



Script Include for Custom API Logic

User Story: As a ServiceNow Administrator, I want to create a reusable Script Include that calculates the total unresolved incidents for a given user so that it can be leveraged across different workflows and integrations via a REST API.

Objective: Document the steps required to create a reusable Script Include and a REST API endpoint in ServiceNow. The solution will enable the organization to retrieve the total count of unresolved incidents assigned to a specific user through an API call. This ensures consistency, reusability, and maintainability.

Skills: Script Include, Scripted REST API, REST API Explorer.

Solution:

Step 1: Sign into ServiceNow.

servicenow. Developer Program

Sign in with your ServiceNow ID

Email

Remember me

Next

Need assistance?

Get instant help or open support ticket!

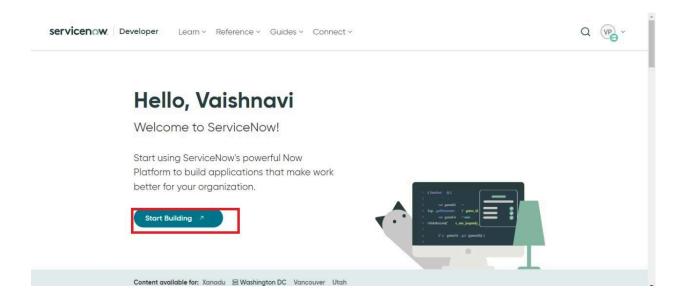
Step 2 : Sign up for a developer account on the ServiceNow Developer site "https://developer.servicenow.com".

Step 3: Once logged in, navigate to the "Personal Developer Instance" section.





Click on "Request Instance" to create a new ServiceNow instance.



- **Step 4 :** Fill out the required information and submit the request.
- **Step 5 :** You'll receive an email with the instance details once it's ready.
- **Step 6 :** Log in to your ServiceNow instance using the provided credentials. Now you will navigate to the ServiceNow.

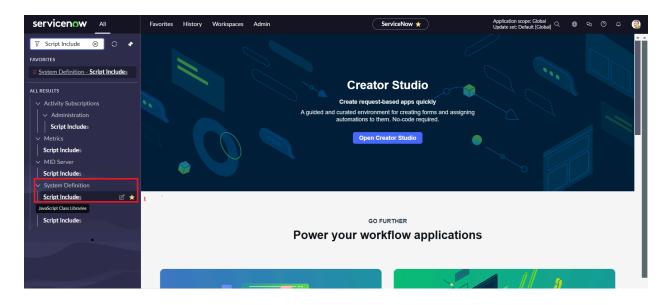




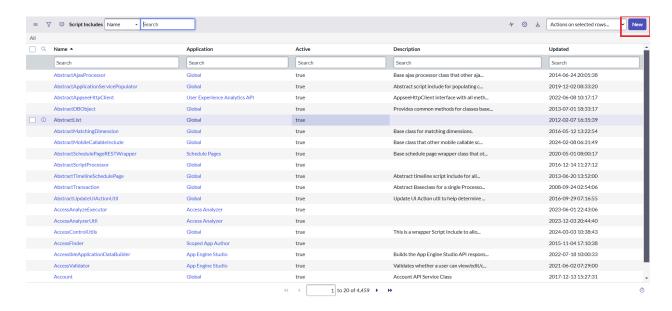


Step 7:

- 1. Open "Script Include"
- 2. Under System Definition



3. Create New



Step 8 : Fill the details as below





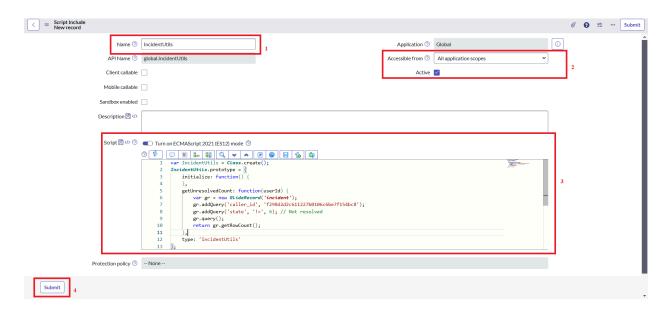
- 1. Name: IncidentUtils
- 2. Accessible From: All Application Scope
- 3. In the Script section, please paste the below Script as shown below.

