

Migrate to Zephyr Scale on Jira Data Center via APIs

In this document we will walk through the necessary process to migrate to Zephyr Scale. Below will also be attached an example script and a video walking through the process. The example script and video will use Zephyr Squad to Zephyr Scale on Jira Data Center as the example.

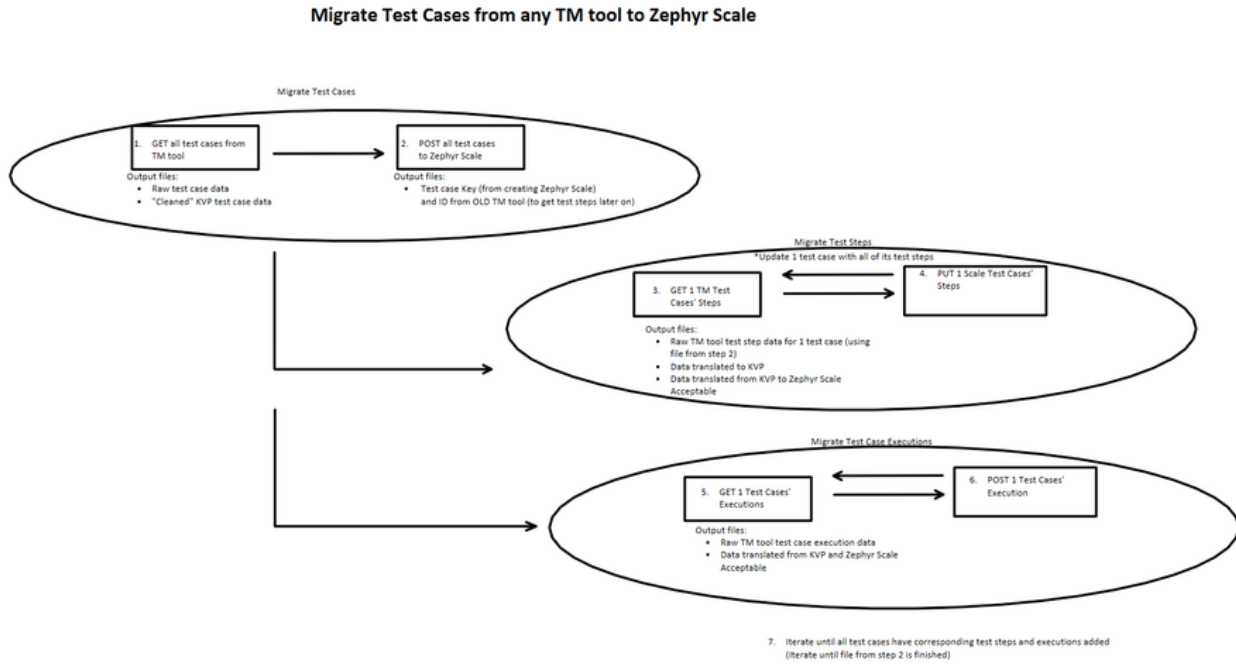


Figure 1: High-level Diagram of Migration Process

Step 1: Get All Test Cases From the Test Management Tool

First we must get the available test cases from the test management tool. Generally the ability exists to query all available test cases, or to export a subset of test cases. Store this information in JSON so we can parse it later.

