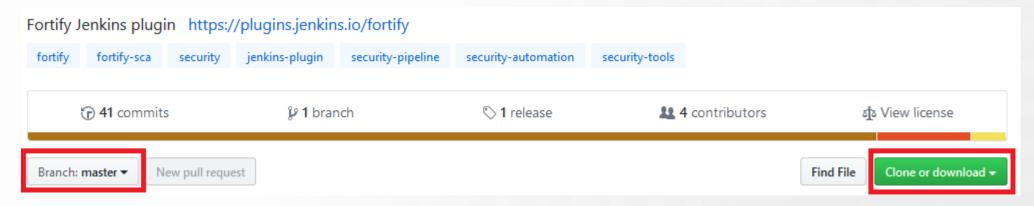
Fortify SCA Jenkins Plugin 19.1.0

Jonathan Couch Fortify Security Support Engineer



Downloading Jenkins plugin (latest)

- Download the latest version from the following github repository <u>https://github.com/jenkinsci/fortify-plugin</u>
- Select the Master branch and download



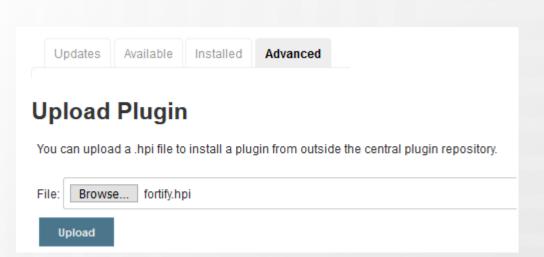
- Requires Maven and JDK to build the Jenkins plugin and uses the version that is supported by SCA 19.1.0 found in the system requirement guide.
- This will generate a fortify.hpi file containing the SCA Jenkins plugin



Installing the plugin

- Open Jenkins and navigate to Manage Jenkins -> Manage Plugins
- Switch to the Advanced tab and under the "Upload Plugin" section click the Browse button and select the generated fortify.hpi file



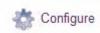




Configuring the Jenkins plugin

After successfully installing the plugin, it is ready to be used in a job.

For an existing job, click on Configure eg ** Configure



Post-build Actions

Scroll down to the "Post-build actions" section eg

Add post-build action -

Click the "Add post-build action" dropdown and select "Fortify Assessment"

Aggregate downstream test results

Archive the artifacts

Build other projects

Fortify Assessment

Publish JUnit test result report

Record fingerprints of files to track usage

Git Publisher

E-mail Notification

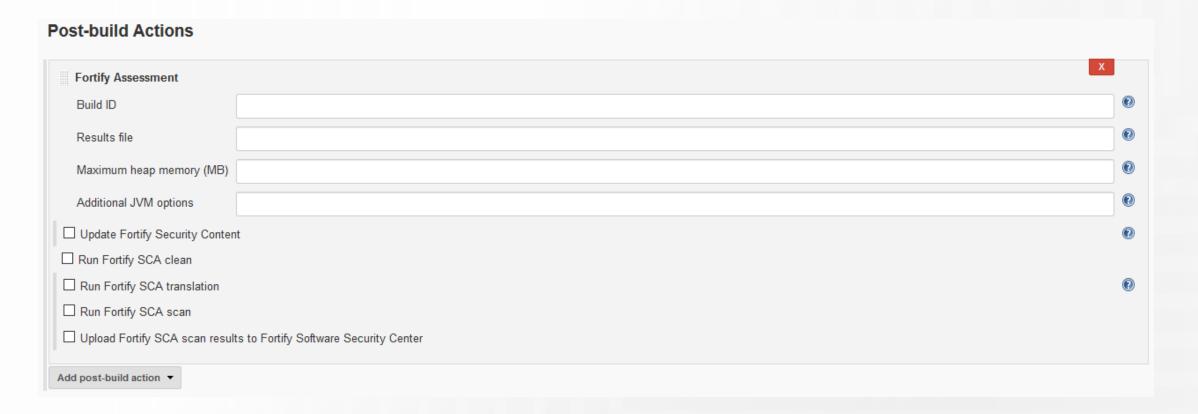
Editable Email Notification

Set GitHub commit status (universal)

