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Balancing the Workload of Clustered Domino Servers with NOTES.INI Parameters

Product information

Abstract

Domino server clusters have an optional workload balancing feature that lets you distribute the workload of heavily-used databases across multiple servers in a cluster. To distribute workload, you limit or restrict the work that a server can perform using the following settings in the NOTES.INI: **Server_Availability_Threshold** This setting allows you to specify the maximum availability level beyond which the server attempts to redirect user requests to other servers in the cluster. A server's ava

Content

Domino server clusters have an optional workload balancing feature that lets you distribute the workload of heavily-used databases across multiple servers in a cluster. To distribute workload, you limit or restrict the work that a server can perform using the following settings in the NOTES.INI:

Server_Availability_Threshold

This setting allows you to specify the maximum availability level beyond which the server attempts to redirect user requests to other servers in the cluster. A server's availability index is recalculated each minute and compared against any threshold you set. If the index falls below the server threshold, the server becomes BUSY. The Cluster Manager redirects access requests from a BUSY server to the servers in the cluster. When an attempt to redirect is unsuccessful, the user receives access to the BUSY server. Each time a redirection occurs, Notes generates a workload balancing event in the Notes log (LOG.NSF).

Server_MaxUsers

This setting specifies the maximum number of user sessions allowed on a server. When the server reaches this limit, the server goes into a MAXUSERS state. The Cluster Manager then attempts to redirect new user request to other servers in the cluster. To see how often requests are being redirected, check the LOG.NSF for failover events. If redirection of the user request is unsuccessful, the user receives a message, and is not allowed access to the server.

Server_Restricted

This setting enables a server to deny new open database requests and places the server in a RESTRICTED state. Users who have active connections to databases retain their connections. The Cluster Manager attempts to redirect new requests to other servers in the cluster. When an attempt to redirect is unsuccessful, the user receives a message and is not allowed access to the server. For each redirection attempt, Notes generates a failover event in the LOG.NSF.

Note: You can use the **Server_Restricted** setting for any Domino server. This setting is not restricted to clusters.

For additional information on these NOTES.INI parameters, please consult Appendix A of the Domino Administrator's Guide or the Domino Administration Help database.

Related Documents:

"Access to the Database has Been Restricted by the Administrator" Error Opening a 4.6x/4.5x Database
Document #: 163812

How Is a 4.5x Server's Availability Determined with the **Server_Availability_Threshold** Parameter?
Document #: 156414

What Is Failover and When Does It Happen in a Clustered Domino 4.5x Environment?
Document #: 158544

Document information

Product categories:

Software**Enterprise Messaging****Advanced Messaging****Lotus Domino****Lotus Domino Server**

Operating system(s):

Windows NT, OS/2 Warp, OS/2 Warp, Solaris, AIX

Software version:

5.x, 4.6x, 4.5x

Reference #:

7002910

IBM Group:

Software Group

Modified date:

2001-11-14

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- ☐ Strongly Agree
- ☐ Agree
- ☐ Neutral
- ☐ Disagree
- ☐ Strongly Disagree

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- ☐ Agree
- ☐ Neutral
- ☐ Disagree
- ☐ Strongly Disagree

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Related information

[How Is a Domino Server's Availability Determined with t](#)

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R5 Domain Search URL Not Working Against Domino 4.5x HTTP Web Server

Technote**Problem**

You are using the Domino R5 Domain Search capability within mixed R4 and R5 environments to search for documents via a Web browser. The R5 documentation as well as Notes.Net articles indicate that this should work; however, you encounter the following error message when accessing documents on R4 servers via Web browsers using R5 Domain Search:

"Error 500: HTTP Web Server: Unknown Command Exception"

Solution

This issue was reported to the Lotus Quality Engineering; however, currently there are no plans to address it in the Domino 4.5x product series.
Workaround: Have the databases in the search reside on an R5 server, or have users perform the search using a Notes client instead.

