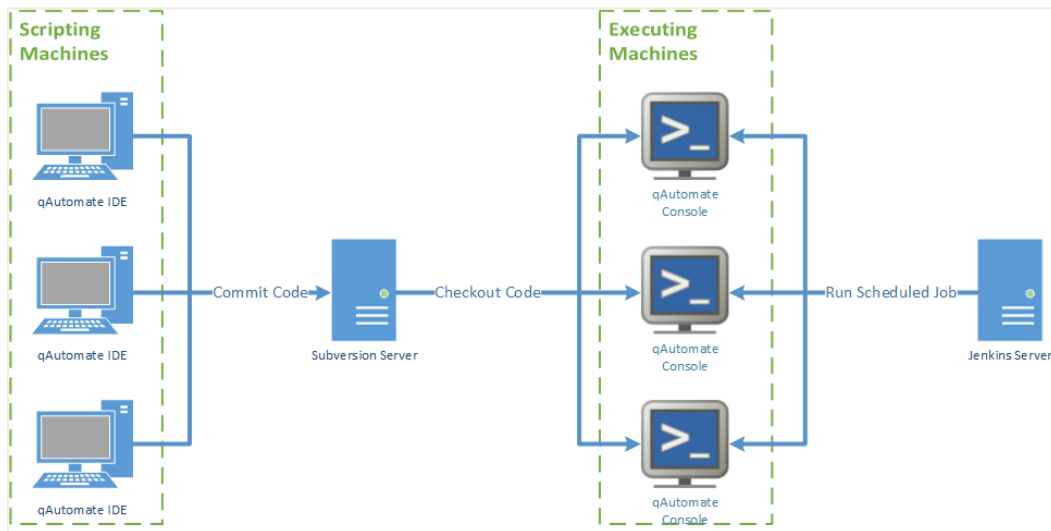


Guide to Run Katalon in Console Mode via Jenkins

Assume that we have two machines: machine A for scripting and machine B for executing. We will use machine B to execute test suite via Jenkins job.



1. Prepare Katalon and test project

- On machine A, open Katalon and create a Katalon test project, then import it to SVN repository. SVN folder and file .prj should have the same name. Later, when we modify test project, we should NOT commit those folders and files to SVN: **bin, Libs, Reports, .classpath, .project, .properties, {project name}.prj**

.svn	6/26/2015 2:47 PM	File folder	
bin	5/27/2015 10:28 AM	File folder	
Data Files	5/20/2015 3:29 PM	File folder	
Data Sources	5/20/2015 3:31 PM	File folder	
Drivers	5/18/2015 4:59 PM	File folder	
Image	6/26/2015 2:45 PM	File folder	
Keywords	5/18/2015 5:24 PM	File folder	
Libs	5/18/2015 5:24 PM	File folder	
Object Repository	5/18/2015 5:24 PM	File folder	
Reports	5/18/2015 5:24 PM	File folder	
Scripts	6/26/2015 2:43 PM	File folder	
settings	6/9/2015 10:20 AM	File folder	
Test Cases	6/26/2015 2:43 PM	File folder	
Test Suites	5/20/2015 3:38 PM	File folder	
.classpath	6/30/2015 7:04 PM	CLASSPATH File	5 KB
.project	5/18/2015 4:59 PM	PROJECT File	1 KB
GlobalVariables.glbl	6/18/2015 11:16 AM	GLBL File	1 KB
Sample_Project.prj	5/18/2015 4:59 PM	PRJ File	1 KB

Don't commit these files and folders

- On machine B, prepare location to store Katalon build and test project, install Jenkins.

2. Create Jenkins job

Login Jenkins > **New Item** > select **Freestyle project**.

Item name

☒ **Freestyle 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.

At **Advanced Project Options**, check **Use custom workspace** and specify Directory where we want to check out the project (the location is on machine B – where we'll execute the test suite).

Advanced Project Options	
<input type="checkbox"/>	Quiet period
<input type="checkbox"/>	Retry Count
<input type="checkbox"/>	Block build when upstream project is building
<input type="checkbox"/>	Block build when downstream project is building
<input checked="" type="checkbox"/>	Use custom workspace
Directory	D:\Run_qAutomate_Via_Jenkins\Project\Parameter_Variable_Binding_Example

At **Source Code Management** section, select **Subversion** and fill in required information.

