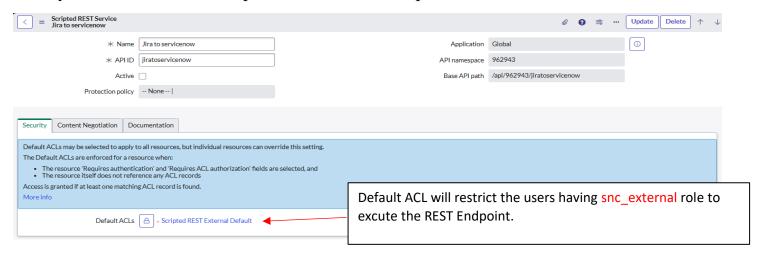
ServiceNow Integration with JIRA

- A) When an Issue is created/updated in JIRA a record will automatically created in a custom table of ServiceNow.
- 1.Create a custom application/table in ServiceNow.

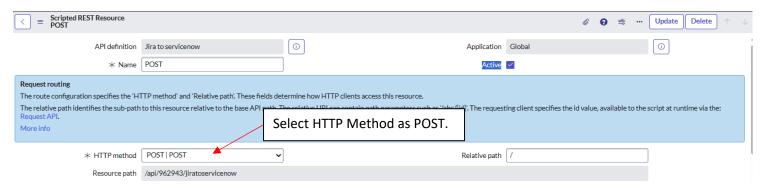


2. Create a Scripted REST API.

All>System Webservices>Scripted Webservices>Scripted REST APIs



3. Create a POST Resource in Scripted REST API.



HTTP Methods:

1.GET: used to retrieve data from any third party application.2.POST: used to create records in any third party application.

3.PUT: used to update specified fields but other fields will be updated with the default

values.

4.PATCH: used to update specified fields and other fields will not get updated with the

default values.

5.DELETE: used to delete any data from any third party application.

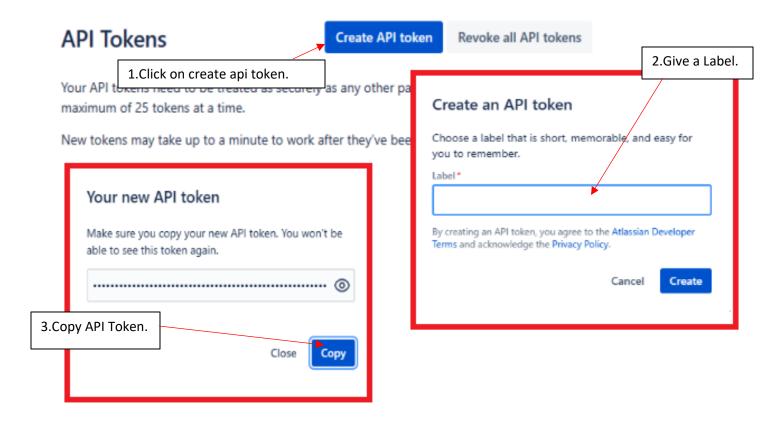
4. Write the script.

```
* 闇の [ 早 | 巻 : | 鞮 | | 久 | ~ | ~ | ② | 図 | 図 | 図 | 数 | 数
     (function process(/*RESTAPIRequest*/ request, /*RESTAPIResponse*/ response) {
2
3
        //gs.log("Jiralog :"+ JSON.stringify(request.body.data));
         var requestBody = request.body.data;
         //gs.log('jiralog '+ requestBody.issue.fields.project.name);
6
7
         var jr= new GlideRecord('u_jira_stage');
         jr.addQuery('u_issue_id',requestBody.issue.id);
jr.addQuery('u_project_key',requestBody.issue.fields.project.key);
11
         jr.query();
         if(!jr.next())
12
13
14
        jr.initialize();
15
         jr.u_project_name = requestBody.issue.fields.project.name;
16
17
         jr.u_project_key = requestBody.issue.fields.project.key;
        jr.u_issue_id = requestBody.issue.id;
18
19
         jr.u_issue_key = requestBody.issue.key;
         jr.u_summary= requestBody.issue.fields.summary;
         jr.u_description=requestBody.issue.fields.description;
21
         jr.insert();
22
23
         gs.log('Jira Issue created: '+jr.u_issue_id);
24
25
26
        else{
27
        jr.u_summary= requestBody.issue.fields.summary;
28
29
         jr.u_description=requestBody.issue.fields.description;
         jr.update();
30
31
         gs.log('Jira Issue updated: '+jr.u_issue_id);
32
33
34
    3
35
36
    catch(ex) {
37
    var message = ex.message;
38
39
40
    })(request, response);
```

