# PREVENT USER DELETION IF ASSIGNED TO AN INCIDENT

#### PROJECT DESCRIPTION:

In an IT Service Management (ITSM) environment powered by ServiceNow, users play a critical role in handling incidents and ensuring service continuity. However, the current system allows user records to be deleted even if they are actively assigned to ongoing incidents. This creates several challenges, such as:

- Broken data references within the **Incident** table.
- Loss of accountability when incidents no longer show the responsible user.
- Workflow disruptions due to missing assignee details.

The objective of this project is to implement a **safeguard mechanism** that prevents deletion of any user record if they are still assigned to one or more active incidents. The mechanism ensures data integrity, accountability, and smooth ITSM operations by requiring all active incidents to be closed or reassigned before a user can be deleted.

This safeguard will be implemented using **Business Rules**, **GlideRecord API**, and **user/group management practices** within ServiceNow.

## **Key Features:**

#### 1. Deletion Validation Rule

- A **before-delete Business Rule** will be created on the **sys\_user** table.
- The rule will check if the user is currently assigned to any incident records.

#### 2. Incident Status Check

- The rule ensures only **active incidents** (e.g., New, In Progress, On Hold) are considered.
- Users with only **closed incidents** can be safely deleted.

#### 3. GlideRecord Query

- Utilizes **GlideRecord API** to query the Incident table (incident.assigned\_to).
- Prevents deletion if matching active records exist.

#### 4. Error Handling and Messaging

Displays a user-friendly error message when deletion is blocked (e.g.,
"This user cannot be deleted because they are assigned to one or more

active incidents.").

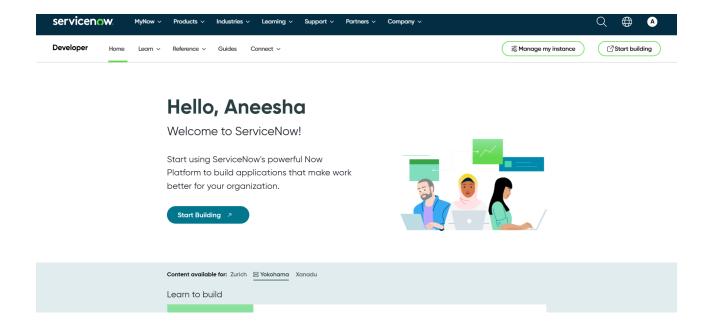
### 5. Audit and Accountability

- Ensures that all incidents retain valid assignment references.
- Prevents accidental loss of responsibility tracking.

#### 6. Extensibility

- Can be extended to check other related tables (e.g., Change Requests, Problems, Tasks).
- Configurable to align with organizational policies.

### Start Building an Instance

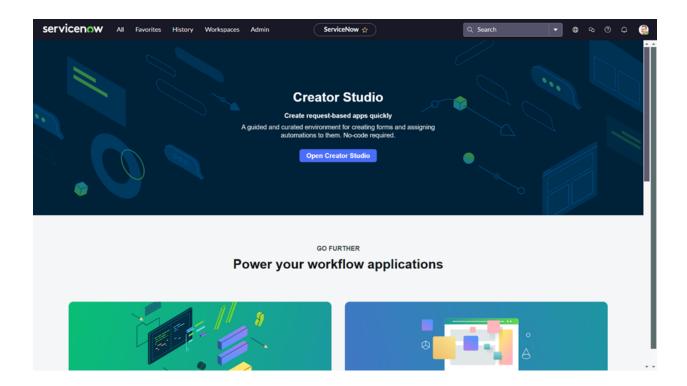


On the welcome page, click  ${\bf Start\ Building}.$ 

Choose an **Instance location** if prompted (for example: Zurich, Yokohama, or the region closest to you).

## Click Request Instance or Start Building again.

Wait while ServiceNow provisions your **personal developer instance** (this may take a minute or two).

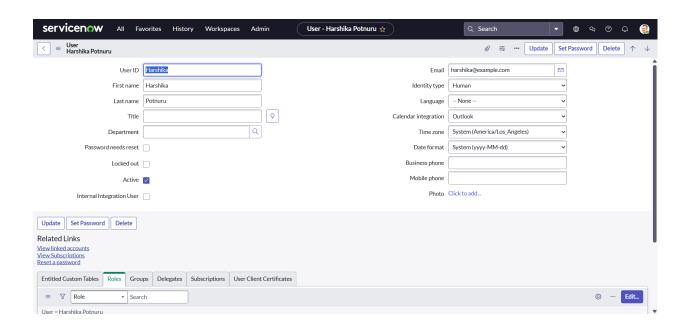


# user creation

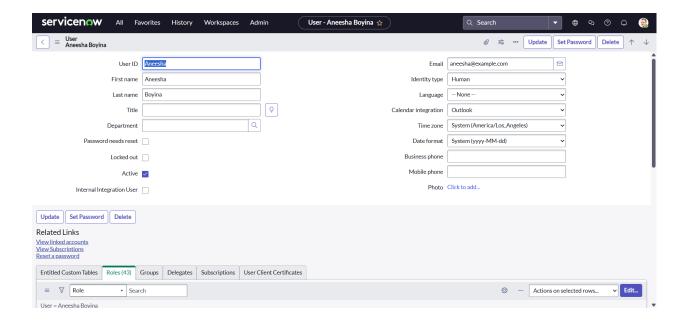
#### **Create Test Users**

- 1.Go to ServiceNow? All? Users (under System Security)
- 2.Click on New
- 3. Create two users (e.g., Harshika potnuru, Aneesha Boyina)
- 4. Submit and verify user records.