Supporting Information:**Related Documents:****Historical Number**

172620

Document information

Product categories:

Software**Enterprise Messaging****Advanced Messaging****Lotus Domino****Lotus Domino Server**

Operating system(s):

Platform Independent

Software version:

5.x, 4.6x, 4.5x

Reference #:

1084914

IBM Group:

Software Group

Modified date:

1999-09-17

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- ☐ Agree
- ☐ Neutral
- ☐ Disagree
- ☐ Strongly Disagree

The language of this material is easy to understand.

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- ☐ Agree
- ☐ Neutral
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Notes R5 Archiving Is Missing the Ability to Archive Selected Documents

Technote**Problem**

Notes R5 Archiving is missing the ability to only archive selected documents. This option was available in Notes R4.6 (MAIL46.NTF template) by selecting Actions, Mail Tools, Archive Selected Documents.

Solution

This issue was reported to Lotus Quality Engineering and has been addressed in Notes 5.0.1.

To archive selected documents in Notes R5.01 and above, use Actions, Archive, Selected Documents.

Supporting Information:**Related Documents:****Historical Number**

172928

Product Alias/Synonym

Lotus Notes Client

Document information

Product categories:

Software**Enterprise Messaging****Advanced Messaging****Lotus Notes****Lotus Notes**

Operating system(s):

Platform Independent

Software version:

5.x

Reference #:

1102397

IBM Group:

Software Group

Modified date:

2002-09-12

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- ☐ Strongly Agree
- ☐ Agree
- ☐ Neutral
- ☐ Disagree
- ☐ Strongly Disagree

The language of this material is easy to understand.

- ☐ Strongly Agree
- ☐ Agree
- ☐ Neutral
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- ☐ Strongly Disagree

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Netscape to Notes/DUS Migration Tool Truncates Attachments' Long Filenames

Technote

The information below refers to Lotus software releases that are no longer sold or supported and is provided as is. In some cases, document links return an error. To obtain a document referenced within this document, search on that document's number.

Number: 171840

Problem

You are migrating a folder with messages from Netscape to a Notes mail file, using either BT Netscape to Notes 4.x Migration Tool, Release 1.12, or Netscape Mail to Domino R5 DUS. You find, however, that attachments from originating mail that have long filenames (i.e., greater than 11 or 12 characters) have their filenames truncated, with appended information on the original filename in parenthesis and accompanied by the following message:

" Note: Some attachment file names have been truncated or changed, the full name is listed next to the attachment."

As a result of this truncation, Notes Viewer is not able to "Launch" the file with its associated program, although the "View" option is still able to view the file, if it is of a supported format.

Solution

This issue was reported to Lotus Quality Engineering and has been addressed in the Netscape-2-Notes Migration Tool, Release 1.13 and in the Netscape to Domino Upgrade Service Release 5.0.3.

Workaround: To "Launch" the associated program with the truncated attachment file, detach the file and rename it to either its original filename (as provided in the message with parenthesis) or any other filename that is supported by the operating system.

Supporting Information

Note: As of February 15, 2001, Lotus is no longer distributing this migration tool from Binary Tree. Customers should contact Binary Tree to obtain their new Common Migration Tool to migrate data to Notes. Visit the [Binary Tree](http://www.binarytree.com) Web site (www.binarytree.com) for more information.

Lotus will continue to provide support for this migration tool until June 30, 2001.

Steps to Reproduce :

1. Access the Migration Tool database (ns2notes.nsf).
2. Create emails to be sent to your Netscape Messenger client with attachment of filename exceeding 11 or 12 characters and another message with an attachment not exceeding 11 or 12 characters.
3. Configure the necessary settings, including selecting relevant Netscape Folder to be migrated and the destination Notes mailfile.
4. After exporting messages from Netscape selected folders to a temporary directory, import the messages to Notes mail accordingly.
5. View the message from the Notes client. The filename is truncated for those attachments exceeding 11 or 12 characters, with appended info on original filename, and the message as cited in the Problem section above.
6. Double-click the attachment and "View" file. This works fine if the attachment is of a supported format.
7. Close "View" and now try to "Launch" the attachment. It does not work because the truncation of the filename excludes the file extension's reference to the associated program.

