

# Integration with Automation for Jira

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## Overview

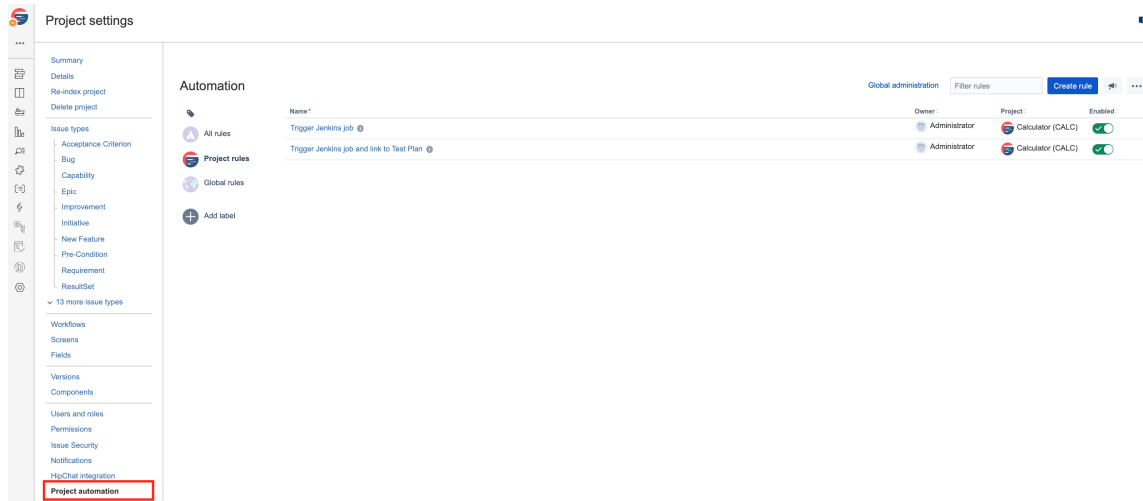
The [Automation for Jira](#) app enables users to easily extend and implement automation in Jira without having to code.

This way, users can implement rules that are triggered upon some event, executed if certain condition(s) are met and that perform certain action(s).

Rules can also be triggered manually or may be scheduled.

Since Xray uses issue types for most of its entities and since Xray provides many JQL functions that allow you to obtain testing-related information, Automation for Jira can be used with Xray in a very straightforward way.

Automation rules are available and, can be created, from the project settings, namely from the "Automation" tab.



Project settings

Automation

| Name*                                     | Owner         | Project           | Enabled |
|-------------------------------------------|---------------|-------------------|---------|
| Trigger Jenkins job                       | Administrator | Calculator (CALC) | Enabled |
| Trigger Jenkins job and link to Test Plan | Administrator | Calculator (CALC) | Enabled |



### Please note

The following examples are provided as-is, no warranties attached; use them carefully.

Please feel free to adapt them to your needs.

Note: We don't provide support for Automaton for Jira; if you have doubts concerning its usage, please contact [Automation for Jira's support](#).

# Usage Examples

## Jenkins

### Trigger a Jenkins project build from an issue

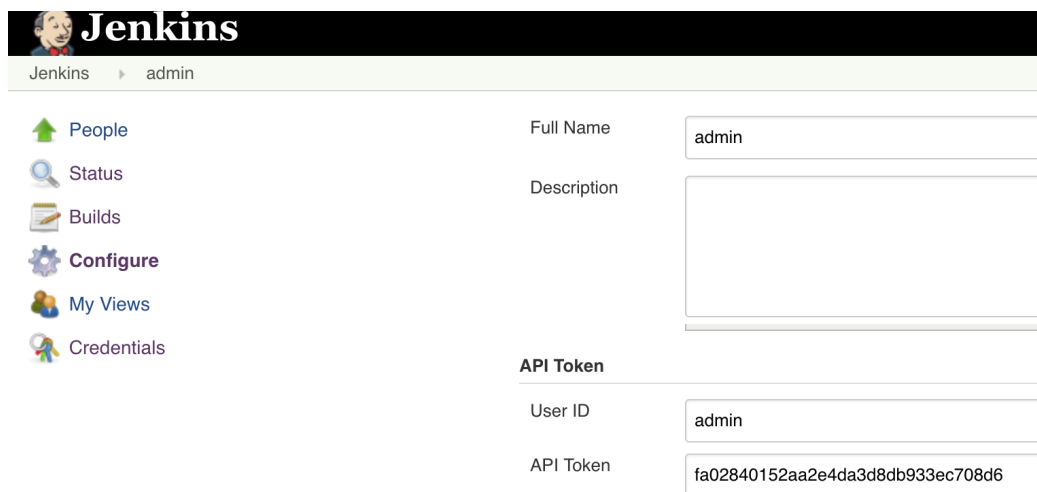
In this very simple scenario, we'll implement a rule, triggered manually, that will trigger a Jenkins project/job. The action will be available from within the "More" menu, in all issues of the selected project.

We're assuming that:

- you just want to trigger a CI job, period; this job may be totally unrelated to the issue from where you triggered it
- what the CI job will do, including if it will report the results back to Xray or not, is not relevant

### Jenkins configuration

In Jenkins, we need to generate an API token for some user, which can be done from the profile settings page.



