Enabling Jenkins integration with Silk Central Test Manager

It is now possible to use Hudson / Jenkins for continuous integration testing in conjunction with Silk Central Test Manager.

The first thing that needs to be done is to install the SCTM Executor plugin into Jenkins, to do this:

- 1. Open Jenkins in a browser via the URL (e.g. http://HOSTNAME:8080)
- 2. On the Welcome screen click on the "Manage Jenkins" link

Jenkins	G, search	a
Jenione Welcome to Jenkins ¹ Please <u>create new jobs</u> to get started A Proofs Pauld History Mandor Jenions Build Queue No builds in the gumue. Build Executor Status 1 Idle 2 Idle	8	Endble Auto Rerease Padd description
<table-of-contents></table-of-contents>	Page generated: Feb 20, 2013 1:25:01 PM	BESTAPI Jackins yar. 1,392

3. Click on the "Manage Plugins" link



4. On the Plugin Manager screen click on the "Available" tab

Back to Dashboard			Fibers	96	
Managa Jankina	Update	Available Installed Advanced			
LIV I	Install		Name (Version	Installed
C 3		LDAP Plugin Security realm based on LDAP aut	thentication.	1.2	1.1
LEX		CVS Plugin This bundled plugin integrates Sen	kins with CVS version control system.	2.8	1.6
	10	Subversion Flugin This plugin adds the Subversion a	upport (via SVWKt) to Jenkina.	1.45	1.39
	Select: All This page	hone ists updates to the plugins you current	ly use.		
telo us localize this page			Page generated: Feb 20, 2013 1:26:42 PM	REST API	Jenkins ver. 1.

5. Scroll down to find the "SCTMExecutor" plugin, check the box beside it and click the "Download now and install after restart" button

	10	Rake clugin This plugin allows Jonkins to invoke <u>Bake</u> tesks as build steps.	1.7.7
	15	Buthy Flugin This plugin will let users use <u>Buby</u> in the build scripts.	1.2
	13	2enkina Rubuttotion Plugin This plugin integrates Rubuttotion with Jenkina.	0.6
		sbt.skain This plugin allows building Scale projects using s25.	1.4
	13	Schmart Flugin The Schmart plugin anables Hudson to run <u>Schmart</u> build scripts.	1.1.4
	13	SCots Ruan This plugin allows Hudson to invoke SCons build script as the main build step.	0.4
	18	SCTMExecutor This plugin will let users use Borland's SilkCentral Test Manager 2008 R2 or leter.	1.5.1
	15	Selenium AES Plugin This plugin is for continuous regression test by <u>Selenium Auto Exec Server (AES)</u> .	0.5
8		Sateniumha, Riugin This plugin allows you to run and load HTM. Selences twite result penerate by Selenium Server from Seleniumha, Jankins will generate the trend report of test result. The Seleniumha plug in can be downloaded here.	0.4
		ShiningFands Ebuin This plugin adds Python support to Jenkins with some useful builders (Python builder, <u>virtualism</u> builder, to builder) and the ability to use a Python acis in multi-configuration projects (for testing on multiple versions of Python).	0.17
	13	SICCI for Xonde Bluan This pluget integrates support for Xonde projects.	0.0.8

6. Once Jenkins has restarted, click on the "Installed" tab and you will see that the SCTMExecutor plugin is now installed. Then check the box beside the SCTMExecutor plugin to enable it

7. Click on the "Restart Once No Jobs Are Running" button

and they are set of the		- [10000000					
1 Back to Dashboard	Updates	Available	Installed	Advanced				
Manage Jenkins	Enabled	Sericine	Mailer Plunin	Name (Version	Previously installed version	Pinned	Uninsta
	120	External	Monitor Job 1	Type Plugin	1.1			-
	101	LDAP PI	ugio		1.1			
	12	pam-aut	ħ		1.0		-	
	12	815			1.1			
	121	iavadoc			1.0		-	
633	12	CVS Pla Inter	20 pretes Jenkin em,	s with CVS version control	1.5			
(P")	N.	Maxen D	stearation plu	nia	1.502			
2 S	R	SCTMEN This Bork 2000	ecutor plug-in allow and/Hicrofecu 0.8.2 or later.	s executions on a a SilkCentral Test Manager	1.5.1			Uninst
	12	Jenkins	SSH Slaves o	lvein	0.22			
	2 18	Subvers	ion Plugin		1.39			
	- R	<u>Zenkins</u>	Translation Ar	ssistance plugin	1.10	13 B-15		
	A chang	pes will to	ske effect w	hen you restart Jenkins	Restart Once	No Jobs Are Running		

8. This completes the installation of the SCTM Executor plugin.

The next step is to configure Jenkins in order to connect to your SCTM installation. To do this:

1. On the "Manage Jenkins" screen click on the "Configure System" link

Jenkins	S search D
Jenkins	ENABLE AUTO REPRESH
🚔 New Job	Manage Jenkins
Build History	Configure Statem Configure global settings and paths.
Build Queue	Configure Global Security Secure Jenions; define who is allowed to access/use the system.
Build Executor Status	Reload Configuration from Disk Discard all the loaded data in memory and reload everything from file system. Useful when you modified config files directly on disk.
1 Idle 2 Idle	Manage Fluging Add, remove, disable or enable ploging that can extend the functionality of Jenking. (updates available)
	Exstern Information Displays various environmental information to assist trouble-shooting.
	System Log System log ceptures output from java.unil.logging output related to Jerkina.
	Load Statistics Check your resource utilization and see if you need more computers for your builds.
	Access/manage Jenkins from your shell, or from your script.
1343	Sorist Consols Executes arbitrary script for administration/trouble-shooting/diagnostics.
tm-mb-jenkins:8080/configure	Manage.Nodes

2. Scroll down to the "SilkCentral TestManager Konfiguration" section and enter your SCTM installation details. Click on the "Test Connection" button to ensure you can connect to SCTM.

Subversio	1	
Subversio	Workspace Version 1,4 +	
Exclusion	evprop name	
Validat	repository URLs up to the first variable name	
V Update	default Subversion credentials cache after successful authentication	1
SilkCentra	TestManager Konfiguration	
Service U	1. http://bel-michaelbr:19120/services	
	http://host.port/services	
Benutzer	admin	
Passwort		
	Connection successfully established	Test Connection
Shell		
J J Shell exec	utable	
E-mail Not	ification	
SMTP serv	er .	
Default us	er e-mail suffix	
		Atvarvat
Test co	fouration by sending test e-mail	
127		

3. This completes setting up the connection from Jenkins to SCTM.

The next thing to do is to create a Jenkins job and execute your tests via SCTM, to do this:

1. Click on the "New Job" link and enter a Job name. Select the "Build a free-style software project" radio button and click OK.

Jenkins	S search D
Jenkins	
binn Job Resole Ruid History Manaad Jankina Build Queue No builds in the queue. Build Executor Status Status Idle Idle	Job name Silk/Test Workbench - Message Box Build a free-style software project This is the central feature of Jenkins. Jenkins will build your project, combining any SCM with any build system, and this can be even used for something other than software build. Build a maven2/3 project Build a maven2 project. Jenkins takes advantage of your POM files and drastically reduces the configuration. Build multi-configuration project Suitable for projects that need a large number of different configurations, such as testing on multiple environments, platform-specific builds, etc. Hositor an external job This type of job allows you to record the execution of a process run outside Jenkins, even on a remote machine. This is designed so that you can use Jenkins as a dashboard of your existing automation system. See the documentation for more details.
🕷 Help us localize this page	Page generated: Feb 20, 2013 2:57:11 PM <u>RFST API</u> <u>Jenkins ver. 1.502</u>

2. Configure your Job settings as required. To add a SCTM build step, scroll down to the "Build" section and select "SilkCentral Test Manager Execution" from the "Add Build step" drop down.

	C Discard Old Builds	
Configure	This build is parameterized	0
Build History (trend)	Disable Build (No new builds will be executed until the project is re-enabled.)	0
RSS for all 🔯 RSS for failures	Execute concurrent builds if necessary	0
	Advanced Project Options	_
	Advanced	1
	Source Code Management	
	0 cvs	
	None	
	C Subversion	
Brad	Build Triggers	_
	E Build after other projects are built	•
- VA	E Build periodically	Ð
4 20	E Poll SCM	0
	Boild	
	Add build step +	
1 - YE	Execute Windows batch command Execute shell Envoke Ant Envoke Op-level Maren targets SilkCentral Test Manager Execution	2
	Save Acoly	

3. Enter the SCTM Execution Plan ID you wish to execute and also the SCTM Project ID that contains this execution plan.

Jenkins SilkTest Workbench + M	Source Code Hanagement		
	© cvs		
	None		
	C Subversion		
	Build Triggers		
	Build after other projects are built		0
	Build periodically		0
	E Polt SCH		0
	Build		
63	SCTM Project ID 2	Advanced	0 0
	Add build step *		
	Post-build Actions		
	Add post-build action •		
	Save Apply		
Help us localize this page		Page generated: Feb 20, 2013 2:58:19 PM REST API Jenki	ins ver. 1.502

4. Click the "Advanced" button to configure other options when running the SCTM execution plan such as continue on error, collect results, build numbers to be used. Click "Save" to save the job.