Source Code Management	
<input type="radio"/> None <input type="radio"/> CVS <input type="radio"/> CVS Projectset <input checked="" type="radio"/> Subversion	
Modules	Repository URL https://SGH251TD1F.kms.com.vn/svn/RnD_qAutomate_Repo/Parameter_Variable_Binding_Example
Credentials	admin/***** (Account SVN server 50.58) Add
Local module directory	-
Repository depth	infinity
Ignore externals	<input checked="" type="checkbox"/>

At **Check-out Strategy**, select **Use 'svn update' as much as possible, with 'svn revert' before update**.

Additional Credentials	Add additional credentials...
Check-out Strategy	<div style="border: 2px solid red; padding: 2px;">Use 'svn update' as much as possible, with 'svn revert' before update</div> <p><small>Do 'svn revert' before doing 'svn update'. This slows down builds a bit, but this prevents files from getting modified by builds.</small></p>
Repository browser	(Auto)

At **Build** section, select **Execute Windows batch command** and enter command to run the test suite in console mode.



For the above example:

First command is to navigate to folder containing Katalon executable file.

Second command is to execute a batch file. This batch file contains command to execute test suite in console mode.

An example for the batch file:

```
katalon -runMode=console -summaryReport -statusDelay=30 -  
projectPk="C:\RegressionTest\RegressionTest.prj" -execute -testSuiteID="Test  
Suites\KeywordRegression\TS_AlertClassKeywordRegression" -browserType=Firefox
```

At this time, we can modify test project and commit code to SVN on machine A, then execute test suite on machine B via Jenkins job.

3. Create Jenkins slave node (optional)

When we want to execute test suites on multiple machines, we can create slave nodes on those machines and through Jenkins, designate jobs to them.

- Create Jenkins slave node

Login Jenkins > **Manage Jenkins** > **Manage Nodes** > **New Node**. Enter **Node name** and select **Dumb Slave**.

Node name

☒ **Dumb Slave**
Adds a plain, dumb slave to Jenkins. This is called "dumb" because Jenkins doesn't provide higher level of integration with these slaves, such as dynamic provisioning. Select this type if no other slave types apply — for example such as when you are adding a physical computer, virtual machines managed outside Jenkins, etc.

☐ **Copy Existing Node**
Copy from

Enter **Name**, **Remote root directory**, **Labels** for the slave.

At **Launch method** section, select **Launch slave agents via Java Web Start**.

Name ?

Description ?

of executors ?

Remote root directory ?

Labels ?

Usage ?

Launch method ?

Availability ?

- Start slave node

Assume we have machine C to act as slave node. From machine C, login **Jenkins** > **Manage Jenkins** > **Manage Nodes** > {slave node}. Click **slave.jar**, save the file to your selected location.

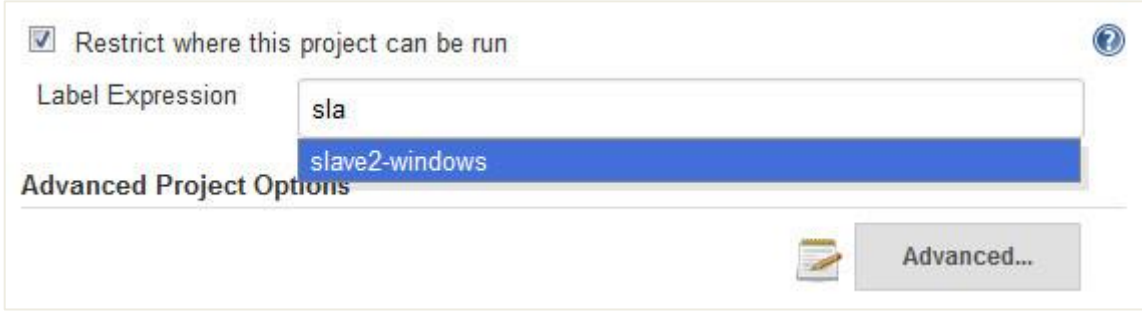
Open command prompt, navigate to **.jar** location and run the command line, for example:


```
java -jar slave.jar -jnlpUrl
http://192.168.50.58:9090/computer/Slave2/slave-agent.jnlp -secret
fc4e5fc20e966f64c75c74f3db5c6331dff5882a4d12371a745a9ec7c93980fb
```

- **Designate Jenkins job to slave node**


Login **Jenkins** > {job} > **Configure** > check **Restrict where this build can be run**


At **Label Expression**, enter slave's label.



☒ Restrict where this project can be run 

Label Expression

Advanced Project Options 

 **Advanced...**