

# [Xray] How to create a use a parameterized project in Jenkins

Sometimes, it is useful/necessary to turn the builds in Jenkins more flexible/dynamic. For that, in the Jenkins job, you can configure it as a parameterized project.

## Example using a Freestyle project and a multipart endpoint

- Create a freestyle project
- In the job configuration page check the option "This project is parameterized" and click in the option "Add Parameters". There is a drop-down option to configure parameterized build options (like a boolean attribute, or a string attribute).
- Example:

The screenshot shows the Jenkins job configuration page for a Freestyle project. The 'General' tab is selected. The checkbox 'This project is parameterized' is checked. Below it, two 'String Parameter' sections are visible. The first parameter has 'Name' and 'Description' fields highlighted with red boxes. The second parameter has 'Name' highlighted with a red box and 'ProjectKey' entered in the 'Name' field. At the bottom, the 'Add Parameter' button is highlighted with a red box.

- In the previous example, I just have created two parameters that will be used to define the description of the Test Execution and in which project the new Test Execution will be created based in the parameters that will be passed when running the job.
- In the Post-Build: Xray: Results Import task, you configure where the parameters will be read and used, using the syntax `${parametername}` (`${Description}` and `${ProjectKey}`)

The screenshot shows the 'Xray: Results Import Task' configuration page. The 'Jira Instance' is set to 'Docker2' and the 'Format' is 'JUnit XML multipart'. Under the 'Parameters' section, the 'Import to Same Test Execution' checkbox is checked. The 'Execution Report File (file path with file name)' is 'JUnit2.xml'. The 'Test Execution fields' dropdown is set to 'JSON Content'. A JSON snippet is shown in the text area, with placeholders for parameters: 'key': `${ProjectKey}`, 'summary': 'Test Execution for Execution', 'name': 'Test Execution', 'labels': ['label1', 'Android'], 'description': `${Description}`. The 'Save' and 'Apply' buttons are at the bottom.

- Save it
- Now you will notice that the "Build Now" text has changed to "Build Now with Parameters", and clicking on the link provides you the option to set those parameters for the build. Example:

**Jenkins**

Jenkins > JUnit2

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## Project JUnit2

This build requires parameters:

Description: Description for the parameterized project in Jenkins

ProjectKey: CALC

**Build**

- 
- Console Output in Jenkins

**Consola**

Started by user unknown or anonymous  
Running as SYSTEM  
Building in workspace C:\Program Files (x86)\jenkins\workspace\JUnit2  
Starting XRAY: Results Import Task...  
#####  
Xray is importing the Feature Files #####  
#####  
Starting to import results from JUnit2.xml  
Response: (200) {"testExecIssue":{"id":"12648","key":"CALC-2253","self":"http://cda-support-docker:7221/rest/api/2/issue/12648"}}  
Successfully imported JUnit XML multipart results from JUnit2.xml  
XRAY\_ISSUES\_MODIFIED: CALC-2253  
XRAY\_TESTS:  
XRAY\_TEST\_EXECS: CALC-2253  
XRAY\_IS\_REQUEST\_SUCCESSFUL: true  
XRAY\_STATUS\_RESPONSE: {"testExecIssue":{"id":"12648","key":"CALC-2253","self":"http://cda-support-docker:7221/rest/api/2/issue/12648"}}  
Finished: SUCCESS

New Test Execution created

- 
- New Test Execution created in Jira (CALC-2253)

**Test Execution for Execution**

Calculator CALC-2253

[Edit](#) [Comment](#) [Assign](#) [More](#) [Start Progress](#) [Resolve Issue](#) [Close Issue](#) [Admin](#)

**Details**

Type: Test Execution  
Priority: Lowest  
Affects Version/s: None  
Component/s: None  
Labels: Android, label1  
Test Plan: None  
Test Environments: None  
Test required: Test

Status: **Open** (View Workflow)  
Resolution: Unresolved  
Fix Version/s: None

**Description**

Description for the parameterized project in Jenkins

**Tests**

Overall Execution Status

1 PASS 1 FAIL

Total Tests: 2

Apply Rank

Rank	Key	Summary	Test Type	#Req	#Def	Test Sets	Assignee	Status
2	BMP-3	XrayUnitImport	Generic	0	0			PASS
1	BMP-2	XrayUnitImport2	Generic	0	0			FAIL

Showing 1 to 2 of 2 entries

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## Related Documentation

- [Integration with Jenkins](#)