

# Re: Advice Needed on Migration

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- *From:* Meinolf Weber [MVP-DS] <meiweb(nospam)@gmx.de>
  - *Date:* Wed, 21 Jan 2009 12:04:12 +0000 (UTC)
- 

Hello Lee,

Open DNS management console and highlight the Forward/Reverse lookup zone, in the right pane you will see type.

From dcdiag, for the errors displayed there under "systemlog" check the event viewer system log. There you should find errors, which are maybe resolved. To make sure you can save and delete the systemlog and wait 2 days, then run dcdiag again. Rest seems to be fine.

From netdiag, the servers are not in the internet i hope, because you didn't use private ip range. Why 25.31.11.2 from a different ip range? Is it your ISP? For domain connectivity use only domain internal DNS servers, so point the server to the DC/DNS that should be removed.

If not done i would also update to SP2 and latest patches.

Best regards

Meinolf Weber

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Hello Meinolf please find below the test results foe netdiag and dcdiag, i would be grateful if you could check them for me also how do i check if im running an Active Directory Intergrated Zone?

Also these tests were taken when the server was online but for the last 3 weeks it seems to go offline every 2 hours and needs rebooting to restore connectivity with the network – i have installed new network card and dealt with all errors that were in event viewer – this server was due to be replaced in May but as i could not seem to

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resolve the issue we have decided to replace it now.

DCDIAG Test Results:

Microsoft Windows [Version 5.2.3790]  
(C) Copyright 1985–2003 Microsoft Corp.  
C:\Documents and Settings\Administrator>dcdiag

Domain Controller Diagnosis

Performing initial setup:  
Done gathering initial info.  
Doing initial required tests

Testing server: Default-First-Site\DC1  
Starting test: Connectivity  
..... DC1 passed test Connectivity  
Doing primary tests

Testing server: Default-First-Site\DC1  
Starting test: Replications  
..... DC1 passed test Replications  
Starting test: NCSecDesc  
..... DC1 passed test NCSecDesc  
Starting test: NetLogons  
..... DC1 passed test NetLogons  
Starting test: Advertising  
..... DC1 passed test Advertising  
Starting test: KnowsOfRoleHolders  
..... DC1 passed test KnowsOfRoleHolders  
Starting test: RidManager  
..... DC1 passed test RidManager  
Starting test: MachineAccount  
..... DC1 passed test MachineAccount  
Starting test: Services  
..... DC1 passed test Services  
Starting test: ObjectsReplicated  
..... DC1 passed test ObjectsReplicated  
Starting test: frssysvol  
..... DC1 passed test frssysvol  
Starting test: frsevent  
..... DC1 passed test frsevent  
Starting test: kcevent  
..... DC1 passed test kcevent  
Starting test: systemlog  
An Error Event occured. EventID: 0xC0001B78  
Time Generated: 01/20/2009 13:59:12  
(Event String could not be retrieved)  
An Error Event occured. EventID: 0xC0001B58  
Time Generated: 01/20/2009 14:13:38  
(Event String could not be retrieved)

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An Error Event occurred. EventID: 0x00000416  
Time Generated: 01/20/2009 14:13:46  
Event String: The DHCP/BINL service on the local machine,  
An Error Event occurred. EventID: 0xC0040007  
Time Generated: 01/20/2009 14:35:36  
Event String: The device, \Device\CdRom0, has a bad block.  
An Error Event occurred. EventID: 0xC0040007  
Time Generated: 01/20/2009 14:35:45  
Event String: The device, \Device\CdRom0, has a bad block.  
An Error Event occurred. EventID: 0xC0040007  
Time Generated: 01/20/2009 14:35:51  
Event String: The device, \Device\CdRom0, has a bad block.  
An Error Event occurred. EventID: 0xC0040007  
Time Generated: 01/20/2009 14:36:01  
Event String: The device, \Device\CdRom0, has a bad block.  
An Error Event occurred. EventID: 0xC0040007  
Time Generated: 01/20/2009 14:36:07  
Event String: The device, \Device\CdRom0, has a bad block.  
An Error Event occurred. EventID: 0xC0040007  
Time Generated: 01/20/2009 14:37:38  
Event String: The device, \Device\CdRom0, has a bad block.  
An Error Event occurred. EventID: 0xC0040007  
Time Generated: 01/20/2009 14:37:44  
Event String: The device, \Device\CdRom0, has a bad block.  
An Error Event occurred. EventID: 0xC0040007  
Time Generated: 01/20/2009 14:37:50  
Event String: The device, \Device\CdRom0, has a bad block.  
An Error Event occurred. EventID: 0xC0040007  
Time Generated: 01/20/2009 14:37:57  
Event String: The device, \Device\CdRom0, has a bad block.  
An Error Event occurred. EventID: 0xC0040007  
Time Generated: 01/20/2009 14:38:04  
Event String: The device, \Device\CdRom0, has a bad block.  
An Error Event occurred. EventID: 0xC0040007  
Time Generated: 01/20/2009 14:38:11  
Event String: The device, \Device\CdRom0, has a bad block.  
An Error Event occurred. EventID: 0xC0040007  
Time Generated: 01/20/2009 14:38:21  
Event String: The device, \Device\CdRom0, has a bad block.  
An Error Event occurred. EventID: 0xC0040007  
Time Generated: 01/20/2009 14:38:27  
Event String: The device, \Device\CdRom0, has a bad block.  
An Error Event occurred. EventID: 0xC0040007  
Time Generated: 01/20/2009 14:38:34  
Event String: The device, \Device\CdRom0, has a bad block.  
An Error Event occurred. EventID: 0xC0040007  
Time Generated: 01/20/2009 14:38:41  
Event String: The device, \Device\CdRom0, has a bad block.  
An Error Event occurred. EventID: 0xC0040007  
Time Generated: 01/20/2009 14:38:48  
Event String: The device, \Device\CdRom0, has a bad block.

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An Error Event occurred. EventID: 0xC0040007  
Time Generated: 01/20/2009 14:38:54  
Event String: The device, \Device\CdRom0, has a bad block.  
An Error Event occurred. EventID: 0xC0040007  
Time Generated: 01/20/2009 14:39:06  
Event String: The device, \Device\CdRom0, has a bad block.  
An Error Event occurred. EventID: 0xC0040007  
Time Generated: 01/20/2009 14:39:13  
Event String: The device, \Device\CdRom0, has a bad block.  
An Error Event occurred. EventID: 0xC0040007  
Time Generated: 01/20/2009 14:39:22  
Event String: The device, \Device\CdRom0, has a bad block.  
An Error Event occurred. EventID: 0xC0040007  
Time Generated: 01/20/2009 14:39:28  
Event String: The device, \Device\CdRom0, has a bad block.  
An Error Event occurred. EventID: 0xC0040007  
Time Generated: 01/20/2009 14:39:35  
Event String: The device, \Device\CdRom0, has a bad block.  
..... DC1 failed test systemlog  
Starting test: VerifyReferences  
..... DC1 passed test VerifyReferences  
Running partition tests on : TAPI3Directory  
Starting test: CrossRefValidation  
..... TAPI3Directory passed test  
CrossRefValidation  
Starting test: CheckSDRefDom  
..... TAPI3Directory passed test  
CheckSDRefDom  
Running partition tests on : ForestDnsZones  
Starting test: CrossRefValidation  
..... ForestDnsZones passed test  
CrossRefValidation  
Starting test: CheckSDRefDom  
..... ForestDnsZones passed test  
CheckSDRefDom  
Running partition tests on : DomainDnsZones  
Starting test: CrossRefValidation  
..... DomainDnsZones passed test  
CrossRefValidation  
Starting test: CheckSDRefDom  
..... DomainDnsZones passed test  
CheckSDRefDom  
Running partition tests on : Schema  
Starting test: CrossRefValidation  
..... Schema passed test  
CrossRefValidation  
Starting test: CheckSDRefDom  
..... Schema passed test CheckSDRefDom  
Running partition tests on : Configuration  
Starting test: CrossRefValidation  
..... Configuration passed test

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```
CrossRefValidation
Starting test: CheckSDRefDom
..... Configuration passed test
CheckSDRefDom
Running partition tests on : ne-rfca
Starting test: CrossRefValidation
..... ne-rfca passed test
CrossRefValidation
Starting test: CheckSDRefDom
..... ne-rfca passed test CheckSDRefDom
Running enterprise tests on : ne-rfca.local
Starting test: Intersite
..... ne-rfca.local passed test Intersite
Starting test: FsmoCheck
..... ne-rfca.local passed test FsmoCheck
C:\Documents and Settings\Administrator>
```

NETDIAG Test Results:

```
Microsoft Windows [Version 5.2.3790]
(C) Copyright 1985–2003 Microsoft Corp.
C:\Documents and Settings\Administrator>netdiag
```

.....