Jenkins

admin

People

Status

Builds

Configure

My Views

Credentials

Full Name

admin

Description

API Token

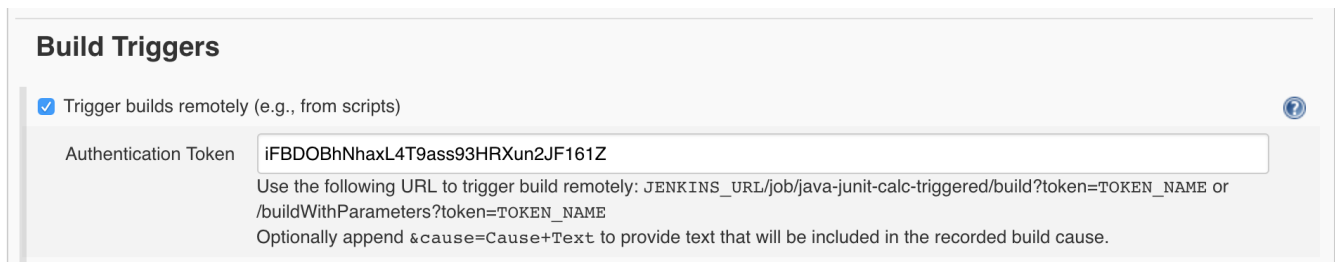
User ID

admin

API Token

fa02840152aa2e4da3d8db933ec708d6

At the project level, we need to enable remote build triggers, so we can obtain an "authentication token" to be used in the HTTP request afterwards.



Build Triggers

☒ Trigger builds remotely (e.g., from scripts)

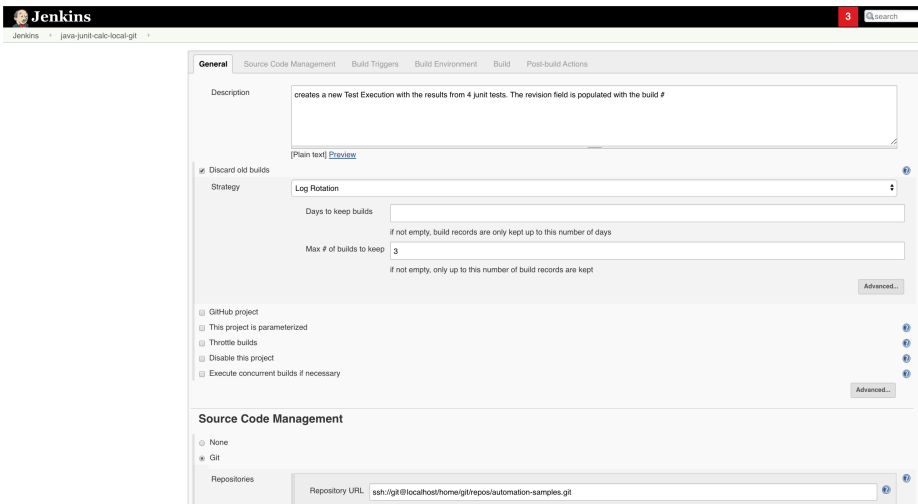
Authentication Token

iFBDOBHnaxL4T9ass93HRXun2JF161Z

Use the following URL to trigger build remotely: `JENKINS_URL/job/java-junit-calc-triggered/build?token=TOKEN_NAME` or `/buildWithParameters?token=TOKEN_NAME`

Optionally append `&cause=Cause+Text` to provide text that will be included in the recorded build cause.

The project itself is a normal one, without parameters.



## Automation for Jira configuration

1. create a new rule and define the "When" (i.e. when it to should be triggered ), to be "Manually triggered"

Automation DRAFT [Return to job](#)

Trigger Jenkins job

**Rule details**

Name\* Trigger Jenkins job

Description Trigger Jenkins job "java-junit-calc-local-git"

Projects Calculator (CALC)  
Projects can only be modified in the global administration.

Enabled ☒

Allow rule trigger ☐ Check to allow other rule actions to trigger this rule. Only enable this if you need this rule to execute in response to another rule.

Notify on error Don't notify

Created 3 hours ago

Owner Administrator

Updated 3 hours ago

Actor Administrator

Actions defined in this rule will be performed by the user selected as the actor.

[Save](#) [Cancel](#)

**When: Manually triggered**  
All logged in users can run rule.

**Then: Send webhook**  
POST  
http://192.168.56.102:8081/job/java-junit-calc-local-git/build?token=IFBDOhNhaxL4T9ass93HRXun2JF161Z

[Add component](#)

2. define an action (i.e. the "Then") as "Send webhook" and configure it as follows

Automation ENABLED

Trigger Jenkins job

**Rule details**

**Audit log**

**When: Manually triggered**  
All logged in users can run rule.

**Then: Send webhook**  
POST  
http://192.168.56.102:8081/job/java-junit-calc-local-git/build?token=IFBDOhNhaxL4T9ass93HRXun2JF161Z

[Add component](#)

**Send webhook**

This action will send a HTTP POST to the url specified below:

Webhook URL\*  
http://192.168.56.102:8081/job/java-junit-calc-local-git/build?token=IFBDOhNhaxL4T9ass93HRXun2JF161Z

Headers (optional)

Content-Type application/json

Authorization Basic YWRtaW46YWRtaW4=

[Add](#)

HTTP method  
POST

Webhook body  
Empty

[Save](#) [Cancel](#)

- the Webhook URL provided above follows this syntax:
  - <jenkins\_base\_url>/job/<name\_of\_jenkins\_project\_job>/build?token=<token>

- besides the "Content-Type" header that should be "application/json", define also an "Authorization" header having the value "Basic <auth>", where the base64 encoded <auth> can be [generated](#) using your Jenkins API credentials

After publishing the rule, you can go to the screen of an issue and trigger the Jenkins project/job.

The screenshot shows the JIRA interface for an issue titled "all my sum related tests for v3.0". The issue is of type "Test Plan" with a "Major" priority. The "More" dropdown menu is open, displaying a list of actions. The "Trigger Jenkins job" option at the bottom of this menu is highlighted with a red rectangular box. Other visible options in the menu include "Trigger Bamboo Build w...", "Trigger Jenkins Build", "Trigger Jenkins build ...", "Synchronize Tests from...", "Assign", "Log work", "Agile Board", "Rank to Top", "Rank to Bottom", "Attach files", "Voters", "Stop watching", "Watchers", "Create sub-task", "Convert to sub-task", "Move", "Link", "Clone", "Labels", and "Delete". The "Overall Execution Status" at the bottom left shows "7 PASS" with a green bar.