5. Create an API Token for Authorization.

Go to this URL and create an API Token then copy it.

https://id.atlassian.com/manage-profile/security/api-tokens



6.Create a user in ServiceNow

*NOTE: Username will be your JIRA login email id & password will be API token we get in step 5 and give that user web_service_admin role.

7.Register a Webhook in JIRA

Webhook: it is a user defined callback over HTTP. We can use JIRA Webhook to notify application whenever certain events occur in JIRA.

Example: You might have to alert your remote application when an issue is updated or when any sprint is started use a Webhook to do this means that your remote application does not have to periodically pool JIRA via REST APIs to determine changes have occurred.

Steps:

Go to JIRA Administrators Console> System (under settings)> Webhooks (In advance section).

• Create a Webhook.

• Enter details.

Name: Servicenow Integration

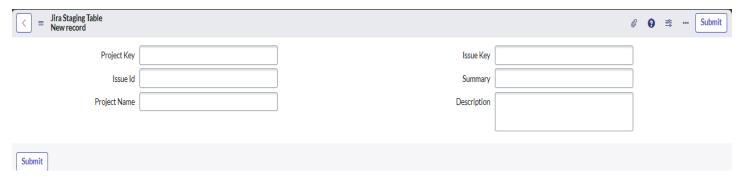
URL: Enter your scripted REST API URL.

Events: Issue Created

• Create.

7. When you create an issue in JIRA it will create a record in your custom table.

- B) When a record is created in custom table it will automatically create an issue in JIRA.
- 1.Create a custom application/table in ServiceNow.



2.Create a REST Message

Check these links to get an Idea for what purpose what HTTP method has to be used ,URL & Payload format.

- Jira REST API examples (atlassian.com)
- The Jira Cloud platform REST API (atlassian.com)

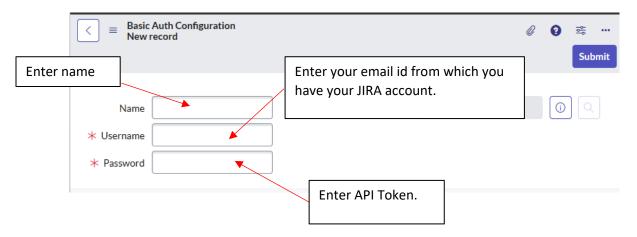
All>System Webservices > Outbond > REST Message

• EndPoint: https://your-domain.atlassian.net/rest/api/3/issue

replace your-domain in URL with your atlassian url.

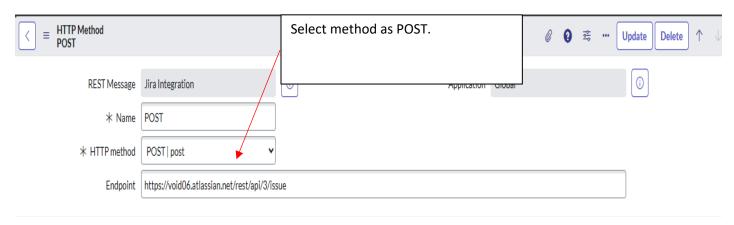
• Authentication type:Basic

Basic Auth Profile:

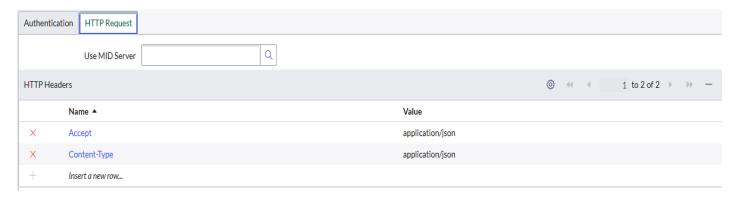


*NOTE: Process of getting an API Token is above in Step 5.

