Zephyr for JIRA Cloud / REST API / Generating a JWT Authentication Token for...

Generating a JWT Authentication Token for Zephyr for Jira Cloud API

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Last updated: Apr 22, 2021 by Edward Stolyar (Deactivated) • 3 min read

🎉 Zephyr for Jira is now **Zephyr Squad**! Read more about this.

⚠️ **Redirection Notice**

Redirection prevented.

This page did not redirect to https://support.smartbear.com/zephyr-for-jira-cloud/docs/api/jwt-token.html due to user request.

This page explains how to generate a JWT authentication token that is required to make requests to Zephyr for Jira Cloud REST API.

- Prerequisites
- Generate a JWT token
- How to use the JWT token and execute an API call in Postman

Prerequisites

1. Generate an **access** and **secret** key.

- Navigate to any project in Jira.
- Navigate to the Zephyr section and click on "API keys" option.
- Click on the Generate button and then copy both the **access** and **secret key**.

2. Get the **AccountID** for the user that is going to be authenticating.

- The easiest way to retrieve the **AccountID** is to click on the icon on the left-hand menu and then click the Profile link. Within the URL, you can find your **AccountID** after the last "/".
  - Example: https://********.atlassian.net/people/**5bb7ad0ccc53fd0760103780**
- Another way to get your **AccountID** is to utilize the following URL in your browser.
  - AccountID for yourself: `https://********.atlassian.net/people/rest/api/3/myself`
  - AccountID for all users: `https://********.atlassian.net//rest/api/3/users/search`

3. Get the **zephyrBaseURL** (end point) for your instance.

- Example: `https://prod-api.zephyr4jiracloud.com/connect/`

Once all the above information is generated and gathered, you can provide the details in the code and generate the JWT token using the steps in the next section.

Generate a JWT token

1. Navigate to your GitHub URL and clone the project to your local machine.

- Example: `https://github.com/zephyrdeveloper/zapi-cloud/tree/master/Samples/src/com/thed/zapi/cloud/sample`

2. Create a folder and the run the "git clone `https://github.com/zephyrdeveloper/zapi-cloud.git`" from the command prompt to download the project.

3. Afterwards, import the project into Eclipse (or anything similar).

4. Once the project is configured in Eclipse, download the far file from the link below and add it to your project.

- This jar file is used to generate the JWT authentication for the APIs.

**zfj-cloud-rest-cli... es .jar**
22 Apr 2020, 12:26 PM
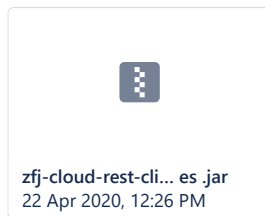
5. Right click on the Project(s), select Build Path, and then select Configure Build Path.

6. Select the Libraries tab, and then click on the Add External Jars button. Select and add the jar file that was just downloaded. Afterwards, click Apply and close.
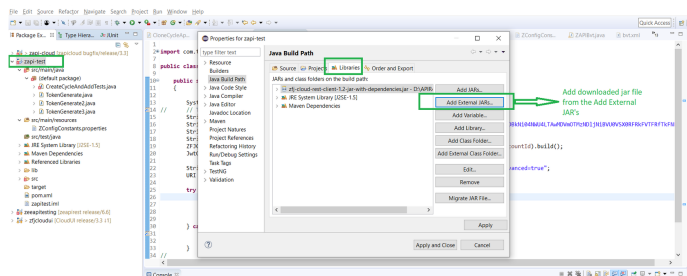
7. Navigate to the **sampleJwtGenerate.java** file to generate the JWT token.