## Trigger a Jenkins project build from a Test Plan and report the results back to it

In this simple scenario, we'll implement a rule, triggered manually, that will trigger a Jenkins project/job. The action will be available from within the "More" menu, for all Test Plan issues of the selected project.

We're assuming that:

- you just want to trigger a CI job, period; this job may be totally unrelated to the issue from where you triggered it
- the results will be submitted back to Xray, if the project is configured to do so in Jenkins

## Jenkins configuration

In Jenkins, we need to generate an API token for some user, which can be done from the profile settings page.



# Jenkins

Jenkins > admin

 People

 Status

 Builds

 **Configure**

 My Views

 Credentials

Full Name

admin

Description

API Token

User ID

admin

API Token

fa02840152aa2e4da3d8db933ec708d6

At the project level, we need to enable remote build triggers, so we can obtain an "authentication token" to be used in the HTTP request afterwards.

## Build Triggers

☒ Trigger builds remotely (e.g., from scripts)

Authentication Token

iFBDOBHnaxL4T9ass93HRXun2JF161Z

Use the following URL to trigger build remotely: JENKINS\_URL/job/java-junit-calc-triggered/build?token=TOKEN\_NAME or /buildWithParameters?token=TOKEN\_NAME  
Optionally append &cause=Cause+Text to provide text that will be included in the recorded build cause.

The project itself is a normal one; the only thing relevant to mention is that this project is a parameterized one, so it receives TESTPLAN, that in our case will be coming from Jira.



# Jenkins

Jenkins > java-junit-calc-local-git-report-to-testplan >

GeneralSource Code ManagementBuild TriggersBuild EnvironmentBuild Post-build Actions

Description

creates a new Test Execution with the results from 4 junit tests. The revision field is populated with the build #

[Plain text] Preview

☒ Discard old builds

Strategy

Log Rotation

Days to keep builds

if not empty, build records are only kept up to this number of days

Max # of builds to keep

3

if not empty, only up to this number of build records are kept

Advanced...

☐ GitHub project

☒ This project is parameterized

String Parameter

Name

TESTPLAN

Default Value

Description

[Plain text] Preview

☒ Trim the string

## Automation for Jira configuration

1. create a new rule and define the "When" (i.e. when it to should be triggered ), to be "Manually triggered"

## Automation

ENABLED

### Trigger Jenkins job and link to Test Plan

Rule details

Audit log

When: Manually triggered

All logged in users can run rule.

If: Compare two values

Checks if:  
{{issue.issue.type.name}} equals Test Plan

Then: Send webhook

POST  
http://192.168.56.102:8081/job/java-junit-calc-local-git-report-to-testplan/buildWithParameters?token=iFBDOBhNhaxL4T9ass93HRXun2JF161Z&TESTPLAN={{issue.key}}

Add component

### Rule details

Name\* Trigger Jenkins job and link to Test Plan

Description Trigger Jenkins job "java-junit-calc"

Projects Calculator (CALC)

Projects can only be modified in the global administration.

Enabled ☒

Allow rule trigger ☐ Check to allow other rule actions to trigger this rule. Only enable this if you need this rule to execute in response to another rule.

Notify on error Don't notify

Created 3 hours ago

Owner Administrator

The owner will receive emails when the rule fails.

Updated 3 hours ago

Actor Administrator

Actions defined in this rule will be performed by the user selected as the actor.

Save Cancel

2. define the condition so that this rule can only be executed from Test Plan issue

## Automation

ENABLED

### Trigger Jenkins job and link to Test Plan

Rule details

Audit log

When: Manually triggered

All logged in users can run rule.

If: Compare two values

Checks if:  
{{issue.issue.type.name}} equals Test Plan

Then: Send webhook

POST  
http://192.168.56.102:8081/job/java-junit-calc-local-git-report-to-testplan/buildWithParameters?token=iFBDOBhNhaxL4T9ass93HRXun2JF161Z&TESTPLAN={{issue.key}}

Add component

### Compare condition

Compares a value to another using value substitutions and regular expressions.

First value\*

{{issue.issue.type.name}}

Condition

Equals

Second value

Test Plan

Save Cancel

What values can I compare?

3. define an action (i.e. the "Then") as "Send webhook" and configure it as follows

## Automation

ENABLED

### Trigger Jenkins job and link to Test Plan

① Rule details

② Audit log

When: Manually triggered

All logged in users can run rule.

If: Compare two values

Checks if:  
{issue.issue.type.name} equals Test Plan

Then: Send webhook

POST  
http://192.168.56.102:8081/job/java-junit-calc-local-git-report-to-testplan/buildWithParameters?  
token=iFBDOBHnaxL4T9ass93HRXun2JF161Z&TESTPLAN={{issue.key}}

+ Add component

### Send webhook

This action will send a HTTP POST to the url specified below:

Webhook URL\*

s?token=iFBDOBHnaxL4T9ass93HRXun2JF161Z&TESTPLAN={{issue.key}}

Headers (optional)

Content-Type application/json

Authorization Basic YWRtaW46YWRtaW4=

Add

HTTP method

POST

Webhook body

Empty

Save Cancel

- the Webhook URL provided above follows this syntax:
  - <jenkins\_base\_url>/job/<name\_of\_jenkins\_project\_job>/buildWithParameters?token=<token>&TESTPLAN={{issue.key}}
- besides the "Content-Type" header that should be "application/json", define also an "Authorization" header having the value "Basic <auth>", where the base64 encoded <auth> can be [generated](#) using your Jenkins API credentials

After publishing the rule, you can go to the screen of an issue and trigger the Jenkins project/job.

