

Katalon Studio For Automated Testing

Sesi 7

Jenkins & Command Line Execution



INTEGRATION JENKINS



Katalon Studio is a powerful automation toolset for web and mobile app testing. It is a free yet feature-packed solution that can be applied to overcome common challenges such as wait-time, pop-up, and iframe in web UI test automation.

Katalon Studio brings more intelligence to the entire test automation process testers can now test better, test faster and launch high-quality software through this user-friendly, versatile solution.

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Prerequisites:

- 1. Katalon Studio Should be installed in your machine.
- 2. Create Demo project in Katalon Studio.
- 3. Jenkins should be installed in your machine

Here is the tool that we are gonna use.

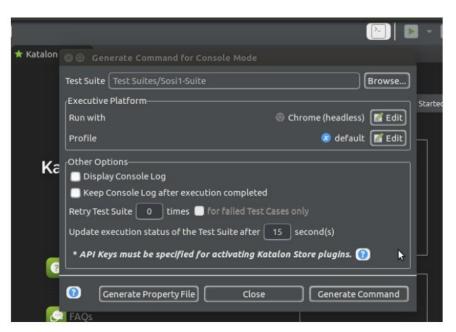
- 1. Build CMD option: It will generate the CMD command to execute your Katalon project.
- 2. Katalon Studio plugin: This plugin is for Jenkins to create katalon studio build.

1. Generate Build execution command for or project.

So for build execution command, we need to Click on Build CMD.



It will open **Build CMD** modal in which you need to select the following things.



- 1. Select your test suite.
- 2. Select the Browser that you need to execute your test suite.
- 3. Select the profile if you are working with multiple profiles.
- 4. If you need to see console logs or create a log file for your script execution then you need to select Display Console Log and Keep console log after execution completed checkbox.
- 5. Now click on the Generate Command button and it will display generated command for your script.
- Copy generated command.



Now we move to our Jenkins Lets integrate our Katalon test suite with Jenkins build.

There is two way to integrate Katalon Studio with Jenkins.

- 1. Using Katalon Studio plugin
- 2. Using Execute Windows batch command/Execute shell

First, we check how to integrate Katalon Studio with Katalon Studio plugin On Jenkins.

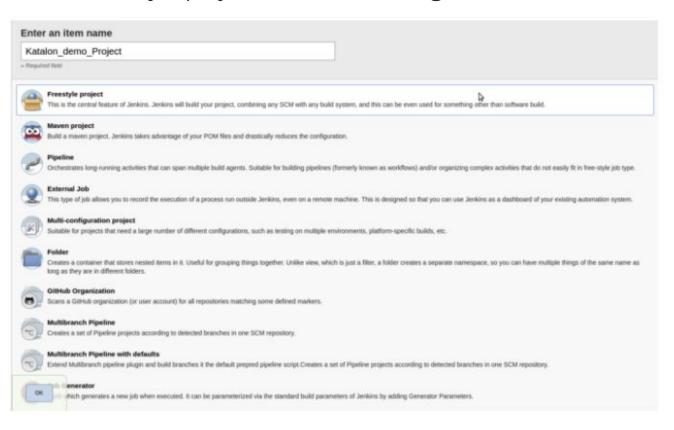
1. Now we gonna install Katalon Studio plugin

Go to Manage Jenkins -> Manage Plugins -> Available and search for Katalon Studio plugin and install it:

Katalon Studio Plugin
 Execute Katalon Studio in Jenkins

1.0.11

2. Create a New Freestyle project for Katalon integration.



3. Once we install Katalon Studio plugin It will display Execute Katalon Studio test option in the Build section.

xecute Katalon Studio Tests		×
Nownload Katalon Studio version	633	
Jse pre-installed Katalon Studio		
Command arguments	-browserType="Chrome (headless)" -retry=0 -statusDelay=15 -testSuitePath="Test Suites/Soci1-Suite" -executionProfile="default"	
(11 DISPLAY (for Limux)	_	
(vfb-run configuration (for Linux)	-a -n 0 -s *-screen 0 1024x768x24*	

Now, Select Katalon Studio version here we are using the latest version of Katalon Studio 6.3.3 Or user needs to user pre-installed Katalon studio add the valid path of Katalon Studio.

After that, you need to add Command arguments like:

-browserType="Chrome (headless)" -retry=0 -statusDelay=15 testSuitePath="Test Suites/Sosi1-Suite" -executionProfile="default"

At the and of this we need to specify Xvfb-run configuration (for Linux) mean add your browser screen resolution as we added here :

Xvfb-run configuration (for Linux):-a -n 0 -s "-screen 0 1024x768x24"

Now, we are able to run Katalon script on Jenkins using Katalon Studio plugin.



COMMAND LINE EXECUTION

Execute Katalon Studio in console mode

- 1. Open the command prompt and navigate to the folder of your Katalon Studio build: katalonc.exe (Windows), Applications folder (Mac OS), or katalonc (Linux) file.
- 2. Enter the following syntax to execute automation test: Windows

```
katalonc {option1} {option2} ... {optionN}

macOS

cd /Applications/Katalon\ Studio\ Engine.app/Contents/MacOS
    ./katalonc --args {option1} {option2} ... {optionN}

Linux
    ./katalonc {option1} {option2} ... {optionN}
```

COMMAND LINE EXECUTION



- Press Enter to start execution.
- 2. Exit Code

Below is the list of exit codes after console mode execution:

- 0: the execution passed with no failed or error test case.
- 1: the execution has failed test cases.
- 2: the execution has error test cases.
- 3: the execution has failed test cases and error test cases.
- 4: the execution cannot start because of invalid arguments.