# Streamlining Ticket Assignment for Efficient Support Operations

Category: ServiceNow Application Developer

Submitted by: Gurrala Jhansi

Roll Number: 22341A1243

Course/Batch: Information Technology

# Table of Contents

- 1. Introduction
- 2. Skills & Tools Used
- 3. Problem Statement
- 4. Proposed Solution
- 5. Implementation Steps
- 6. Results / Output
- 7. Benefits
- 8. Conclusion
- 9. Future Enhancements
- 10. References

### 1.Introduction

Efficient support operations are essential for ensuring quick resolution of incidents and maintaining customer satisfaction. In manual ticket assignment, agents or administrators need to manually review tickets and assign them to the appropriate support group. This often causes delays, misrouting of issues, and a lack of accountability.

To overcome these challenges, ServiceNow's automation capabilities can be leveraged. By using Flow Designer, User & Group Management, and Access Control Lists (ACLs), we can design an automated ticket assignment process that ensures incidents are assigned to the right group in real-time.

## 2.Skills & Tools Used

ServiceNow Platform

- User and Group Management
- Flow Designer
- Access Control Lists (ACLs)

## 3. Problem Statement

Current manual ticket assignment delays resolution, leads to inefficiency and dissatisfaction. Need for automation.

Manual ticket assignment leads to:

- Delay in resolving incidents.
- Misallocation of tickets to the wrong groups.
- Increased dissatisfaction among users and support teams.

There is a need for an **automated ticket routing mechanism** that assigns tickets to the correct group without human intervention.

# 4. Proposed Solution

Automated ticket routing system in ServiceNow using Flow Designer. Proper ACLs to secure ticket data. Role-based access for support teams.

- 2 Create **users**, **groups**, **and roles** in ServiceNow to represent the support structure.
- ② Design an **automated flow** in Flow Designer that routes tickets to groups based on ticket category.
- Implement ACLs to secure ticket data and ensure that only authorized users have access.
- Test the flows thoroughly with real-time scenarios to validate the automation

# 5.Implementation Steps

#### Step 1: User Creation

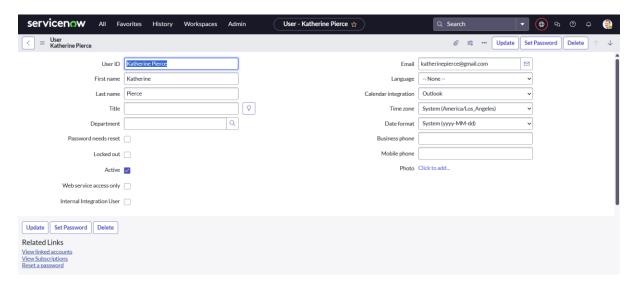
New users are created in ServiceNow to represent support agents

- Create new users in ServiceNow to represent support agents.
- Example:
  - User 1
  - o User 2
- Each user will have unique login credentials and contact details in the system.

#### User 1:

servicenow All Fa	vorites History Workspaces Ad	min (	User - New Record 🏠		Q Search	•	<b>(</b>	જ (	ව ද	•
⟨ Ser New record     ⟨ Ser New record   Ser New							6	9 ≊		Submit
① To set up the User's password, save th	e record and then click Set Password.									×
User ID	manne.niranjan			Email	niranjanreddymanne@gmail.com	$\boxtimes$				
First name	Manne			Language	None	~				
Last name	Niranjan	]		Calendar integration	Outlook	~				
Title		◊		Time zone	System (America/Los_Angeles)	~				
Department	Q			Date format	System (yyyy-MM-dd)	~				
Password needs reset				Business phone						
Locked out				Mobile phone						
Active	<b>✓</b>			Photo	Click to add					
Web service access only										
Internal Integration User										
Submit										
Related Links View linked accounts View Subscriptions										

#### User 2:



#### Step 2: Group Creation

Groups are defined to organize users into specialized teams for ticket handling.

ne groups to organize users into specialized support teams.

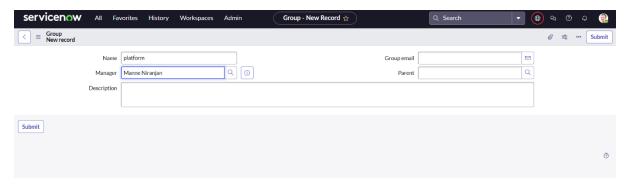
#### ② Example:

- Group 1: Operations Support Group (handles operations-related issues)
- Group 2: Platform Support Group (handles platform-related issues)
- Each group can contain one or more users.

