

RE: NLB heartbeat clarification please.

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Source:

<http://www.tech-archive.net/Archive/Windows/microsoft.public.windows.server.clustering/2005-04/msg00249.html>

- *From:* Johnny Lundgren <JohnnyLundgren@xxxxxxxxxxxxxxxxxxxxxxxxxxxxx>
 - *Date:* Tue, 12 Apr 2005 02:41:07 -0700
-

Hi Charles,

Thanks for the info. I am trying to get a grip on it.
This is the environment I am forced to adapt to:

Today I have an Oracle/Domino back-end cluster (MSCS) based on Win2k3 EE.
The two servers on the front-end (based on Win2k3 Standard Ed) and back-end
will reside on the same subnet.
The front-end will contain an Oracle HTTP server and answer to clients
requests and then redirect it to the back-end.

I am planning to use both NIC:s in each server and use Unicast since that is
the most common used configuration with, as I understand, the least amount
of problems.

Since I am running out of public IP-addresses on the customers site my first
question is how many public IP-addresses will I need (two servers – two NICs)
?

Are my thoughts of the configuration within reason ?

I also looked on your Visio pictures.
Will not the hub be a bottleneck in this configuration ?

Thanks for your help so far.

Regards

Johnny Lundgren

"Charles Tolento" wrote:

- > Jonny
- >
- > The two nics as you mention below is the recommend way Microsoft suggests
- > you setup an NLB Cluster. Cluster Nic which houses the NLB VIP and the other
- > adapter is referred to as the Dedicated NIC. The Deficated Nic is used for
- > management and unique IP identification for that specific cluster node. In

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> other words the Dedicated NIC will have an IP Address that is different among
> all of your NLB cluster Nodes. From the two NIC setup you have a few options:
>
> 1. Are the NICs going to be on the same subnet?
>
> 2. Are the NICs going to be on different subnets?
>
> 3. Are you going to use Unicast Mode?
>
> 4. Are you going to use Multicast Mode?
>
>
> <http://www.windowsitpro.com/Windows/Article/ArticleID/15724/15724.html>
>
> "Johnny Lundgren" wrote:
>
>> Hello,
>>
>> I have done a lot of clustering with MSCS but nothing with the NLB protocol.
>> What strikes me the most when reading manuals, books and MS Technet articles
>> on this subject, is the confusion about what the NIC:s are for in each of
>> the servers.
>>
>> Please clear the following out for me:
>>
>> If I have two NIC:s in each of the two servers that are going to be used in
>> a NLB cluster, one adapter in each server is to be used as an
>> cluster-adapter (VIP).
>> The other adapter, on the other hand, I have found different explanations of
>> the usage.
>>
>> One explanation is that it is a NIC on a private network where all the
>> heartbeat traffic is routed (just as in MSCS).
>> Explanation number two is that all the heartbeat traffic is going through
>> the cluster adapter (and not the private adapter at all) and that the
>> private adapter is a management adapter of which you can manage the nodes
>> via NLB Manager.
>>
>> MS is also recommending not to use a crossover cable between the two servers
>> since the private adapters need to know about the traffic on the public
>> network.
>> Confusion !
>>
>> This needs a clarification. Please be specific on how to set the NIC:s up
>> and what they are really for.
>>
>> Regards
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>> Johnny Lundgren
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- ***Follow-Ups:***

- ◆ ***RE: NLB heartbeat clarification please.***

- ◆ *From:* Mike Rosado [MSFT]

- ***References:***

- ◆ ***NLB heartbeat clarification please.***

- ◆ *From:* Johnny Lundgren

- ◆ ***RE: NLB heartbeat clarification please.***

- ◆ *From:* Charles Tolento

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