- Example file path: `zapi-cloud/Samples/src/com/thed/zapi/cloud/sample/sampleJwtGenerator.java`
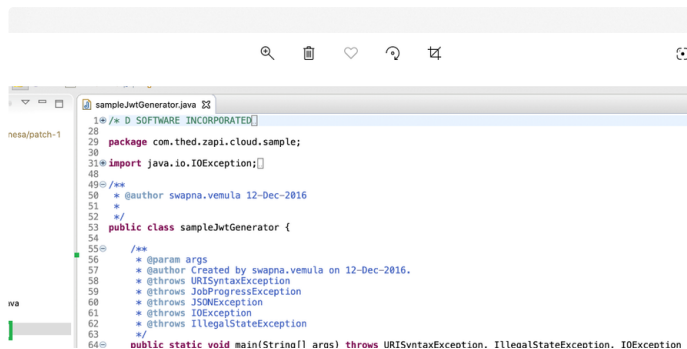
```
65          // Replace Zephyr BaseUrl with the <ZAPI_CLOUD_URL> shared with ZAPI Cloud Installation
66          String zephyrBaseUrl = "<ZAPI_CLOUD_URL>";
67          // zephyr accessKey , we can get from Addons >> zapi section
68          String accessKey = "YjE2MjdjMGEtNzExNy0zYjY1LWFkMzQtNjcwMDM3IGI0NjI3YzBhLTUxMTctMzM2NS1hZDM0IGFkbW
69          // zephyr secretKey , we can get from Addons >> zapi section
70          String secretKey = "qufnbimi96Ob2hq3ISF08yZ8nUvDRHmQwHGeGlk";
71          // Jira accountId
72          String accountId = "accountId";
73          ZFJCloudRestClient client = ZFJCloudRestClient.restBuilder(zephyrBaseUrl, accessKey, secretKey, ac
74          JwtGenerator jwtGenerator = client.getJwtGenerator();
75
76          // API to which the JWT token has to be generated
77          String createCycleUri = zephyrBaseUrl + "/public/rest/api/1.0/cycle?expand=&clonedCycleId=";
78
79          URI uri = new URI(createCycleUri);
80          int expirationInSec = 360;
81          String jwt = jwtGenerator.generateJWT("GET", uri, expirationInSec);
82
83          // Print the URL and JWT token to be used for making the REST call
84          System.out.println("FINAL API : " +uri.toString());
85          System.out.println("JWT Token : " +jwt);
86
87
88      }
89
90  }
91
```

8. Fill in the information for the **zephyrBase URL**, **accessKey**, **secretKey**, **accountID** within the code for the java file and then run it to generate your JWT token.
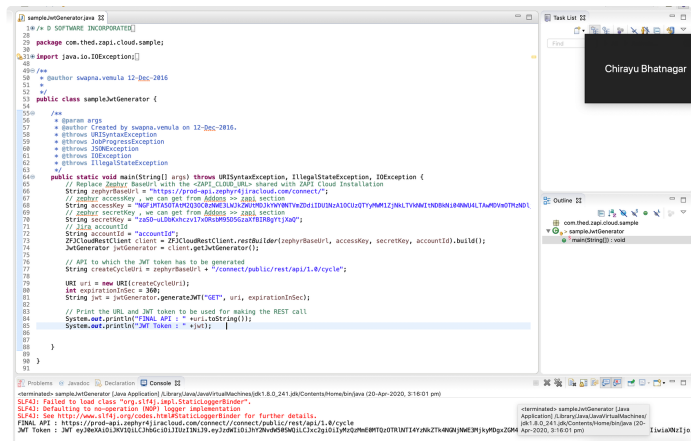
How to use the JWT token and execute an API call in Postman

Provide the details in the Postman call.

1. Setup the API Call by change the type of API method and by providing the API URL.

- Change the **API Method** to POST.
- Add in the **API URL** for the specific API Call.

2. Enable Authorization and then provide the JWT token that you generated from the previous section.

- **JWT Token**: Generated from Eclipse above.

3. Enable zapiAccessKey and then provide the access key that you generated from the previous section.

- **Access Key**: Retrieved from the pre-requisites above.

4. Enter the contents for the body of the Postman API call.

5. Afterwards, click on send to execute the API call.
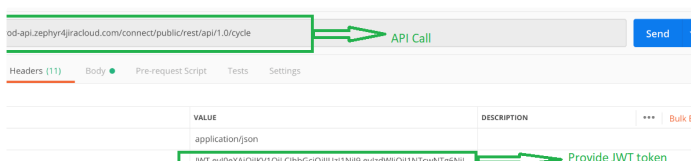
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