Step 9 : Copy the script which shown below

```
var IncidentUtils = Class.create();
IncidentUtils.prototype = {
   initialize: function() {},

   getUnresolvedCount: function(userId) {
     var gr = new GlideRecord('incident');
     gr.addQuery('caller_id', 'f298d2d2c611227b0106c6be7f154bc8');
     gr.addQuery('state', '!=', 6); // Not resolved
     gr.query();
     return gr.getRowCount();
   },

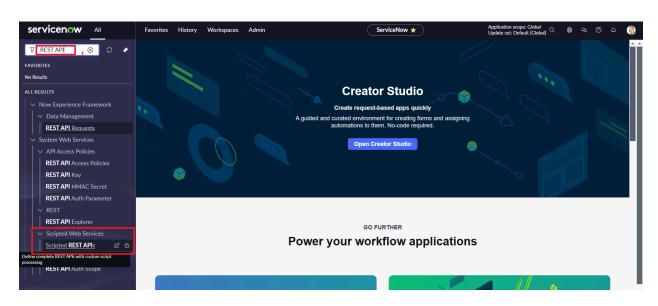
   type: 'IncidentUtils'
};
```

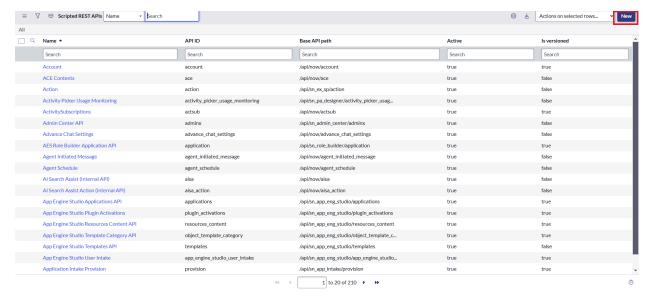






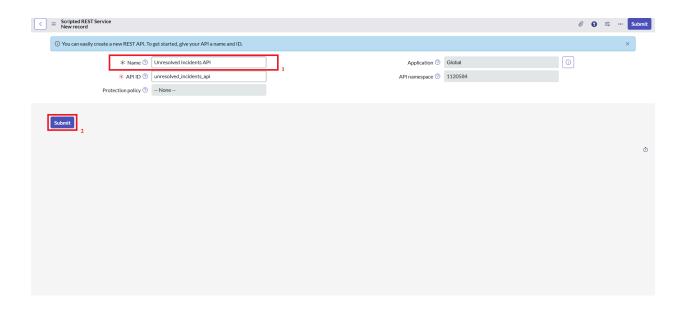
Step 10: Create new REST API





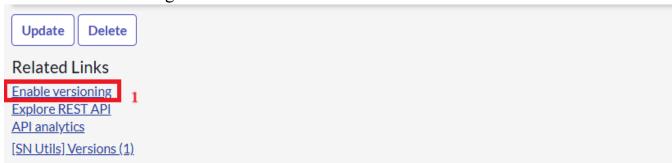






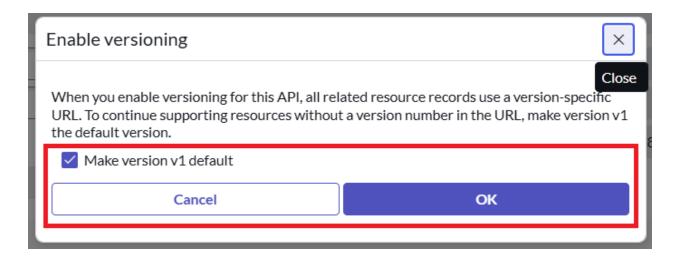
Step 11:

- 1. REST API Name: Unresolved REST API
- 2. API ID will auto populate
- 3. Click on Submit.
- 4. As soon as we submit, below the Update and Delete buttons, we can see "Enable Versioning" and we need to make sure the version should be v1 as shown in the following.