#### Group 1:

C. C G P = .												
servicenow A	II Favorites	History	Workspaces	Admin	Group - ce	rtificates 🏠		Q Search		<b>⊕</b> ∞	O &	<b>@</b>
<									0 ≊	• Update [	Delete 1	<b>+</b>
	Name certifica	ates					Group email					
М	lanager Katheri	ine Pierce		Q 0			Parent			Q		
Desc	cription											
Update Delete												

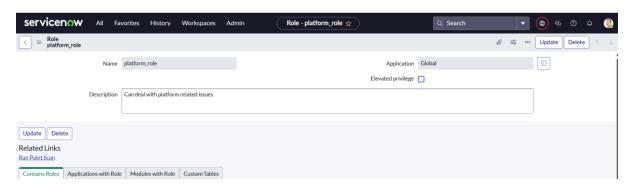
#### Group 2:



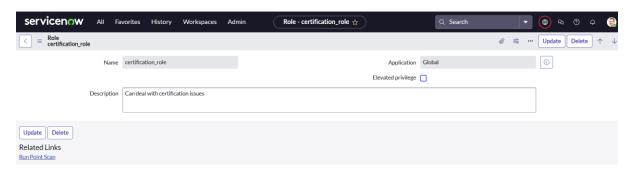
#### Step 3: Role Creation

- Define roles to manage access and permissions.
- Example:
  - o **Role 1:** Operations\_Role allows access to operations tickets.
  - Role 2: Platform\_Role allows access to platform-related tickets.

#### Role 1:



#### Role 2:

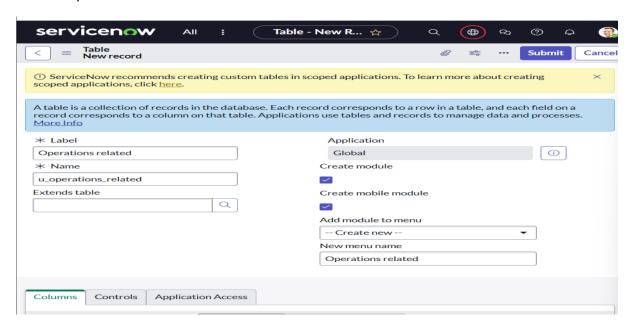


#### Step 4: Tables Creation

• Create custom tables to represent ticket-related data.

• Example: Operations\_Tickets Table to log operational issues.

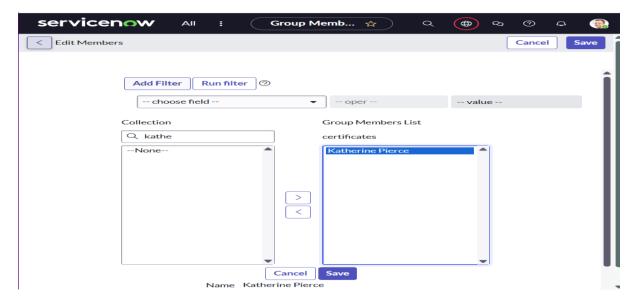
#### Table - Operations related

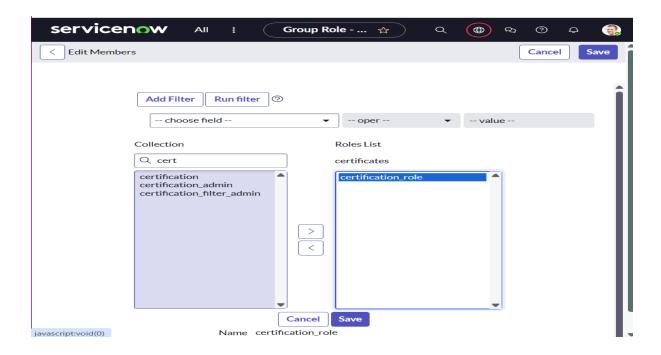


#### Step 5: Assigning roles to users & groups

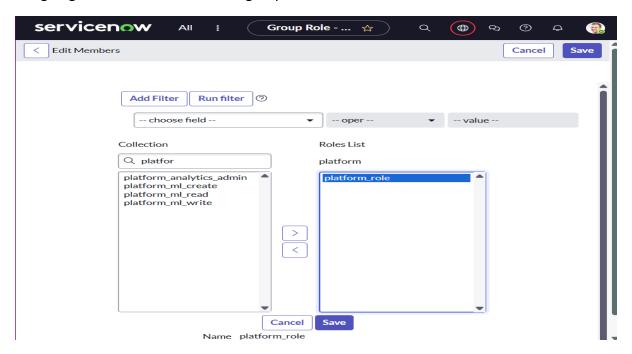
- Assign roles to ensure users have the correct level of access.
- Example:
  - Assign Operations\_Role to User 1 and Operations Support Group.
  - o Assign **Platform\_Role** to User 2 and Platform Support Group.

