openntf Webinar

Advanced Administration Tips

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Keith Brooks

- Openntf Board member
- HCL Ambassador
- Banging my Administrator head on a desk since V2
- Ex-Lotus EMEA





What do all of these have in common?





People & Groups	Files	Server	Messaging	Replication	Configuration	l

Status Analysis Monitoring Statistics

÷.	By State ~	Show	meţ	past	error	stat	es o	nly		
۵	11:36:07 AM - 11:36:07 AM 🗘	Adm	Age	Dat	Eve	Ind	Rep	Rou	Sta	
[]	Music/Server/VBI	(23	0	())	0	(0)	0	0	-	
□?	Quickr/Server/VBI	-	-	-	-	-	-	-	-	

None of these are listed for Monitoring

	Task\chronos
	Task\cladmin
	Task\cldbdir
	Task\clrepl
	Task\collector
	Task\compact
	Task\convert
Add Server Task(s) to this Profile ? X	Task\daosmgr
	Task\dbserver
Colort a new convertage (a) to add to	Task\decs
Select a new server task(s) to add to	Task\design
this profile	Task\diiop
	Task\dircat
Activity Trends Collector A OK	Task\dirlint
Administration Process	Task\domidy
Agent Manager	Task\dots
Billing	Task duraddin
Calendar Connector	Task/ aveat
Calendar Connector	
Cataloger	
Certificate Authority (CA) Process	lask\fixup
Change Manager	lask\http 63
Chronos	Task\icm
Cluster Database Directory Manager	Task\imap
Cluster Database Directory Manager	Task\intrcpt
Cluster Replicator	Task\ISpy
Compactor	Task\ldap
Converter	Task\maps
	Task\mtc
	Task\nntp
The Activity Trends Collector task collects collects,	Task\object
processes and trends statistics and maintains the activity nsf	Task\pop3
database	Task\quryset
udidbusc	Task\rdebug
	Task\reflect
	Task\replica
	Task\report
	Task\restapi
	Task\rmeval
	Task\rnrmgr
	Task\router
	Task\runiava
	Task\sched
	Task\smtp
	Task\smtpmta
	Task\staddin
	Task\statlog
	Task\stats
	Task\traveler
	Tack\trends
	Tack/undall
	Tasklundate
	Task/update
	Task(web)
	Task\x400dcode
	lask\x400madman

Task\adminp

Task\amgr

Task\billing

Task\calconn

Task\catalog Task\ccmta

Task\changeman

Task\x400mta

Task\ca

Task\adminp Task\amgr Traveler (v8.5) Task\billing Task\ca Task\calconn Task\catalog Task\changeman DBMT (v9) Task\chronos Task\cldbdir Task\clrepl Task\collector Task\compact NOMAD (v10) Task\convert Task\daosmgr Task\dbserver Task\decs Task\design Task\diiop Task\dircat Task\dirlint 14 Task\domidx 52 Task\dots Task\dwsaddin Task\event Task\fixup Task\http TOTP (v12)* Task\icm Task\imap Task\intrcpt Task\ISpy Task\ldap DOMI (v12)+* Task\maps Task\mtc Task\nntp Task\pop3 CERTMGR (v12) Task\quryset Task\rdebug Task\replica Task\rmeval Task\rnrmgr **RESTAPI** (v12) Task\router Task\runjava Task\sched Task\smtp Backup/Restore Task\staddin (v12) Task\statlog Task\stats Task\traveler Task\trends Ontime G.C. Task\updall (v14)Task\update Task\web

4

Creating a Missing Task

Form			•	_		
II î	*	1			B	-
Name	Tas	sk∖Autol	Jpdate ta	ask_auto	update	
Comment	Aut	o Update	e Task			
Туре	Do	cument		•		

Open the Domino Administrator database (domadmin.nsf) which is a local file to the Administration client in Lotus Domino Designer

In the Forms section, Copy and paste any existing form which starts with 'Task\xxxxx'

2

Copy it and paste it. You will see the copied form name as "Copy of Task\fixup".