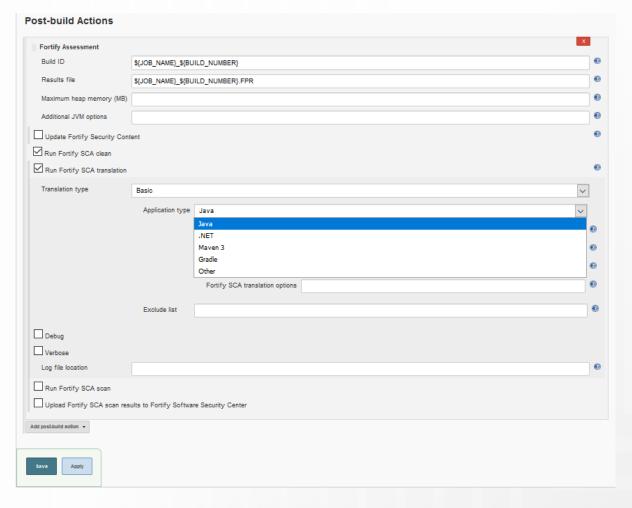
Set build status on GitHub commit [deprecated]

Delete workspace when build is done

This will bring up the following field parameters and checkboxes. Enter the information needed to run a job.

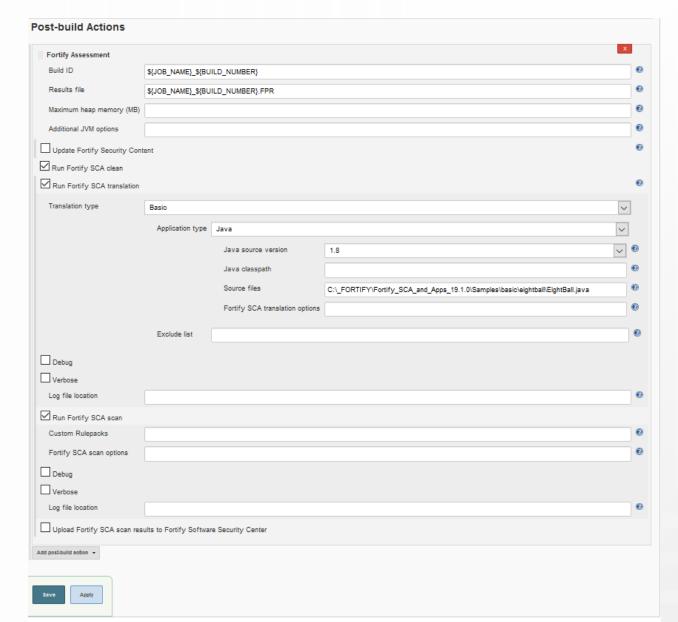


Depending on the language to be scanned which can be either, Java, Maven, Gradle, or .NET, here are some examples.



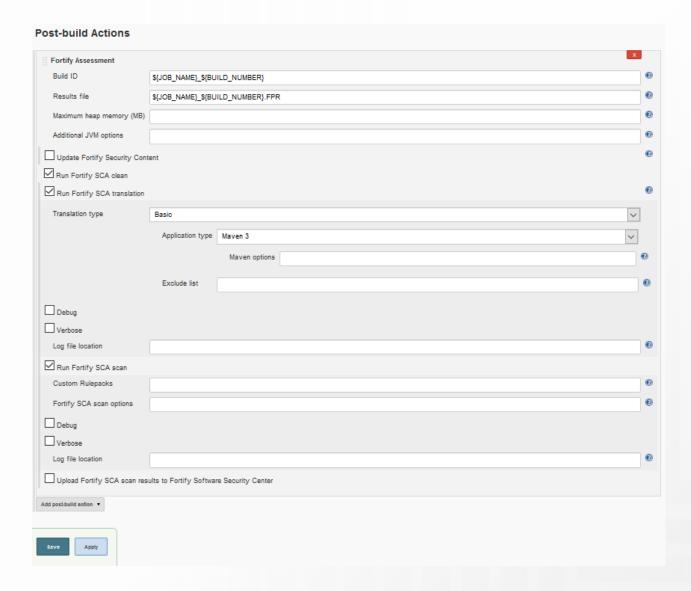
The fields can use Jenkins System Environment variables Eg \${JOB_NAME}, \${BUILD_NUMBER}