Calculator / CALC-3214

all my sum related tests for v3.0

Edit

Comment

More

Stop Progress

Resolve Issue

Close Issue

Admin

Details

Type: Test Plan

Priority: Major

Affects Version/s: None

Component/s: None

Labels: None

Sprint: Sprint 1

Test Count: 7

Description

Risks/sensible areas to cover:

- addition operation in basic mode
- addition operation in scientific mode

Tests

Test Plan Board

Overall Execution Status

7 PASS

TOTAL TESTS: 7

Filter(s)

Trigger Bamboo Build w...

Trigger Jenkins Build

Trigger Jenkins build ...

Synchronize Tests from...

Assign

Log work

Agile Board

Rank to Top

Rank to Bottom

Attach files

Voters

Stop watching

Watchers

Create sub-task

Convert to sub-task

Move

Link

Clone

Labels

Delete

Trigger Jenkins job

Trigger Jenkins job an...

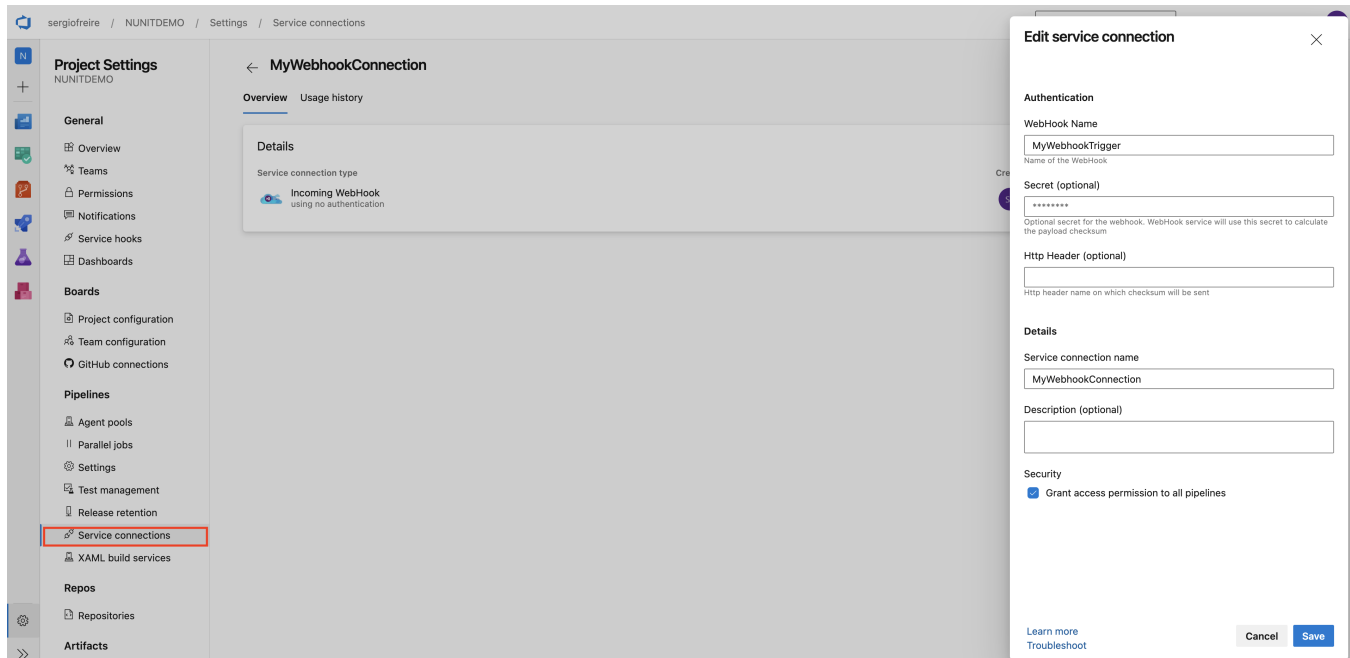
Trigger Jenkins job and link to Test Plan

# Azure DevOps

## Trigger a Azure DevOps pipeline from a Test Plan and report the results back to it

### Azure DevOps configuration

We need to create a service connection, using the "incoming webhook" template, so that we can use Azure DevOps API later on.



Create a [Personal Access Token \(PAT\)](#), so you can use it as the password in API requests, along with the "organization name" as username.

Azure DevOps

Search

User settings  
Sérgio Freire

Account

- Profile
- Time and Locale
- Permissions

Preferences

- Notifications
- Theme
- Usage

Security

- Personal access tokens**
- SSH public keys
- Alternate credentials
- Authorizations

Personal Access Tokens

These can be used instead of a password for applications like Git or can be passed in the authorization header to access REST APIs

+ New Token Revoke Edit Regenerate

| Token name ↓                                                                             | Status | Organization | Expires on |
|------------------------------------------------------------------------------------------|--------|--------------|------------|
| mytoken1<br>Full access                                                                  | Active | sergiofreire | 16/05/20   |
| mytoken2<br>Build (Read & execute); Code (Full); Code (Read & write); Packaging (Read, w | Active | sergiofreire | 05/05/20   |

Preview features

- Profile
- Time and Locale
- Permissions
- Notifications
- Theme
- Usage
- Personal access tokens
- SSH public keys
- Alternate credentials

Create a new personal access token

Name

mytoken

Organization

sergiofreire

Expiration (UTC)

30 days 24/06/2021

Scopes

Authorize the scope of access associated with this token

Scopes ☐ Full access ☒ Custom defined

Work items, queries, backlogs, plans, and metadata

☐ Read ☐ Read & write ☐ Read, write, & manage

Code

Source code, repositories, pull requests, and notifications

☐ Read ☐ Read & write ☐ Read, write, & manage ☐ Full ☐ Status

Build

Artifacts, definitions, requests, queue a build, and updated build properties

☐ Read ☒ Read & execute

Release

Read, update, and delete releases, release pipelines, and stages

☐ Read ☐ Read, write, & execute ☐ Read, write, execute, & manage

Test Management

Read, create, and updated test plans, cases, and results

☐ Read ☐ Read & write

Show all scopes (28 more)

Create Cancel

Then, in your Azure DevOps repository containing the project's code and tests, create a pipeline `/azure-pipelines.yml`; this pipeline will be triggered using Azure DevOps API.