Related Documents

End of Support and Distribution of Binary Tree Migration Tools

Document #: 184461

Document information

Product categories:

Software

Enterprise Messaging

Enterprise E-mail

Lotus End of Support Products

Software version:

Netscape to Domino Upgrade Service 5.0, Netscape-2-Notes Migration Tool 1.12

Reference #:

85256AEF00772779

IBM Group:

Software Group

Modified date:

2003-01-09

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☐ Neutral

☐ Disagree

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Technote

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Number: 162103

Problem

A Domino Release 4.5x/4.6x server crashes and Notes RIP or NSD files similar to the following are generated:

Summary of NSD or RIP:

```
-> _NIFGetCollectionInfo@24+005B <-  
-> _ServerCloseCollection@8+0078 <-  
-> _ServerMiscFunction@8+0639 <-  
-> _DbServer@8+02DC <-  
-> _Scheduler@4+0159 <-  
-> _ThreadWrapper@4+002A <-
```

Summary of NSD or RIP:

```
-> _MatchHTCollectionUser@36+008C <-  
-> _NIFOpenCollection@40+0109 <-  
-> _ServerOpenCollection@8+04F9 <-  
-> _DbServer@8+02DC <-  
-> _Scheduler@4+0159 <-  
-> _ThreadWrapper@4+002A <-
```

Summary of NSD or RIP:

```
-> _MatchHTCollection@12+0087 <-  
-> _OpenCollection@20+0133 <-  
-> _NIFOpenCollection@40+0721 <-  
-> _ServerOpenCollection@8+04F9 <-  
-> _DbServer@8+02DC <-  
-> _Scheduler@4+0159 <-  
-> _ThreadWrapper@4+002A <-
```

Summary of NSD or RIP:

```
-> _OSLockWriteSem@4+0017 <-  
-> _BUFLockContainer@12+0039 <-  
-> _BUFIsContainerModified@8+001F <-  
-> _NSFSlotUnPin@12+0025 <-  
-> _NSFSlotChangePin@24+00E1 <-  
-> _BTFindKeyNode@28+0086 <-  
-> _BTGetKeyDPTR@28+008C <-  
-> _FindEntryDptr@12+0087 <-  
-> _GetCollatedEntryDataDptr@12+013C <-  
-> _ObtainEntryDptr@24+0031 <-  
-> _UpdatePermutations@28+01CD <-  
-> _UpdatePermutations@28+00A8 <-  
-> _ModifyPermutations@20+0069 <-  
-> _UpdatePermInIndex@20+0048 <-  
-> _ProcessNote@12+029E <-  
-> _UpdateCollection@4+0569 <-  
-> _NIFUpdateCollectionNext@4+0096 <-  
-> _ServerOpenCollection@8+069A <-  
-> _DbServer@8+02DC <-  
-> _Scheduler@4+0159 <-  
-> _ThreadWrapper@4+002A <-
```

Solution

The crash is due to a possible Literal String in the Column formula of a view.

To work around this issue, you can manually edit a column of the views and resave. This forces a recompile of the formula. Running a utility such as UPDALL will not compile all the formulas.

Supporting Information

This RIP summary is similar to the RIP summary found in the document titled "Domino 4.6x Server Crash with "MatchHTCollectionUser" (#177880 [Link](#));

Document information

Product categories:

Software**Enterprise Messaging****Enterprise E-mail****Lotus End of Support Products**

Software version:

**Domino Server 4.6x,
Domino Server 4.5x**

Reference #:

85256CC300008D36

IBM Group:

Software Group

Modified date:

2003-02-03

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however, the crash discussed in #177880 appears to call out random databases and is not consistently a single database. The crash discussed above is more database specific.

Related Documents

Domino 4.6x Server Crash with "MatchHTCollectionUser"
Document #: 177880

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Server Crash: "Fatal Error - Router: Unable to Deliver Message 000000000"

Technote

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Number: 163040**Problem**

A Domino 4.5x or 4.6x Server crashes with a fatal error on the Router process. The error may occur when a message fails delivery because of message corruption, resulting in a document ID of 00000000.

