



SAS Life Science Analytics Framework Java API 2.5.1

Installation Qualification / Operational Qualification Checklist

Install LSAF Java API 2.5.1

Version 1.00
Date November 2021

Checklist A: "Install LSAF Java API"

Note: This checklist assumes you have completed an installation of LSAF 5.4 and are installing the LSAF Java API.

Checklist A: "Install LSAF Java API"		Corresponding Document: <i>None</i>	
#	Activity	Expected Results	Actual Results
A1.	Login to an admin PC.	Windows display appears.	
A2.	Using the putty tool, create an ssh connection from the admin PC to the web server and login as webtrust .	You're prompted for the password.	
A3.	Enter the <i>password</i> for webtrust.	You're logged into web server.	
A4.	Use the script command to capture commands that are typed in the Unix window. The syntax is script /var/staging_logs/<servername>_lsafapi2.5.1_<date>.txt	System should indicate script has started.	
A5.	<p>From the admin PC, download the LSAF Java API 2.5.1 distribution from the SAS Technical Support site. After the distribution has been downloaded, use the WinSCP2 tool to copy the file to /home/webtrust/Installs on the web server. Transfer it as a binary file using the webtrust userid.</p> <p>lsaf-java-api-server-2.5.1.zip</p> <p><i>Note:</i> In a clustered web server environment, this file needs to be copied to each web server in the cluster.</p>	The file is transferred to the web server.	

Checklist A: "Install LSAF Java API"		Corresponding Document: <i>None</i>	
#	Activity	Expected Results	Actual Results
A6.	Type tcserver stop lsafserver1	System displays: Instance stopped	
A7.	Type ps -ef grep webtrust	You should not see the tcserver process running.	
A8.	Type cd /sso/sfw/tcServer/instances/lsafserver1/logs	Navigate to the /sso/sfw/tcServer/instances/lsafserver1/logs directory.	
A9.	Delete or rename the lsaf_info.log and catalina.out files.	Log files are deleted or renamed.	
A10.	Type ls -al	Verify that log files have been renamed or deleted.	
A11.	Repeat steps A6 – A10 for the remaining tcServers. <i>Note:</i> You do not have to stop the lsafserveradmin server. <i>Note:</i> In a clustered web server environment, steps A5 – A11 must be performed on each web server in the cluster.	The tcServers are stopped except for the lsafserveradmin server.	
A12.	Type cd /home/webtrust/Installs	Navigate to that directory.	
A13.	Type unzip lsaf-java-api-server-2.5.1.zip	The contents of the zip file are extracted.	
A14.	Type ls -al	You will see a lsaf-java-api-server-2.5.1 directory that was created in the previous step.	
A15.	Type cd lsaf-java-api-server-2.5.1	Navigate to that directory.	

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#	Activity	Expected Results	Actual Results
A16.	Type ant deploy	<p>System displays:</p> <p>Buildfile: /home/webtrust/Installs/lsaf-java-api-server-2.5.1/build.xml</p> <p>deploy: [echo] User home = /home/webtrust</p> <p>deploy-server1:</p> <p>do-deploy: [echo] Deploying distribution to = /sso/sfw/tcServer/instances/lsafserver1/webapps/lsaf [copy] Copying 2 files to /sso/sfw/tcServer/instances/lsafserver1/webapps/lsaf/WEB-INF [copy] Copying /home/webtrust/Installs/lsaf-java-api-server-2.5.1/WEB-INF/lib/sas.lsaf.api.client.jar to /sso/sfw/tcServer/instances/lsafserver1/webapps/lsaf/WEB-INF/lib/sas.lsaf.api.client.jar [copy] Copying /home/webtrust/Installs/lsaf-java-api-server-2.5.1/WEB-INF/lib/sas.lsaf.api.server.jar to /sso/sfw/tcServer/instances/lsafserver1/webapps/lsaf/WEB-INF/lib/sas.lsaf.api.server.jar</p> <p>deploy-server2:</p> <p>deploy-server3:</p> <p>deploy-server4:</p> <p>deploy-server5:</p> <p>deploy-server6:</p> <p>deploy-server7:</p> <p>deploy-server8:</p> <p>BUILD SUCCESSFUL Total time: 0 seconds</p>	

Checklist A: "Install LSAF Java API"		Corresponding Document: <i>None</i>	
#	Activity	Expected Results	Actual Results
A17.	Type tcserver start lsafserver1	System displays: Instance Name: lsafserver1 CATALINA_BASE: /sso/sfw/tcServer/instances/lsafserver1 CATALINA_HOME: /sso/sfw/tcServer/runtimes/tomcat-9.0.46.B.RELEASE JAVA_HOME: /sso/sfw/java/jdk1.8.0_292 tc Runtime Version: 9.0.46.B.RELEASE tc Server Version: 4.1.6.RELEASE tc Server Installation Directory: /sso/sfw/tcServer/developer-4.1.6.RELEASE Tomcat started. Instance running as PID 34399	
A18.	Type cd /sso/sfw/tcServer/instances/lsafserver1/logs	Navigate to the /sso/sfw/tcServer/instances/lsafserver1/logs directory.	

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#	Activity	Expected Results	Actual Results
A19.	Type tail -f lsaf_info.log <i>Note:</i> Depending on how fast your server is, you may need to type tail -300 lsaf_info.log	You will see the contents of the log file while the server is starting up. Look for the following lines, indicating the LSAF API is installed, and the success start of process. <pre> 2021-11-03 14:06:19,449 INFO localhost-startStop-1 l.c.c.i.ApplicationInformationServiceImpl : SAS Life Sciences Analytics Framework Java API is installed 2021-11-03 14:06:19,450 INFO localhost-startStop-1 l.c.c.i.ApplicationInformationServiceImpl : JAPI client version: 2.5.1.API.44.20211102.154847 2021-11-03 14:06:19,451 INFO localhost-startStop-1 l.c.c.i.ApplicationInformationServiceImpl : JAPI server version: 2.5.1.API.44.20211102.154847 2021-11-03 14:06:19,451 INFO localhost-startStop-1 l.c.c.i.ApplicationInformationServiceImpl : LSAF server version: 5.4 </pre>	
A20.	Hit Ctrl-C to stop viewing this log file.	You no longer see the output of the log file.	
A21.	Repeat steps A17 – A20 to start up any additional lsafservers. <i>Note:</i> In a clustered web server environment, steps A12 – A20 must be performed on all web servers in the cluster.	Steps repeated as necessary.	
A22.	Hit Ctrl-D to stop the script command.	System indicates script stopped running.	
A23.	Type exit	The webtrust userid is logged off the web server.	

Signature below indicates completion of Checklist A, items A1 – A23, above.

Name (print or type): _____ **Sign-off :** _____ **Date:** _____