API Used: "http://localhost:8082/rest/agile/1.0/epic/none/issue?jql=project = WEB AND issuetype = Test ORDER BY createdAt ASC"

```

expand="schema_names",startAt=0,maxResults=50,total=34,issues:[{"expand":"operations,versionedRepresentations,editmeta,changeLog,renderedFields","id":"10602","self":"http://localhost:8082/rest/agile/1.0/issue/10602","key":"WEB-46","fields":{"issuetype":{"self":"http://localhost:8082/rest/api/2/issuetype/10100","id":"10100","description":"This Issue Type is used to create Zephyr Test within Jira. ","iconUrl":"http://localhost:8082/download/resources/com.thoughtworks.zephyr-jira/images/icons/COLOR_zephyr-feather_20x20.svg","name":"Test","subtask":false},"timespent":null,"project":{"self":"http://localhost:8082/rest/api/2/project/10000","id":"10000","key":"WEB","name":"WEB","projectTypeKey":"Software","avatarUrls":{"48x48":"http://localhost:8082/secure/projectavatar?avatarId=10324","24x24":"http://localhost:8082/secure/projectavatar?size=small&avatarId=10324","16x16":"http://localhost:8082/secure/projectavatar?size=small&avatarId=10324"},"32x32":"http://localhost:8082/secure/projectavatar?size=medium&avatarId=10324"},"fixVersions":[]},"customfield_10110":null,"customfield_10111":null,"aggregateTimeSpent":null,"resolution":null,"customfield_10107":null,"customfield_10108":null,"customfield_10109":null,"resolutiondate":null,"workratio":-1,"status":"To Do","statusCategory":{"self":"http://localhost:8082/rest/api/2/statuscategory/2","id":2,"key":"new","colorName":"default","name":"To Do"},"priority":{"self":"http://localhost:8082/rest/api/2/priority/3","id":3,"key":"new","colorName":"default","name":"To Do"},"watchers":{"self":"http://localhost:8082/rest/api/2/issue/WEB-46/watchers","watchCount":1,"isMatching":true},"created":"2023-07-25T08:51:31.000-0400","priority":{"self":"http://localhost:8082/rest/api/2/priority/3","id":3,"key":"new","colorName":"default","name":"To Do"},"customfield_10100":{"id":"10100","name":"Medium","id":"3"},"customfield_10101":null,"customfield_10102":null,"labels":["API","SmokeTest"],"timeestimate":null,"aggregateTimeOriginalEstimate":null,"versions":[]},"issuelinks":[{"id":"10203","self":"http://localhost:8082/rest/api/2/issueLink/10203","type":"Relates","inward":"relates to","outward":"relates to","self":"http://localhost:8082/rest/api/2/issuelinkType/10003","outwardIssue":{"id":"10600","key":"WEB-44","self":"http://localhost:8082/rest/api/2/issue/10600"},"summary":"Migrate Legacy SOAP API to REST API","status":{"self":"http://localhost:8082/rest/api/2/status/10000","id":"10000","name":"To Do"},"colorName":"default","name":"To Do"},"priority":{"self":"http://localhost:8082/rest/api/2/priority/3","id":3,"key":"new","colorName":"default","name":"To Do"},"watchers":{"self":"http://localhost:8082/rest/api/2/issue/10600/watchers","watchCount":1,"isMatching":true},"created":"2023-07-25T08:51:31.000-0400","priority":{"self":"http://localhost:8082/rest/api/2/priority/3","id":3,"key":"new","colorName":"default","name":"To Do"},"customfield_10100":{"id":"10100","name":"Medium","id":"3"},"issuetype":{"self":"http://localhost:8082/rest/api/2/issuetype/10001","id":"10001","description":"Created in Jira Software - do not edit or delete. Issue type for a user story. ","iconUrl":"http://localhost:8082/images/icons/issuetypes/story.svg","name":"Story","subtask":false}}]},{"id":"10200","self":"http://localhost:8082/rest/api/2/issuelink/10200","type":"Relates","inward":"relates to","outward":"relates to","self":"http://localhost:8082/rest/api/2/issuelinkType/10003","outwardIssue":{"id":"10603","key":"WEB-47","self":"http://localhost:8082/rest/api/2/issue/10603"},"summary":"502 Status Code","status":{"self":"http://localhost:8082/rest/api/2/status/10000","id":"10000","name":"To Do"},"colorName":"default","name":"To Do"},"priority":{"self":"http://localhost:8082/rest/api/2/priority/3","id":3,"key":"new","colorName":"default","name":"To Do"},"watchers":{"self":"http://localhost:8082/rest/api/2/issue/10603/watchers","watchCount":1,"isMatching":true},"created":"2023-07-25T08:51:31.000-0400","priority":{"self":"http://localhost:8082/rest/api/2/priority/3","id":3,"key":"new","colorName":"default","name":"To Do"},"customfield_10100":{"id":"10100","name":"Medium","id":"3"},"issuetype":{"self":"http://localhost:8082/rest/api/2/issuetype/10001","id":"10001","description":"Created in Jira Software - do not edit or delete. Issue type for a user story. ","iconUrl":"http://localhost:8082/images/icons/issuetypes/story.svg","name":"Story","subtask":false}}]
    
```

