

Re: Clustering Question

Source:

<http://www.tech-archive.net/Archive/Windows/microsoft.public.windows.server.clustering/2007-11/msg00090.html>

- *From:* "Bryan Krossley" <krossley@xxxxxxxxxxxxxxxx>
 - *Date:* Sun, 11 Nov 2007 21:42:13 -0500
-

Thanks for the food for thought and the pro's and con's. I was thinking it would be good to do a test run and a Virtual test sounds pretty good. Because this is going to be an online auction site I just don't see how I can get around not using clusters. But as always I am open for suggestions.

Bryan

"Mathieu CHATEAU" <gollum123@xxxxxxx> wrote in message
<news:eyYU8T4IIHA.5328@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx>

Hello,

You could make a test environnement through Virtual Machine to get a picture on Cluster (how to set up...).

But you must be sure that you may afford this setup (license & hardware) before even testing.

You must always compare the cost of preventing a failure versus the probability of this failure and the probability of having a failure because of the high level of the setup.

I have seen a lot of service downtime because the admins didn't know how to works with a cluster. This wouldn't have happened with a simple stand alone server. In contrary, i never saw a node cluster burning in fire and the other node putting back service :(

Clusters are the way to achieve high availability but are definitely not "plug & play". You must have a lab experience before deciding to go cluster or not.

how to make a windows cluster wih VmWare Workstation:
www.blkmtn.org/system/files/VMware+clustering+1.0.pdf

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Cordialement,
Mathieu CHATEAU
English blog: <http://lordoftheping.blogspot.com>
French blog: <http://www.lotp.fr>

"Bryan Krossley" <krossley@xxxxxxxxxxxxxxxx> wrote in message

Re: Clustering Question

news:83295EC6-A9FA-4769-8DC6-35F82FFB4B18@xxxxxxxxxxxxxxxxxxxx

Edwin,

Thank you for your post. I would like to mention that I have been working as an IT administrator for the last 5 years and the last 10 in hardware component assembly, and like most I have developed websites in the past. I have worked with Windows 2003 Small Business Server, Exchange Server 2003 and 2000 SQL server but not in a clustered environment. Just not sure which software would best suit my needs. Now about the internet connection. I was using DSL and Cable as a reference only. I am sure that it is going to take more like a T1 or T3 connection to support the traffic especially after the site gets rolling.

I am trying to get all of this in mind before I start the project. I thank you again for your help.

If there is anyone else who would like to chime in I would love to year your suggestions.

Bryan

"Edwin vMierlo [MVP]" <EdwinvMierlo@xxxxxxxxxxxxxxxxxxxxxxxxxxxx>
wrote in message news:O0ZBDLrIIHA.4592@xxxxxxxxxxxxxxxxxxxxxxxxxxxx

wow, such a system would take a lot of postings to work out here in a discussion group.

Surely you need an internet connection, but surely the SLA you get on "Cable modem" and "DSL" connections is far from what you need for hosting a site.
But lets leave this asside for the moment.

Re-read the posts already in this thread, there is a lot of info already given on clustering and SQL.

Re-read the post from Mathieu CHATEAU, which clearly lists all components (times two) to do a very simple web hosting app in HA setup.
2 x server with Microsoft 2003 Web Edition (for NLB your website)
2 x server with Microsoft 2003 Entierprise Edition (for MSCS)

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2 x SQL 2005 standard Edition licenses
And your network gear : 2 routers, 2 switches, 2 Firewalls
and then 2 different ISP's for your connection
-> and this list is a very minimum list of equipment for
hosting a website.

Lets start with Basic Inventory, for just one component of
Mathieu's post,
the SQL cluster :

Do you want to cluster SQL ?
– then you need to get MS Windows 2003 Server Enterprise
Edition, to start
with. 2 licenses one for each node in the cluster.
– NO small business editions

What version of SQL ? 2000/2005 ?
– If the answer 2005 and you are only a 2 node cluster, then
you can use SQL
2005 standard edition.
– If the answer is 2000 then you need Enterprise Edition.
– If you will go to more than 2 nodes in your cluster then the
answer is
Enterprise Edition for both 2000 and 2005.
– NO small business editions

Do you have Hardware which is on the Windows Catalog ?
You need a full cluster solution which is on the Windows
catalog in order to
build a supported cluster, this means all hardware, servers,
switches, HBA
and your shared storage is on the Catalog as one qualified
solution. If it
is not, it might work, but don't call in for support when things
go hairy. I
suggest to talk to your hardware vendor to get quotations.

