# Create Force.com Sharing Rules with Clicks, Not Code

May 22, 2017



# **SCENARIO**

When a Record is created for Object B, we want to create a sharing rule on the related record in Object A for the related user or a specific public group. In this example, Object A and Object B have a Master-detail relationship where object A is the master.

The related user we are creating the sharing rule for, will be the record owners' manager - as defined on their user record.

# **OVERVIEW**

There are 3 components that need to be created to accomplish this task. We must create the components in the following order.

- 1. Create an Apex Sharing Reason: required field on Sharing Rule
- 2. Create a Flow: to create the Sharing Rule on Object A
- 3. Create a Process Builder: to launch the Flow when an Object B record is created, and define the Flow variables (ParentID of the Object A record, and the UserorGroupID the record will be shared with)

NOTE: Object A must be set to 'Private' (Setup | Security Controls | Sharing Settings) to complete this exercise, as an Object marked 'Public' will **not** have a corresponding 'Share' Object for Sharing Rules.

# STEP-BY-STEP INSTRUCTIONS

1. Create the Sharing Reason

Create a Sharing Reason on Object A that will be referenced in the Sharing Rule.

Step 1: Setup | Create | Objects | "Object A" | Apex Sharing Reasons | New



Step 2: Enter Reason Label (e.g. "Manager Sharing Rule") and Reason Name, then Save

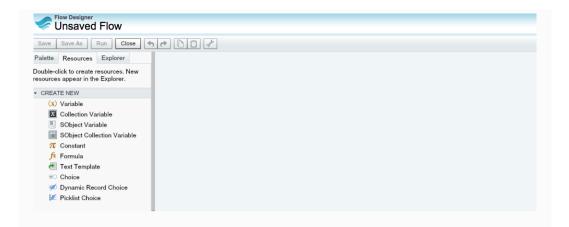


### 2. Create the Flow

Step 1: Setup | Create | Workflow & Approvals | New Flow



Step 2: Go to the 'Resources' tab and double-click 'Variable'

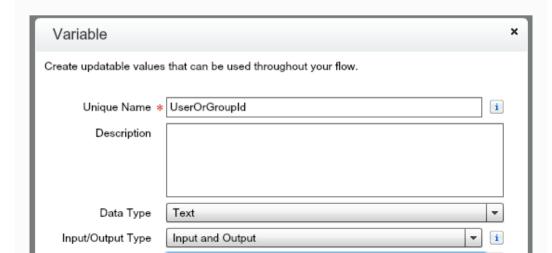


# Step 3: Create two custom Variables

- "UserOrGroupId"
- "ParentId"

## Variable 1: UserOrGroupId

- Unique Name: Enter name (e.g. "UserOrGroupId")
- Data Type: Text
- Input/Output Type: Input and Output
- **Default Value:** GLOBAL CONSTANT | {!\$GlobalConstant.EmptyString}

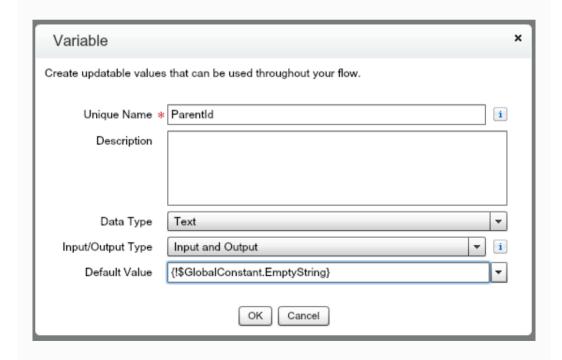




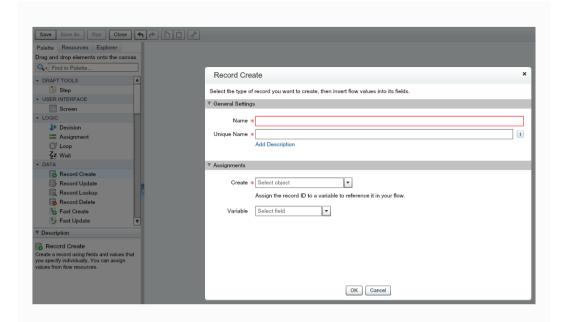
Click OK, then go back to the 'Resources' tab and double-click 'Variable'

#### Variable 2: ParentId

- Unique Name: Enter name (e.g. "ParentId")
- Data Type: Text
- Input/Output Type: Input and Output
- **Default Value:** GLOBAL CONSTANT | {!\$GlobalConstant.EmptyString}