Figure 2: Output File of Raw Test Case Data, Inclusive of All Test Cases

The next part is to use a parsing engine to parse the raw test case data, and output the fields we want to transfer over to key value pairs. We can add more key value pairs here if necessary. Be sure to save the reference ID to each test case so we can update the correct test case, with the correct test steps.

```
[
  {
    "projectKey": "APPS",
    "ID": "10602",
    "name": "SOAP API Smoke Test ",
    "priority": "Medium"
  },
  {
    "projectKey": "APPS",
    "ID": "10604",
    "name": "SOAP API UI Endpoint Smoke Test",
    "priority": "Medium"
  },
  {
    "projectKey": "APPS",
    "ID": "10605",
    "name": "OAS Smoke Test",
    "priority": "Medium"
  },
  {
    "projectKey": "APPS",
    "ID": "10606",
    "name": "Log Out of Application",
    "priority": "Medium"
  }
],
```

Figure 3: Output File of Test Case Data Converted to Key Value Pairs

Step 2: Post All Test Cases to Zephyr Scale

Now we have the necessary data, lets create test cases in Zephyr Scale. You can publish the whole array of test cases from Figure 3. If there was any rework to the naming conventions we can adjust that here. While we are publishing the test cases to Zephyr Scale, we note the test case key that is created from Zephyr. We then output a new file which contains the Zephyr Scale key and the reference ID to the test steps from the test management tool in key value pair, for each test case.

API Used: "http://localhost:8082/rest/atm/1.0/testcase"

```
[
  {
    "ID": "10602",
    "key": "APPS-T3063"
  },
  {
    "ID": "10604",
    "key": "APPS-T3064"
  },
  {
    "ID": "10605",
    "key": "APPS-T3065"
  },
  {
    "ID": "10606",
    "key": "APPS-T3066"
  }
],
```

Figure 4: Output File of ID and Zephyr Scale Key

The file from Figure 4 becomes our iteration file. We will update a single Zephyr Scale test case with the corresponding test steps, using the Key and ID respectively.

Note: Iteration starts here

Step 3: Get a Single Test Case's Test Steps from the Test Management tool

Using Figure 4's ID, query the test steps for 1 test case. This data will be raw, so we likely will need to clean it up.

API Used: "http://localhost:8082/rest/zapi/latest/teststep/{ID}"

```
[{"stepBeanCollection":[{"id":"18","orderId":1,"step":"step 1","data":"data 1","result":"result 1","createdBy":"JIRAUSER10000","modifiedBy":"JIRAUSER10000","htmlStep":"<p>step 1</p>","htmlData":"<p>data 1 </p>","htmlResult":"<p>result 1</p>","attachmentsMap":{},"customFields":{},"totalStepCount":2,"customFieldValuesMap":{}},{id":"19","orderId":2,"step":"step 2","data":"data 2","result":"result 2","createdBy":"JIRAUSER10000","modifiedBy":"JIRAUSER10000","htmlStep":"<p>step 2 </p>","htmlData":"<p>data 2 </p>","htmlResult":"<p>result 2</p>","attachmentsMap":{},"customFields":{},"totalStepCount":2,"customFieldValuesMap":{}}]}
```

Figure 5: Output File of Test Steps for 1 Test Case from Legacy Test Management Tool

We then transform the data to key value pairs. If there was more data (like custom fields) or naming convention adjustment, we can add that here.

```
{ "step": "step 1", "data": "data 1", "result": "result 1" }  
{ "step": "step 2", "data": "data 2", "result": "result 2" }
```

Figure 5: Output File of Transformed Step Data

Before we publish to Zephyr Scale we need to transform the key value pairs to a format Zephyr Scale will accept via API. Again if there was more data in Figure 5, you can add that in to the script here.

```
{  
  "testScript": {  
    "type": "STEP_BY_STEP",  
    "steps": [  
      {  
        "description": "step 1.",  
        "testData": "data 1.",  
        "expectedResult": "result 1."  
      },  
      {  
        "description": "step 2.",  
        "testData": "data 2.",  
        "expectedResult": "result 2."  
      }  
    ]  
  }  
}
```

Figure 6: Output File That Becomes Payload of Step 4

Step 4: Update a Single Test Case's Test Steps in Zephyr Scale

Using the output file as a payload, example shown in Figure 6, update the test case with the corresponding test steps in Zephyr Scale.

