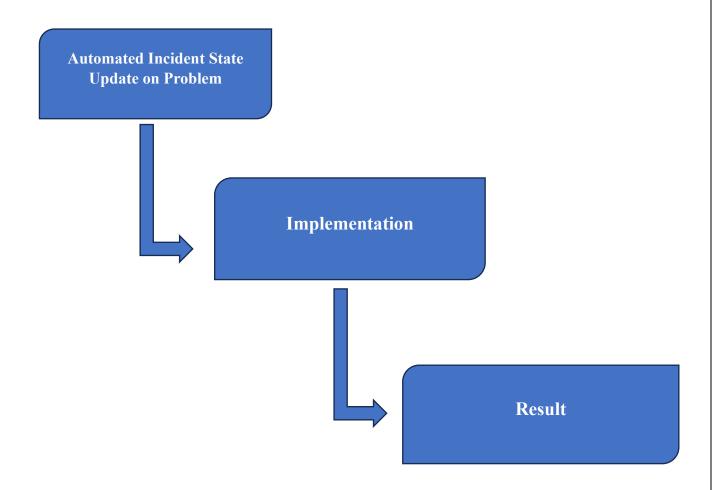
Automated Incident State Update on Problem Creation

Project Flow



Automated Incident State Update on Problem Creation

Abstract:

To improve efficiency and consistency in incident management, this automation in ServiceNow will automatically update Incidents linked to new or updated Problems. It will set these Incidents to "On Hold" with the reason "Awaiting Problem," reducing manual work and improving status tracking for faster resolution.

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 on Service Now.
- Knowledge on Business Rules.

Skills used to solve the problem statement:

- Business Rules.
- Service Now Administration.

Implementation:

Step 1: Sign in to ServiceNow

• Log in to your ServiceNow account.

Sign Up for a Developer Account

- Visit ServiceNow Developer Site.
- Sign up for a developer account.

Request a Personal Developer Instance

- Navigate to the "Personal Developer Instance" section.
- Click on "Request Instance" to create a new ServiceNow instance.

Fill Out and Submit the Request

• Provide the necessary details and submit the request.

Receive Instance Details

• Check your email for instance details and credentials.

Log in to ServiceNow

• Use the provided credentials to log in to your ServiceNow instance

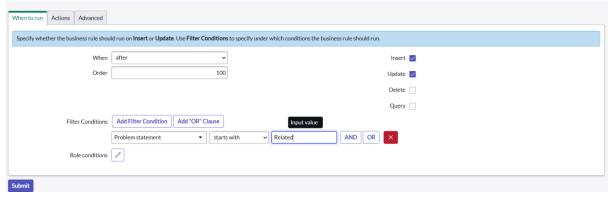
Step 2: Configure a Business Rule in ServiceNow

- 1. Open your ServiceNow Developer Instance.
- 2. Navigate to All > Search for Business Rule and open it.
- 3. Enter the following details:
 - o Name: problem after br
 - o Table: Select ProblemTable
 - o Active: Ensure the checkbox is checked
 - Advanced: Check the Advanced checkbox



Step 3: Configure When to Run

- 1. Scroll down to the When to Run section.
- 2. Set When to After.
- 3. Under Operations, select Insert and Update.
- 4. In Filter Conditions, set:
 - o **Problem statement** → **Starts with** → "Related"



Step 4: Add Advanced Script

- 1. In the Advanced section, locate the Script field.
- 2. Enter the following script:

```
(function executeRule(current, previous /*null when async*/) {
    // Ensure the current record has a valid sys_id
    if (!current.sys_id) {
        return;
    }

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

    // Update each related incident
    while (incidentGR.next()) {
        incidentGR.state = 3; // Set state to "On Hold"
        incidentGR.u on hold reason = 3; // Set On Hold Reason to "Awaiting Problem"
```

```
incidentGR.update();
}
})(current, previous);
```

```
When torun Actions Advanced

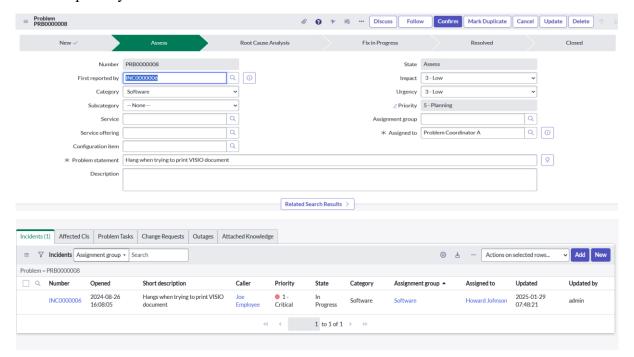
Condition  
Script  
Script
```

Step 4: Click on "Submit".

Result:

Step 5: Verify the Result

- 1. Navigate to **Problem > All**.
- 2. Open any **Problem** record that has related **Incidents**.



Note:

When you open the related Incident record, its state will **not** be set to "On Hold" initially.

Step 6: Steps to Trigger the Update:

Update the **Problem statement** field to:

"Related incident records for problem"

- 1. Click Update.
- 2. Now, the related Incident's state will be set to "On Hold" automatically.