Step 4: Go to the 'Palette' tab and drag 'Record Create' onto the canvas



Step 5: Input Record Create Details

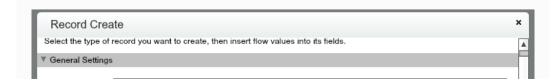
#### **Element: Record Create**

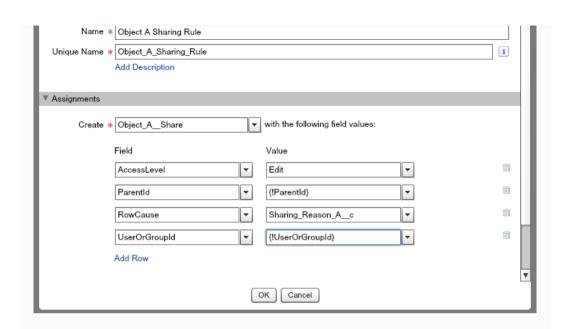
- Name: Enter name (e.g. "Object A Sharing Rule")
- Create: Select the share version of related object (e.g. Object\_A\_Share)

Tip: Type the word "Share" to filter the selection

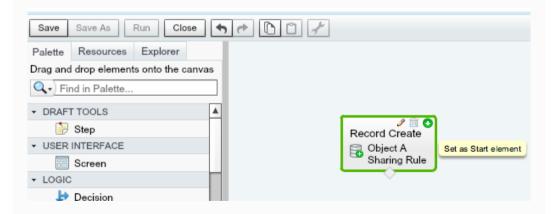
#### Field Values

- Access Level: Edit
- ParentId: "{!ParentId}"
- RowCause: "Sharing\_Reason\_A\_\_C"
- UserOrGroupId: "{!UserOrGroupId}"





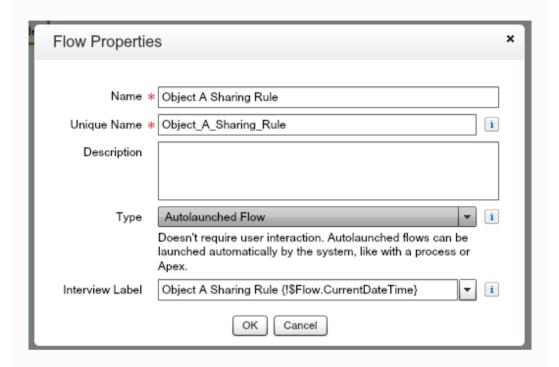
Step 6: Set the Record Create element as the Start Element Select the "+" icon in the top right corner.



Step 7: Press Save to save the Flow

**Enter the Flow Properties** 

- Name: Enter name (e.g. "Object A Sharing Rule)
- Type: Autolaunched Flow



Step 8: Activate the Flow

Setup | Create | Workflow & Approvals | Flow | "Object A Sharing Rule" | Activate



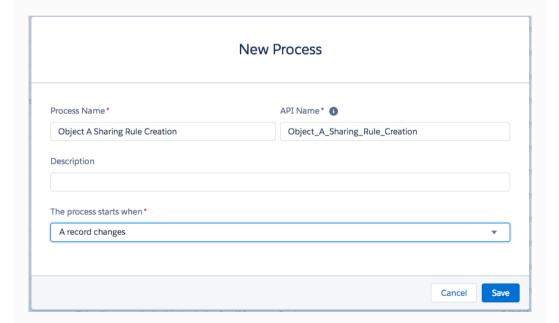
## 3. Create the Process Builder

Step 1: Setup | Create | Workflow & Approvals | Process Builder | New



Step 2: Enter New Process details

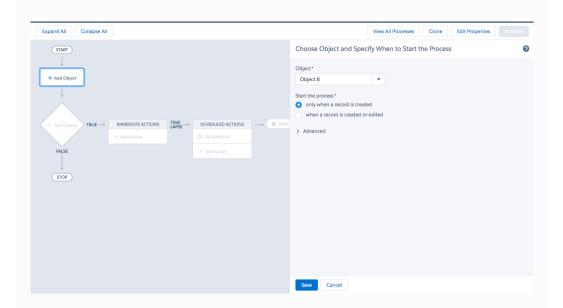
- Process Name: Enter name (e.g. "Object A Sharing Rule Creation")
- The process starts when\*: A record changes



Step 3: Add Object

• Object: "Object B"

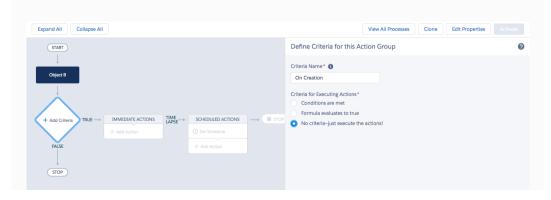
• Select the appropriate option to start the process (in this example, the process will launch only when a record is created)

