#### **Automated Incident State Update on Problem Creation**

# **Objective**

To streamline incident management and improve operational efficiency by automatically updating the state of Incidents related to newly created or updated Problems in ServiceNow. The objective is to ensure that these Incidents are set to "On Hold" with the on-hold reason "Awaiting Problem," providing clear communication and status tracking for pending resolutions. This automation will reduce manual updates, ensure consistency, and enhance visibility into the incident resolution process.

# **User Story**

**As a ServiceNow user**, I want the state of Incidents related to a newly created Problem to automatically change to "On Hold" with the on-hold reason set to "Awaiting Problem" so that incident management is streamlined, and it is clear that the resolution is pending a related Problem.

# **Pre-Requisites**

- Knowledge of ServiceNow.
- Knowledge of Business Rules.

### Skills Used

- Business Rules
- ServiceNow Administration

# Implementation Steps

### **Step 1: Open ServiceNow Developer Instance**

- 1. Click on **All** and type "Business Rule" in the filter navigator.
- 2. Open Business Rules.

### Step 2: Create a New Business Rule

- 1. Enter the following details:
  - Name: problem after br

Table: Select ProblemTable

Active: Ensure the checkbox is TrueAdvanced: Check the checkbox

A business rule is a server-side script that runs when a record is displayed, inserted, deleted, or when a table is queried. Use business rules to automatically change values in form fields when the specified conditions are met. More Info

Name problem after br
Table Problem [problem] 

Active V

#### 2. Scroll down to When to run:

- o In When, select After
- o In Operations, select Insert, Update
- Filter Conditions:
  - Problem statement  $\rightarrow$  Starts with  $\rightarrow$  Related



Advanced <

## **Step 3: Add the Advanced Script**

1. Navigate to the **Advanced** section and insert the following script:

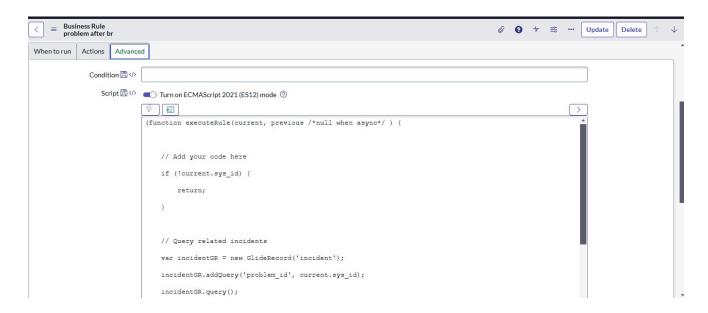
(function executeRule(current, previous /\*null when async\*/ ) {
// Validate that the current problem record has a sys\_id

```
if (!current.sys_id) {
    return;
}

// Query related incidents
var incidentGR = new GlideRecord('incident');
incidentGR.addQuery('problem_id', current.sys_id);
incidentGR.query();

while (incidentGR.next()) {
    // Update state to On Hold and set On Hold Reason to Awaiting Problem
    incidentGR.state = 3; // 3 corresponds to "On Hold"
    incidentGR.u_on_hold_reason = 3; // Ensure 'u_on_hold_reason' is the correct field name
    incidentGR.update();
}

})(current, previous);
```



## Step 4: Submit the Business Rule

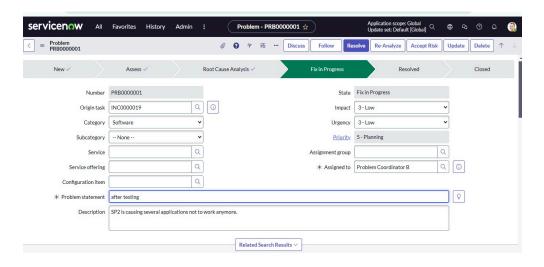
1. Click on **Submit** to save the Business Rule.

#### Result:

- 1. Navigate to the Problem List:
  - In ServiceNow, go to Problem > All from the application navigator.

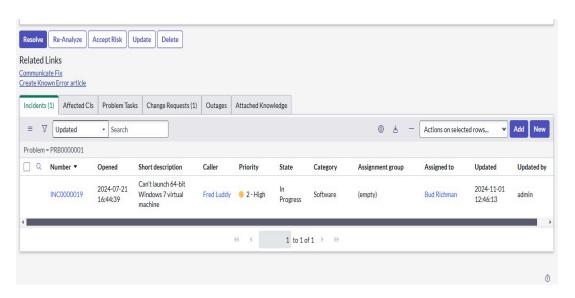
#### 2. Open a Problem Record:

- Select any Problem record that has related incidents associated with it.
- Note: You can verify that the related incident state is not "OnHold" when you first open the record.



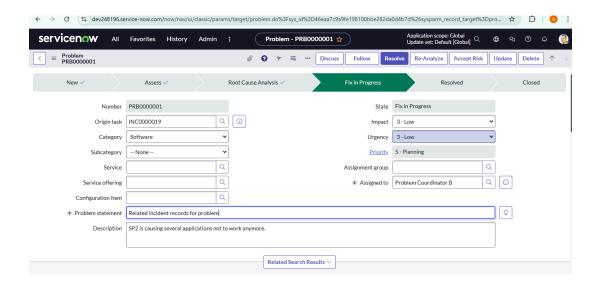
#### 3. Review the Related Incidents:

- Ensure that the related incidents are visible within the Problem record.
- o Check the State of the related incidents, which should not be "OnHold" initially.

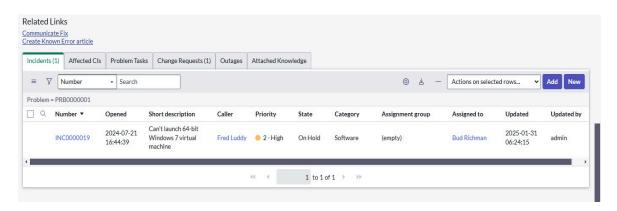


#### 4. Update the Problem Statement Field:

- o Find the Problem Statement field in the selected Problem record.
- Change the label or value of this field to "Related incident records for problem".
- Save the change by clicking Update at the top of the record.



- 5. Update the Related Incident State:
  - After clicking Update, check the related incidents again.
  - The State of the related incidents should now be automatically set to "OnHold".



#### **Expected Outcome:**

- After the update, the Problem Statement field will be updated to "Related incident records for problem".
- Once implemented, this Business Rule will automatically update all related Incidents when a new Problem is created or updated, ensuring they are placed "On Hold" with the reason "Awaiting Problem." This reduces manual updates, ensures consistency, and enhances operational visibility