

# Re: DC/DNS/DFS/AD Problem???

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*Source:*

<http://www.tech-archive.net/Archive/Windows/microsoft.public.windows.server.networking/2006-12/msg00320.html>

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- *From:* "apprentice463" <[apprentice463@xxxxxxx](mailto:apprentice463@xxxxxxx)>
  - *Date:* 20 Dec 2006 08:33:51 -0800
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apprentice463 wrote:

Ace Fekay [MVP] wrote:

In [news:1166505078.557660.54530@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx](mailto:news:1166505078.557660.54530@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx), apprentice463 <[apprentice463@xxxxxxx](mailto:apprentice463@xxxxxxx)> stated, which I commented on below:

Here is the ipconfig from the server

Windows IP Configuration

Host Name . . . . . : selene  
Primary Dns Suffix . . . . . : auroranet.acsnet.ca  
Node Type . . . . . : Unknown  
IP Routing Enabled. . . . . : No  
WINS Proxy Enabled. . . . . : No  
DNS Suffix Search List. . . . . : auroranet.acsnet.ca  
acsnet.ca

Ethernet adapter AuroraNet:

Connection-specific DNS Suffix . :  
Description . . . . . : Realtek RTL8139 Family PCI  
Fast  
Ethernet  
NIC  
Physical Address. . . . . : 00-0D-88-31-BB-FD  
DHCP Enabled. . . . . : No  
IP Address. . . . . : 192.168.6.90  
Subnet Mask . . . . . : 255.255.255.0  
Default Gateway . . . . . : 192.168.6.1  
DNS Servers . . . . . : 127.0.0.1  
NetBIOS over Tcpip. . . . . : Disabled

Here is the ipconfig for another server in the network.  
Windows IP Configuration



## Re: DC/DNS/DFS/AD Problem???

Webserver. All incoming and outgoing traffic goes through a Checkpoint hardware firewall. For antivirus we use Computer Associates AV product.

btw– Why is NetBIOS disabled? There are some niceties that work with it, such as network neighborhood, network browsing, printer browsing on the network (not thru AD), mapped drives by single name.

My understanding is that only legacy systems pre W2K need netbios and possibly SAMBA, not sure about SAMBA though. The only other place that Netbios is required, that I know about, is when creating trusts between 2 forests. If we ever require it then I will reinstate it for creating the trust. All necessary drives/devices that each user requires are mapped using login scripts. BTW, I just disabled netbios about 2 days ago which was prior to our problem... got tired of seeing all the unnecessary broadcast traffic. Considering what you said though I believe that I will reinstate it on the DC and a test workstation and try another capture with it reinstated to see if the SMB error goes away. I think DNS is configured okay considering the DCDiag and Netdiag tests but DFS on the otherhand I am not sure about. Is there a tool that would test DFS because on a scale of 1 to 10 I know about .01

Is the DFS service enabled or disabled?  
Was a DFS root configured?

More info on DFS (generic search page):

<http://search.technet.microsoft.com/search/default.aspx?siteId=1&tab=0&query=DFS+2003>

DFS, whether be used or not, is also related to AD directory replication. Since you only have one DC, I wouldn't think this is an issue, however the service needs to be running whether you've configured a DFS root or not.

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Here are some issues that can cause slow performance. There were other hits that related to SQL.

822219 – You experience slow file server performance and delays occur when

you work with files that are located on a file server:

<http://support.microsoft.com/?kbid=822219&SD=tech>

JSI Tip 0992. SMB message signing will slow network performance.:

<http://www.jsifaq.com/SF/Tips/Tip.aspx?id=0992>

JSI Tip 9731. You experience slow network performance using ADSL ...:

<http://www.jsifaq.com/SF/Tips/Tip.aspx?id=9731>

Slow network performance occurs if you copy files to a domain controller that is running Windows 2000 or Windows Server 2003:

<http://support.microsoft.com/kb/321098>

Slow network performance occurs when you select a file on a share that uses NTFS:

<http://support.microsoft.com/kb/265396>

Is the DHCP Client Service disabled? This is a \*necessary\* service on a DC or any machine for that matter and controls the resolver service, whether the machine is a DHCP client or not. It must be enabled.

NetBIOS, although NOT used by AD, is used by other services, such as the neighborhood, printer browsing, etc. It is also \*REQUIRED\* by Exchange.

Are

you running Exchange?

SAMBA is an SMB to NFS translator to allow UNIX (Mac OSx, Linux, etc) to

coexist and act like a Windows machine and participate with network browsing, etc.

I would also change the DNS local loopback address to the actual address, in your case 192.168.6.90. Loopback addresses can cause 41960 errors. I would also create a reverse zone for 192.168.6.0/24.

Ace

Thanks Ace, I am not the client site right now. So some of these answers will be from memory. Most of this was in place before I arrived and as I mentioned before I am new to some of this so I will be asking some dumb questions. DFS is enabled but I don't think the root has been configured. I noticed when I sent you the ipconfig print out that DHCP was disabled on the DC and meant to ask you if the DHCP would be needed for DC/AD/DFS server.

Re: DC/DNS/DFS/AD Problem???

Thanks for the clarification on SAMBA.

I hope to get back to the site tonight verify some of the other items

A

Little bit of an update.

The DFS Service was enabled but no root. The DFS Root has now been defined.

I had seen most of the articles that you spoke of, although I should mention I tend to steer away from articles that don't refer to windows XP/2000/2003. I forgot to mention that I had already looked at kb321098 and when I checked the registry location specified the TcpDelAckTicks was set to 0 and TcpAckFrequency was set to 1 (kb328890). I tried different values for each of these although I didn't stray to far from the default settings.

The DHCP client service was enabled on all machines.

I have changed the DNS local loopback address to the actual address as suggested.

I even enabled netbios on the test workstation and the DC server.

None of the changes have made any difference so far. Unfortunately I can only work on these problems after hours. I do have all of next week to work on this problem because this client is shutting down from Dec 22 to Jan.3. One thing I want to try is a new NIC.

A

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