```
Computer Name: DC1
DNS Host Name: DC1.ne-rfca.local
System info : Microsoft Windows Server 2003 (Build 3790)
Processor : x86 Family 15 Model 4 Stepping 1, GenuineIntel
List of installed hotfixes :
KB890046
KB893756
KB896358
KB896422
KB896424
KB896428
KB899587
KB899588
KB899589
KB899591
KB900725
KB901017
KB901214
KB902400
KB904706
KB905414
KB907265
KB908519
KB908521
KB908531
KB910437
```

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KB911280  
KB911562  
KB911564  
KB911567  
KB911927  
KB912919  
KB914388  
KB914389  
KB916281  
KB917159  
KB917344  
KB917422  
KB917537  
KB917734  
KB917953  
KB918439  
KB918899  
KB920214  
KB920670  
KB920683  
KB920685  
KB921398  
KB921883  
KB922582  
KB922616  
Q147222  
Netcard queries test . . . . . : Passed

Per interface results:

Adapter : Local Area Connection 5

Netcard queries test . . . : Passed

Host Name. . . . . : DC1  
IP Address . . . . . : 25.14.168.11  
Subnet Mask. . . . . : 255.255.255.192  
Default Gateway. . . . . : 25.14.168.1  
Dns Servers. . . . . : 25.14.168.11  
25.31.11.2  
AutoConfiguration results. . . . . : Passed

Default gateway test . . . : Passed

NetBT name test. . . . . : Passed  
No remote names have been found.  
WINS service test. . . . . : Skipped  
There are no WINS servers configured for this interface.  
Global results:

Domain membership test . . . . . : Passed

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NetBT transports test . . . . . : Passed  
List of NetBt transports currently configured:  
NetBT\_Tcpip\_{1FE061C8-E0AE-40AD-977B-41D671C4707A}  
1 NetBt transport currently configured.  
Autonet address test . . . . . : Passed

IP loopback ping test . . . . . : Passed

Default gateway test . . . . . : Passed

NetBT name test . . . . . : Passed

Winsock test . . . . . : Passed

DNS test . . . . . : Passed  
PASS – All the DNS entries for DC are registered on DNS server  
'25.14.168.11'  
'.'  
[WARNING] The DNS entries for this DC are not registered correctly  
on  
DNS se  
rver '25.31.11.2'. Please wait for 30 minutes for DNS server  
replication.

Redir and Browser test . . . . . : Passed  
List of NetBt transports currently bound to the Redir  
NetBT\_Tcpip\_{1FE061C8-E0AE-40AD-977B-41D671C4707A}  
The redir is bound to 1 NetBt transport.  
List of NetBt transports currently bound to the browser  
NetBT\_Tcpip\_{1FE061C8-E0AE-40AD-977B-41D671C4707A}  
The browser is bound to 1 NetBt transport.  
DC discovery test . . . . . : Passed

DC list test . . . . . : Passed

Trust relationship test . . . . . : Skipped

Kerberos test . . . . . : Passed

LDAP test . . . . . : Passed

Bindings test . . . . . : Passed

WAN configuration test . . . . . : Skipped  
No active remote access connections.  
Modem diagnostics test . . . . . : Passed

IP Security test . . . . . : Skipped

Note: run "netsh ipsec dynamic show /?" for more detailed

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information

The command completed successfully

C:\Documents and Settings\Administrator>

"Meinolf Weber [MVP-DS]" wrote:

Hello Lee,

AD is based on DNS, so there is no need for changing the ip to the old one. If you still will do it change it and check that the record in DNS zones will also update.

Using the same name for the new DC creates additional workload for you and requires a temp DC to remove the old one and free the name for the new one.

Best regards

Meinolf Weber

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Thanks for that it will be a real help form me but i have two questions following that.

1. The old server will be removed from the network so the new server will be the DC/AD Server but i have to give that server the same ip address as the one i am removing from the system, is that ok and do i run it on a temporary address then change it once the old server is off the network?

2. Is it best practice to give the new domain controller a different name to the old one even when the old server is no longer on the network?

Thanks Again

"Meinolf Weber [MVP-DS]" wrote:

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Hello Lee,

– On the old server open DNS management console and check that you are running Active directory integrated zone (easier for replication, if you have more than one DNS server)

