Integration with GitHub

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GitHub is a well-known platform hosting thousands of source-code repositories.

It also provides issue tracking and basic project management capabilities.

More recently, GitHub provided the ability to automate workflows using GitHub Actions.

With GitHub Actions, it's possible to implement CI/CD directly in GitHub and reuse already available actions from GitHub Marketplace to automate steps.

An introduction to GitHub actions can be seen here.

- Main concepts
- Accessing and sharing data
- Examples

 Basic JUnit example
- Tips
- References

Main concepts

In a nutshell, **workflows** are automated processes described as YAML files, stored under .github/workflows. These are usually triggered by events (e.g. code-commit, pull-request) or can also be scheduled.

One or more workflows can be defined. Each **workflow** is in turn composed by one or more **jobs**, that can run sequentially or in parallel. A **job** performs a set of sequential **steps** to achieve a certain goal. A **step** is an individual automation task; it can be either an **action** or simply a shell command.

An **action** abstracts some automation task; it can be named and versioned. Actions can be implemented directly in Javascript or as Docker containers. GitHub also supports composite actions built of multiple inner steps.

Actions and workflows can be stored in the local repository; actions can also be published in the GitHub Marketplace.

Each time a workflow is triggered, a **workflow run** is created; it contains a specific context. Each job in the workflow uses a fresh virtual environment (e.g. ubuntu-latest) sharing the same virtual file system.

Accessing and sharing data

A job can generate output variables that can be used by another job that depends on it; this is the preferred way to share data between jobs.

Another way of sharing data, especially between jobs, would be to produce and store artifact(s) in a job and obtain them in another job.

Environment variables can also be used to access some data and share them with care. Environment variables are available at workflow, job or step level. GitHub fills out some environment variables by default.

It's also possible to access secrets defined in GitHub project settings, as environment variables or as a step input.

Examples

Basic JUnit example

In this basic example showcasing a dummy calculator, we want to get visibility of the automated test results from some tests implemented in Java, using the JUnit framework.



The source code for this example is available in this GitHub repository.

CalcTest.java

```
package com.xpand.java;
import org.junit.After;
import org.junit.Before;
import org.junit.Test;
import static org.hamcrest.CoreMatchers.is;
import static org.junit.Assert.assertThat;
public class CalcTest {
   @Before
   public void setUp() throws Exception {
    }
   @After
   public void tearDown() throws Exception {
    }
       @Test
   public void CanAddNumbers()
    {
       assertThat(Calculator.Add(1, 1), is(2));
       assertThat(Calculator.Add(-1, 1), is(0));
    }
   @Test
   public void CanSubtract()
    {
       assertThat(Calculator.Subtract(1, 1), is(0));
       assertThat(Calculator.Subtract(-1, -1), is(0));
       assertThat(Calculator.Subtract(100, 5), is(95));
    }
   @Test
   public void CanMultiply()
    {
       assertThat(Calculator.Multiply(1, 1), is(1));
       assertThat(Calculator.Multiply(-1, -1), is(1));
       assertThat(Calculator.Multiply(100, 5), is(500));
    }
   public void CanDivide()
    {
       assertThat(Calculator.Divide(1, 1), is(1));
       assertThat(Calculator.Divide(-1, -1), is(1));
       assertThat(Calculator.Divide(100, 5), is(20));
    }
   @Test
   public void CanDoStuff()
    {
       assertThat(true, is(true));
    }
}
```

To implement the continuous integration, we'll implement a specific *workflow* for it and store it .github/workflows/CI-jira-onpremises-example. yaml.

We'll use the <u>actions/checkout</u> action to checkout the code from our repository to the virtual environment. This action is one of the "standard" actions provided by GitHub (check full list <u>here</u>).

To compile the code, we need to use a JDK; we can use the action actions/setup-java which allows us to choose the specific Java version.

We use Maven to build and run the tests.

```
.github/workflows/CI-jira-onpremises-example.yaml
   name: CI (Jira on-premises example)
on: [push]
iobs:
 build:
   runs-on: ubuntu-latest
   steps:
   - uses: actions/checkout@v1
   - name: Set up Java
     uses: actions/setup-java@v1
     with:
       java-version: '1.8'
   - name: Cache Maven packages
     uses: actions/cache@v2
     with:
       path: ~/.m2
       key: ${{ runner.os }}-m2-${{ hashFiles('**/pom.xml') }}
       restore-keys: ${{ runner.os }}-m2
   - name: Build with Maven
     run: mvn clean compile test --file pom.xml
   - name: Submit results to Xray
     env:
       JIRA_SERVER_URL: ${{ secrets.jira_server_url }}
       JIRA_USERNAME: ${{ secrets.jira_username }}
       JIRA_PASSWORD: ${{ secrets.jira_password }}
     run: 'curl -H "Content-Type: multipart/form-data" -u $JIRA_USERNAME:$JIRA_PASSWORD -F "file=@target
/surefire-reports/TEST-com.xpand.java.CalcTest.xml" "$JIRA_SERVER_URL/rest/raven/1.0/import/execution/junit?
projectKey=CALC"'
```

In order to submit those results to Xray, we'll just need to invoke the REST API (as detailed in Import Execution Results - REST).

