

REST API

Xray uses Jira issues for implementing Test, Pre-Condition, Test Set, Test Execution, and Test Plan entities. Therefore, these entities may be created or updated using [Jira's native REST API](#), taking into consideration Xray's custom fields.

The Xray REST API provides additional endpoints specifically made for dealing with test entities/fields and importing execution results from automated processes.

Authentication

The authentication is based on Jira's REST API authentication, so you can use [HTTP basic authentication](#) using some user credentials.

example of a API request with "curl" using basic authentication

```
curl -H "Accept: application/json" -u jira_username:jira_password https://jiraserver.example.com/rest/raven/1.0/api/test/CALC-1880/step
```

Jira 8.14 [introduced](#) the concept of Personal Access Tokens, which Xray takes advantage of. These tokens can be created in the user's profile section in Jira and have an expiration date; they can also be revoked at any moment (more information [here](#)).

To use them in Jira's and in Xray REST API calls, we need to use the HTTP header "Authorization" with the "Bearer <token>" value.

example of a API request with "curl" using Personal Access Tokens

```
curl -H "Accept: application/json" -H "Authorization: Bearer MDkzNjIyMTewNjQzOqb+ApTGm3af+z3eGdcyDm7xHv6R" https://jiraserver.example.com/rest/raven/1.0/api/test/CALC-1880/step
```

It is also possible to use OAuth (see more information [here](#)).

Version and URI

The Xray REST API has 2 versions: **v1.0** and **v2.0**. New versions of the API are created whenever there are breaking changes that can have a big impact on current integrations.

The URIs for resources have the following structure:

`https://<site-url>/rest/raven/<api-version>/api/<resource-name>`

For example, <http://yourserver/rest/raven/2.0/api/test/TEST-123/step>

Note that the latest version of the Xray REST API is [version 2.0](#). All endpoints from version 1.0 are available in version 2.0 unless they have been deprecated and removed intentionally.

You can also use "<latest>" as the API version. This will default to the latest version that is v2.0.

Check out the documentation for each version:

- [v1.0](#)
- [v2.0](#)



There's a GitHub repository with many [source code snippets](#), showcasing usage of the API with examples implemented in different languages (e.g., JavaScript, Java, Python).

Besides, there is another one with some [Postman collections](#) that can exemplify how to invoke these APIs, in this case using the Postman tool.

These repositories are maintained by Xray and the community; they may not be fully up-to-date but are for sure a great quick starter.

Feel free to check them out and if you have suggestions or find any problem, please raise an issue on the respective GitHub project!