API Used: "http://localhost:8082/rest/atm/1.0/testcase/{key}"

Step 5: Get All Test Executions for 1 Test Case

Now we use the ID that is stored in Figure 4 to query the correct executions per the right test case.

In order to create multiple executions at once we need to create a test run, which will give us a test cycle where we can POST multiple results to.

API Used: "http://localhost:8082/rest/zapi/latest/execution?issueId={ID}"

API Used: "http://localhost:8082/rest/atm/1.0/testrun"

```
satus":{"id":1,"color":"#758080","description":"Test was executed and passed successfully.","name":"PASS"},2":{"id":2,"color":"#CC3300","description":"Test was executed and failed.","name":"FAIL"},3":{"id":3,"color":"#F20000","description":"Test execution is a work-in-progress.","name":"WIP"},4":{"id":4,"color":"#6693B8","description":"The test execution of this test was blocked for some reason.","name":"BLOCKED"},-1":{"id":-1,"color":"#A8A8A8","description":"The test has not yet been executed.","name":"UNEXECUTED"},"issueId":10801,"executions":[{"id":69,"orderID":69,"executionStatus":1,"executionWorkflowStatus":null,"executedOn":"06/Sep/23 3:27 PM","executedOnVal":1694283360000,"executedBy":"mattb4700","executedByDisplay":"matt bonner","comment":"","htmlComment":"","cycleId":1,"cycleName":"Ad hoc","versionId":1,"versionName":"Unscheduled","projectId":10000,"createdBy":"JIRAUSER10000","createdByDisplay":"matt bonner","modifiedBy":"JIRAUSER10000","modifiedByDisplay":"matt bonner","createdOn":"06/Sep/23 3:26 PM","createdOnVal":1694283360000,"issueId":10801,"issueKey":"WEB-80","summary":"Zephyr Scale Test 2","issueDescription":"cpTest 2<v/p>","label":"Test","component":"","projectKey":"WEB","canViewIssue":true,"isIssueEstimateNil":true,"isExecutionWorkflowEnabled":true,"isTimeTrackingEnabled":true,"executionDefectCount":0,"stepDefectCount":0,"totalDefectCount":0,"customFields":{"id":68,"orderID":68,"executionStatus":1,"executionWorkflowStatus":null,"executedOn":"06/Sep/23 3:26 PM","executedOnVal":1694283360000,"executedBy":"mattb4700","executedByDisplay":"matt bonner","comment":"","htmlComment":"","cycleId":1,"cycleName":"Ad hoc","versionId":1,"versionName":"Unscheduled","projectId":10000,"createdBy":"JIRAUSER10000","createdByDisplay":"matt bonner","modifiedBy":"JIRAUSER10000","modifiedByDisplay":"matt bonner","createdOn":"06/Sep/23 3:26 PM","createdOnVal":1694283360000,"issueId":10801,"issueKey":"WEB-80","summary":"Zephyr Scale Test 2","issueDescription":"cpTest 2<v/p>","label":"Test","component":"","projectKey":"WEB","canViewIssue":true,"isIssueEstimateNil":true,"isExecutionWorkflowEnabled":true,"isTimeTrackingEnabled":true,"executionDefectCount":0,"stepDefectCount":0,"totalDefectCount":0,"customFields":{"id":32,"orderID":32,"executionStatus":22,"executionWorkflowStatus":null,"executedOn":"14/Aug/23 2:26 PM","executedOnVal":1692037560000,"executedBy":"mattb4700","executedByDisplay":"matt bonner","comment":"","htmlComment":"","cycleId":1,"cycleName":"Ad hoc","versionId":1,"versionName":"Unscheduled","projectId":10000,"createdBy":"JIRAUSER10000","createdByDisplay":"matt bonner","createdByUserName":"mattb4700","modifiedBy":"JIRAUSER10000","modifiedByDisplay":"matt bonner","createdOn":"14/Aug/23 2:26 PM","createdOnVal":1692037560000,"issueId":10801,"issueKey":"WEB-80","summary":"Zephyr Scale Test 2","issueDescription":"cpTest 2<v/p>","label":"Test","component":"","projectKey":"WEB","canViewIssue":true,"isIssueEstimateNil":true,"isExecutionWorkflowEnabled":true,"isTimeTrackingEnabled":true,"executionDefectCount":0,"stepDefectCount":1,"totalDefectCount":1,"customFields":{"id":1,"currentlySelectedExecutionId":"","recordsCount":3,"totalExecutionEstimatedTime":"0 minutes","totalExecutionLoggedTime":"0 minutes","executionsToBeLogged":0,"isExecutionWorkflowEnabledForProject":true,"isTimeTrackingEnabled":true}}
```