## 1. Harshika potnuru



## 2.Aneesha Boyina

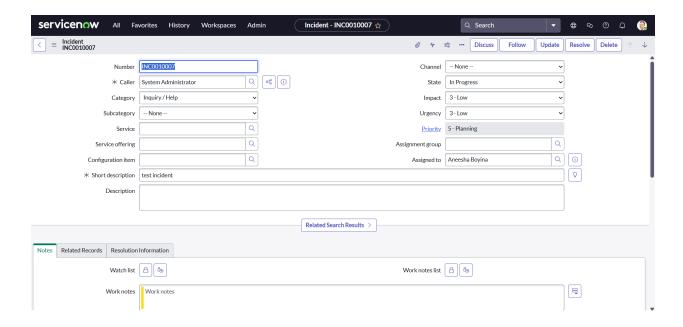


# **Assign Incident to User**

# **Assign Incidents**

- 1. Navigate to the Incident table.
- 2. Create a new incident and assign it to one of the created users (e.g., Aneesha Boyina)
- 3. Keep the incident Active = true and State = In Progress.

( To assign any user the user should have at least one role so assigned a role to the user before assigning incident )



# **Business Rule Creation**

## Create Business Rule

- 1. Go to System Definition? Business Rules
- 2. Click on New
- 3. Fill in:
- 4. Name: Prevent User Deletion if Assigned to an Incident

5. Table: sys\_user6. When: Before

7. Delete: Checked

8. Script:

(function executeRule(current, previous /\*null when async\*/) {

var incGr = new GlideRecord('incident');

incGr.addQuery('assigned\_to', current.sys\_id);

incGr.setLimit(1); // Just need to check existence

// incGr.addQuery('active', true); we can use the above or this line of code to check where the user is assigned with any incident

incGr.query();

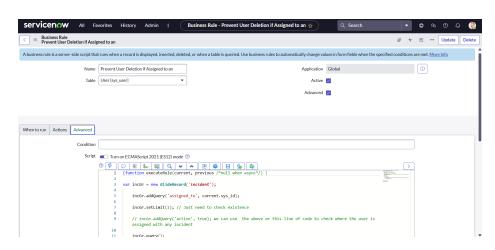
if (incGr.next()) {

gs.addErrorMessage('This user cannot be deleted because they are assigned to one or more incidents.');

current.setAbortAction(true);}

// Add your code here

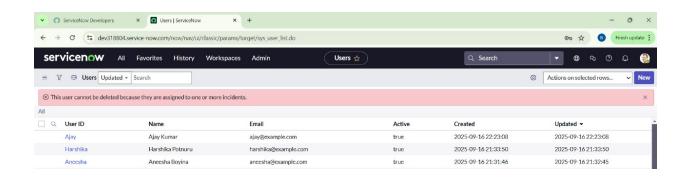
})(current, previous);



# **Test Deletion**

# Attempt to Delete Assigned User

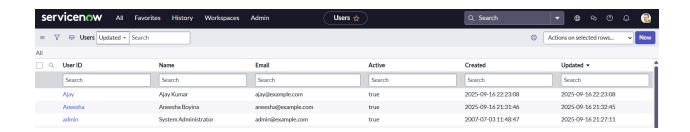
- 1. Go to the user record (Aneesha Boyina)
- 2. Click Delete
- 3. Verify that deletion is blocked with an error message



# Test with unassigned User

# Attempt to Delete Unused User

- 1. Try deleting the second user (Harshika potnuru) who is not assigned to any active incidents.
- 2. Deletion should succeed.



## Conclusion

The implementation of the **Prevent User Deletion if Assigned to an Incident** safeguard in ServiceNow ensures greater reliability, accountability, and continuity within IT Service Management processes. By leveraging **Business Rules, GlideRecord queries, and user management controls**, the solution prevents accidental or unauthorized deletion of users who are still actively responsible for incident resolution.

This project not only enhances **data integrity** by maintaining valid references between users and incidents but also ensures **operational efficiency** by avoiding disruptions in service workflows. Furthermore, it strengthens compliance with IT governance standards and provides a scalable foundation that can be extended to other ITSM modules, such as Change and Problem Management.

In summary, this solution provides a **robust safeguard** that supports organizational accountability, minimizes service risks, and upholds best practices in ServiceNow application development.