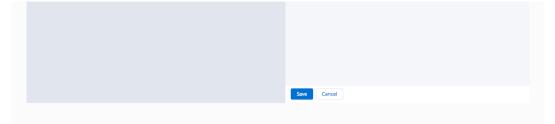


Step 4: Define Criteria for Action Group

#### Click Add Criteria

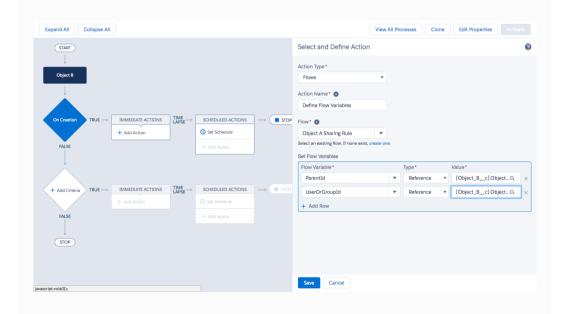
- Enter Criteria Name (e.g. "On Creation")
- Select the appropriate option (in this example, "No criteriajust execute the actions!" is selected)





Step 5: Set an Immediate Action to launch the Flow

- + Add Action
  - Action Type: Flows
  - Action Name: Enter name (e.g. "Define Flow Variables")
  - Select your Flow in the Flow Field (e.g. "Object A Sharing Rule")



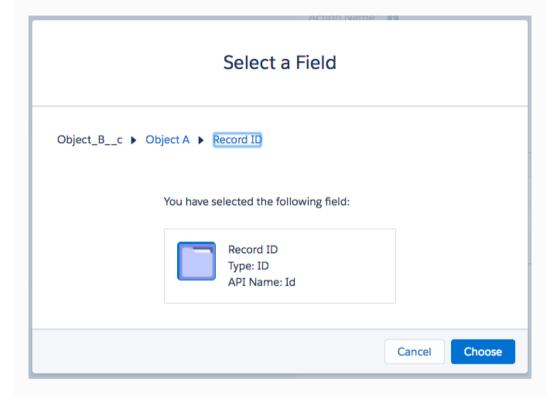
#### Set Flow Variables

#### Row 1

• Flow Variable: Select the variable you created in the Flow that defines the ParentId (e.g. "Parent Id")

• Type: Reference

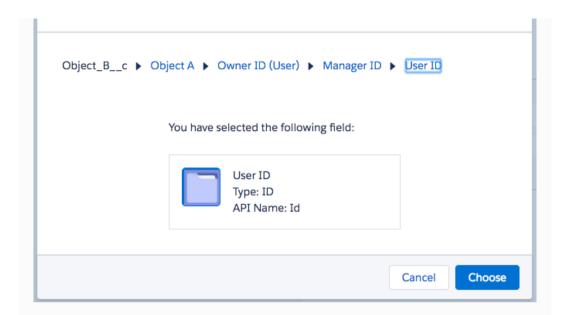
• Value: Object A | Record ID



#### Row 2

- Flow Variable: Select the variable you created in the Flow that defines the UserorGroupId (e.g "UserOrGroupId")
- Type: Reference
- Value: Select the Related User ID that you will be sharing the Record with (e.g. Object | Owner ID (User) | Manager ID | User ID, based on this sample scenario)

### Select a Field



## Save and Activate your Process

Set Flow Variables					
Flow Variable *		Type*		Value*	
ParentId	•	Reference	•	[Object_Bc].ObjectQ	×
UserOrGroupId	•	Reference	•	[Object_Bc].ObjectQ	×
+ Add Row					

# TEST THE FLOW

#### **TEST CASE**

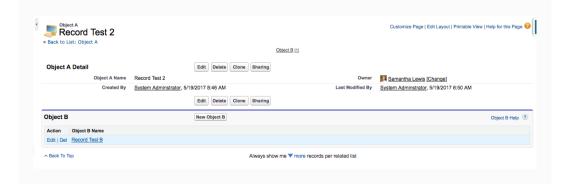
When a Record is created in Object B, we expect a sharing rule to be created on the related record in Object A for the related user (or a specific public group). In this example, the related user we are creating the sharing rule for will be the record owners' manager - as defined on their user record. Object A and object B have a Master-detail relationship, where object A is the master.

#### **SCRIPT**

Create a record in Object A, then create a related created in Object B. We expect the Flow/Process builder to create a sharing rule on the related record in Object A. The Sharing Rule should consist of the following:

- Type: User
- Name: Record Owners Manager (e.g. Samantha Lewis is the Owner, and her Manager is System Administrator)
- Access Level: Read/Write (Edit translates to Read/Write)
- Reason: Sharing Reason A

#### 1. Create record in Object B



2. Check the Sharing Rule on the record in Object A, by pressing the "Sharing" button on the record