So, now we have nothing done yet, just listed an inventory.
None of the above is really cheap, so you really need to ask
yourself if you
are moving in the right path here.

Clustering is not as simple as "I have two boxes, lets slap
them together"
And definitely not done (=impossible) with Small Business
Edition.

It seems to me that you are quiet new to this, which is OK, I
remember how I
struggled when trying to design the first web app I put on the
wire.

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I would advice you to hire a company with a proven track record in building this type of setup, and get them to give you assistance.

Rgds,
Edwin.

"Bryan Krossley" <krossley@xxxxxxxxxxxxxxxx> wrote in message
news:B64780D6-6FFA-43D5-8A38-7799CFE37DCF@xxxxxxxxxxxxxxxx

What we are developing is an online auction site. (Hence high reliability)
Would we not need an internet connection?

Thanks,

Bryan

"Edwin vMierlo [MVP]"
<EdwinvMierlo@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx>
wrote in message
news:#6FuX0gIIHA.1212@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

> Bryan,
>
> you cannot install Cluster (MSCS) on a Small Business Edition, you > need
> Enterprise Edition or Datacenter.
>
> And what are you doing with Cable connections and DSL connections ?
> If you are clustering an SQL server (as per all posts in this thread)
> surely
> you want to do this behind a firewall, not connected to the internet.

>
> Rgds,
> Edwin.
>
> "Bryan Krossley"

<krossley@xxxxxxxxxxxxxxxx> wrote in message
>
news:%23Hx4KsgIIHA.6068@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

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>> So let me see if I have this right. Here is what my situation is.

>>

>> I will have two computer (nodes)

>> One computer will have Window Server Small Business Edition with >> Cable

>> Internet

>> The Other computer will have Window Server Small Business Edition >> With

>> DSL

>> Internet And 1 Instance of SQL Server Edition deployed to both

machines.

>>

>> Is this correct?

>>

>> Thanks,

>>

>> Bryan

>>

>>

>> "Russ Kaufmann [MVP]"

<russ@xxxxxxxxxxxxxxxx> wrote in message

>>

news:363DBB7D-2DF9-4485-831E-3E53DB004A32@xxxxxxxxxxxxxxxxxxxxx

>> > "Bryan Krossley"

<krossley@xxxxxxxxxxxxxxxx> wrote in message

>> >

news:OSIqHu8FIHA.1208@xxxxxxxxxxxxxxxxxxxxxxxxxxxxx

>> >> Thanks for all the replies. But I am a little confused. If both

> machine

>> >> don't have Sql installed and running how would they be redundant?

> Would

>> >> you not need at least two machine running the same software?

>> >

>> > When you install an instance on a cluster, you install the >> > instance

>> > (the

>> > install of SQL) to all nodes if you want to allow it to run on all

> nodes.

>> > When you install a second instance (another installation of SQL in >> > a

>> > different location), then you install it to

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all nodes if you want >> > it

to

> be
>> > able to run on all nodes.
>> >
>> > Then, to make it active/active, you run
one instance on one node >> > and
>> > run
>> > the other instance on the other node.
>> >
>> > Thus, instance1, if it fails on its active
node, it will failover >> > to
>> > the
>> > other node because all of the
installation files are there for >> > that
>> > instance. If instance2 fails on its active
node, it will failover >> > to
>> > the
>> > other node because all of the
installation files are there for >> > that
>> > instance, too.
>> >
>> > Refer to the books online for more
information about instances and

how

> to
>> > install SQL on a cluster.
>> >
>> >
>> > -- >> > Russ Kaufmann
>> > MVP – Windows Server – Clustering
>> > ClusterHelp.com, a Microsoft Certified
Gold Partner
>> > Web <http://www.clusterhelp.com>
>> > Blog <http://msmvps.com/clusterhelp>
>> >
>> > The next ClusterHelp classes are:
>> > Dec 10 – 13 in Denver
>> > Jan 21 – 24 in New York
>>
>
>

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