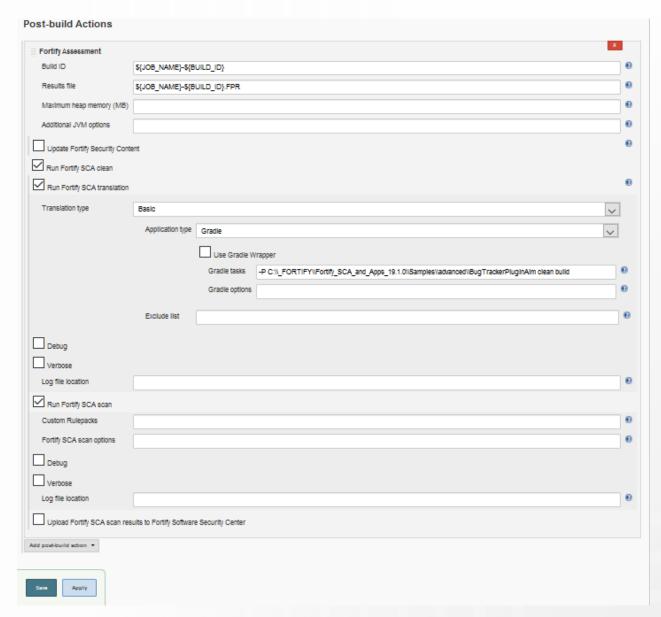
Java Example





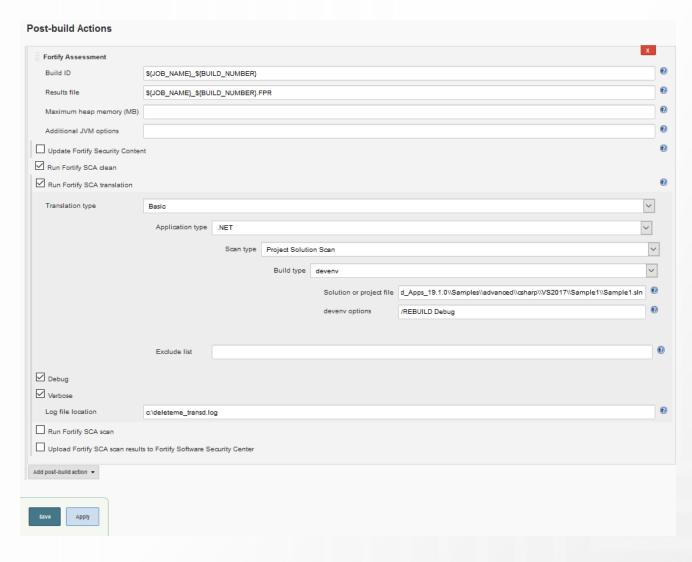
Maven Example





Gradle Example



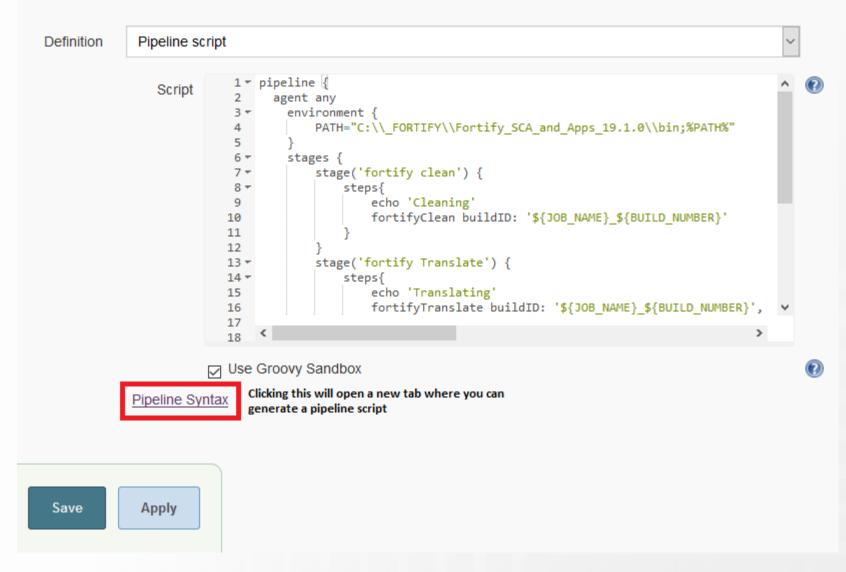


.NET Example



Jenkins Pipeline

Pipeline



Pipeline Example

Jenkins Pipeline (continued)