Figure 7: Raw Test Case Execution Data

Step 6: Post All Test Executions for 1 Test Case

We then translate the test case execution data to key value pairs, and make it Zephyr Scale acceptable. The output file, highlighted in Figure 8, is used as the payload when posting test case executions.

API Used: 'http://localhost:8082/rest/atm/1.0/testrun/{cycleKey}/testresults'

```
{
  "status": "Pass",
  "testCaseKey": "APPS-T4682"
},
{
  "status": "Pass",
  "testCaseKey": "APPS-T4682"
},
{
  "status": "Fail",
  "testCaseKey": "APPS-T4682"
}
```

Figure 8: Cleaned Test Case Execution Data

Video Example using Zephyr Squad to Zephyr Scale on Jira Data Center

[Video Conferencing, Web Conferencing, Webinars, Screen Sharing](#)

Passcode: g^09=z#3

Script Example using Zephyr Squad to Zephyr Scale on Jira Data Center

```
1 import requests
2 from requests.auth import HTTPBasicAuth
3 import json
4
5
6 ##### Step 1: Get Zephyr Squad Test Cases via Jira API #####
7 ### This creates 1 files containing the raw Zephyr Squad test case response, call it file1.
8
9 ## Get all Zephyr Squad test cases, and output to a file
10
11 #This will query all tests per epic, per JQL expression
12 url = "http://localhost:8082/rest/agile/1.0/epic/none/issue?qjql=project = WEB AND issueType = Test ORDER BY cre
13 ##Replace with Jira username
14 username = ""
15 ##Replace with Jira Password
16 password = ""
17
18 ##Output file path of the Zephyr Squad Test Cases
19 output_file_path = "1.txt"
20
21 #Use auth when creating session
22 session = requests.Session()
```

```

23 session.auth = (username, password)
24
25 try:
26     # Send GET request
27     response = session.get(url)
28
29     # Check if the request was successful
30     if response.status_code == 200:
31         # Parse the response content (you might need to adjust this depending on the response format)
32         response_content = response.text
33
34         # Save the response content to the output file
35         with open(output_file_path, "w") as output_file:
36             output_file.write(response_content)
37
38         print("Response saved to", output_file_path)
39     else:
40         print("Request failed with status code:", response.status_code)
41 except requests.RequestException as e:
42     print("An error occurred:", e)
43
44 ##### Parse Zephyr Squad Test Case Data to Post to Zephyr Scale #####
45 ### This creates 1 files containing the parsed Zephyr Squad test case data, call it file2.
46
47 ## Transform raw Zephyr Squad GET test cases' response into key-value pairs of required test case information.
48 ## We can add as many fields here as we want.
49
50 ##File path of Zephyr Squad Test Cases
51 file_path = r"1.txt"
52 ##New File that will output specific Key Value Pairs from file path
53 output_file_path = r"2.txt"
54 # Read JSON data from file
55 with open(file_path, 'r') as file:
56     json_data = json.load(file)
57
58 # Extract projectKey, ID, Name, and priority for each issue
59 #Here is where we would specify any and all fields we want from Zephyr Squad to be pushed to Zephyr Scale
60 parsed_data = []
61 for issue in json_data["issues"]:
62     projectKey = issue["fields"]["project"]["key"]
63     ID = issue["id"]
64     name = issue["fields"]["summary"]
65     priority_info = issue["fields"].get("priority")
66     priority = priority_info["name"] if priority_info else "No priority"
67
68
69     parsed_data.append({
70         #"projectKey": projectKey,
71         "projectKey": "APPS",
72         "ID": ID,
73         "name": name,
74         "priority": priority,
75
76     })
77
78
79 # Write parsed data to output file
80 with open(output_file_path, 'w') as output_file:

```

```

81     json.dump(parsed_data, output_file, indent=4)
82
83     print(f"Parsed data has been written to {output_file_path}")
84
85     ##### Step 2: POST Zephyr Squad Test Cases to Zephyr Scale and Create Key-Value Pairs #####
86     ### This creates multiple test cases in Zephyr Scale, however many are contained with the output of file2. While
87     ### it is saving in a new file, the key value pairs of Zephyr Squads test case IssueID and the newly created Z
88     ### callit file2.5.
89
90
91     # POST Zephyr Scale Test Case's from file2
92
93     ##File path that 2.txt was written to. You could use outputfile path variable above.
94     with open("C:\\ZScale\\ConverterReady\\ReallyConvertReady\\SimplifiedByClass\\2.txt", 'r') as file: #load output
95         data = json.load(file)
96
97     ##Zephyr Scale POST test cases API
98     url = "http://localhost:8082/rest/atm/1.0/testcase"
99
100
101     # Initialize a list to store the responses
102     responses = []
103
104     # Iterate through each object in the JSON array
105     for item in data:
106         # Extract desired fields
107         project_key = item["projectKey"]
108         name = item["name"]
109
110         # Create payload using extracted fields
111         payload = {
112             "projectKey": project_key,
113             "name": name
114         }
115
116         # Send POST request with the payload and Basic Authentication
117         response = requests.post(url, json=payload, auth=HTTPBasicAuth(username, password))
118
119         # Check the response status and content
120         if response.status_code == 201:
121             response_data = response.json()
122             key = response_data.get("key")
123             responses.append({"ID": item["ID"], "key": key})
124             print(f"POST request for {item['ID']} successful!")
125             print("Response content:", response_data)
126         else:
127             print(f"POST request for {item['ID']} failed with status code:", response.status_code)
128             print("Response content:", response.text)
129
130     ## Save Key-Value pairs of Zephyr Squad Test Case IssueID (in order to get Zephyr Squad Test Steps)
131     ## and Newly Created Zephyr Scale Test Case Key(in order to update the proper test cases with the proper script
132     ## into file2.5.
133
134     ## Write Key and ID to an output file to use later
135     with open('2.5.txt', 'w') as output_file:
136         json.dump(responses, output_file, indent=2)
137
138     print("Responses written to 2.5.txt")

```

```

139
140 ##### Iteration Starts Here #####
141 ##### Step 3: GET 1 Zephyr Squad Test Case's Test Steps and Step 4: PUT (update) Zephyr Scales Te
142 ### This will GET 1 Zephyr Squad test case's test steps from file2.5, and save its test steps in file3. Then tr
143 ### file4. Transform file 4 to the test steps format Zephyr Scale will accept, save that to file5. Update the z
144 ### and using the data saved as payload in file5. Iterate until file 2.5 is finished.
145
146 ## Use file2.5 to iterate down Test case keys
147 ##File path that 2.5.txt was written to. You could use outputfile path variable above.
148 with open("C:\\ZScale\\ConverterReady\\ReallyConvertReady\\SimplifiedByClass\\2.5.txt", "r") as file:
149     data = json.load(file)
150
151 ## Step 3: Get a Single Test Case's Test Steps from the Test Management tool
152 ## Get Zephyr Squad Test Case Steps
153 # Create a session with basic authentication
154 session = requests.Session()
155 session.auth = (username, password)
156 for item in data:
157     key = item["key"]
158     ID = item["ID"]
159     url = f"http://localhost:8082/rest/zapi/latest/teststep/{ID}"
160     try:
161         # Send GET request
162         response = session.get(url)
163
164         # Check if the request was successful
165         if response.status_code == 200:
166             # Parse the response content (you might need to adjust this depending on the response format)
167             ## Write Zephyr Squad test step data to a file, file3
168             response_content = response.text
169             output_file_path = "3.txt"
170             # Save the response content to the output file
171             with open(output_file_path, "w") as output_file:
172                 output_file.write(response_content)
173
174             print("Response saved to", output_file_path)
175         else:
176             print("Request failed with status code:", response.status_code)
177     except requests.RequestException as e:
178         print("An error occurred:", e)
179
180 ## Transform Raw Zephyr Squad Test Step Data to Key-Valye Pairs
181 ## Save in file, file4
182 # Replace this with the path to your JSON file
183 json_file_path = "3.txt"
184 output_file_path = "4.txt" # Replace with your desired output file path
185
186 # Read the JSON data from the file
187 with open(json_file_path, "r") as json_file:
188     json_data = json_file.read()
189
190 # Parse the JSON data
191 parsed_data = json.loads(json_data)
192
193 # Extract and store "step", "data", and "result" values in key-value pairs
194 step_data_pairs = []
195 for step_entry in parsed_data["stepBeanCollection"]:
196     step_data_pairs.append({

