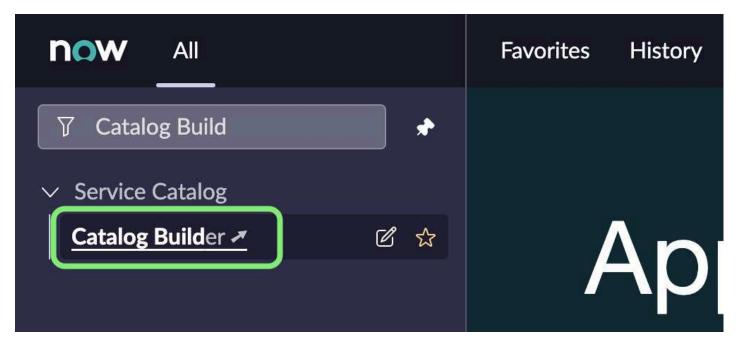
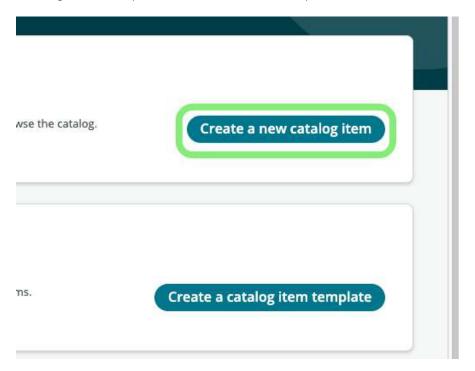
Exercise 1: Create a Catalog Item

1. Navigate to Service Catalog > Catalog Builder



2. Click Create new catalog item

NOTE: Notice the ability to create a Catalog Item Template. Creating Templates assists with scaling up new Catalog Items and provide a consistent user experience to end-users.



3. Review the steps required to create a Catalog Item.

GETTING STARTED

Let's look at what it takes to create an item

We've laid out the steps into a logical flow, but feel free to move through each step in an order that works for you. Remember, you can save your item as you go but it will only be available once it has been submitted.

We'll start by having you select the catalog item template you would like to use.



4. Click Continue.



5. Select the "Standard items in the Service Catalog Template"

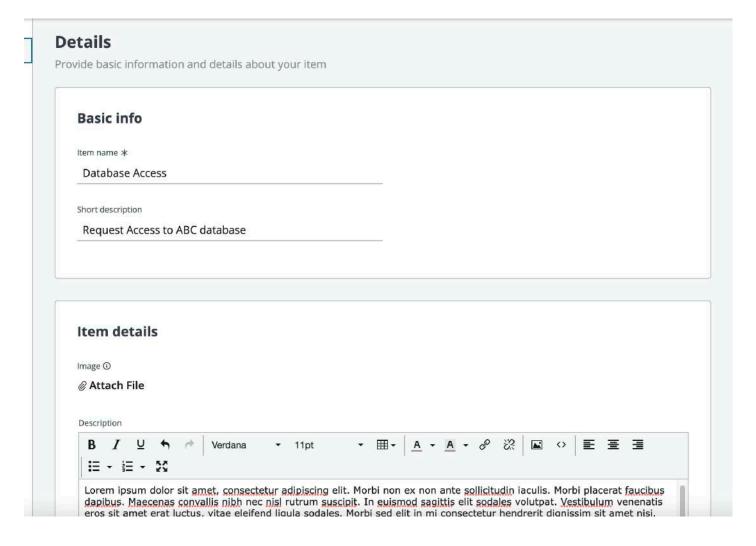


6. Click Use this Item template.



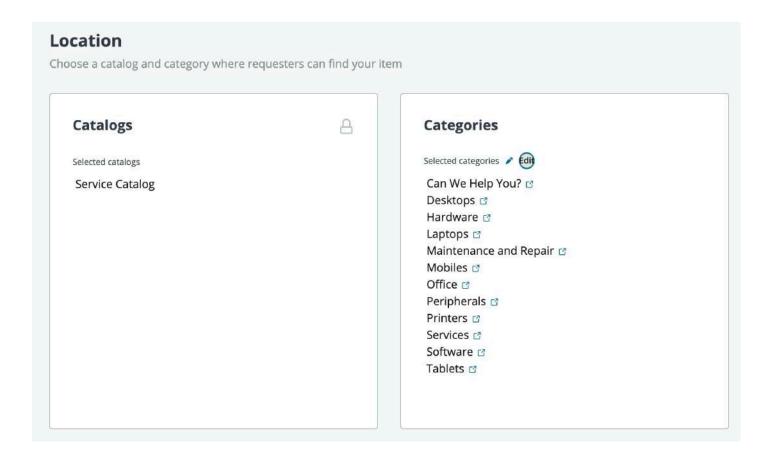
7. Fill out the Basic info and Item details.

