.255.255 127.0.0.1 127.0.0.1
>> 20
>> 155.57.255.255 255.255.255.255 155.57.19.237 155.57.19.237
>> 1
>> 155.57.255.255 255.255.255.255 155.57.44.72 155.57.44.72
>> 20
>> 224.0.0.0 240.0.0.0 155.57.19.237 155.57.19.237
>> 1
>> 224.0.0.0 240.0.0.0 155.57.44.72 155.57.44.72
>> 20
>> 255.255.255.255 255.255.255.255 155.57.19.237 155.57.19.237
>> 1
>> 255.255.255.255 255.255.255.255 155.57.44.72 155.57.44.72
>> 1
>> Default Gateway: 155.57.19.254
>> =====
>> Persistent Routes:
>> None
>>
>>
>>
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- *Follow-Ups:*
  - ◆ *Re: Two networking cards*
    - ◇ *From:* Wendel Hamilton
  
- *References:*
  - ◆ *Two networking cards*
    - ◇ *From:* Ray
  
- Prev by Date: *Server 2003 Internet going offline in morning*
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