

Re: Unable to Apply SP4 to SQL 2000 Cluster (new Node)

Source:

<http://www.tech-archive.net/Archive/SQL-Server/microsoft.public.sqlserver.clustering/2006-12/msg00085.html>

- *From:* "Anthony Thomas" <ALThomas@xxxxxxxxxx>
 - *Date:* Wed, 20 Dec 2006 00:46:05 -0600
-

There are a couple of issues here; so, let me see if I have them straight, and then tackle them one at a time.

Yes, although you can run heterogeneous clusters, it is not recommend, and yes, not only does the hardware need to be on the HCL, the entire configuration must be in order to supported. With that said, MS PSS will still try to help out in most cases.

As for the volumes, I'm not quite sure what you mean by "on board." If that were the case, you would be using a RAID controller, not HBAs. So, I'll assume you mean either an externally connected array or a SAN.

Now, for the first problem, adding the 3rd node as a member of the cluster. Yes, when you have a shared system and shared bus configuration, the Advanced Configuration for the Cluster Add Node function is required. You may still want to add the registry key indicated in the KB article. I will note, however, that the location switched between Win2K3 and Win2K3 SP1. It used to be in the ClusSvc Key but moved to the ClusDisk Key so it would not be removed if the node was evicted, since the ClusSvc Key is regenerated in such cases but the ClusDisk Key is always present.

From what you said, you were able to make node 3 a member of the cluster,

and from prior messages, you were eventually able to move both the Cluster Resource Group and DTC Resource Groups between all three cluster nodes.

You then installed a 2nd instance of SQL Server. May I ask which member nodes were included in the SQL Server Setup? All 3 nodes? I have had problems installing SP4 prior to SP3, even on a new installation, but if you were able to, good. Can all member nodes take ownership of this second instance?

Now, you are trying to tackle including the new 3rd node as a potential owner of the 1st SQL Server instance, but are running into disk ownership messages. What is the exact error message? When do you receive it? Where did you locate the message? What method did you use to place the RTM bits

Re: Unable to Apply SP4 to SQL 2000 Cluster (new Node)

on the 3rd node? You will not be able to host disk or services on node 3 for SS instance one until the bits are at the same patch level. The cluster service will not allow you to move the group if any resource is not a designated owner. If all of them are, then you could offline the SQL Server resources, and then try to take ownership and only bring the disks, IP, and Network Name online. Is this when you get your error messages? If so, then it is probably a disk signature collision on node 3. If this is the case, examine HKLM\SYSTEM\MountedDevices. All disclaimers apply: but delete any shared resources, both GUID and Drive letter entries. Reboot the server, and then try to take ownership again without launching the LDM Administrator (remember, the SQL Server resources will not come online until the bits are at the same patch level).

If this is not the case, then I will need the answers to the above questions.

Now, when the 4th cluster node was added, were you again successful in adding it as a cluster node member? When you installed the 3rd SQL Server instance, which cluster nodes did you add as potential owners? Are you again attempting to add node 4 as a potential owner of SQL Server instance 1? And you are receiving the same error messages as on node 3?

Is it only the 1st SQL Server instance that you are have trouble with?

We will probably have to swap messages back and forth for a bit, but the more explicit you can be, and any supplementary documents you can provide (error logs, methods, etc.), the quicker this will go.

Sincerely,

Anthony Thomas

"hmscott" <hmscott@xxxxxxxxxxxxxxxxxxxxxxxxxxxx> wrote in message news:9547B1C4-9952-4B40-BE0C-E0AD864505F7@xxxxxxxxxxxxxxxxxxxx

I read through the KB article, but I'm not 100% certain it's going to apply

in this situation, unless it addresses broader issues that I'm not catching.

Here is our complete set up (and a bit more history below):

Re: Unable to Apply SP4 to SQL 2000 Cluster (new Node)

Re: Unable to Apply SP4 to SQL 2000 Cluster (new Node)

Node 1: IBM x346, QLogic dual port HBA, 4 on board drives configured as

RAID

10

Node 2: IBM x346, QLogic dual port HBA, 4 on board drives configured as

RAID

10

Node 3: Dell 2650, QLogic dual port HBA, 5 on board drives; RAID 1 and

RAID 5

Node 4: Dell 2650, 2 QLogic single port HBAs, 5 on board drives; RAID 1

and

RAID5

In the cluster administrator, there are 5 Groups:

Cluster Group (Disk, IP and Cluster Name)

MS DTC Group (Disk, IP, Network Name and DTC Application)

DBC01 (Disks, SQL Server resources)

DBC02 (Disks, SQL Server resources)

DBC03 (Disks, SQL Server resources)

Originally, this was a two node Active/Passive cluster using just the

IBMs.