0
0
0
0
0
0
0
0
0
0
0
0
Delete

5. Once save click on the Workspace link for the job you just created.

Jenkins		9, search	Ð
Jenkins SilkTest Workbench - M	essage Box		ENABLE AUTO REFRESH
Back to Dashboard Status Status Changes Workspace Build hos Centeurs Build Mistory (trend) RSS for all I RSS for failures	Project SilkTest Works	ench - Message Box	Project
Melo us localize this case		Page generated: Peb 20, 2013 2:59:54 PM	RESTAPI Jenkins ver. 1.502

6. You will receive an error stating that the project does not have any Workspaces, this is because no builds have been performed yet. To do this click on the "Run a build" link.

Jenkins	P. search	C.
Jenkins SilkTest Workbench - Message Box		ENABLE AUTO REFRESH
Back to Dashboard Status Status Changes Morksbace Worksbace Mine Out Worksbace Duild Nom Configure Build History (trend) Bass for falures	C e It one build is performed.	
Melo us localiza this page	Page generated: Feb 20, 2013 3:04:46 PM	RESTAPI leoking ver. 1.302

7. This will start the SCTM execution and you can see the pending status on the Jenkins project page.

Jenkins		Q, search		a.
Jenkins SilkTest Workbench - Me	osage Box		ENA	BLE AUTO REFRESH
Back to Deshboard Status Status Changes Workspace Durid from Detate Protect Configures Build History (trend) #1 (pending - In the quiet period. Expires in 4.9 sec) SSS for all SSS for febures	Project SilkTest Workbe	nch - Message Box		Padd description Deable Project
Nelo va locelize this cace	-	. Page generated: Feb 20, 2013 3105:01 PM	RESTAPI	Jenkins ver. 1.502

8. Once the execution has started you will get an 'in progress' icon.

Jenkins		S search	e.	2
Jenkins SilkTest Workbench - Me	resage Box		ENABLE AUTO REFRESH	1
Back to Daubboard Status Changes	Project SilkTest Workben	ich - Message Box	Padd description	on
Duild hose	Workacase			
Configura	Recent Changes			
Build History (trend)	Permalinks			
Sector the second secon		Page generated: Peb 20, 2013 3:05:01 PH	SISTAPI Jenkins ver. 1.5	02

9. Once the execution has completed you will see the screen below.

Jenkins		9, search	1
Jenkins SilkTest Workbench + N	lessage Box		ENABLE AUTO REPRESH
Back to Dashboard Status Changes Mochages Mochages Mochages Suid hose Delate Project Configure Build History (trend) #1 fish 26, 2013 2:05:06 PM SSS for all \$ 855 for felures	Project SilkTest Workber	nch - Message Box	Disable Project
n telo us localiza this caos		Page generated: Yeb 20, 2013 3:05:01 PH	BIST API Jenkins ver. 1.502

10. If you then go to the Execution Plan in SCTM you will see that it was executed and the build information has been brought over from Jenkins.

Silk Central Home Requeements Test	Execution Planning	Tracking Inte	es Reports	Project. MichaelB	Usec admin	Administration	Help
	No Fit	ter e v v v	21 92				
Execution Plans *	Properties Assigned	Tests Parameters	Setup/Cleanup Schedu	le Deployment De	pendencies Nor	fications Runs	Current
# E Project 'MichaelB'							_
BrowserType	Status	Run ID	Keywords	Executed By	Errors	Warnings Build	5
CVS Tests	1	Q 10072	* #bel-michaelbr	bel-michaelbr7	0	0 1	
Data Driven Manual Tests							
DotNET4_CodeAnalysis_ManualTesting							
> 📴 EF Mark							
D 🔤 Java - Code Coverage	•		and the second se		-		
🖌 🔁 Jenkins Tests	14 4 Page 1	of 1 F 1 2	Rows per page 20	8	tir air	reation Intern	-
A Message Box	Test Roma						
> 🗅 JUnit		4.5			1.4		
🕨 🔄 Manual Tests	Actions Sta	stus	Run ID Test		3	tart time =	
> ManyManuels	A BUDY O	Passed	9, 10421 Ø1	VisgBox	V	Ved Feb 20, 2013 -	235.05 PI
Mick							
MSTest							
> 🗅 NUnit							
D Cal Order Test							
P 🖸 Python							
D SikPerformer							
Sokrest Classic Tests							
Sikiest workbench lests							
a tel tel							
b Da WSH Test							
> On Technolal technola/technola/technolalt							
a lia URL Test - MTC	<		121		-		
	14 4 1 Page 1	of 1 🕨 🗏 🥭	Rows per page 50 💌			and the state of the	(

11. In this case the build was "1". **Note:** you can define which build number is used in the Advanced settings for the SCTM build step, see point 4 above.

Now if you run a new build in Jenkins for this job the SCTM execution will automatically be executed.