However, we do not want to have the Jira credentials hardcoded in the configuration file. Therefore, we'll use some secret variables defined in GitHub project settings.

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|---------------------------------------|---------------------|---|---|--|--|--|
| | Manage access | Secrets are environment variables that are encrypted. Anyone with collaborat | tor access to this repository can use these secrets for Actic | | | |
| | Security & analysis | Secrets are not passed to workflows that are triggered by a pull request from a fork. Learn more. | | | | |
| | Branches | There are no secrets for t | his repository | | | |
| | Webhooks | Encrypted secrets allow you to store sensitive information | , such as access tokens, in your repository. | | | |
| | Notifications | | | | | |
| | Integrations | | | | | |
| | Deploy keys | | | | | |
| r- | Actions | 7 | | | | |
| L | Secrets |] | | | | |
| | Moderation settings | | | | | |
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| Manage access | Name |
|---------------------|---------------|
| Security & analysis | jira_username |
| Branches | Value |
| Webhooks | admin |
| Notifications | |
| Integrations | |
| Deploy keys | |
| Actions | |
| Secrets | Add secret |
| Moderation settings | |

Some parameters may be hardcoded on the HTTP request used to submit the result; this is up to you to define what makes sense to be explicit on the request or what could be set, for example, using a secret variable in GitHub.

Please note

The Jira username must exist in the Jira instance and have permission to create Test and Test Execution Issues.

To see the runs for your workflows (i.e. workflow runs), you may access the Actions tab in your repository browser.

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|--|--|---|---------------------------|-----------------------|------------------|--|--|
| Code ③ Issues ③ Pull requests ④ Actions Projects | s 🖽 Wiki 🕃 Security 🗠 Insights 🛞 Settings | | | | | | |
| Workflows New workflow | | | | | | | |
| All workflows | Q Filter workflows | | | | | | |
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| | ✓ Merge branch 'main' of https://github.com/bitcoder/t CI (Jira on-premises example) #1: Commit d1cc2ae pushed by bitcoder | main | | | | | |
| | ✓ Update README.md CI ₩6: Commit d734f61 pushed by bitcoder | main | ☐ 21 minutes ago ♂ 38s | | | | |
| | ✓ add Maven caching CI ₩5: Commit cfa283e pushed by bitcoder | main | ☐ 41 minutes ago ♂ 42s | | | | |
| | fix syntax and escape curl command CI #4: Commit eb0fac6 pushed by bitcoder | main | ☐ 1 hour ago ♂ 1m 31s | | | | |
| × submit results to Xray CI #3: Commit 994-492 pushed by bitcoder | | main | ☐ 1 hour ago ♂ 1s | | | | |
| | fix typo CI #2: Commit dd98f5f pushed by bitcoder | main | ☐ 1 hour ago ♂ 1m 42s | | | | |
| | × add Cl workflow Cl #1: Commit 17825e1 pushed by bitcoder | main | ☐ 1 hour ago ♂ Failure | | | | |
| 🖟 bitcoder / tutorial-java-junit-calc | | | | | ⊙ Unwatch ▼ 1 | | |
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Clicking in the last event that triggered the workflow run will show the details.



In Jira, Xray now shows the results of the automated tests in a brand new Test Execution issue. Test issues corresponding to each test method will be auto-provisioned, if they don't exist yet; otherwise, results will be reported against existing Tests.

| Details Type: Test Execution Status: OPEN (View Workflow) Priority: Trivial Resolution: Unresolved Abels: None Test Environments: None Poscription Execution results imported from external source Preseription Execution Status Contract Status: Contract Status: Contract Status: Contract Status: | Apply Rank Test Execution Status: OPEN (View Workflow) Invesolved Resolution: Unresolved abels: None est Plan: None Perception reserved from external source rest <pre></pre> | etails // pe: | etails ype: ■ Test Execution yiority: ● Trivial abels: None est Environments: None escription eccution results imported from external source ests everall Execution Status | | Q Commer | nt Assign | More 🛩 | Start Progress | Resolve Issue | Close Issue | Admin 🗸 | |
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Tips

- for editing workflow YAML files, you can do it directly from GitHub UI as it provides syntax highlighting, auto-completion, and more
 in the workflow definition, configure it to cache Maven dependencies (more info here)
- it's possible to re-run jobs from GitHub UI

| bitcoder / tutorial-java-junit-cal | c | ⊙ Unwatch + 1 ☆ Star 0 ♥ Fork 0 |
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| | > 🥝 Run actions/checkout@v1 | 15 |
| | > 🥥 Setup Java | 65 |

• instead of using curl command to interact with Xray REST API, you can abstract it in a GitHub Action and use input parameters to be passed to the REST call

References

- Introduction to GitHub Actions
- Building and testing Java with Maven with GitHub Actions