In the following example, the pipeline will receive the Test Plan issue key as an input parameter. It will then run the build, including the automated tests, and in the end it will report the results back to Xray using "curl" utility.

We need to define a resources section, that contains a reference to the webhook configured earlier.

## /azure-pipelines.yml

```
parameters:
- name: "testplan"
  type: string
  default: ""

trigger:
- main

resources:
  webhooks:
    - webhook: "MyWebhookTrigger"          ### Webhook alias
      connection: "MyWebhookConnection"    ### Incoming webhook service connection

pool:
  vmImage: ubuntu-latest

steps:
- bash: |
  echo ${ parameters.testplan }
  displayName: '(debug) print testplan parameter'

- script: dotnet restore
  displayName: 'install build dependencies'

- script: |
  dotnet test -s nunit.runsettings
  displayName: 'Run tests'
- bash: |
  set -x
  curl -o - -H "Content-Type: multipart/form-data" -u '${jira_user}:${jira_password}' -F "file=@./bin/Debug/net5.0/TestResults/nunit_webdriver_tests.xml" "${jira_server_url}/rest/raven/2.0/import/execution/nunit?projectKey=${project_key}&testPlanKey=${TESTPLAN}"
  displayName: 'Import results to Xray server'
```

Xray endpoint's base URL and the API key credentials (i.e. client id + client secret) are defined in Azure DevOps as variables. These may be marked as secret.

The screenshot displays the Azure DevOps web interface. On the left, a sidebar shows the project structure with 'NUNITDEMO' selected. The main area shows the 'NUNITDEMO' pipeline configuration for the 'main' branch, displaying the 'azure-pipelines.yml' file content. The file content is identical to the one shown in the first block. On the right, a 'Tasks' panel lists various build tasks such as '.NET Core', 'Android signing', 'Ant', 'App Center distribute', 'App Center test', 'Archive files', and 'ARM template deployment'. The 'Variables' button is highlighted in the top right of the main area.

Variables

Search variables

+

fx

jira\_password

= !q"w#€

fx

jira\_server\_url

= https://sandbox.xpand-it.com

fx

jira\_user

= sfreire

fx

project\_key

= CALC

## Automation for Jira configuration

1. create a new rule and define the "When" (i.e. when it to should be triggered ), to be "Manually triggered"

### Automation

ENABLED

Re

trigger Azure DevOps pipeline for this Test Plan

- Rule details
- Audit log

**When: Manually triggered**  
All logged in users can run rule.



### Manual trigger

Rule is run when it is manually triggered by the user from an issue.

Groups that can run trigger

All logged in users

Cancel

Save

2. define the condition so that this rule can only be executed from Test Plan issue

## Automation

ENABLED

### trigger Azure DevOps pipeline for this Test Plan

Rule details

Audit log

When: Manually triggered  
All logged in users can run rule.

If: Issue Type equals  
Test Plan

### Issue fields condition

Check whether an issue's field meets a certain criteria

Field \*

Issue Type

Condition \*

equals

Value Field

Test Plan

3. define an action (i.e. the "Then") as "Send web request" and configure it as follows

## Automation

ENABLED

### trigger Azure DevOps pipeline for this Test Plan

Rule details

Audit log

When: Manually triggered  
All logged in users can run rule.

If: Issue Type equals  
Test Plan

Then: Send web request  
POST  
[https://dev.azure.com/sergiofreire/NUNITDEMO/\\_apis/build/builds?ignoreWarnings=true&api-version=6.0](https://dev.azure.com/sergiofreire/NUNITDEMO/_apis/build/builds?ignoreWarnings=true&api-version=6.0)

Add component

### Send web request

This action will send a HTTP request to the url specified below:

Webhook URL \*

[https://dev.azure.com/sergiofreire/NUNITDEMO/\\_apis/build/builds?ignoreWarnings=true&api-version=6.0](https://dev.azure.com/sergiofreire/NUNITDEMO/_apis/build/builds?ignoreWarnings=true&api-version=6.0)

Request parameters must be url encoded, smart values should use: {{value.urlEncode}}.

Headers (optional)

Content-Type application/json

Authorization Basic c2VyZ2lvLmZyZWlyZUB4c

Add

HTTP method

POST

Webhook body

Custom data

Wait for response

☐ Delay execution of subsequent rule actions until we've received a response for this webhook

Custom data \*

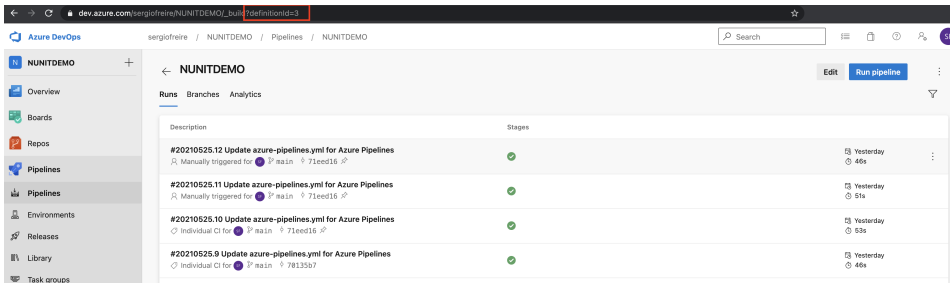
```
{
  "parameters": "{ \"testplan\": \"{{issue.key}}\" }",
  "definition": {
    "id": 3
  }
}
```

- the web request URL provided above is from [Azure DevOps API](#), for [queueing builds](#), and follows this syntax:
  - [https://dev.azure.com/<organization\\_name>/<project>/\\_apis/build/builds?ignoreWarnings=true&api-version=6.0](https://dev.azure.com/<organization_name>/<project>/_apis/build/builds?ignoreWarnings=true&api-version=6.0)
- authentication is done using the organization name plus the personal access token, created earlier in Azure DevOps, as the login:password pair used to calculate the Base64 content of the Authorization header
- the "Content-Type" header should be "application/json"
- the HTTP POST body content, defined in the "Custom data" field, will be used to identify the [build definition](#) and also the original Test Plan issue key;

### custom data (i.e. HTTP body content)

```
{
  "parameters": "{ \"testplan\": \"{{issue.key}}\" }",
  "definition": {
    "id": 3
  }
}
```

Note: to find the *definition id*, you can click on the pipeline in Azure DevOps and its id is shown as part of the URL



After publishing the rule, you can go to the screen of an issue and trigger a pipeline run in Azure DevOps.



