Increase JAVA heap size in tomcat

Issue:

There are scenarios, or cases, where the application might run out of java heap space. And, as a result, the sync would break mostly due to very large data sync; or, large set of data that sync between applications. In such cases, we can force the tomcat application to use dedicated java heap memory so the sync won't break.

Solution:

This can be done by following the steps below:

Windows:

1. Edit the file catalina.bat file located in <<install-directory>>/bin and add the following property:

set JAVA_OPTS=-Xms512m -Xmx4096m before, or after, the line, set JRE_HOME=..\jre.

After adding the property, restart the tomcat service or the tomcat application.

(512 is the minimum and 4096 is the maximum heap memory that is allotted to this application, please set the values according to the available RAM memory on your server machine).

0.5	rem	implementation when JSSE is used. Default is:					
86	rem	"-Djdk.tls.ephemeralDHKeySize=2048"					
87	rem						
0.0	rem LOGGING_CONFIG	(Optional) Override Tomcat's logging config file					
89	rem	Example (all one line)					
90	rem	<pre>set LOGGING_CONFIG="-Djava.util.logging.config.file=%CATALINA_BASE%\conf\logging.properties"</pre>					
91	rem						
92		(Optional) Override Tomcat's logging manager					
93	rem	Example (all one line)					
94	rem	set LOGGING_MANAGER="-Djava.util.logging.manager=org.apache.juli.ClassLoaderLogManager"					
95	rem						
96	rem TITLE	(Optional) Specify the title of Tomcat window. The default					
97		TITLE is Tomcat if it's not specified.					
98 99		Example (all one line)					
100	rem	set TITLE=Tomcat.Cluster#1.Server#1 (%DATE% %TIME%)					
101	rem						
102							
103	Becrocar						
104	set JRE HOME)Ire						
105	and one none night						
106	set JAVA OPTSXms512mXms4094m						
107							
108	rem Suppress Terminate	e batch job on CTRL+C					
109	rem Suppress Terminate batch job on CTRL+C if not "%1" — "run" goto mainEntry						
110	if not ""\$1"" ""run" goto mainEntry if "\$TEMP\$" "" goto mainEntry						
111	if exist "%TEMP%\%~nxt	<pre>indt "%11" == "run" goto mainIntry "YT200" == "goto mainIntry cwist "YT200"</pre>					
112	echo Y>*%TEMP%\%~nx0.run*						
113	if not exist "*TEMP%\%~nx0.run" goto mainEntry						
114	echo Y>*57EMP\$\5-nx0.Y*						
115	call "%~f0" %* <"%TEMP%\%~nx0.Y"						
116	rem Use provided error						
117	set RETVAL-MERRORLEVELM						
118	del /Q "*TEMP**-nx0.1	(* >NUL 2>61					
119	exit /B SRETVALS						
	mainEntry						
121	del /0 "ATEMPA\Asert0."	ANNE WITH TWEI					

2. Also, edit service.bat and change the heap size as shown below - to, certain value based on the RAM available.

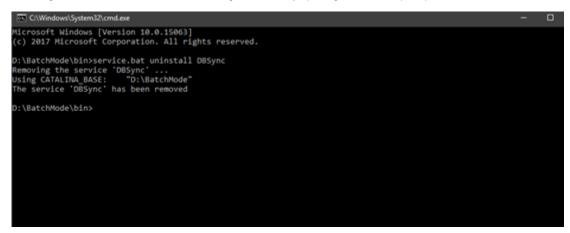


Once you increase the size in service.bat then, you have to re-register the tomcat service for the changes to take effect.

Go to Windows services, check for the tomcat service - usually, this will be as shown below:

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View Help				
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al) O Services (Local))			
Apache Tomcat 8.0	DBSync	Name	Description	Stat
		ActiveX Installer (AxInstSV)	Provides Us	
Start the service		Adobe Acrobat Update Service	Adobe Acro	Rur
		AllJoyn Router Service	Routes All/o	
Description:		Apache Tomcat 8.0 DBSync	Apache To	
Apache Tomcat 8.0.3		App Readiness	Gets apps re	
http://tomcat.apache	Lorg/	Application Identity	Determines	
		Application Information	Facilitates t	Rur
		Application Layer Gateway Service	Provides su	
		Application Management	Processes in	
		AppX Deployment Service (AppXSVC)	Provides inf	
		🍳 Auto Time Zone Updater	Automatica	
		Background Intelligent Transfer Service	Transfers fil	Rur
		Background Tasks Infrastructure Service	Windows in	Rur
		Base Filtering Engine	The Base Fil	Rur
		BiometricSensorDataSynchronization	BiometricSe	Rur
		BitLocker Drive Encryption Service	BDESVC hos	
		Block Level Backup Engine Service	The WBENG	
		Bluetooth Handsfree Service	Enables wir	
		Bluetooth Support Service	The Bluetoo	
		Sonjour Service	Enables har	
		Carl BranchCache	This service	
1		<		>

To un-register the service, execute the following command by opening a command prompt service.bat, as administrator and, uninstall DBSync.



To re-register the service again, execute the command:

service.bat install DBSync.