```

```

197         "step": step_entry["step"].strip(),
198         "data": step_entry["data"].strip(),
199         "result": step_entry["result"].strip()
200     })
201
202     # Write the extracted key-value pairs to the output file
203     with open(output_file_path, "w") as output_file:
204         for pair in step_data_pairs:
205             output_file.write(json.dumps(pair) + "\n")
206
207     print("Extracted data saved to", output_file_path)
208     # Replace this with the path to your JSON file
209     input_file_path = "4.txt"
210     output_file_path = "5.txt" \
211
212     # Read the JSON data from the file
213     with open(input_file_path, "r") as input_file:
214         extracted_data = input_file.readlines()
215
216     ## Transform Key-Value Pairs to Zephyr Scale Acceptable
217     ## Save transnformed data in file5
218
219     # Transform the extracted data
220     transformed_data = {
221         "testScript": {
222             "type": "STEP_BY_STEP",
223             "steps": []
224         }
225     }
226
227     for entry in extracted_data:
228         kvp = json.loads(entry)
229
230         step_description = kvp["step"]
231         data_description = kvp["data"]
232         result_description = kvp["result"]
233
234         step = {
235             "description": step_description.strip(".") + ".",
236             "testData": data_description.strip(".") + ".",
237             "expectedResult": result_description.strip(".") + "."
238         }
239
240         transformed_data["testScript"]["steps"].append(step)
241
242     # Write the transformed data to the output file
243     with open(output_file_path, "w") as output_file:
244         json.dump(transformed_data, output_file, indent=2)
245
246     print("Transformed data saved to", output_file_path)
247
248     ## Send PUT Request to Update Corresponding Zephyr Scale Test Case with Correct Test Steps
249     ## Use file2.5 to get the correct Zephyr Scale test case key, and file5 for the payload of test steps.
250
251     #Need filepath declared for file 2.5.txt or variable
252     with open("C:\\ZScale\\ConverterReady\\ReallyConvertReady\\SimplifiedByClass\\2.5.txt", "r") as file:
253         data = json.load(file)
254         key = item["key"]