Example:

```
Count: 104/06/98 09:10:34 Router: Unable to deliver message 00000000
username@email_address.domain.net@smtp from UNID -
OF00000000:00000000ON00000000:0000000004/06/98 09:10:34
Recipient's
Name & Address Book entry does not specify a mail fileFatal Error signal =
0x0000000b PID/TID = 9026/5 Siginfo: signalcode=1 addr=0x0000482f
trap=0Freezing all server threads ...
```

NOTE: Recipients of Notes mail or Internet mail may experience this error.

Solution

This issue was reported to Lotus Quality Engineering and has been addressed in Domino Release 4.5.4 and Domino Release 4.6.1.

Supporting Information**Related Documents****Document information**

Product categories:

Software**Enterprise Messaging****Enterprise E-mail****Lotus End of Support Products**

Software version:

**Domino Server 4.6b,
Domino Server 4.6a,
Domino Server 4.6,
Domino Server 4.5.3b,
Domino Server 4.5.3a,
Domino Server 4.5.3,
Domino Server 4.5.2b,
Domino Server 4.5.2,
Domino Server 4.5.1,
Domino Server 4.5a,
Domino Server 4.5**

Reference #:

85256CC2008392F3

IBM Group:

Software Group

Modified date:

2004-03-15

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☐ Agree

☐ Neutral

☐ Disagree

☐ Strongly Disagree

The language of this material is easy to understand.

☐ Strongly Agree

☐ Agree

☐ Neutral

☐ Disagree

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Understanding the Race Condition and Memory Deadlock

Technote

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Number: 167837

Problem

What is a race condition and how can one be recognized?

Solution

What is a race condition?

A race condition can be explained as a thread that cannot be released after a task or process has completed. The semaphore deadlock or race condition may occur as a result of excessive processes or threads being opened. A point is reached where most of the necessary core of Domino/Notes is running low on process memory and, as a result, may contribute to a possible crash or hang at the Domino server. The crash or hang may occur on any task or process on the server, running any platform. The opportunity for this race condition is very small and should not occur in the normal course of usage.

How can a race condition be recognized?

To recognize a race condition, you may identify it by viewing the Notes.RIP or NSD log, where the specific thread stack of a locked handle, memory or OS pool may occur, such as the example below.

IMPORTANT: The function calls in the following RIP file are calls common to many crashes and are not always indicative of a "race condition." If you see these same function calls in your RIP file, that does not necessarily mean that you have a race condition.

```

SIGSEGV: Segmentation Fault
Panic(0x888801b1,0x88880000,0x1b1,0x0,0x1b0,0xeef74380) + 13c
Halt(0x1b1,0x38,0x31,0x0,0x0,0x0) + 44
AccessAllProtected(0xeeebb70c,0x38,0xef62ac7c,0x0,0x0,0x0) + bc
AccessAll(0x148,0x5e44,0x1,0x1,0x0,0x0) + 64
Access(0xeeebcb50,0x1,0x1,0x0,0x0,0x0) + a4
LockMem(?) + 50
FarLockMem(0xeeebcb50,0x683,0x0,0x0,0x0,0x0)
AccessSHTChunks(0x1,0x0,0x0,0xef62ac7c,0x0,0x0) + b8
LockHandle(0x2801,0xefff314,0xefff310,0x0,0xef6a9d70,0x0) + 5c
OSMemGetFaultHandle(0x2801,0x0,0x0,0x0,0x0,0x0) + 10
OSLockPool(0xef6a9d78,0x2801,0x0,0x0,0x0,0x0) + c
OSLockVPool(0xef6a9d70,0x2801,0x0,0x0,0x0,0x0) + 24
StaticInitProcess(0x0,0x1,0x0,0x0,0x0,0x0) + 48
MemoryInitProcess(0x0,0x1,0xffff,0x2000,0x2000,0xef68caa4) + b0
MemoryInit1(0x1,0xef62ac7c,0x0,0x0,0x0,0x0) + 380
OSInit(0x0,0x540d,0xef62ac7c,0xef7f98f8,0xef7f98e0,0x0) + 24
NotesInitIni(0x0,0xef059688,0xef7fac24,0x131a0,0x11f34,0xef010d50) + 24
NotesInit(0x0,0xefff1c,0x26904,0x12810,0x119d4,0xeef059e0) + 30
NotesInitExtended(?) + 34
__fnonstd_used(0x2,0xefff1c,0xeef91210,0x10074,0x2,0xeef91210) + 10450
notes_main(?) + 8
main(0x0,0x0,0x0,0x2,0xefff1c,0x0)