We had a second Active/Passive cluster running on some older machines and

the

idea was to consolidate things into a three-node Active/Active/Passive cluster. Problems cropped up as soon as I added the third node. The

Cluster

Wizard couldn't find a shared (Quorum capable) disk on node three. I

found a

KB article that indicated that this sometimes happens in Windows 2003 (pre SP1, which we were at the time). The solution was to hit the back button, and use the advanced options to specify minimal checks during the analysis phase. The warning was to be certain that the drives were configured correctly.

I was able to proceed after that with no trouble at all, loading a second

Re: Unable to Apply SP4 to SQL 2000 Cluster (new Node)

instance of SQL 2000 and then patching it to SP4. I then started to configure the newly added third node to be "aware of" the first SQL

Instance

(since it was newly added, it had no knowledge of the first instance). I

was

able to load the RTM binaries, but when it came time to load SP4, I came across this same error (Virtual disks owned by another node). I get the same error with SP3, by the way.

I've been living with it for some time now, but recently we took our three node Active/Active/Passive cluster and made it a four node Active/Active/Active/Passive with a third instance of SQL Server 2000. That's where I am now.

Sorry, I realize it's a bit of a long tale.

Also, I have pretty much the exact same configuration in our test environment. The only exception is that all of our hardware in test is

Dell

(all Dell 2650s). Everything that I have done in our production

environment,

I have done in the test environment first (with no troubles at all).

I think I'm going to open a ticket with MS, but I'm a bit reluctant since it's not a supported configuration for clustering. I'm afraid all

they're

going to say is, "nice try, do it all over again."

Thanks for your kind responses.

Regards,

hmscott

"Anthony Thomas" wrote:

How to add a registry value to a Windows Server 2003-based computer that

you

Re: Unable to Apply SP4 to SQL 2000 Cluster (new Node)

start from a SAN so that the startup disk, the pagefile disks, and the cluster disks are all on the same SAN fabric

<http://support.microsoft.com/kb/886569>

Anthony Thomas

--

"hmscott" <hmscott@xxxxxxxxxxxxxxxxxxxxxxxxxxxx> wrote in message news:501F7E4D-6D5F-45C2-9D31-EBD1638F2361@xxxxxxxxxxxxxxxxxxxx

Scratch this post (I really am stretched thin). I found your reply to

my

other post.

Yes! I am using multi-pathing software. I am currently using IBM SDD

Driver

(we're mounted on a DS 8100 through an IBM SVC).

Can you tell me what the reg fix is for multi-pathing? Or just point

me

at

the MS KB?

Regards,

hmscott

"hmscott" wrote:

Anthony,

I'm sorry, I searched through the forum and did not find your

previous

Re: Unable to Apply SP4 to SQL 2000 Cluster (new Node)

post.

I looked at all of my posts and the oldest one I could find was

from

10/27

(which is maybe why I reposted on Saturday).

You mention that the shared drives are not properly configured. I

won't

dispute the point, but could you please elaborate?

I recognize that something is wrong in the MSCS configuration

because

when I

went to add another node in the cluster, the cluster configuration

utility

gave me a warning that the fourth node in the cluster was unable to

detect

the Quorum disk. I was able to "get around" that error message by

using

the

advanced configuration which bypasses some of the checks. Once the

node

was

Re: Unable to Apply SP4 to SQL 2000 Cluster (new Node)

added to the cluster, I was able to use the "Move Group" to pass the

"Cluster

Group" (containing the Quorum drive) around to all four nodes in the

cluster

with no trouble. Likewise, I was able to pass the MSDTC group

around to

all

nodes in the cluster.

I assumed that the error was because the local (on board) SCSI

drives

are

different among the four nodes. On two nodes, there is only one

virtual

disk

while on the other two nodes there are two virtual disks.

I again apologize if I did not pick up on your response to my first

post. I

realize it's very bad etiquette, but I am stretched fairly thin at

this

point. I would be very grateful for any added assistance you can

provide.

Re: Unable to Apply SP4 to SQL 2000 Cluster (new Node)

Regards,

hmscott
hugh.scott3.at.verizon.net

"Anthony Thomas" wrote:

I think you had an additional post, which I responded to, but you

had

some

things here that concern me as well.

First, you are installing SS2K on a Win2K3 SP1 machine. SP3 will

be

required. Moreover, SP1 security enhancements disable TCP until

after

you

apply SP3.