3

Now open the form "Copy of Task\fixup", go to form properties then modify the form name as "Task\AutoUpdate | task_autoupdate"

The comment can be "Auto Update Task" as shown in the screenshot

Creating a Missing Task Part 2

5. Change the default values of the following in the fields on the form. Visual is on the next 2 screens.

- a) 'Task_name': Is what is displayed in all the views and dialog boxes in the Domino Administrator client. Type 'AutoUpdate'.
- **b) 'Task_filename' :** Is the command name you would type from the load command. Type it as **'autoupdate'**.
- c) 'Task_monitorname': Is what appears in the list of tasks when you type 'Show Tasks' on the server console. Type it as 'AutoUpdate'.
- d) 'Task_description': Is the description of the task. You can set the description to whatever you want.
- 6. Save and close the form.





Part	2 \	/isua	lly
------	-----	-------	-----

	Tas	k_filename (Field) : Default Va	alue	
2	Run	Client	~	Formula
	"aut	oupdate"		

Tas	sk_moni	tomame (Field) : Delauit	value
Run	Client	~	Formula

las	k_description (Fie	eld) : Default Value	
Run	Client	 Formula 	

Parse_Load T Parse_Tell T	👌 Hon	ne X	Task\CertMGR -	Form ×	
LOAD TELL Basics	۲ F	Parse_Lo	ad T Parse_Tel	T	
LOAD TELL Basics Display_Help T.					
LOAD TELL Basics	·				
Basics	L		=11		
Basics					
Display_Help T_	B	asics			
Display_Help T,	_	,			
Display_Help T					
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	8	Displa	y_Help T_		
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ontext Help		
	$\begin{bmatrix} f & h_all & T_{j} \end{bmatrix}^T & h_new & T_{j} \end{bmatrix}^T & h_daily & T_{j} \end{bmatrix}^T & h_delayed & T_{j}$	
	$\begin{bmatrix} h_{\text{interval}} & T_{\text{interval}} \end{bmatrix} \begin{bmatrix} h_{\text{people}} & T_{\text{interval}} \end{bmatrix} \begin{bmatrix} h_{\text{time}} & T_{\text{interval}} \end{bmatrix} \begin{bmatrix} h_{\text{time}} & T_{\text{interval}} \end{bmatrix}$	

	Basics				
1	Task name:	Task_name T_			
2	Task filename:	Task_filename T			
3	Task Monitor Name:	Task_monitorname T			
4	Description:	Task_description T			
	Has "LOAD" UI:	C Task_hasLoadUI	Г	\$Task_LoadCm	nd T
	Has "TELL" UI:	C Task_hasTellUI	Г	\$Task_TellCmd	T
	No Start for ASP:	O DisableStartForASP			