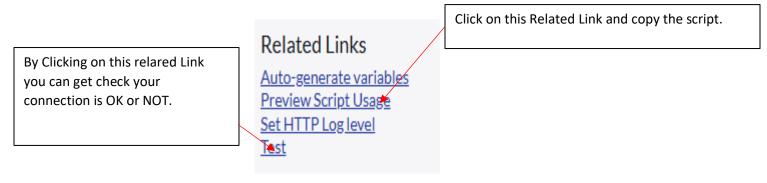
3. Create a POST HTTP Method.



HTTP Header:



To get the script of this REST Message



HTTP response status codes;

- 100-199
- 200-299
- 300-399
- 400-499
- 500-599

Informational responses

Successful responses

Redirection messages

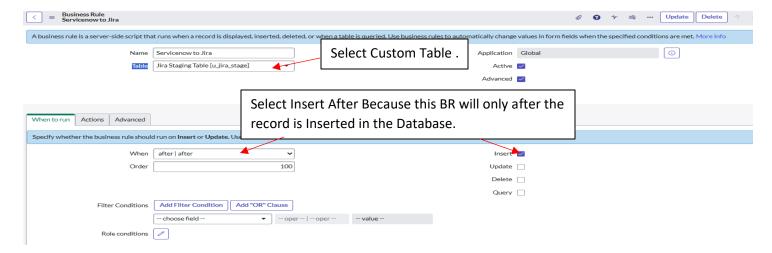
Client error responses

Server error responses

```
4. This is the example of PayLoad Data which is accepted in JIRA(JSON Format).
{
       "fields": {
          "project": {
            "key": "Your Project Name"
          },
          "issuetype": {
             "name": "Task"
          },
          "summary": "This issue is created via REST Message by Abhijeet",
          "description": {
             "type": "doc",
             "version": 1,
             "content": [{
               "type": "paragraph",
               "content": [{
                 "type": "text",
                 "text": "This is testing for description by Abhijeet Singh"
              }]
            }]
          }
```

4.Create a Business Rule so that whenever a record is created in the custom table script will run.

All > System Definition > Business Rules



And write the script in the advance section.

```
Script|script 🖺 ⟨♪ 🔎 🗷 🐉 🔍 🗸 🗸 🙋 🔒 🗞 🕸
     3
     4
                var r = new sn_ws.RESTMessageV2('Jira Integration', 'POST');
                var body = {
                    "fields": {
                        "project": {
                            "key": current.u_project_key.toString
                        "issuetype": {
    10
                            "name": "Task"
    11
    12
                                                                                     add .toString() because in JSON data can
                        "summary": current.u_summary.toString()
    13
                                                                                     only be send in string format.
    14
                        "description": {
    15
                            "type": "doc",
                            "content": [{
    17
    18
                                "type": "paragraph",
                                content": [{
    "type": "text",
    19
    20
                                    "text": current.u_description.toString()
    21
    22
                               }]
    23
                            }]
    25
    27
                gs.log("testingBody"+body);
    28
    29
    30
                r.setRequestBody(JSON.stringify(body));
    31
                var response = r.execute();
    32
                var responseBody = response.getBody();
    33
                var httpStatus = response.getStatusCode();
    34
                gs.addInfoMessage("Testing"+responseBody);
                gs.addInfoMessage("Testing"+httpStatus);
    35
    36
              catch (ex) {
    37
                var message = ex.message;
    38
    39
        })(current, previous);
```

5. When you create a record it will automatically create an Issue in JIRA.