Optional: Attach an image



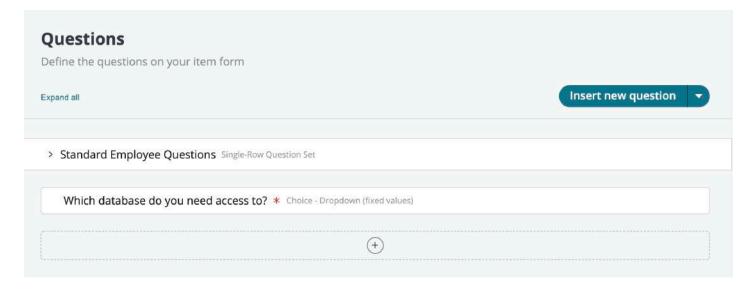
- 8. Click Location tab on the left menu or click Continue to Location at the bottom of the form.
- 9. The "Standard items in the Service Catalog" Template has all baseline Categories selected by default. A Catalog Item may appear in more than one Service Catalog and Category.

Optional: Click the Edit link on Categories and deselect some of the default Categories.



- 10. Click Questions tab on the left menu or click Continue to Questions at the bottom of the form.
- 11. By default, this item template includes the Standard Employee Questions Variable set for Requested for and Due date.

Optional: Add a few variables if desired.

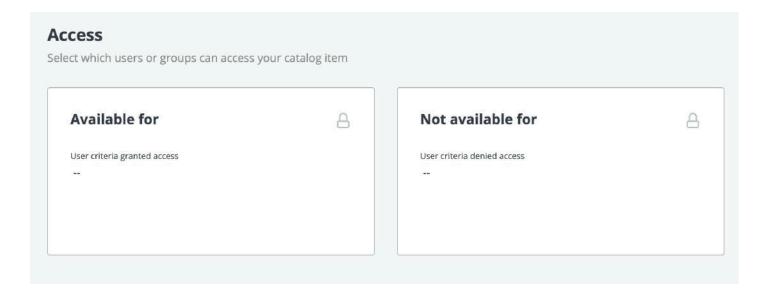


- 12. Click Settings tab on the left menu or click Continue to Settings at the bottom of the form.
- 13. On the Settings page, set basic configurations for the Catalog Item. Some of these may be read-only due to the Catalog Item Template configuration.

Optional: Configure additional settings for the Catalog Item.

- 14. Click Access tab on the left menu or click Continue to Access at the bottom of the form.
- 15. On the Access tab, define who is allowed (or not allowed) to see this item on the Access page.

The Catalog and Categories were configured on the Location tab, and may have existing User Criteria security rules. The Access configurations allow us to further restrict the visibility of this item. By default, this template doesn't allow the configuration of Access.



- 16. Click Fulfillment tab on the left menu or click Continue to Fulfillment at the bottom of the form.
- 17. On the Fulfillment page, select the process engine that facilitates the fulfillment of the request. Select "Service Catalog item request"

Our template restricts the selection only to Flow Designer Flows. For now, select "Service Catalog item request" as a placeholder until the new Flow is created in Exercise 3.

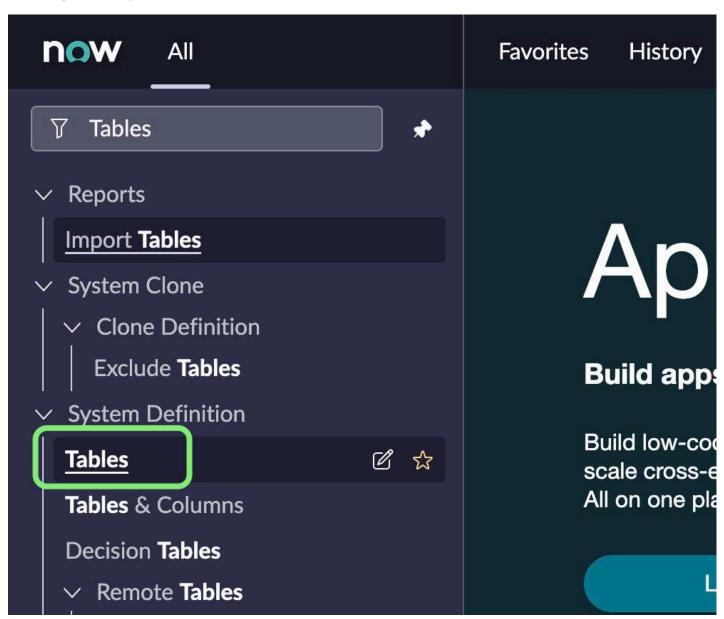
Fulfillment Select the fulfillment process that you would like to associate with this catalog item Fulfillment method Process engine Flow Designer flow Selected flow *

