LEARNING

jira

#jira

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About

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Chapter 1: Getting started with jira

Remarks

JIRA is interesting for developers in two ways. 1) it is used to track tasks for software development (especially for agile projects) or as bug tracker (see JIRA User's Guide). 2) JIRA provides a large support for extending functionality with plugins written in Java (see Create a HelloWorld Plugin Project)

Versions

Version	Release Date
7.3	2017-01-03
7.2	2016-08-23
7.1	2016-02-11
7.0	2015-10-06
6.4	2015-03-31
6.3	2014-07-15
6.2	2014-02-25
6.1	2013-09-24
6.0	2013-05-21

Examples

Installation Guide

There's an installation guide for running a JIRA Server under Windows or Linux / Mac (see Installing JIRA applications)

For local testing there's an SDK, which starts a JIRA test instance and can be used to develop JIRA Plugins (see Set up the Atlassian Plugin SDK and Build a Project)

Start a local JIRA instance

The easiest way to run a local JIRA instance, is to install the SDK and run

```
atlas-run-standalone
```

For further details see Starting a local JIRA test instance

Please note that this runs a local test instance and is not meant for production.

Read Getting started with jira online: https://riptutorial.com/jira/topic/5531/getting-started-with-jira

Chapter 2: Starting a local JIRA test instance

Introduction

For starting a JIRA test instance on a local machine, the Atlassian-SDK is the way to go. This is useful for testing JIRA itself, developing and debugging JIRA plugins. The SDK is available for Windows, Linux and Mac.

See the installation guide for the Atlassian SDK. For running the Atlassian SDK properly, the Oracle Java SE Development Kit 8 (JDK) has to be installed - OpendJDK does not work!

Parameters

Parameter (short)	Description
--version (-v)	Version of the application to run *(default: latest version)*.
--http-port (-p)	HTTP port for the servlet container. You may need to change this if you already have a process listed for the default port, such as when you want to bring up two instances of JIRA. *(default: 2990)*
--context-path	The application context path. You will need to include the leading forward slash. For example, if your application is running at http://localhost:2990/jira then you should enter /jira. To run your application in the root web application context (eg. http://localhost:2990), then you should enter ROOT. *(default: /jira)*
--server	Host name of the application server. *(default: localhost)*
--product	The application to launch. In this case use 'jira'. You may also start instances of other Atlassian products (e.g. Confluence)

Examples

Starting a local JIRA test instance

After installing the SDK, `atlas-run-standalone` starts a JIRA instance with the latest released version.

```
atlas-run-standalone --product jira
```

The instance is available `http://localhost:2990/jira`

The created instance is for testing only. It provides an other directory structure as production installations. It has a license for 10 users.

Customize the local JIRA instance

It is possible to customize the JIRA version, the port or the context path.

```
atlas-run-standalone --product jira --version 6.0 --http-port 1337 --context-path issues
```

The JIRA 6 instance is available under `http://localhost:1337/issues`

There are more parameters that can be set for running `atlas-run-standalone`. For full list of parameters, visit atlas-run-standalone documentation

Read Starting a local JIRA test instance online: https://riptutorial.com/jira/topic/9049/starting-a-local-jira-test-instance

Chapter 3: Using the Jira Client API

Examples

Get Issues From a JQL Query

```java
final AsynchronousJiraRestClientFactory factory = new AsynchronousJiraRestClientFactory();
restClient = factory.createWithBasicHttpAuthentication(URI.create(JIRA_SERVER), JIRA_LOGIN,
JIRA_PASSWORD);
getFilteredIssues("project = TestProject");

public Iterable<Issue> getFilteredIssues(String filterJql) throws Exception {
    final SearchRestClient searchClient = this.connection.getRestClient().getSearchClient();
    HashSet<String> fields = Sets.newHashSet("*all");

    int total = Integer.MAX_VALUE;
    final ArrayList<Issue> issuesList = new ArrayList<>();
    while(issuesList.size() < total){
        Promise<SearchResult> promiseResult = searchClient.searchJql(filterJql, 50,
issuesList.size(), fields);
        final SearchResult issues = promiseResult.get();
        issuesList.addAll((Collection<? extends Issue>) issues.getIssues());

        if (total == Integer.MAX_VALUE) {
            total = issues.getTotal();
        }
    }

    return issuesList;

}
```

Read Using the Jira Client API online: https://riptutorial.com/jira/topic/10871/using-the-jira-client-api

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Credits

S. No	Chapters	Contributors
1	Getting started with jira	Community, dvdsmpsn, Nic Brough, ppasler
2	Starting a local JIRA test instance	M. Mimpen, ppasler
3	Using the Jira Client API	Alexander Stolz