Specifically, items 5 and 6 below are unnecessary because item 2

already

deployed the RTM binaries.

The sequence is:

1. Add new node to cluster.
2. Install RTM SS2K and designate the node membership.
3. Create Named Pipe

Re: Unable to Apply SP4 to SQL 2000 Cluster (new Node)

aliases on each member
node for the Named

Instance you

are managing.
4. Install SS2K SP3 from
the active node.
5. Install SS2K SP4 from
the active node.
6. Install at least SP4
HF2040, but would be
highly recommended

that

you

apply SP4 HF2187.

Nevertheless, from your
other post, it appears that
you still have

not

gotten your shared volumes
configured correctly first.
This is a
prerequisite.

Sincerely,

Anthony Thomas

--

"hmscott"

<hmscott@xxxxxxxxxxxxxxxxxxxxxxxxxxxx>

wrote in message

news:9D800B12-9E4A-4A59-9E61-96CD6BDC1A7A@xxxxxxxxxxxxxxxxxxxx

O/S:
Windows
2003
Enterprise
SP1
SQL Server
2000 EE

Re: Unable to Apply SP4 to SQL 2000 Cluster (new Node)

(32 bit)

I had a
three-node
A/A/P
cluster.

This
weekend, I
added a
fourth node
and a third
active
instance

(A/A/A/P).

The
installation
process
went
smoothly:

1. Add new
node to
cluster
2. Install
SQL 2000
(RTM)
(new named
instance)
3. Install
SQL 2000
(SP4)
4. Install
SQL 2000
(hf 2040)
5. Install
SQL 2000
binaries on
newly
added node
for Instance
1
6. Install
SQL 2000
binaries on
newly
added node
for Instance
2

Re: Unable to Apply SP4 to SQL 2000 Cluster (new Node)

The
problem
came when
I tried to
apply SP4
on the new
node for

Instances 1

and 2. I
keep getting
the
following
error:

"All cluster
disks
available to
this virtual
server are
owned by

other

nodes."

It comes
right after I
type in the
name of the
Virtual
Server to

be

maintained.
I am outside
the
maintenance
window
now, so I
can't

run

SP4

from

Re: Unable to Apply SP4 to SQL 2000 Cluster (new Node)

the instance
that "owns"
the
resources. I
read
through the

installation

guide a
couple of
times, and
I've
searched a
fair amount
on the

boards. I

see where
other people
have come
across a
different
error (See
<http://support.microsoft.com/?kbid=905286>),
but I've
never seen

anyone

with

this
particular
error.

I have
another
three-node
cluster in
the test
environment
and

when I

added

the thrid
node for

Re: Unable to Apply SP4 to SQL 2000 Cluster (new Node)

that cluster
in, things
went just
fine.

I'd be
grateful for
any
thoughts
and/or
suggestions.

Here is the
tail end of
the
sqlsp.log
file:

```
13:07:47
Previous
Install
Version:
8.00.194
13:07:47
ReleaseSetupTopology
13:07:47
End Action
DialogShowSdMaintain
13:07:47
begin
ShowDialogsUpdateMask
13:07:47
nFullMask
=
0xb034603,
nCurrent =
0x400,
nDirection
= 1
13:07:47
Updated
Dialog
Mask:
0xb03e607,
Disable
Back = 0x1
13:07:47
Dialog
0x400
returned: 1
13:07:47
```

Re: Unable to Apply SP4 to SQL 2000 Cluster (new Node)

End Action
ShowDialogsHlpr
13:07:47
ShowDialogsGetDialog
returned:
nCurrent=0x2000,index=13
13:07:47
Begin
Action
ShowDialogsHlpr:
0x2000
13:07:47
Begin
Action:
DialogShowSdUpgrade
13:07:47
ShowDlgUpgrade
returned : 1
13:07:47
Checking
databases
on instance
'MSSQLSERVER'
13:07:47
Begin
Action:
Check for
VS Node
13:07:50
All cluster
disks
available to
this virtual
server are

owned by

other
node(s).
13:07:51
Setup was
unable to
verify the
state of the
server for

an

upgrade.

Re: Unable to Apply SP4 to SQL 2000 Cluster (new Node)

Verify the
server is
able to start
and that you
provided a
valid

sa

password

and restart
setup.
13:07:51
End Action
DialogShowSdUpgrade
13:07:51
End:
ShowDialogs()
13:07:51
Action
CleanUpInstall:
13:07:51
Installation
Failed.

Regards,

hmscott