CALC / CALC-15

## Test Plan for current sprint

Edit

Comment

Assign

More

To Do

In Progress

Done

Admin

Details

Type: Test Plan

Priority: Trivial

Labels: None

Description

Click to add description

Tests

Test Plan Board

This test plan is not associated with a test plan board.

Test Executions

This test plan is not associated with a test plan board.

Attachments

Structure

Log work

Agile Board

Rank to Top

Rank to Bottom

Archive

Attach files

Attach Screenshot

Voters

Stop watching

Watchers

Create sub-task

Convert to sub-task

Move

Link

Clone

Labels

Delete

trigger Azure DevOps p...

Status: TO DO (View Workflow)

Resolution: Unresolved

+ Add

Add Test Executions

...

to attach, or browse.

...

Azure DevOps

sergiofreire / NUNITDEMO / Pipelines / NUNITDEMO / 20210525.12

Search

N NUNITDEMO

Overview

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Jobs in run #20210525...

NUNITDEMO

Jobs

Job41s

Initialize job1s

Checkout NUNITDEM...3s

(debug) print testplan ...1s

install build depende...17s

Run tests<1s

(debug) list files in w...<1s

Import results to Xra...<1s

Import results to Xray ...4s

Post-job: Checkout ...<1s

Finalize Job<1s

Report build status<1s

Run tests

View raw log

1 Starting: Run tests

2 =====

3 Task : Command Line

4 Description : Run a command line script using Bash on Linux and macOS and cmd.exe on Windows

5 Version : 2.182.0

6 Author : Microsoft Corporation

7 Help : https://docs.microsoft.com/azure/devops/pipelines/tasks/utility/command-line

8 =====

9 Generating script..

10 Script contents:

11 dotnet test -s nunit.runsettings

12 ===== Starting Command Output =====

13 /usr/bin/bash --noprofile --nrc /home/vsts/work/\_temp/68e5fbfe-b993-4b55-8ca5-dfb268e401eb.sh

14 Determining projects to restore...

15 All projects are up-to-date for restore.

16 /home/vsts/work/1/s/Google/PageObjects/HomePage.cs(18,29): warning CS0169: The field 'HomePage.elem\_submit\_button' is never used [/home/vsts/work/1/s/nunit\_

17 /home/vsts/work/1/s/Webdemo/PageObjects/LoginPage.cs(22,29): warning CS0649: Field 'LoginPage.submitButtonElement' is never assigned to, and will always hav

18 /home/vsts/work/1/s/Google/PageObjects/HomePage.cs(13,29): warning CS0649: Field 'HomePage.elem\_search\_text' is never assigned to, and will always have its

19 /home/vsts/work/1/s/Webdemo/PageObjects/LoginPage.cs(18,29): warning CS0649: Field 'LoginPage.passwordElement' is never assigned to, and will always have it

20 /home/vsts/work/1/s/Webdemo/PageObjects/LoginPage.cs(14,29): warning CS0649: Field 'LoginPage.usernameElement' is never assigned to, and will always have it

21 nunit\_webdriver\_tests -> /home/vsts/work/1/s/bin/Debug/net5.0/nunit\_webdriver\_tests.dll

22 Test run for /home/vsts/work/1/s/bin/Debug/net5.0/nunit\_webdriver\_tests.dll (.NETCoreApp,Version=v5.0)

23 Microsoft (R) Test Execution Command Line Tool Version 16.9.4

24 Copyright (c) Microsoft Corporation. All rights reserved.

25

26 Starting test execution, please wait...

27 A total of 1 test files matched the specified pattern.

In this case, since the pipeline was configured to report results back to Xray, a new Test Execution would be created and linked back to the source Test Plan where the automation was triggered from.

CALC / CALC-18

Execution results - nunit\_webdriver\_tests.xml - [1622026982605]

EditCommentAssignMoreTo DoIn ProgressDoneAdmin

Details

Type:Test Execution

Priority:Trivial

Labels:None

Test Plan:CALC-15

Test Environments:None

Status:TO DO (View Workflow)

Resolution:Unresolved

Description

Execution results imported from external source

Tests

+ Add

Overall Execution Status

4 PASS

Total Tests: 4

Filter(s)

Show 100 entriesColumns

| Rank | Key     | Summary              | Test Type | #Req | #Def | Assignee      | Status |  |
|------|---------|----------------------|-----------|------|------|---------------|--------|--|
| 1    | CALC-13 | BasicTextSearchNoPOM | Generic   | 0    | 0    | Sergio Freire | PASS   |  |
| 2    | CALC-11 | BasicTextSearch      | Generic   | 0    | 0    | Sergio Freire | PASS   |  |
| 3    | CALC-12 | InvalidLogin         | Generic   | 1    | 0    | Sergio Freire | PASS   |  |
| 4    | CALC-10 | ValidLogin           | Generic   | 1    | 0    | Sergio Freire | PASS   |  |

Showing 1 to 4 of 4 entriesFirstPrevious1NextLast

CALC / CALC-15

Test Plan for current sprint

Edit

Comment

Assign

More

To Do

In Progress

Done

Admin

Details

Type: Test Plan

Priority: Trivial

Labels: None

Status: TO DO (View Workflow)