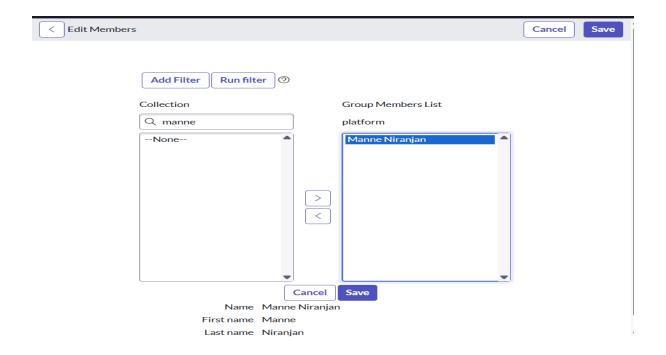
Assigning role and user to Certificate group





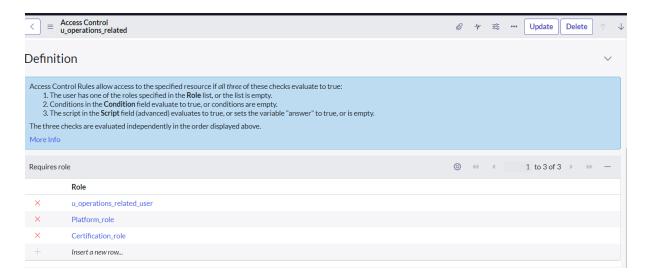
#### Assigning role and user to Platform group





Step 6: Assign role to table

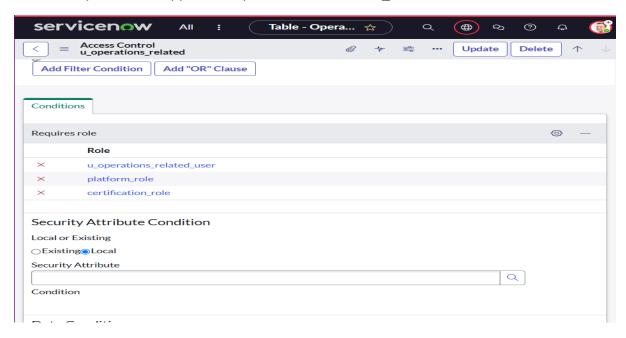
- Ensure that only authorized roles can access the new tables.
- ② Example: Operations\_Role can view/edit Operations\_Tickets, while Platform\_Role can view/edit Platform\_Tickets.



Step 7: Creation of ACL

- 2 Configure Access Control Lists (ACLs) to restrict data access.
- ② Example:
  - Only Operations Support Group can read/write Operations\_Tickets.

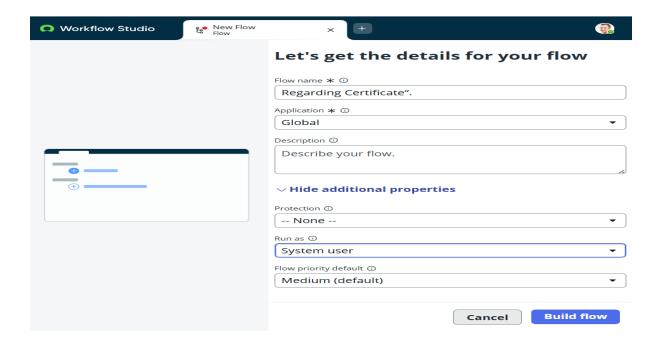
• Only Platform Support Group can access Platform\_Tickets.

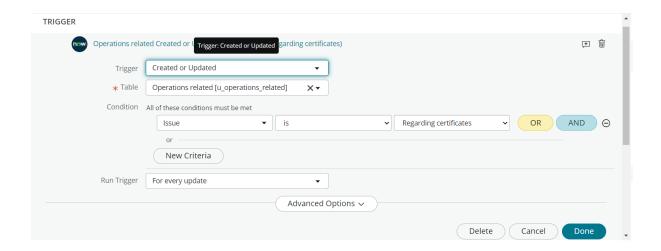


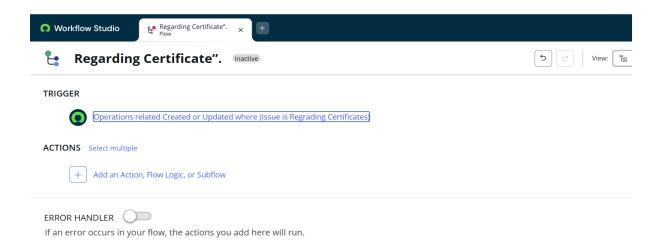
Step 8: Create a Flow to Assign operations ticket to group

#### Step 9: Flow Creation – Operations Tickets

- Using **Flow Designer**, create a flow:
  - o Trigger: When a new ticket is created with category = Operations.
  - o Action: Automatically assign the ticket to **Operations Support Group**.





