

Re: Active/Passive to Active/Active

Source:

<http://www.tech-archive.net/Archive/Windows/microsoft.public.windows.server.clustering/2007-10/msg00337.html>

- *From:* "Ryan Sokolowski [MVP]" <ryan@xxxxxxxxxxxxxxxxxxxxx>
 - *Date:* Wed, 31 Oct 2007 11:18:39 -0700
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A/A means separate resource groups running on separate nodes, each doing work. For example, 2 separate instances of SQL, each running on a different node. However, you'll notice here that there is no load balancing between the nodes. Each node runs a different instance of SQL.

If you are only running a single (default) instance of SQL, there is no possible way to run it A/A. It is inherently configured to only run as A/P...get it?

A/A is tricky to get right. Not to set up or configure, but to avoid the temptation to overload / overtax each Active node. Remember that in an A/A configuration, you should never exceed 50% for each node. You have to have spare available resources to handle the failover of one node to another (RAM, Proc, network, etc). If both nodes run at 75% utilization, what happens when one node fails? Do the math...75% + 75% = 150% = looking for another job. :)

Hope this helps,
--Ryan

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Ryan Sokolowski
MVP - Windows Server - Clustering
MCSE, CCNA, CCDA, BCFP

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"Edwin vMierlo [MVP]" <EdwinvMierlo@xxxxxxxxxxxxxxxxxxxxxxxxxxxxx> wrote in message news:eikHXW6GIHA.4272@xxxxxxxxxxxxxxxxxxxxxxxxxxxxx

If your application needs to store data on a disk, then yes, you need a disk per application in each of your groups
If your application communicates over the network, e.g. clients need to connect to it, then you need an IP address and a Network Name for each of your applications / groups as well.

Best Practice: You should NOT install applications in the Cluster Group on

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the Q:\ (Quorum) disk.

Active Active means that node1 runs application1 and node2 runs application2.

Again, if it is only 1 application, then it will ONLY run on 1 node. MSCS will not do loadbalancing.

MSCS is a "shared nothing" cluster model, only one node has access to a resource at the time.

The articles you read are wrong, MSCS does NOT do loadbalancing. If you have 2 applications, then you can run 1 app on one node and another on another node, and spread the load this way, but this is not loadbalancing.

Rgds,
Edwin.

"Srinivasm" <Srinivasm@xxxxxxxxxxxxxxxxxxxxxxxxxxxx> wrote in message news:64168656-AB01-4438-9CD4-B7D83638DC2B@xxxxxxxxxxxxxxxxxxxx

Hi Edwin,

Thanks for your reply....according to your reply..

1 – I need separate disk ...

Currently I use only 1 disk shared for both machines i.e. Q:\

2 – You mention second application...

I don't have two applications...

Currently my service is installed on both machines, but the service

will

be running only on active machine, because few files are stored on Q:\

3 – Reg. IP and Network Name... I think it should be unique for each group.... right?

Finally... I did read some articles on google that MSCS also support loadbalancing with active/active i.e. it can use resources (RAM &

Processor)

on both machines to run the applications....it this wrong?

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Thanks,
Srinivas

"Edwin vMierlo [MVP]" wrote:

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sure

"Srinivasm" <Srinivasm@xxxxxxxxxxxxxxxxxxxxxxxxxxxx>

wrote in message

news:0A4B09F0-D7AF-4EB9-A1FC-BB7D78B70FA0@xxxxxxxxxxxxxxxxxxxx

Hi...

I have a active/passive setup in my lab, I
want convert it into
active/active cluster..

Is it possible to convert it into from
active/passive and

active/active...if

yes how?

- 1) Create a Group for your Service 1 call it "Service1"
- 2) Add a Disk, IP and Network name to this "Service1"
group
- 3) Move your "Generic Service" from the Cluster Group to
group

"Service1"

- 4) Test your application
- 5) Move Group "Service1" to node1

Then your second application

- 6) Create a Group for your second application, call this
"Service2"
- 7) Add a Disk (this is a different disk !!), IP and Network
name to
this
"Service2" group
- 8) Install your application in group "Service2"
- 9) Test your application
- 10) move Group "Service2" to node 2

Active/Active means you have two individual applications
not sharing

any
resources, running in two groups who are running on
different nodes in

your

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cluster.

Please note, this is NOT loadbalancing, MSCS does NOT do loadbalancing.

Hope this helps,

Rgds,

Edwin.