

Re: Global Catalog Failure

Source:

http://www.tech-archive.net/Archive/Win2000/microsoft.public.win2000.active_directory/2006-02/msg00099.html

- *From:* "Janelle" <Janelle@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx>
 - *Date:* Mon, 6 Feb 2006 13:33:35 -0800
-

Yes I have used netdiag and dcdiag before and I have installed the support tools. But it does nothing when you have a hardware failure. My biggest issue is to provide failover at an economical cost

"Paul Bergson" wrote:

You should some tests against your production system if you are concerned about its helth.

If you need to run diagnostics against your Active Directory domain. Microsoft has written two good command line utilities that provide information to help troubleshoot problems you maybe experiencing. Knowing which switch options to select may not always be simple, but with this front end click and go.

You will still need the two command line tools. If you don't have the tools installed, you can install them from your server install disk.

d:\support\tools\setup.exe -or- The links to the files reside on the script download page listed below.

The script provides the option to run individual tests without having to learn all the switch options. It automagically outputs the test details to a text file and calls this text file up at the completion of the test. This makes it much easier to read and save the details for future use and analysis.

The front end is an hta file that provides check boxes, radio buttons and dialogue boxes for input. You have the option to select the local server or a remote DC via a text box.

This script is customizable. The storage location of the script storage of the output logfiles and diagnostic tools are modified by a const definition in the working storage section.

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The script is at <http://pbbergs.dynu.com/windows/windows.htm>, click downloads and then select the DCDiag GUI..., download it and save it to: c:\program files\support tools\

Just select both dcdiag and netdiag make sure verbose is set. (Leave the default settings for dcdiag as set when selected)

--

Paul Bergson MCT, MCSE, MCSA, CNE, CNA, CCA

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"Janelle" <Janelle@xxxxxxxxxxxxxxxxxxxxxxxxxxxx> wrote in message news:71B82F5A-9753-48DB-8900-04E314643B66@xxxxxxxxxxxxxxxxxxxx

I tried to promote my DC to a GC (in my test domain)and it looked like it was but it didn't work that way. I lost my GC to a hardware failure and my test domain has not been set to backup at this time. But I was never able to disjoin the old GC and things never worked right so I rebuilt my test domain. This makes me concerned about the real network and disaster recovery. Any ideas?

"Herb Martin" wrote:

"Janelle" <Janelle@xxxxxxxxxxxxxxxxxxxxxxxxxxxx> wrote in message news:2A536EEA-4897-451C-BA0E-7D63D75B01AA@xxxxxxxxxxxxxxxxxxxx

I have 5 child domains in a single forrest and one global catalog.

With five domains you must EITHER:

- 1) Make every DC a GC (or)
- 2) Make sure the INFRASTRUCTURE Masters are NOT GCs

(Making an IM a GC interferes with it's function but if every DC in the forest is a GC that become irrelevant.)

Note: You should NOT make every DC a GC in a LARGE forest, but you have indicated this is not the case for your network.

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Yes I was instructed that a singular global catalog was fine

In general, that is bad advise you were given.

You should have a MINIMUM of one GC per SITE.

You should have a MINIMUM of two GCs per site for fault tolerance.

Generally this means you want to have 2 x Sites GCs as a working minimum.

But with small forests you can just make all DCs GCs and get fault tolerance for practically no cost.

and that BDC were a thing of the past.

NT-BDCs are still supported but Win2000+ DCs are neither "Primary" (PDC) nor "Backup" (BDC) – they are just DCs.

You can have as many DCs per domain as you wish (as make sense, as you can afford.)

So how can I have a global catalog at each?
Is this a working network structure you currently have in place?

Yes. Most everyone with single domain forests or small forests (or such customers) does this once they understand what GCs do and the implications.

For large forests, the rule of 2 x Sites = GCs PLUS more for performance of "network applications" (e.g., Exchange) is used.

--

Herb Martin, MCSE, MVP

Re: Global Catalog Failure

Accelerated MCSE
<http://www.LearnQuick.Com>
[phone number on web site]

"Herb Martin" wrote:

"Janelle"

<Janelle@xxxxxxxxxxxxxxxxxxxxxxxxxxxx>

wrote in message

<news:8D7A72AD-C3D7-470D-A3B2-570EBDA9E1B1@xxxxxxxxxxxxxxxxxxxx>

No
misunderstanding
we only
have one
global
catalog,

The implication of the
SINGULAR is that you
believe that
you are to have but one
GC....

we are a
small
company
with limited
resources.

And since you already have
multiple DCs you can have
multiple GCs for free.

Why should
there be
more than
one global
catalog?

For fault tolerance. You
need a GC for reliable
logins

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AND for other purposes
(e.g., Exchange etc.)

Since you have multiple DC
and a SMALL forest of one
domain you should just
make EVERY DC a GC.

--

Herb Martin, MCSE, MVP
Accelerated MCSE
<http://www.LearnQuick.Com>
[phone number on web site]

"Herb
Martin"
wrote:

"Janelle"
<Janelle@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx>

wrote

in

message

<news:D8F65831-1C90-42D1-9243-F246A3F1ABF1@xxx>

My
global
catalog
failed
in
my
test
domain,
there
is
no
inexpensive
way
to
rebuild
it
so
I
have
opted
to
buy
an

Re: Global Catalog Failure

new
one.
This
may
me
begin
to
question
what
I
would
do
if
I
had
a
irreparable
failure
of
the
global
catalog
in
my
real
network.
How
do
you
replace
the
global
catalog
in
an
active
directory,
one
that
has
5
child
domains?

You
question
has
been
answered
by

Re: Global Catalog Failure

Jorge
and
Paul.

Just
make
a
new
GC
(and
NTDSUtil
metadata
cleanup
any
lost
DCs.)

BUT
there
is
also
a
strong
implication
of
a
misunderstanding
in
the
question
above:
"My
global
catalog"
(in
the
SINGULAR.)

You
should
generally
have
more
than
one
GC;
you
should
have
at
least

Re: Global Catalog Failure

one
PER
SITE,
and
more
for
fault
tolerance
(esp.
logins.)

With
a
single
domain
forest
you
should
just
make
ALL
DCs
into
GCs,
but
you
have
6
domains
(domain
plus
5
children)
so
this
does
not
apply
to
you.

If
one
of
the
domains
holds
the
vast
majority
of

Re: Global Catalog Failure

objects
or
the
forest
isn't
very
big
you
may
STILL
CONSIDER
making
every
DC
a
GC.

In
any
case,
if
you
have
a
LARGE
forest
then
you
need
more
GCs
(but
may
not
all
DCs.)

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Herb
Martin,
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number
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Re: Global Catalog Failure