```



```

255     ID = item["ID"]
256
257     # Replace these with your actual values
258 #Step 4: Update a Single Test Case's Test Steps in Zephyr Scale
259 #PUT Request to update Zephyr Scale Test Case
260     url = f"http://localhost:8082/rest/atm/1.0/testcase/{key}"
261     file_path = "5.txt" # Replace with the actual file path
262
263     # Read the payload from the file
264     with open(file_path, "r") as file:
265         payload_data = file.read()
266
267     # Set up Basic Authentication
268     auth = HTTPBasicAuth(username, password)
269
270     # Send the PUT request with the payload
271     response = requests.put(url, data=payload_data, auth=auth, headers={"Content-Type": "application/json"})
272
273     if response.status_code == 200:
274         print("PUT request successful")
275     else:
276         print("PUT request failed with status code:", response.status_code)
277
278
279 ## Step 5: Get Zephyr Squad Test Case Executions
280 ## Use file2.5 to get the correct Zephyr Squad executions POST the right test Executions .
281
282     with open("C:\\ZScale\\ConverterReady\\ReallyConvertReady\\SimplifiedByClass\\2.5.txt", "r") as file:
283         data = json.load(file)
284         key = item["key"]
285         ID = item["ID"]
286
287     url = f"http://localhost:8082/rest/zapi/latest/execution?issueId={ID}"
288     ##Replace with Jira username
289     username = ""
290     ##Replace with Jira Password
291     password = ""
292
293     ##Output file path of the Zephyr Squad Test Cases
294     output_file_path = "6.txt"
295
296     #Use auth when creating session
297     session = requests.Session()
298     session.auth = (username, password)
299
300     try:
301         # Send GET request
302         response = session.get(url)
303
304         # Check if the request was successful
305         if response.status_code == 200:
306             # Parse the response content (you might need to adjust this depending on the response format)
307             response_content = response.text
308
309             # Save the response content to the output file
310             with open(output_file_path, "w") as output_file:
311                 output_file.write(response_content)
312

```

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313         print("Response saved to", output_file_path)
314     else:
315         print("Request failed with status code:", response.status_code)
316 except requests.RequestException as e:
317     print("An error occurred:", e)
318
319
320 with open("6.txt", "r") as file:
321     data = file.read()
322
323     # Load the JSON data
324     data_dict = json.loads(data)
325
326     key_value_pairs = []
327
328     # Define a mapping of execution status values to their descriptions
329     status_mapping = {
330         "1": "Pass",
331         "2": "Fail",
332         "3": "WIP",
333         "4": "Blocked",
334         "-1": "Unexecuted"
335     }
336
337     # Iterate through the executions
338     for execution in data_dict["executions"]:
339         execution_status_id = execution["executionStatus"]
340         execution_status = status_mapping.get(execution_status_id, "Unknown")
341
342         # Create a key-value pair for each execution
343         key_value_pair = {
344             "status": execution_status,
345             "testCaseKey": key
346         }
347
348         # Append the key-value pair to the list
349         key_value_pairs.append(key_value_pair)
350
351     # Write the list of key-value pairs to an output file as a JSON array
352     with open("7.txt", "w") as output_file:
353         json.dump(key_value_pairs, output_file, indent=4) # indent for pretty formatting
354
355     print("Data extracted and saved to '7.txt'.")
356
357     payload = {
358         "name": "Migrating Executions From Legacy Tool",
359         "projectKey": "APPS"
360     }
361
362     url = 'http://localhost:8082/rest/atm/1.0/testrun'
363
364     username = ""
365     ##Replace with Jira Password
366     password = ""
367     auth = HTTPBasicAuth(username, password)
368
369     # Send the POST request with the payload data
370     response = requests.post(url, auth=auth, json=payload)

```

```

371
372     # Check the response
373     if response.status_code == 201:
374         data = response.json() # Parse the JSON response
375         cycleKey = data["key"] # Extract the "key" value and store it in cycleKey
376     else:
377         print(f"Request failed with status code {response.status_code}")
378
379     ##Step 6: POST executions to Zephyr Scale
380
381     url = f'http://localhost:8082/rest/atm/1.0/testrun/{cycleKey}/testresults'
382
383     file_path = "7.txt" # Replace with the actual file path
384
385     # Read the payload from the file
386     with open(file_path, "r") as file:
387         payload_data = file.read()
388
389     # Set up Basic Authentication
390     auth = HTTPBasicAuth(username, password)
391
392     # Send the PUT request with the payload
393     response = requests.post(url, data=payload_data, auth=auth, headers={"Content-Type": "application/json"})
394
395     if response.status_code == 201:
396         print("Post request successful")
397
398     else:
399         print("POST request failed with status code:", response.status_code)
400         print(url)
401
402     #### Could add test case attachments by:
403     ## GET https://zephyrsquadserver.docs.apiary.io/#reference/attachmentresource/delete-attachment/get-single-att
404     ## POST /testcase/{testCaseKey}/attachments https://support.smartbear.com/zephyr-scale-server/api-docs/v1/
405
406     ### Would have to be added to the iteration

```