Overview

This Snippet Generator will help you learn the Pipeline Script code which can be used to define various steps. Pick a step you are interested in from the list, configure it, click Generate Pipeline Script, and you will see a Pipeline Script statement that would call the step with that configuration. You may copy and paste the whole statement into your script, or pick up just the options you care about. (Most parameters are optional and can be omitted in your script, leaving them at default values.)

Steps Sample Step V fortifyTranslate: Run Fortify SCA translation Build ID \${JOB_NAME}_\${BUILD_NUMBER} Application type Java Java source version 1.8 Java classpath 0 Source files C:_FORTIFY\\Fortify_SCA_and_Apps_19.1.0\\Samples\\basic\\eightball\\EightBall.java 0 Fortify SCA translation options 0 Exclude list Advanced... Generate Pipeline Soript fortifyTranslate addJVMOptions: ", buildID: '\${JOB_NAME}_\${BUILD_NUMBER}', excludeList: ", logFile: ", maxHeap: ", projectScanType: fortifyJava(javaAddOptions: ", javaClasspath: ", javaSroFiles: 'C:_FORTIFY \\\Fortify_SCA_and_Apps_19.1.0\\\\Samples\\\basic\\\\eightball\\\EightBall.java', javaVersion: '1.8')

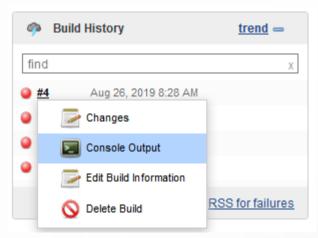
Global Variables

Troubleshooting

When something goes wrong

Step 1: Check the console

output





Troubleshooting

> Task :assemble

> Task :build

> Task :compileTestJava NO-SOURCE
> Task :processTestResources NO-SOURCE

> Task :testClasses UP-TO-DATE

> Task :test NO-SOURCE > Task :check UP-TO-DATE

When something goes wrong

Step 1: Check the console output

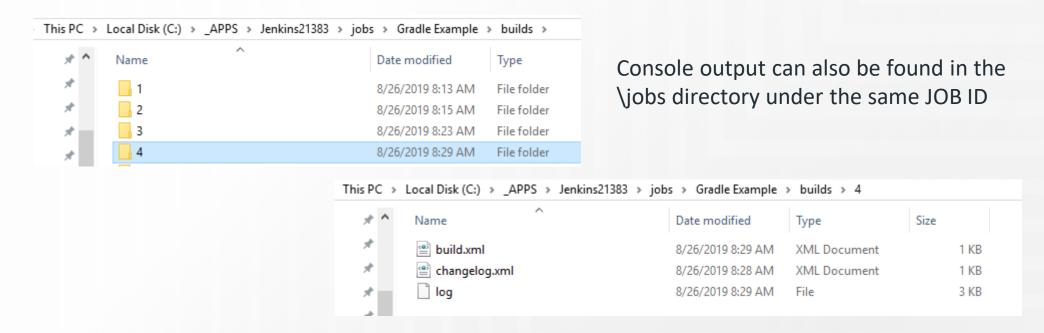


Troubleshooting

Send Jenkins build logs to Fortify Technical Support. Build log are located under,

Eg

Path\Jenkins\jobs\<Project Name>\builds\<build_number>



Additional Information

- Jenkins plugin documentation
 https://www.microfocus.com/documentation/fortify-jenkins-plugin/1910/Jenkins Plugin Help 19.1.0/index.htm
- Jenkins Plugin for Fortify SCA/SSC to automatically upload projects https://youtu.be/cjEwDmTsxII
- Fortify Plugin https://wiki.jenkins.io/display/JENKINS/Fortify+Plugin
- Pipeline-compatible steps https://jenkins.io/doc/pipeline/steps/fortify

Questions



Thank you.

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