– run replmon from the run line or repadmin /showrepl (only if more than one DC exist), dcdiag and netdiag from the command prompt on the old machine to check for errors, if you have some post the complete output from the command here or solve them first. For this tools you have to install the support\tools\suptools.msi from the 2003 installation disk.

– Install the new machine as a member server in your existing domain

– configure a fixed ip and set the preferred DNS server to the old DNS server only

– run dcpromo and follow the wizard to add the 2003 server to an existing domain

– if you are prompted for DNS configuration choose Yes (also possible that no DNS preparation occur), then install DNS after the reboot

– for DNS give the server time for replication, at least 15 minutes. Because you use Active directory integrated zones it will automatically replicate the zones to the new server. Open DNS management console to check that they appear

– if the new machine is domain controller and DNS server run again replmon, dcdiag and netdiag on both domain

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controllers

– if you have no errors, make the new server Global catalog server, open Active directory Sites and Services and then double-click sitename, double-click Servers, click your domain controller, right-click NTDS Settings, and then click Properties, on the General tab, click to select the Global catalog check box

(<http://support.microsoft.com/?id=313994>)

– Transfer, NOT seize the 5 FSMO roles to the new Domain controller

(<http://support.microsoft.com/kb/324801>)

– you can see in the event viewer (Directory service) that the roles are transferred, also give it some time

– reconfigure the DNS configuration on your NIC of the 2003 server, preferred DNS itself, secondary the old one

– if you use DHCP do not forget to reconfigure the scope settings to point to the new installed DNS server

– export and import of DHCP database (if needed)

(<http://support.microsoft.com/kb/325473>)

– backup WINS

(<http://technet.microsoft.com/en-us/library/cc727901.aspx>)

– restore WINS

(<http://technet.microsoft.com/en-us/library/cc727960.aspx>)

– in Exchange system Manger under "Recipients" reconfigure the "Recipients update service" to the new DC/GC

Demoting the old DC (if needed)

– reconfigure your clients/servers that they not longer point to the old DC/DNS server on the NIC

– to be sure that everything runs fine, disconnect the old DC from the network and check with clients and

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servers the connectivity,  
logon and also with one client a restart to see  
that everything is  
ok

– then run dcpromo to demote the old DC, if  
it works fine the  
machine will move from the DC's OU to the  
computers container,  
where you can delete it by hand. Can be that  
you got an error  
during demoting at the beginning, then  
uncheck the Global catalog  
on that DC and try again

– check the DNS management console, that  
all entries from the  
machine are disappeared or delete them by  
hand if the machine is  
off the network for ever

– also you have to start AD sites and  
services and delete the old  
servername under the site, this will not be  
done during demotion

Best regards

Meinolf Weber

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[http://www.blakjak.demon.co.uk/mul\\_crss.htm](http://www.blakjak.demon.co.uk/mul_crss.htm)

Hello im currently running a  
network for a client that has  
three  
HP  
DL380G4 Servers running  
Windows Server 2003. They  
have 1 Domain  
Controller (DC1), 1  
Exchange Server (MS1) & 1  
ISA Server (ISA1).  
The DC1 Server has had  
many issues over the last

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month that are  
ongoing so the client has  
decided to replace their  
server, upto now  
i  
have only installed new  
systems from the ground up,  
this is my  
first  
time of replacing a current  
server with new hardware, i  
need to  
know  
how much work is involved  
in this in regards to Active  
Directory,  
links to the Exchange Server  
etc.  
Any links to help guides  
would be great.