Resolution: Unresolved

Description

Click to add description

Tests

Test Plan Board

Create Test Execution

Add

Overall Execution Status

4 PASS

Total Tests: 4

Filter(s)

Show 10 entries

All Environments

Columns

| Key                              | Summary              | Requirements | #Test Executions | Issue Assignee | Latest Status |     |
|----------------------------------|----------------------|--------------|------------------|----------------|---------------|-----|
| <input type="checkbox"/> CALC-13 | BasicTextSearchNoPOM |              | 1                | Xpand IT Admin | PASS          | ... |
| <input type="checkbox"/> CALC-11 | BasicTextSearch      |              | 1                | Xpand IT Admin | PASS          | ... |
| <input type="checkbox"/> CALC-12 | InvalidLogin         | CALC-2       | 1                | Xpand IT Admin | PASS          | ... |
| <input type="checkbox"/> CALC-10 | ValidLogin           | CALC-2       | 1                | Xpand IT Admin | PASS          | ... |

Showing 1 to 4 of 4 entries

First Previous 1 Next Last

Test Executions

Add Test Executions

Show 10 entries

Columns

| Key                              | Summary                                                         | #Tests | Issue Assignee | Status |     |
|----------------------------------|-----------------------------------------------------------------|--------|----------------|--------|-----|
| <input type="checkbox"/> CALC-18 | Execution results - junit_webdriver_tests.xml - [1622026982605] | 4      | Sergio Freire  |        | ... |

Showing 1 to 1 of 1 entries

First Previous 1 Next Last

# Travis CI

## Trigger a TravisCI project build from a Test Plan and report the results back to it

In this simple scenario, we'll implement a rule, triggered manually, that will trigger a TravisCI project/job. The action will be available from the "Automation" panel, for all Test Plan issues of the selected project.

We're assuming that:

- you just want to trigger a CI job, period; this job may be totally unrelated to the issue from where you triggered it
- the results will be submitted back to Xray, if the project is configured to do so in TravisCI

## TravisCI configuration

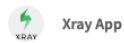
In TravisCI, we need to generate an API authentication token for some user, which can be done from the My Account settings page.

#### MY ACCOUNT



Sync account

#### ORGANIZATIONS



#### MISSING AN ORGANIZATION?

Review and add your authorized organizations.


Cristiano Morais da Cunha
  
@CMCunha

[Repositories](#)
[Settings](#)
[Plan](#)
[Migrate](#)
[Plan usage](#)

#### API authentication

To learn more about using our API, please head to [developer.travis-ci.com](https://developer.travis-ci.com).

Token .....

COPY TOKEN

VIEW TOKEN

Once we have the authentication token we followed the [TravisCI API documentation](#) to configure the following steps on the Jira side.

For the Travis CI the important change we must do is in the YAML file that will configure Travis CI pipeline, we use the following configuration to achieve that:

**.travis.yml**

```

sudo: false
language: java
jdk:
  - openjdk8
cache:
  directories:
    - "$HOME/.cache"

jobs:
  include:
    - stage: test and report to Xray
      script:
        - |
          echo "building repo..."
          mvn clean compile test --file pom.xml
          export token=$(curl -H "Content-Type: application/json" -X POST --data '{"client_id":
"$CLIENT_ID","client_secret": "$CLIENT_SECRET"}' https://xray.cloud.xpand-it.com/api/v2/authenticate| tr -
d ' ')
          echo $token
          curl -H "Content-Type: text/xml" -H "Authorization: Bearer $token" --data @target/surefire-reports
/TEST-com.xpand.java.CalcTest.xml "https://xray.cloud.xpand-it.com/api/v2/import/execution/junit?
projectKey=$PROJECTKEY&testPlanKey=$TESTPLAN"
          echo "done"

```

For more details about this configuration please check the [TravisCI tutorial documentation](#).

As you can see we are pushing results back to Xray with the last curl command:

**curl command**

```

curl -H "Content-Type: text/xml" -H "Authorization: Bearer $token" --data @target/surefire-reports/TEST-com.
xpand.java.CalcTest.xml "https://xray.cloud.xpand-it.com/api/v2/import/execution/junit?
projectKey=$PROJECTKEY&testPlanKey=$TESTPLAN"

```

On this command we are passing the project key in order to report back to a specific Project on the Xray side. Further ahead we will show how it is populated.

- **PROJECTKEY** - The key that identifies the project on the Jira side.
- **TESTPLAN** - The Test Plan key used to identify the Test Plan to associate the execution with.

Once we have the authentication token, we follow the [TravisCI API documentation](#) to configure the following steps on the Jira side.

## Automation configuration

On the Jira side we will use the Automation capabilities that it provides out of the box, so within the administration area go to the automation entry in the system settings and:

1. create a new rule and define the "When" (i.e. when it to should be triggered), to be "Manually triggered"

## Automation

ENABLED

### Trigger Travis CI

① Rule details

② Audit log

 **When: Manually triggered**  
All logged in users can run rule.

### Manual trigger

Rule is run when it is manually triggered by the user from an issue.