```

Supporting Information

Many fixes on race conditions have been identified and addressed in various releases of Domino. There is still a low opportunity for such an occurrence to be encountered under the current releases of Domino. This issue has been reported to Lotus Quality Engineering.

Related Fixes:

[Excerpt from the Lotus Notes and Lotus Domino Release 4.5.5 and 4.6.1 QMR fix lists:](#)

Document information

Product categories:

Software**Enterprise Messaging****Enterprise E-mail****Lotus End of Support Products**

Software version:

**Domino Server 4.6x,
Domino Server 4.5x**

Reference #:

85256CC30008F86

IBM Group:

Software Group

Modified date:

2004-03-15

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☐ Agree

☐ Neutral

☐ Disagree

☐ Strongly Disagree

The language of this material is easy to understand.

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☐ Agree

☐ Neutral

☐ Disagree

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- SPR# JPAI3RSHFP - Fixed a potential race condition during a clustered server startup where the cluster directory database (clbdir.nsf) may not be completely populated, which could affect cluster replication.

Excerpt from the Lotus Notes and Lotus Domino Release 4.5.3b QMU fix list:

- SPR # MKEN3MGTUX - Fixed a server termination problem caused by a file cache race condition, where two threads are incorrectly using the same file cache entry.

Related Documents

Known Cause of Server Deadlock in V3
Document #: 113026

Semaphores and Semaphore Timeouts
Document #: 112710

File Cache Problems Resulting in Client Errors and Server Crashes
Document #: 156665

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Person Documents Are Truncated When Password Checking is Enabled

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Number: 147623**Problem**

Person documents are truncated when password checking is enabled. Specifically, when the encrypted password is added to the Password Digest field in the Person document, Rich Text Fields (RTFs) are stripped and the document becomes truncated.

Solution

This issue was reported to Lotus Quality Engineering and has been fixed in Notes 4.5.2.

NOTE: There has been one reported case of this issue still occurring in Notes Release 4.5.5; however, the issue cannot be reproduced by Lotus Quality Engineering in Notes Release 4.5.5.

Excerpt from the Lotus Notes and Lotus Domino Release 4.5.2 QMR fix list :

- SPR# TEMN3F5EHK - Prevent Person documents which contain rich text fields (such as the Photograph or Signature fields which were available in R3.x) from being damaged (truncated and uneditable) when password checking is enabled and the Administration Process processes the document.

This issue can occur if the Photograph or Signature fields remain after user registration in Notes 3.x. Even if the design of the Name & Address Book (NAB) is replaced or refreshed using the Notes 4.1x or 4.5x templates, the fields remain if they have been populated in any way, including the presence of a null character.

Note: The addition of any RTF to the Person document also results in this issue.

Strip out RTFs before enabling the password checking feature. RTFs remaining from a Notes 3.x registration such as Photograph and Signature may remain in the document after migration and need to be removed.

Supporting Information

The following steps illustrate when and how this issue occurs:

1. Enable Password Checking in the Server document.
2. Enable Password Checking in the Person document by running the agent to "Set Password Fields." This places a request in the Administration Requests database.
3. When AdminP processes the request and writes the setting to the Person document, everything is fine.
4. When the user authenticates, the user's encrypted password is written to the Password Digest field of the Person document.
5. If there are RTFs in the Person document, they will be stripped out and the document truncated

This does not seem to effect user access to the server and password checking still seems to work correctly.

Related Documents

Error: "You Have a Different Password on Another Copy of Your ID..." Using Password Digest
Document #: 146653

Document information**Product categories:****Software****Enterprise Messaging****Enterprise E-mail****Lotus End of Support Products****Software version:****Notes Client 4.5****Reference #:****85256CAD0071CCAC****IBM Group:****Software Group****Modified date:****2004-03-15**

This material provides me with the information I need.