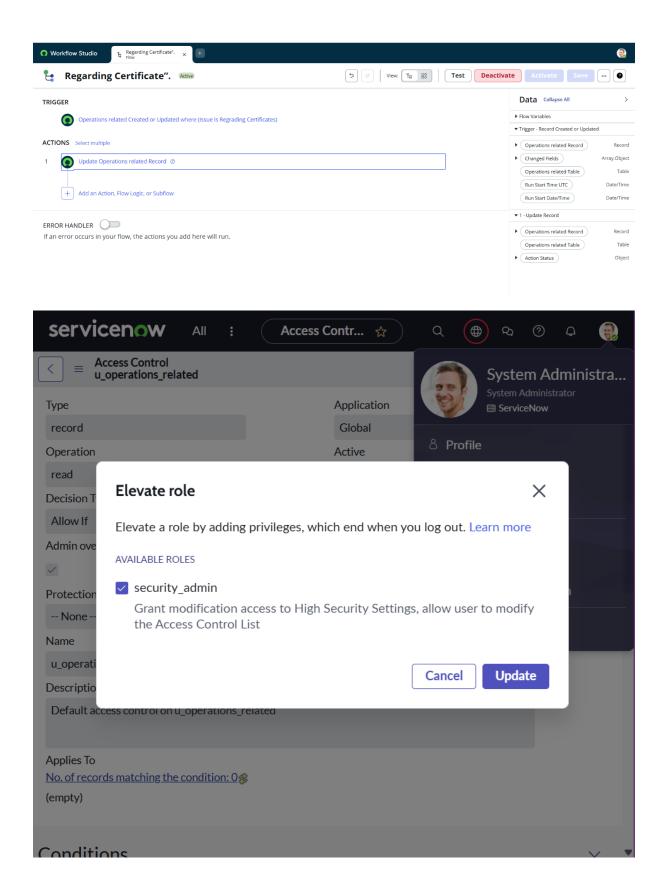


#### Step 10: Flow Creation - Platform Tickets

- · Create another flow:
  - Trigger: When a new ticket is created with category = Platform.
  - o Action: Automatically assign the ticket to **Platform Support Group**.

#### Step 11: Flow Activation

• Activate both flows in Flow Designer so that they run automatically in real-time.



Step 12: Testing the Flow

Once the flow was designed, it was tested by creating sample incidents/tickets in ServiceNow. The testing ensured that tickets were automatically assigned to the correct groups based on the issue category

#### **Steps in Testing**

#### 1. Create a Test Ticket

- o Example: Create an incident with category 'Unable to login to platform'.
- Expected Result: The ticket should be auto-assigned to the *Platform Support Group*.

#### 2. Check Assignment

• Verify that the ticket was routed to the correct support group automatically.

Testing ensures the automation works correctly.

#### Test Case 1 – Operations Ticket

- Action: Create a ticket with category = "Database issue (Operations)".
- Expected Result: The system auto-assigns the ticket to **Operations Support Group**.
- Verification: Check the "Assigned Group" field → should show Operations Support Group.

#### Test Case 2 - Platform Ticket

- Action: Create a ticket with category = "Unable to login to Platform".
- Expected Result: The system auto-assigns the ticket to **Platform Support Group**.
- Verification: Check the "Assigned Group" field → should show Platform Support Group.

#### Test Case 3 - Unauthorized Access

- Action: Try accessing Platform\_Tickets with a user who only has Operations\_Role.
- Expected Result: Access denied due to ACLs.
- Verification: User should not be able to view/edit platform tickets.

#### 6. Results

- Tickets were successfully routed to the correct groups based on their category.
- No manual intervention was required.
- Unauthorized users were unable to access restricted tickets due to ACLs.

#### 7. Benefits

- Faster ticket resolution.
- Reduced manual workload.
- Improved customer and user satisfaction.
- Clear accountability since tickets are assigned to the right group instantly.

#### 8. Conclusion

The automation of ticket assignment in ServiceNow using Flow Designer significantly improved efficiency in support operations. It reduced delays, ensured correct routing, and enhanced security through ACLs.

#### 9. Future Enhancements

- Add **priority-based routing** (e.g., high-priority tickets assigned to senior staff).
- Use Machine Learning (ML) to predict the best group for complex issues.
- Integrate with Slack/Email notifications for real-time updates to support staff.
- Implement auto-escalation rules if tickets remain unresolved beyond SLA.