

Re: Does DCdiag require WINS?

Source:

http://www.tech-archive.net/Archive/Windows/microsoft.public.windows.server.active_directory/2006-10/msg00682

- *From:* "Herb Martin" <news@xxxxxxxxxxxxxxxx>
 - *Date:* Fri, 6 Oct 2006 08:22:58 -0500
-

"Jorge Silva" <jorgesilva_pt@xxxxxxxxxxxx> wrote in message
news:e59IRvL6GHA.1248@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

Hi
use port query tool to check available ports
<http://www.microsoft.com/downloads/details.aspx?FamilyID=89811747-C74B-4638-A2D5-AC828BDC69>

Thanks, I didn't have that one.

Also NetCat and NMap may occasionally be useful.

NMap is focused more on "finding computers", and to use netcat the admin may need to know a bit more about the protocol but unlike using Telnet for command testing a port path/service, NetCat can "do UDP".

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Herb Martin, MCSE, MVP
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I hope that the information above helps you

Good Luck
Jorge Silva
MCSA
Systems Administrator
"Herb Martin" <news@xxxxxxxxxxxxxxxx> wrote in message
news:uQFGbiL6GHA.3760@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

No, but practically every Windows network requires NetBIOS resolution and THAT requires WINS Server (and every machine, including DCs a WINS client) IF

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you have more than one subnet (which is pretty much common with multiple domains.)

"cc0" <cc0@xxxxxxxxxxxxxxxxxxxxxxxxxxxx> wrote in message
news:8892A9A2-BE65-42B8-8CE0-FF93EEC05485@xxxxxxxxxxxxxxxxxxxx

I just added a Windows 2003 domain controller to each of our 5 remote locations. When I run dcdiag from my domain on these new controllers all of the tests pass.

Good.

DCdiag might conceivably be using NetBIOS to FIND all of the DCs but it really SHOULD do this through DNS.

We are also required to get a good dcdiag from our central office domain.

Good policy.

The problem I'm running into is that on these new domain controllers I am getting the error messages below. I've gone through most of the trouble shooting steps I've found on the web and everything looks OK as far as DNS and replication goes. We do not have WINS running in our domain but our central office does. MOM 2005 also shows no problems. When I added one of our new domain controllers to their WINS server the dcdiags from their domain to ours started passing.

This strongly implies that DCdiag is somehow using NetBIOS to find or connect to the machine to RUN the DCdiag (not the actual tests.) But this still doesn't sound right.

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AND I want to know if it turns out to be the case — I collect NetBIOS requirements <Grin> for Windows networks.

So here are my questions. Does dcdiag require WINS to properly run these tests from a higher up domain? Should we even be worried about running dcdiag from a higher level domain? Am I missing something?

Is your parent zone (at "higher up") delegate to your child zone (or have some other way to resolve its DNS) as it should?

If the parent isn't delegating then it would not be able to find the child DCs by DNS and when you add WINS registration this might be how DNS resolution fails over to the NetBIOS and then seems to work because of WINS (when really DNS is broken.)

With it working (registered in WINS) try the FULLY QUALIFIED child DC name: DC1.child.domain.com.

If this fails when WINS works, I would bet that your real problem is failure to delegate and resolve DNS from parent to child (which is a MUCH worse thing than just failing DCdiag from there.)

[Server1] An net use or LsaPolicy operation failed with error 53, The network path was not found..

And you might have some firewall issues from Parent net to child net....

If so these might be either DNS ports or those used by DCs for LDAP, Kerberos, or other purposes.....

If so, those problems need to be correct anyway since there is SOME (limited) replication between all domains in a forest (Scheme, Config, and GC.)

BTW: Do you have GCs at all locations?

If not, adding that to the child "location" (a DC there) may uncover further errors (due to firewalls or DNS) if it fails to replicate which it must for things to be

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correct.

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[Server1] An net use or LsaPolicy operation failed with error 53, The network path was not found..
..... Server1 failed test NetLogons

Starting test: Advertising

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Fatal Error:DsGetDcName (Server1) call failed, error 1722
The Locator could not find the server.
..... Server1 failed test Advertising

Starting test: MachineAccount
Could not open pipe with [Server1]:failed with 53: The
network path was
not
found.

Could not open Remote ipc to [Server1]:failed with 53: The
network path
was
not found.
..... Server1 failed test Services

[Server1] An net use or LsaPolicy operation failed with error
53, The
network path was not found..
..... Server1 failed test frssysvol