Creating a Missing Task Part 3

	load restapi			
杂	[1B6C:00A9-25BC] 06/06/2024 02:22:15 PM Remote console command issued by Code		load restapi	
杂	[2A0C:0002-3178] 06/06/2024 02:22:16 PM Starting Domino REST APD			
杂	[2A0C:0002-3178] 06/06/2024 02:22:21 PM {			
杂	[2A0C:0002-3178] 06/06/2024 02:22:21 PM "name" : "HCL Domino REST API core API",			
恭	[2A0C:0002-3178] 06/06/2024 02:22:21 PM "desc" : "Next generation APIs for HCL Domino",			
杂	[2A0C:0002-3178] 06/06/2024 02:22:21 PM "version" : "v1.0.12 (Build 1.30.6-267)",			
杂	[2A0C:0002-3178] 06/06/2024 02:22:21 PM "vendor" : "HCL Labs",			
杂	[2A0C:0002-3178] 06/06/2024 02:22:21 PM "image-build" : "2024-04-18T15:20:34Z",			
杂	[2A0C:0002-3178] 06/06/2024 02:22:21 PM "Verticles loaded" : 0,			
杂	[2A0C:0002-3178] 06/06/2024 02:22:21 PM "Active handler classes" : 0,			
杂	[2A0C:0002-3178] 06/06/2024 02:22:21 PM "active requests" : 0,			
杂	[2A0C:0002-3178] 06/06/2024 02:22:21 PM "active agents" : 0,			
杂	[2A0C:0002-3178] 06/06/2024 02:22:21 PM "apiPlatform" : "server",			
杂	[2A0C:0002-3178] 06/06/2024 02:22:21 PM "runtime" : "0 days, 0 hours, 0 minutes, 3 seconds."			
杂	[2A0C:0002-3178] 06/06/2024 02:22:21 PM }	<i>.6</i> 05.	CMTD Conver	Com
恭	[2A0C:0002-3178] 06/06/2024 02:22:21 PM Domino Rest API Initialization complete.	503 203	SIVITP Server	List
		690	THTF Server	LISI

The starting task name, is what you should see in the task list (sh ta) and is what needs to be in the 'Task monitor Name" field

44	SMTP Server	Control task	0%
()	HTTP Server	Listen for connect requests on TCF	0%
4	Resmound Pesource	ldle	0%
ے چھ	Domino Rest API	Idle	0%
٠	Statistic Collector	ldle	0%
٠	LDAP Server	Control task	0%
	Calendar Connector	ldle	0%
٠	Router	MSGTrack: Idle	0%
٠	Agent Manager	ldle	0%
٠	Schedule Manager	ldle	0%
٠	Admin Process	ldle	0%



Status Analysis Monitoring Statistics

Testing the Task Works

Steps to include the task to monitor on the administrator client.

- 1. Switch to Server -> Monitoring Tab
- 2. From the Monitoring Menu -> Monitor New task.
 - 1. You will see the AutoUpdate task as shown on the right.
- 3. Once added it will fetch the information for the AutoUpdate task as shown below.



The Auto Update task handles the updating of the Domino sofwtare.

1	By State 🗸 🗌 S	how	me	oast e	error	state	es on	у																												Т	CA	Dat	Dom	
\$	01:51:28 PM - 03:01:50 PM 🗘	Adm	Age	Dat	Eve	Ind	Rep F	Rou	Sta CA	Ca	I Cat	Clu	Clu	Dat	Dat	DII	Dir	Dom	нтт	IMA	Ind	LDA	POP	Roo	SMT	Tra D	вм /	Aut B	ac C	er Dir	NO	MOnT	Res	тот	•	2	۲	-	-	
- 🔽		Ø	Ø	Ø	Ø	Ø	0	Ø	0	2	0	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	0	0	2) <u>(</u>	0	Ø	Ø		Þ	-	-	-	
	01:56:20 PM - 02:01:49 PM	٩			٩	٩	٩	٠		68	- (۲		-	-	-	STOP	٩	٩	-	-		-	-		-	STOP	-	-	-	0	- (-	-		3			03	
	01:55:20 PM - 01:56:20 PM	٩			?	٩	٨	•		68	- (۲		-	-	-	STOP	٩	٩	-	-		-	-	٩	-	STOP	-		-	0) -	-	-		L.	F		-0-	
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▶ 🔲	Server/VBI	٩	()			٩				69	0	-	-	-	-	-	STOP		٩	-	0		-	٩		۲	- (- 6	-	0	•	-	-		2	6 29	-	-	
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											1																									Ъ	-		-	



Your Cheat Sheet

TaskName	File Name	Domino Task Name
AutoUpdate	autoupdate	AutoUpdate
Backup	backup	Backup
CERTMGR	certmgr	Certmgr
DBMT	dbmt	DBMT Manager
Dirsync	dirsync	DirSync
NOMAD	nomad	Nomad
OnTime G.C	ontimegc	OnTimeGC
Domino Rest API	restapi	Domino Rest API
Restore	restore	Restore

I have placed a dominoadmin.nsf file on the openntf website at this lo action with all of these listed for you to copy and paste to your .nsf

https://openntf.org/main.n sf/project.xsp?r=project/Do mino%20Admin%20Template %20Task%20Updates

Creating Events

Let's use DBMT as an example of something you know runs, but you don't know if it is working properly.