☐ Strongly Agree☐ Agree☐ Neutral☐ Disagree☐ Strongly Disagree

The language of this material is easy to understand.

☐ Strongly Agree☐ Agree☐ Neutral☐ Disagree☐ Strongly Disagree

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Server Logging Problem in Notes/Domino R4: "Maximum Number of In-Memory Log Entries Exceeded..."

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Number: 143304

Problem

When a Notes/Domino R4 server is very busy, the following message can sometimes be found in the log (LOG.NSF) or on the server console screen:

"Maximum number of in-memory log entries exceeded; cannot create another until some are flushed to the log database."

In some cases, this error has been associated with the server hanging or poor server performance.

Solution

This issue has been addressed in Notes 4.11a and Domino 4.5.

The excerpt from the 4.11a Release Notes that states that this issue has been fixed:

- Prevent the loss of logging messages to the Log database and the printing of the error message "maximum number of in-memory log entries exceeded. Can not create another until some are flushed to the database" on the server console.

It should be noted, however, that at least one customer has also experienced this with Domino 4.6.2a and 4.6.3b. This Domino 4.6x issue was reported to Lotus Quality Engineering and has been addressed in Domino 4.6.6 and 5.0.2.

Excerpt from the Lotus Notes and Lotus Domino Release 4.6.6 QMR fix list:

Server

- SPR# ENGG44C48G - Prevent the error, "Maximum number of in-memory log entries exceeded..." from being logged when heavy NNTP, Replicator, or X.25 logging occurs. Although this same problem was previously fixed in R4.1.1 and R4.5 under SPR# JTUN35RMGN, the cause of the problem now is different than in the previous issue. [4.6.6]

Excerpt from the Lotus Notes and Lotus Domino Release 5.0.2 QMR fix list:

Server

- SPR# ENGG44C48G - Prevent the error, "Maximum number of in-memory log entries exceeded..." from being logged when there is heavy NNTP, Replicator, or X.25 logging occurring. [5.0.2]

To work around this issue:

You can get the error "Maximum number of in-memory log entries exceeded; cannot create another until some are flushed to the log database" when you have upgraded the server from Notes V3 to R4. The default size of a note in the log file in Notes V3 is 8,000 words. However, the default size in Notes R4 is 40,000 words. The V3 value will not be altered by the upgrade.

To work around this issue, increase the parameter from 8000 to 40000 in the following NOTES.INI line and restart the server:

LOG=log.nsf, 1, 0, 7, 8000

Document information

Product categories:

Software**Enterprise Messaging****Enterprise E-mail****Lotus End of Support Products**

Software version:

Domino Server 4.6x, Notes 4.1x, Notes 4.x

Reference #:

85256CC000651976

IBM Group:

Software Group

Modified date:

2003-02-01

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- ☐ Strongly Agree
- ☐ Agree
- ☐ Neutral
- ☐ Disagree
- ☐ Strongly Disagree

The language of this material is easy to understand.

- ☐ Strongly Agree
- ☐ Agree
- ☐ Neutral
- ☐ Disagree
- ☐ Strongly Disagree

Please provide comments to help us improve this material



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The problem *should* go away. However, on an extra busy server, with a high amount of logging to perform, the parameter may have to be set even higher than 40000. For example, at least one customer reported success after setting it as high as 120000. It is important to note that this workaround will not be successful in all cases.

Supporting Information

Explanation of Log= NOTES.INI parameter:

Syntax: Log= *logfilename, log_option, not_used, days, size*

Parameter Value

logfilename The log database file name, usually LOG.NSF

log_option Log options:

1 = Log to the console

2 = Force database fixup when opening the log file

4 = Full document scan

not_used Always set to zero; this parameter is not currently used

days The number of days to retain log documents

size The size of log text in event documents

For example:

Log=LOG.NSF,1,0,7,20000

The log file (LOG.NSF) is deleted in seven days and can contain up to 20,000 words. All log information is also sent to the console.

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