



Network diagnostic for :



✓ Last reboot time : 9 days

### Server configuration :

✓ **Operating System** : Server 2003 R2 SP2

✓ Microsoft update : 0 high-priority update(s)

✓ **Processor** : 3.6GHz

! **RAM** : 1Gb

Recommendation : upgrade to 2Gb.

### Hard drive(s), total/free space

✓ OS (C:), 12Gb/5.3Gb

- ! Fragmentation.

✓ DATA (J:), 155Gb/75Gb

✓ **Device manager**

Recommendation : no problem found.

! **Disk management (Dell software)**

Recommendation : See below for detail.

? **Active Directory** : N/A

### Network status :

#### Event Viewer

##### • Application :

! Security policies are propagated with warning.  
0x534 : No mapping between account names and security IDs was done.

✗ Windows cannot create registry key and Windows cannot read the history of GPOs from the registry.

##### • Directory Service :

! Some warning on NTDS Replication.

##### • DNS Server :

✓ No problem found.

##### • File Replication Service :

✓ No problem found.

##### • System :

! Scope, 192.168.0.0, is 85 percent full with only 25 IP addresses remaining.

##### • Security :

✓ No problem found.

✓ **TCP/IP configuration**

IP address : 192.168.0.10 / C ; G. : 192.168.0.1


DNS : 192.168.0.10

! 100Mbit/s network card

Recommendation : Gb network card upgrade.


! **User profiles**

Recommendation : some local and roaming accounts which were removed are always available in the user profiles tab.

 Last reboot time : 57 days (reboot needed)

### Server configuration :

 **Operating System** : Windows 2000 SP4


 Windows update : 21 high-priority update(s)

Recommendation : upgrade to Microsoft update.


 **Processor** : 3.6GHz

 **RAM** : 4Gb

### Hard drive(s), total/free space

 OS (C:), 150Gb/82Gb

-  Fragmentation.

 DATA (J:), 256Gb/100Mb

 **Device manager**




Recommendation : no problem found.

 **Disk management** (Dell software)

Recommendation : no problem found.

 **SQL Server Enterprise**


Recommendation : no problem on the SQL Server Enterprise Management software.

-  No SQL backup to local drive.
-  DB shrink and defragmentation.
-  Update stats.


### Network status :

#### Event Viewer


##### • Application :

 Security policies are propagated with warning.  
0x534 : No mapping between account names and security IDs was done.

##### • System :

 The terminal server cannot issue a client license.


##### • Security :

 No problem found.

 **TCP/IP configuration**

IP address : 192.168.0.11 / C ; G : 192.168.0.1

DNS : 192.168.0.10

 1Gbit/s network card

 **User profiles**

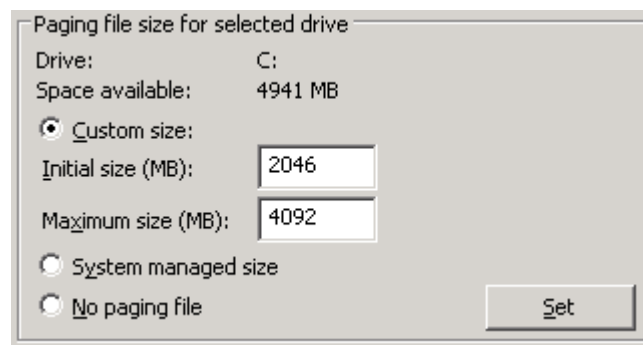
## Recommendations

DC : 192.168.0.10

### System properties

- ✓ We recommend to change some options “System failure” in startup and recovery properties. “Kernel memory dump” is no longer analyzed by Microsoft and therefore should be set to “none”.
- ✓ You can manage the amount of memory you would like to allocate for Virtual memory by entering the initial and maximum size.

We recommend to set initial and maximum size to the same value; it will prevent your server from fragmenting the paging file (see *image below*).



### DHCP

DHCP server scope for : (192.168.0.75 – 192.168.0.240)

Information about DHCP use:

- TOTAL : 165
- IN USE : 140 (85%)
- AVAILABLE : 25 (15%)

Gateway (*router*) used by users on scope is 192.168.0.1.

Gateway used by DC server is 192.168.0.15.

- ✓ We need further information to check if these configurations are correct or not.

In DHCP options, the default lease duration for DHCP clients is X. We recommend Y because shorter lease times mean that addresses can be reused more frequently and any changes to the DHCP options can be updated on clients more rapidly.

We strongly recommend to configure conflict detection; number of attempts should be Z.

## DNS

- domain.com
- domain2.ca
- domain3.com

3 forwarders in DNS server are enough. In your configuration, we can read 6 forwarders. This option can be optimized.

## OpenManage server administrator



Controller PERC 4/DC

- Firmware version is out of date.



Controller PERC 4e/Di

- Firmware version is out of date.

## Active Directory

- Domain functional level : Windows server 2003.
- Forest functional level : Windows server 2008.



Roles : Some roles are setup to DC, some others to DC2. Further investigation could be done if needed. They could be all moved to DC.

## Sites and services

In NTDS settings, Global Catalog are not enabled for DC2 and LADC.

ExternalSite2 site is empty.

We recommend to further investigate this information.



no issues found,



action suggested,



immediate attention,



further investigation needed.

SQL : 192.168.0.11

SPECIMEN

System properties

- ✓ We recommend to change some options "System failure" in startup and recovery properties. "Complete memory dump" is no longer analyzed by Microsoft and therefore should be set to "none".
- ✓ You can manage the amount of memory you would like to allocate for Virtual memory by entering the initial and maximum size.

We recommend to set initial and maximum size to the same value; it will prevent your server from fragmenting the paging file.

- ✓ We recommend to change values for Processor scheduling and Memory usage.

Adjust for best performance of : [REDACTED] and [REDACTED].

The screenshot shows two sections of the Windows System Properties dialog box. The top section is titled "Processor scheduling" and contains the text "Choose how to allocate processor resources." Below this, it says "Adjust for best performance of:" followed by two radio buttons. The first radio button is selected and is positioned next to a blacked-out text field. The second radio button is unselected and is positioned next to another blacked-out text field. The bottom section is titled "Memory usage" and contains the text "Choose how to allocate system memory." Below this, it says "Adjust for best performance of:" followed by two radio buttons. The first radio button is selected and is positioned next to a blacked-out text field. The second radio button is unselected and is positioned next to another blacked-out text field.

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-  Further investigation needed.