Create an Event for Services





Creating an Event for Services

- You need to know the statistic name
 - Get it from the Admin Client, Server -> Statistics Tab
 - Example on next screen
- Open the Events4.nsf database
- To create the event statistic
 - Go to Advanced -> Statistics by Name
 - Click on New Statistic
 - Fill out the Basics Tab
 - Fill out the Advanced Tab
 - Save and Close

Statistic Descri	iption	
asics Advanced		
Statistic name:	dbmt.compact.unsuccessful	
Data type:	Number 🗸	
Statistic unit:	Failures	
Statistic description:	Notify if dbmt/compact fails	

Statistic Descrip	Statistic Description				
Basics Advanced					
Normal value:	0				
Is a OS statistic?	C Yes • No				
Is an Activity statistic?	C Yes ⊙ No				
Is a statistic template?	C Yes 📀 No				
Useful for thresholds?					
Default threshold va	lues				
Threshold operator:	Greater than \vee				
Threshold value:	1				
Event severity:	Warning (higl ${}^{\scriptstyle\bigvee}$				
Suggested response:	Better check on the last DBMT run				
Useful in setup:	C Yes 🖲 No				



How to Find A Statistic

Statistics Tab in the Administration Client or

• sh st security.totp.*

• sh st dbmt

	sh st dbmt	
*	[14CC:00C1-19F4]	06/18/2024 03:16:59 PM Remote console command issued by Keith Brook
	[14CC:0008-044C]	DBMT.Compact.BackLog = 11
	[14CC:0008-044C]	DBMT.Compact.Began = 06/18/2024 02:00:41 ZE2
	[14CC:0008-044C]	DBMT.Compact.Finished = 06/18/2024 02:16:42 ZE2
	[14CC:0008-044C]	DBMT.Compact.Fixup = 0
	[14CC:0008-044C]	DBMT.Compact.Successful = 100
	[14CC:0008-044C]	DBMT.Compact.Unsuccessful = 11
	[14CC:0008-044C]	DBMT.Compact.Unsuccessful.InUse = 10
	[14CC:0008-044C]	DBMT.Compact.Unsuccessful.TimeLimit = 0
	[14CC:0008-044C]	DBMT.Updall.Began = 06/18/2024 02:00:41 ZE2
	[14CC:0008-044C]	DBMT.Updall.Finished = 06/18/2024 02:04:12 ZE2
	[14CC:0008-044C]	DBMT.Updall.Processed = 128
	[14CC:0008-044C]	11 statistics found



Creating an Event for Services Part 2

- Go to Event Generators -> Statistic
- Click New Statistic Event Generator
- Find the statistic you created
- On the Threshold tab, Set your Threshold
- On the other tab, Click the box to bring up the wizard to set up the event handler.
- It will first save the Generator and then ask how you want to be notified.

Statistic Event Generator	600	Statistic Event Generator	Statistic Event Generator	
Event Number: KBRS-D5QTJG Basics Threshold Other Server(s) to monitor C All in the domain C Only the following:		Event Number: KBRS-D5QTJG Basics Threshold Other Threshold	Event Number: KBRS-D5QTJG Basics Threshold Other Event Generate a Statistic event of severity: Warning (high)	~
Statistic to monitor Type of statistics to monitor: © Single ins © Template Statistic to monitor: dbmt.compare	stance statistic e statistic act.unsuccessful	 The statistic is LESS THAN the threshold value The statistic is GREATER THAN the threshold value The statistic is a MULTIPLE of the threshold value Threshold: 1 	Create a new event handler for this event. Enablement Disable this event generator	
Description: Notify if dbmt	t/compact fails			15



