



# Storyboard Validator Integration with Jenkins CI Tool

## Introduction

This guide will provide a brief introduction to Jenkins and demonstrate how Storyboard Validator can be triggered as part of your continuous integration workflow.

Follow <https://www.jenkins.io/doc/pipeline/tour/getting-started/> for instructions on how to download, install and launch Jenkins, if you already have a Jenkins environment setup, you can skip this step.

Integration of Validator into Jenkins requires two steps. One windows batch command (or shell command if running Jenkins in a Unix environment), and one post-build action to publish JUnit test result report.

It is assumed that you already have a project created. In this example, we started with a Freestyle project.

### Prerequisites

The JUnit plugin for Jenkins <https://plugins.jenkins.io/junit/>

## Adding Validator Launch Command

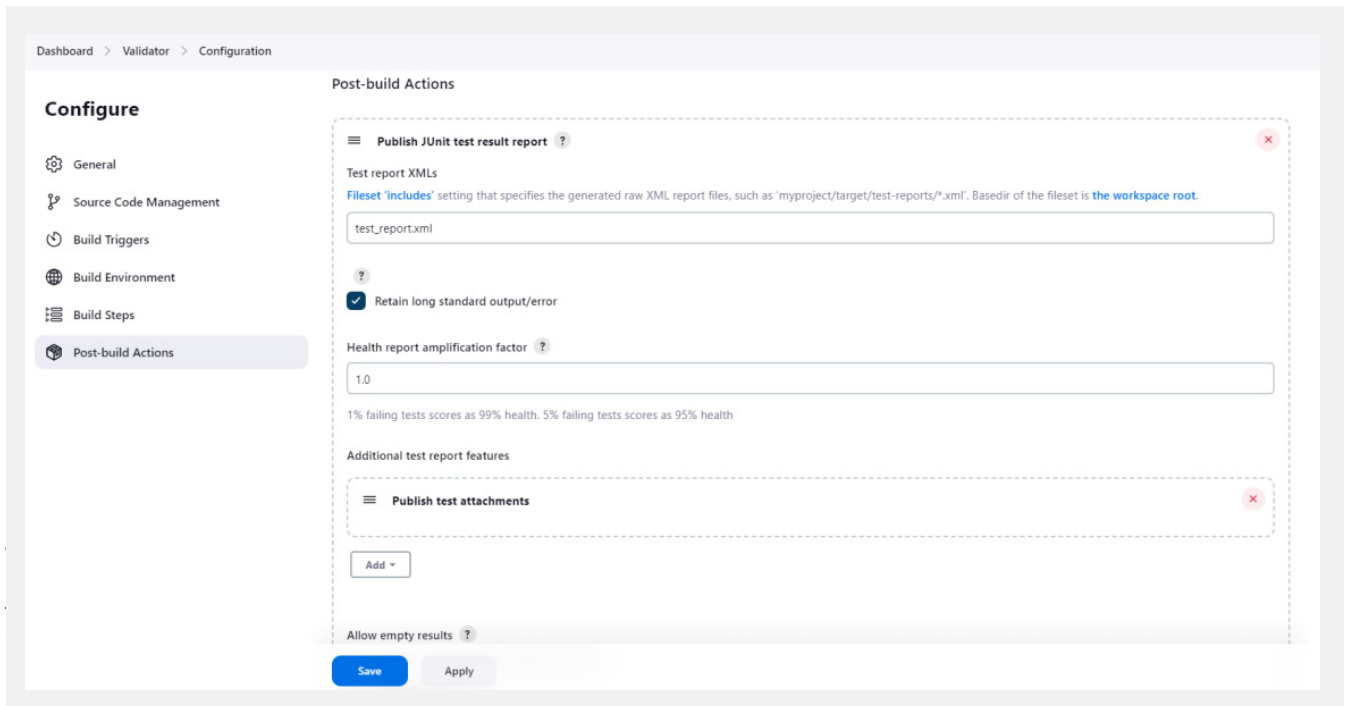
- 1 Add a build step to execute Windows batch command:

The screenshot shows the Jenkins Configuration page for the Validator plugin. The left sidebar contains a 'Configure' section with a list of tabs: General, Source Code Management, Build Triggers, Build Environment (selected), Build Steps, and Post-build Actions. The main content area is titled 'Configure' and contains a list of checkboxes for various options: 'Delete workspace before build starts', 'Use secret text(s) or file(s)', 'Add timestamps to the Console Output', 'Inspect build log for published build scans', 'Terminate a build if it's stuck', and 'With Ant'. Below these options is a 'Build Steps' section. A build step titled 'Execute Windows batch command' is added, showing a command box with the following text: `"C:\Program Files\Crank_Software\Storyboard_Designer\Crank Storyboard.exe" -application com.crank.validator.ui.validator.testrunner model="%USERPROFILE%\storyboard_workspace\Thermostat\Thermostat.gde" config=Thermostat.gde-Simulator xml="%WORKSPACE%\test_report.xml" -data "%USERPROFILE%\storyboard_workspace"`. Below the command box is an 'Advanced' dropdown menu. At the bottom of the page are buttons for 'Add build step', 'Save', and 'Apply'.

