

# RE: Active Directory Repair indices

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*Source:*

<http://www.tech-archive.net/Archive/Windows/microsoft.public.windows.server.sbs/2007-05/msg02915.html>

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- *From:* Nick <[Nick@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx](mailto:Nick@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx)>
  - *Date:* Thu, 17 May 2007 17:18:01 -0700
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I'm having this same problem also. It happened about 6 months ago and after completely wiping the hard disk and restoring a backup from well before the time it first happened, it still would not boot properly. I ended up finding a corrupt USB driver. I only found that because after booting it 30 times in attempting to restore it, I saw the trend that it booted fine with the USB hard drive disconnected.

Well, now it's happening again. However, it's not as easy as a USB issue this time. I installed 6 updates last night and since restarting it will not boot properly. I'll try all of the steps listed in the previous post over the weekend, but what is causing this in the first place?

"Robert Li [MSFT]" wrote:

Hi,

Thanks for posing in our newsgroup.

From your description, I know that when you restart your Windows 2003 SBS R2, most times it gives a message saying 'Active directory is rebuilding indices.' If I am off-base, please don't hesitate to let me know.

First, the problem is critical and your business may be affected by the trouble. At this point a suggestion is to call CSS directly.

Please let me know the following to make the situation more clearly:

1. What important change did you make before the problem occurred?

Please take the following steps to narrow down this problem:

Step 1: Please make a clean boot to make sure the problem is not caused by some third party software.

1. Click Start->Run...->type msconfig and press Enter.
2. Click Services tab and select Hide All Microsoft Services and Disable All third party Services.
3. Click Startup tab and Disable All startup items.

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4. Click OK and choose Restart.
5. After reboot, check whether the problem still occurs.
6. If there are no more problems, please use the above steps to enable services and startup items one by one in order to figure out the root cause of this issue

Step 2: Is there an anti-virus software program installed on this domain controller? If so, please temporarily uninstall this software, will the same issue occur?

Step 3: Perform an offline defragmentation of directory database by referring to the following MS article to verify if this problem does not occur?

Compact the directory database file (offline defragmentation)

<http://www.microsoft.com/technet/prodtechnol/windowsserver2003/library/Operations/5dd6f9eb-0533-4474-ac52-dca78c5471dd.mspx>

Step 4: In Directory Services Restore Mode, run the semantic checker on the Active Directory database and see if it helps:

315136 How to complete a semantic database analysis for the Active Directory database by using Ntdsutil.exe

<http://support.microsoft.com/?id=315136>

Step 5: In Directory Services Restore Mode, check if SYSTEM has permission on system drive, Windows directory and windows\NTDS. You can also follow 816585 to apply Secure DC template (securedc.inf) to the server:

816585 HOW TO: Apply Predefined Security Templates in Windows Server 2003

<http://support.microsoft.com/?id=816585>

Also, based on my research, the issue is related to the AD database or the problem on the hard disk. That's not related to a special service.

If the problem persists, please help me collect the following information for further research:

1. Visit

[http://download.microsoft.com/download/b/b/1/bb139fcb-4aac-4fe5-a579-30b0bd915706/MPSRPT\\_DirSvc.EXE](http://download.microsoft.com/download/b/b/1/bb139fcb-4aac-4fe5-a579-30b0bd915706/MPSRPT_DirSvc.EXE) to download the file.

2. Run the MPSRPT\_DirSvc.exe on the server box.

3. Wait for 10~15 minutes.

4. Open Windows explorer, navigate to %SYSTEMROOT%\MPSReports\DirSvc\Logs\cab\

5. Send the .cab file directly to v-robelt@xxxxxxxxxxxx with subject: 38814409-Active Directory Repair indices.

I am looking forward to hear from you.

If you need further assistance, please don't hesitate to let me know.

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Best regards,

Robert Li(MSFT)

Microsoft CSS Online Newsgroup Support

Get Secure! – [www.microsoft.com/security](http://www.microsoft.com/security)

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This newsgroup only focuses on SBS technical issues. If you have issues regarding other Microsoft products, you'd better post in the corresponding newsgroups so that they can be resolved in an efficient and timely manner. You can locate the newsgroup here:

<http://www.microsoft.com/communities/newsgroups/en-us/default.aspx>

When opening a new thread via the web interface, we recommend you check the "Notify me of replies" box to receive e-mail notifications when there are any updates in your thread. When responding to posts via your newsreader, please "Reply to Group" so that others may learn and benefit from your issue.

Microsoft engineers can only focus on one issue per thread. Although we provide other information for your reference, we recommend you post different incidents in different threads to keep the thread clean. In doing so, it will ensure your issues are resolved in a timely manner.

For urgent issues, you may want to contact Microsoft CSS directly. Please check <http://support.microsoft.com> for regional support phone numbers.

Any input or comments in this thread are highly appreciated.

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<When I restart my Windows 2003 SBS R2, most times it gives a message saying  
<'Active directory is rebuilding indices.' This happens 3 times out of 5  
and  
<takes about 20-30 minutes each time. From this message I would imagine my  
<active directory is corrupt. But it is not . When i receive this message I  
<can restart the server in safe mode and run netdiag and dcdiag. Both tests  
<reply saying everything is working fine. Yet if I restart it once again  
says  
<repairing indices.  
<If during "repairing indices" I switch off the server and restart the  
server  
<it might start up 100%. which also tells me there is nothing wrong with AD.  
<If I leave windows to "repair AD" the server finally starts up but 80% of  
my  
<services do not start and my network does not work. I then have to restart  
<the server again ,even if I restart the services manually, to get the  
network  
<up and running.  
<I read somewhere that there might be a service that is not starting at  
<startup or not starting fast enough and then the reaping AD indices is  
the  
<default procedure that runs to try sort out the problem.  
<If this is the problem how do I determine which service is not starting up  
<in a timely fashion? My event log has alot of errors when this happens but  
<from the look of it, t is mostly due to the fact the services do not  
start. I  
<am running Windows 2003 SBS R2, SQL 2005, file and printer sharing, no  
<exchange, no email, no web. no other programs.  
<Any suggestions  
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