Define Alerts and Notifications

GO TO THE

MONITORING

CONFIGURATION

DATABASE EVENTS4.NSF



CREATE AN EVENT HANDLER SELECT **EVENT HANDLERS** AND CREATE A NEW EVENT HANDLER. LINK THE EVENT HANDLER TO THE DDM PROBE YOU CREATED FOR DBMT MONITORING.



Creating an Event Handler

- Go to Event Handlers -> By Action
- Click New Event Handler
- Basics Tab Select your Preferences

- Action Tab Select Mail and Email
- Enable the Notification

Event Tab - Select the Type, Severity and the created Event

Event Handler Created: 06/13/2024	Event Handler Created: 06/13/2024	Created: 06/13/2024
Basics Event Action	Basics Event Action	Basics Event Action
	C. Events can be any time	Notification
Notify of the event on any server in the domain	 Events can be any ope Events must be this type: Mise 	Method: Mail
C Notify of the event only on the following servers:		Mailing address: Keith Brooks/VBI
	C Events can be any severity	
Notification trigger	 Events must be one of these severities: Fatal Failure Warning (high) Warning (low) Normal 	Enablement
Trigger:		Enable this notification
C A built-in or add-in task event C A custom event generator	Events can have any message Events must have this text in the event message: DBMT.Compact.Unsuccessful	© Enabled only during these times:



The Proof is in the Email



(Music DBMT.Compact.Unsuccessful = 11, max allowable: (1) [KBRS-D5QSYN] Music to: Keith Brooks This message is digitally signed.

Originating Server: Music/Server/VBI Event Severity: Warning (high) Event Type: Statistic Event Time: 06/18/2024 12:21:54 AM

To see additional information about this error message, click here -> 🗎

To see the document that triggered this notification, click here -> 📄



Admin Preferences

While in the Admin Client

• File-Preferences-Administration Preferences



File	Edit Administration	Files Window	v Help		
	Open	Enter			
	Open Server				
	Open in New Window				_
	Close	Ctrl+W			_
	Document Properties		ging Replication Configur	ation	
	Application	>	rs/2019 10.0		
	Replication	>	Tala 🔺	Diagona A	Die
	Mobile	>		mail9 901fp8	C·\
	Instant Messaging	>	Activity Trends (Music)	activity.nsf	C:\
	Print	Ctrl+P	 Admin Quick Requests AdminCentral 	adminq.nsf admincentral.n:	C:\ C:\
	Preferences	>	User Preferences		
	Security	>	Location Preferences.		
	Exit Administrator		Client Reconfiguratio	n Wizard	
			Administration Prefer	ences	
		T	Toolbar Preferences		
	keepconfig.d		Status Bar Preference	s	



Admin Preferences - Files Tab

Over the last few Versions, some new column options were added:

• FT Index

- You can see which dbs have a FT index
- Encrypt State
 - You can see which files are encrypted
- Encrypt Strength
 - You need to know what you are looking at

Restart required to see the changes Turn off or on, or move, the columns as you see fit





Backup/Restore

Create the Task for Monitoring

The Backup NSF has notifications built-in, use them

Configuration

Main Backup Snapshot Restore	Prune Notification Advanced
Notification for:	🔽 Errors 🔽 Warnings 🔽 OK
Backup notification recipient formula: (strings in quotes)	""LocalDomainAdmins" _
Backup status formula:	۲ ا
Backup report sender:	[™] Music/Server//Bl <u></u>
Backup report internet sender:	°
Backup report agent formula:	۳ _
Backup notification append doc:	Enabled







Secret Credits Tip

Rconsole - Be Nice if it Was in the Toolbar