Adjust the following command to suit your needs, change the Storyboard installation, GDE model file path, launch configuration name and Storyboard workspace as required:

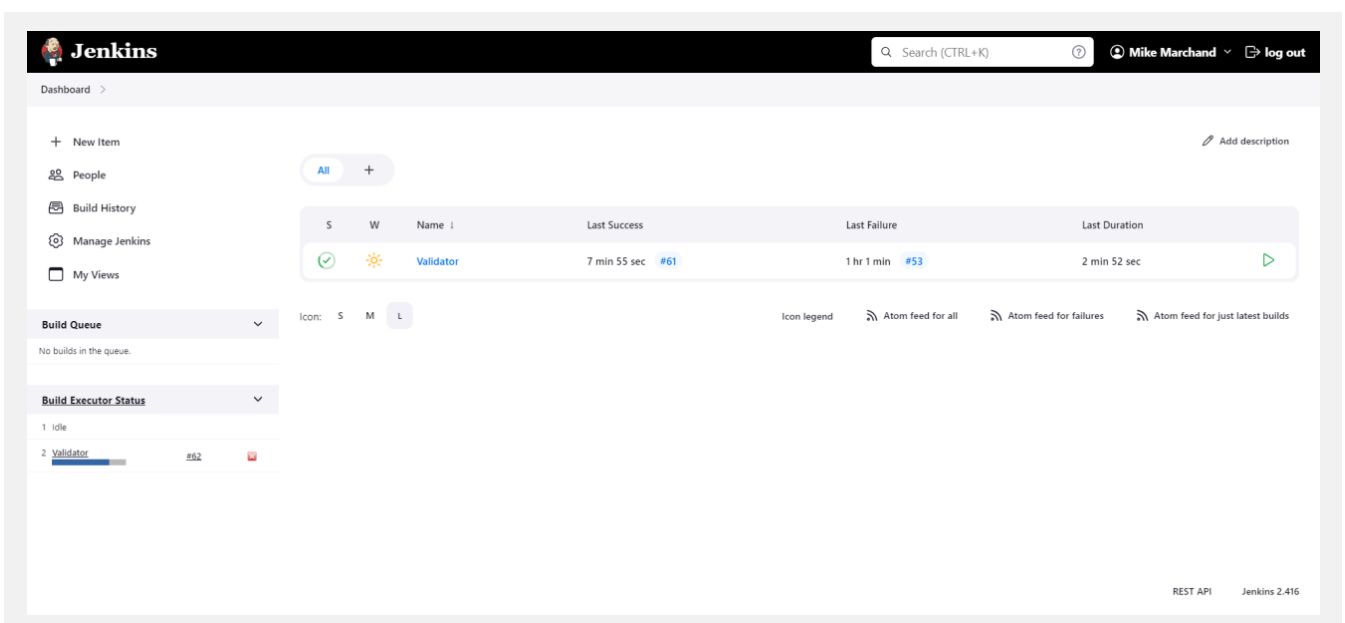
```
"C:\Program Files\Crank_Software\Storyboard_Designer\Crank
Storyboard.exe" -application sb.validator
model="%USERPROFILE%\storyboard_workspace\Thermostat\Thermostat.gde"
config=Thermostat.gde-Simulator xml="%WORKSPACE%\test_report.xml" -data
"%USERPROFILE%\storyboard_workspace"
```

- 2 Add a post-build action for Publish JUnit test result report:

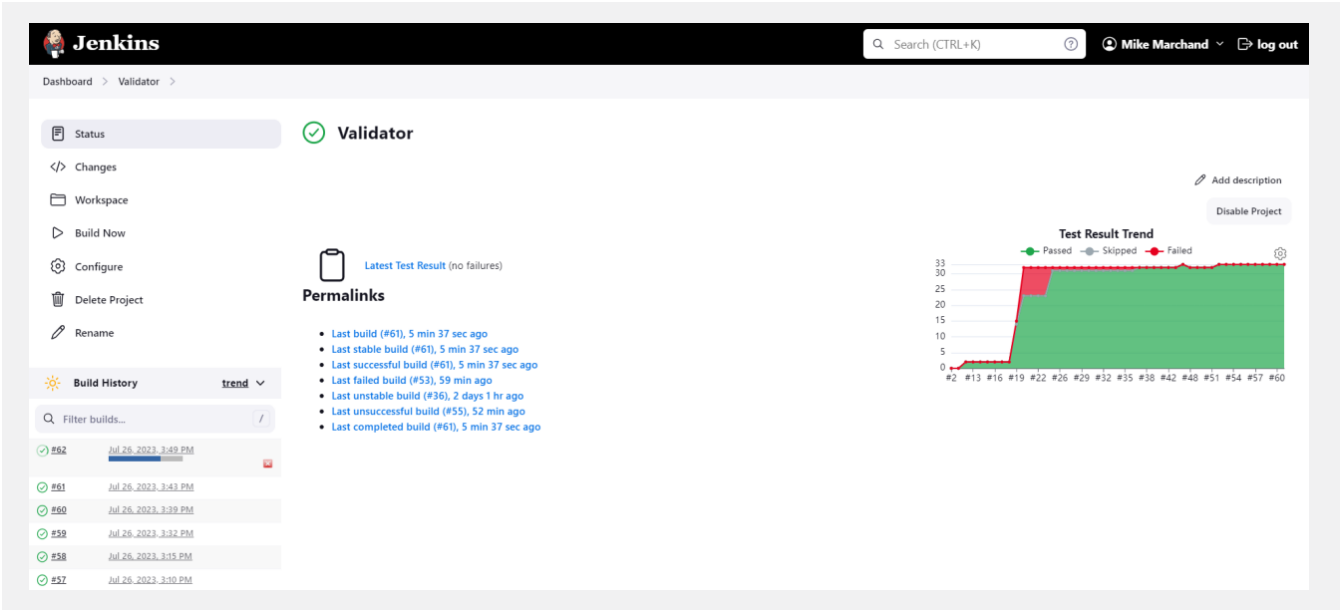


Set the test filter to test\_report.xml

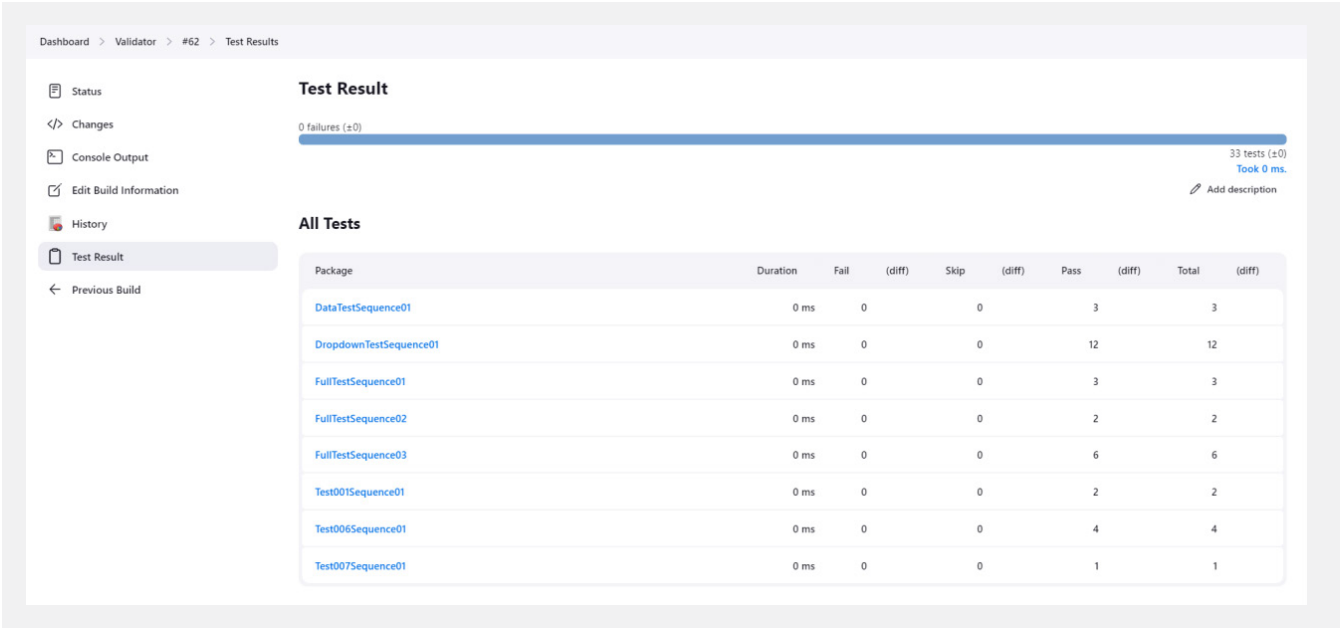
- 3 From the dashboard you can trigger a new build for verification:



The Project will maintain a history of the build and test results:



The test results can be examined:



The presentation of data from within Storyboard Validator is more detailed and easier to work with than the experience in the Jenkins user interface, but it is useful to be able to dig into some results without having to open Storyboard.

When one or more tests fail the build is marked as unstable:

Jenkins

Search (CTRL+K)

Mike Marchand log out

Dashboard > Validator > #63

Status

Changes

Console Output

Edit Build Information

Delete build '#63'

Test Result

Previous Build

#63 (Jul 26, 2023, 3:58:49 PM)

Keep this build forever

Add description Started 6 min 11 sec ago Took 2 min 53 sec

No changes.

Started by user Mike Marchand

Test Result (14 failures / +14)  
DropdownTestSequence01.67010dae-92e2-4dce-81d9-b492d1891bbc.c37e318a-1209-43b4-870b-807061ae44f  
DropdownTestSequence01.67010dae-92e2-4dce-81d9-b492d1891bbc.0570b8de-cd26-4678-acd7-2022dd05888d  
DropdownTestSequence01.a33c86ce-f2f8-46e4-9009-a37baba97daa.c37e318a-1209-43b4-870b-807061ae44f  
DropdownTestSequence01.a33c86ce-f2f8-46e4-9009-a37baba97daa.0570b8de-cd26-4678-acd7-2022dd05888d  
FullTestSequence01.2cd40d97-e338-4cd3-a059-1466b6be8ea2.57359f8e-5ccc-4702-8903-8972abcf4ca9  
FullTestSequence01.2cd40d97-e338-4cd3-a059-1466b6be8ea2.0a13c622-a12f-4245-99fd-52a54clbd78f  
FullTestSequence01.2cd40d97-e338-4cd3-a059-1466b6be8ea2.fdb52904-5eba-4f94-8f17-4f3019c7a850  
Test0015sequence01.d552d8ac-7c3d-46e2-89dc-96e4e96db0eb.4c23545e-ea33-45a5-9843-6035etl712ede  
Test0015sequence01.d552d8ac-7c3d-46e2-89dc-96e4e96db0eb.2e2ff457-bcb4-4004-9aa3-7824a61a23fc  
Test0065sequence01.0644b653-afd2-46c8-8115-6be3d25993e7.a2c064c5-f014-4bd3-94ef-b50836579fa8  
[Show all failed tests >>>](#)

REST API Jenkins 2.416

Jenkins

Search (CTRL+K)

Mike Marchand log out

Dashboard > Validator > #63 > Test Results

Status

Changes

Console Output

Edit Build Information

History

Test Result

Previous Build

Test Result

14 failures (+14)

33 tests (+0) Took 0 ms.

Add description

Test Name

Duration

Age

+ DropdownTestSequence01.67010dae-92e2-4dce-81d9-b492d1891bbc.c37e318a-1209-43b4-870b-807061ae44f

0 ms

1

+ DropdownTestSequence01.67010dae-92e2-4dce-81d9-b492d1891bbc.0570b8de-cd26-4678-acd7-2022dd05888d

0 ms

1

+ DropdownTestSequence01.a33c86ce-f2f8-46e4-9009-a37baba97daa.c37e318a-1209-43b4-870b-807061ae44f

0 ms

1

+ DropdownTestSequence01.a33c86ce-f2f8-46e4-9009-a37baba97daa.0570b8de-cd26-4678-acd7-2022dd05888d

0 ms

1

+ FullTestSequence01.2cd40d97-e338-4cd3-a059-1466b6be8ea2.57359f8e-5ccc-4702-8903-8972abcf4ca9

0 ms

1

+ FullTestSequence01.2cd40d97-e338-4cd3-a059-1466b6be8ea2.0a13c622-a12f-4245-99fd-52a54clbd78f

0 ms

1

+ FullTestSequence01.2cd40d97-e338-4cd3-a059-1466b6be8ea2.fdb52904-5eba-4f94-8f17-4f3019c7a850

0 ms

1