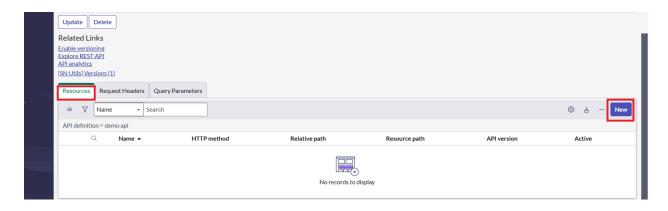




5. Click on OK

Step 12:

- 1. After selecting the versioning, we need to add resources below.
- 2. Click on the Resources Section and click on New.

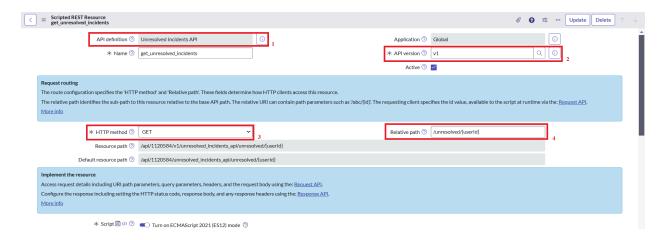


Step 13:

- 1. As soon as we click New fill the details.
- 2. Name: "get_unresolved_incidents"
- 3. API Version: v1
- 4. HTTP Method: GET
- 5. Relative Path: /unresolved/{userId} as shown in the below.







6. Now we should add a "Scripted REST resource" script to the resource as shown in the below.

```
(function process(/*RESTAPIRequest*/ request, /*RESTAPIResponse*/
response) {

    // Get the userId from the URL path parameter
    var userId = request.pathParams.userId;

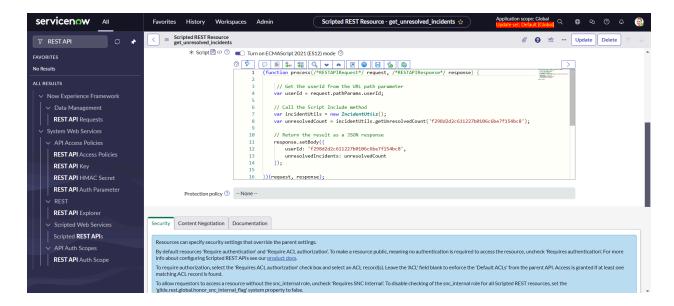
    // Call the Script Include method
    var incidentUtils = new IncidentUtils();
    var unresolvedCount =
incidentUtils.getUnresolvedCount('f298d2d2c611227b0106c6be7f154bc8');

    // Return the result as a JSON response
    response.setBody({
        userId: 'f298d2d2c611227b0106c6be7f154bc8',
        unresolvedIncidents: unresolvedCount
    });

}) (request, response);
```



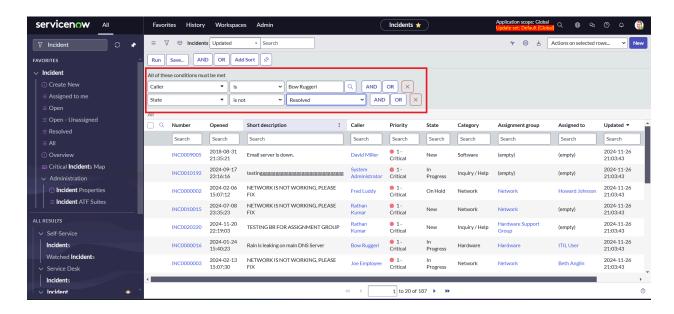




7. Click on Submit.

Step 14:

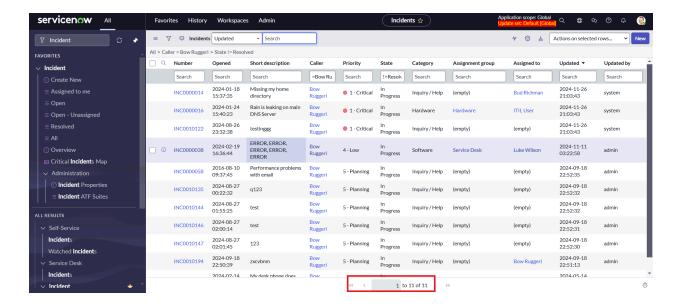
1. Before testing we need to validate Unresolved incidents for the userID In this particular use case I have chosen the user as "Bow Ruggeri" as shown below.



- 2. Now add a filter condition "Caller is Bow Ruggeri" AND "State is Unresolved" and run.
- 3. In this particular scenario we have 11 Unresolved Incidents for Bow Ruggeri.



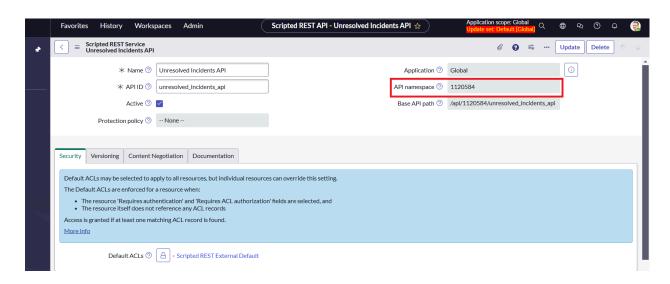




4. Now we need to validate and test the API. In order to get the output of "11 Unresolved incidents for "Bow Ruggeri" and we will test this API by using REST API Explorer.

Result:

1. We can validate the API with this "API Namespace: 1120584" in Scripted REST Service

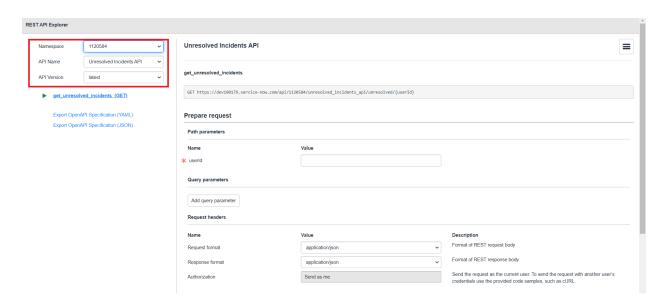


- 2. We need to mention the same namespace ID in REST API Explorer to test the API as shown in the below
- 3. Namespace: 1120584



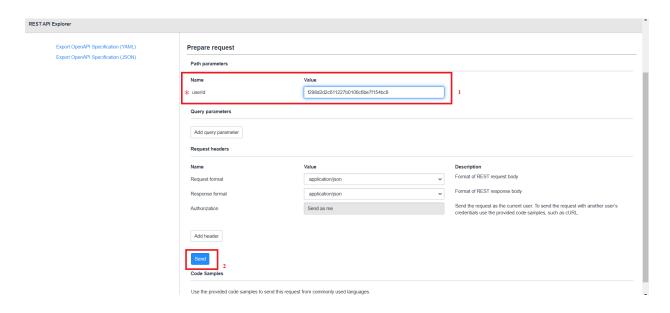


- 4. API Name: Unresolved Incidents API
- 5. API Version: Latest or v1



6. Now add "Bow Ruggeri" userId to the value

"f298d2d2c611227b0106c6be7f154bc8" and click on "Send" as shown in the below.



6. If the implementation is correct, the API should return a JSON response similar to the following:





