

Re: 2003 – multiple nics multiple subnets

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From: Phillip Windell (_at_)

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There should only be one Default Gateway. You should not have a Default Gateway on more than one NIC. Default Gateways are "global" in nature and by definition there can be only one. It should be placed on the one NIC that has either a direct route out of the private system or the route to some other router that does have a direct route out of the system.

Default Gateways are only for "unspecified routes",.... that is routes to places you don't own and don't have defined in a Routing Table,...such as the Internet. All other destinations are "specified routes" and use Routing Table entries and don't use Default Gateways.

If this represents a "hub & spoke" design with this machine being the "hub"... , and your description indicates this is true, ...then there simply are no other gateways because every subnet is a "directly-connected-network" and so the route to it is already established. But, if there are other routers scattered through out the network then either you must create static routes for them in the OS's routing table or enable and use "Routing Protocols" such as RIP and allow it time to automatically build its Route Table.

You should use RRAS (Routing and Remote Access) as the "service" and the "interface" to make the routing "happen".

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"Brian Graham" <brian.graham2@ntlworld.com> wrote in message
news:eCz4u6oEEHA.3040@TK2MSFTNGP12.phx.gbl...

> We have currently a windows 2000 advanced server with 4 NICs each having
> an
> ip address on 4 different subnets, and each configured with the gateway
for
> its own subnet, this has been a convenient arrangement in this environment
as
> there are only 4 subnets and this made RIS and DHCP work far better. There
> is only the one server in this ADS domain.
>
> I have come to install Windows 2003 enterprise edition onto a spare Compaq
> ML370 with an onboard network card and I have installed 3 additional 3com
> cards to make 4 in total, ie to duplicate the current structure. However,
> 2003 seems to take offence to me trying this. And sure enough does not

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> function correctly.
>
> I have looked and cant find any document or advice as to how to configure
> multilple network cards in a windows server environment, only that
relating
> to fault tolerance situations.
>
> Any ideas folks?
>
> Thanks
>
> Brian
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