Groups that can run trigger

All logged in users

Cancel

Save

2. Define a condition, in our case we will define that only Test Plan issue types will be allowed to trigger this pipeline, this is achieved with the following condition:

## Automation

ENABLED

### Trigger Travis CI

① Rule details

② Audit log

 **When: Manually triggered**  
All logged in users can run rule.

 **If: Issue Type equals**  
Test Plan

### Issue fields condition

Check whether an issue's field meets a certain criteria

Field \*

Issue Type

Condition \*

equals

Value Field

Test Plan

Cancel

Save

3. define an action (i.e. the "Then") as "Send webhook" and configure it as follows

## Automation

DRAFT

### Trigger Travis CI

Rule details

Audit log

**When: Manually triggered**  
All logged in users can run rule.

**If: Issue Type equals**  
Test Plan

**Then: Send web request**  
POST https://api.travis-ci.com/repo/Xray-App%2Ftutorial-java-junit-travisci/requests

Add component

### Send web request

This action will send a HTTP request to the url specified below:

Webhook URL

Request parameters must be url encoded, smart values should use: {{value.urlEncode}}

Headers (optional)

|                    |                  |  |
|--------------------|------------------|--|
| Content-Type       | application/json |  |
| Accept             | application/json |  |
| Authorization      | token            |  |
| Travis-API-Version | 3                |  |

Add

HTTP method

POST

Webhook body

Custom data

Wait for response

☐ Delay execution of subsequent rule actions until we've received a response for this webhook

Custom data

```
{
  "request": {
    "branch": "main",
    "config": {
      "env": {
        "TESTPLAN": "{{issue.key}}",
        "PROJECTKEY": "{{project.key}}"
      }
    }
  }
}
```

Cancel Save

> Validate your webhook configuration

- the Webhook URL provided above follows this syntax:
  - <TravisCI\_API\_URL>/repo/{slug}/requests (The %2F in the request URL is required so that the owner and repository name in the repository slug are interpreted as a single URL segment.)
- besides the "Content-Type" header that should be "application/json", define also an "Authorization" header having the value "token <token>", where you will place the authentication token obtained previously in the TravisCI page and the "Travis-API-Version" header is also mandatory and it will contain the version used.
- Custom data
  - We included the simplest possible just to trigger the pipeline from the master branch.
  - Added environment configuration variables to be used later in the TravisCI pipeline
    - TESTPLAN - that will be automatically filled with the test plan key from where the pipeline is triggered.
    - PROJECTKEY - that will be automatically filled in with the project key.

After publishing the rule, you can go to the screen of an issue and trigger the Jenkins project/job.



ComicStore / COM-9

## (DEMO) Shopping cart Management test plan

Edit

Comment

Assign

More

To Do

In Progress

Done

Admin

Details

Type: **Test Plan**

Priority: **Trivial**

Component/s: **None**

Labels: **None**

Description

Click to add description

Tests

Test Plan Board

Overall Execution Status

4 PASS

Total Tests: 4

Filter(s)

Log work

Agile Board

Rank to Top

Rank to Bottom

Attach files

Voters

Stop watching

Watchers

Create sub-task

Convert to sub-task

Move

Link

Clone

Labels

Delete

Trigger Travis CI

Status: **TO DO** (View Workflow)

Resolution: **Unresolved**

+ Create Test Execution

+ Add

Show 10 entries

All Environments

Columns

In this case, since Jenkins was configured to report results back to Xray, a new Test Execution would be created in Jira/Xray.

ComicStore / COM-16

## Execution results [1622475015055]

Edit

Comment

Assign

More

To Do

In Progress

Done

Admin

Details

Type: **Test Execution**

Priority: **Trivial**

Component/s: **None**

Labels: **None**

Test Plan: **COM-9**

Test Environments: **None**

Description

Execution results imported from external source

Tests

+ Add

Overall Execution Status

4 PASS

Total Tests: 4

Filter(s)

Apply Rank

Show 100 entries

Columns

|                          | Rank | Key       | Summary       | Test Type | #Req | #Def | Assignee       | Status |  |     |
|--------------------------|------|-----------|---------------|-----------|------|------|----------------|--------|--|-----|
| <input type="checkbox"/> | 3    | CALC-1205 | CanSubtract   | Generic   | 0    | 0    | Helder Biscaia | PASS   |  | ... |
| <input type="checkbox"/> | 4    | CALC-1204 | CanMultiply   | Generic   | 0    | 0    | Helder Biscaia | PASS   |  | ... |
| <input type="checkbox"/> | 1    | CALC-1203 | CanDoStuff    | Generic   | 0    | 0    | Helder Biscaia | PASS   |  | ... |
| <input type="checkbox"/> | 2    | CALC-1202 | CanAddNumbers | Generic   | 0    | 0    | Helder Biscaia | PASS   |  | ... |

Showing 1 to 4 of 4 entries

First

Previous

1

Next

Last

Associated with the Test Plan that we have passed along:

ComicStore / COM-16

Execution results [1622475015055]

EditCommentAssignMoreTo DoIn ProgressDoneAdmin

Details

Type:Test ExecutionStatus:TO DO (View Workflow)  
Priority:TrivialResolution:Unresolved  
Component/s:None  
Labels:None  
Test Plan:COM-9  
Test Environments:None

Description

Execution results imported from external source

Tests

+ Add

Overall Execution Status

4 PASS

Total Tests: 4

Filter(s)

Apply Rank

Show 100 entriesColumns

|                          | Rank | Key       | Summary       | Test Type | #Req | #Def | Assignee       | Status |                          |     |
|--------------------------|------|-----------|---------------|-----------|------|------|----------------|--------|--------------------------|-----|
| <input type="checkbox"/> | 3    | CALC-1205 | CanSubtract   | Generic   | 0    | 0    | Helder Biscaia | PASS   | <input type="checkbox"/> | ... |
| <input type="checkbox"/> | 4    | CALC-1204 | CanMultiply   | Generic   | 0    | 0    | Helder Biscaia | PASS   | <input type="checkbox"/> | ... |
| <input type="checkbox"/> | 1    | CALC-1203 | CanDoStuff    | Generic   | 0    | 0    | Helder Biscaia | PASS   | <input type="checkbox"/> | ... |
| <input type="checkbox"/> | 2    | CALC-1202 | CanAddNumbers | Generic   | 0    | 0    | Helder Biscaia | PASS   | <input type="checkbox"/> | ... |

Showing 1 to 4 of 4 entries

FirstPrevious1NextLast

# References

- Automation for Jira in the Atlassian Marketplace
- Automation for Jira documentation