Service Catalog item request

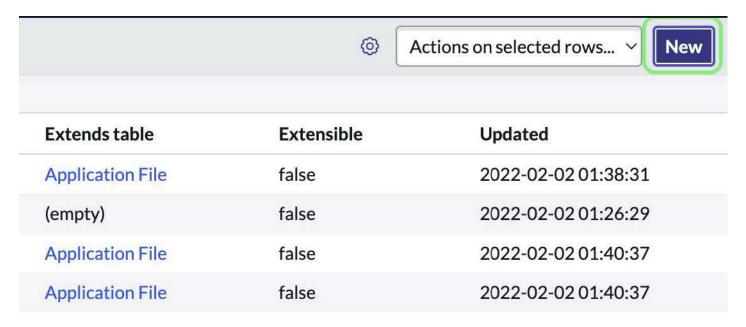
- 18. Click Review and Submit tab on the left menu or click Continue to Review and Submit at the bottom of the form.
- 19. Review the Catalog Item configurations and click Submit when done
- 20. Check point: Navigate to the Service Catalog and order the newly created Catalog Item

Exercise 2: Create a Data Lookup table

1. Navigate to System Definition > Tables



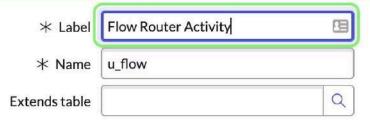
2. Click New



3. Label the Table "Flow Router Activity"

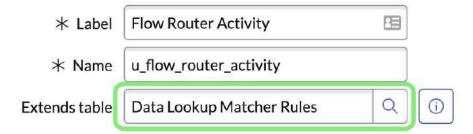
Name: (This value is automatically populated)

A table is a collection of records in the database. Each record corresponds to a row in a table, and each field on a recor processes. <u>More Info</u>



4. Select Data Lookup Matcher Rules for the Extends Table field

A table is a collection of records in the database. Each record corresponds to a row in a table, and each find processes. More Info



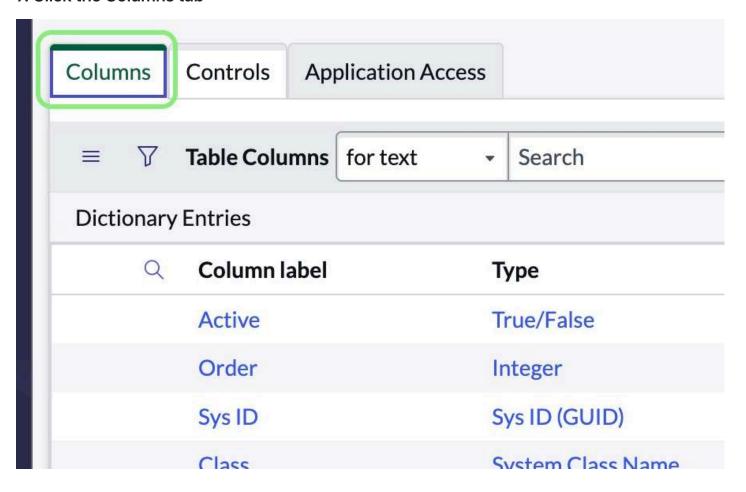
5. Click Service Catalog for the Add module to menu field

le, and each field on a record corresponds to a column o	on that table. Applications use tables and records to manage data and
Application	Global
Create module	
Create mobile module	
Add module to menu	
New menu name	Q service cal
	Service Catalog
	◎ -

6. On the Controls tab, replace the new user role with catalog_builder_editor

Columns	Controls	Application Access	
		Extensible	
		Live feed	
Use auto	-numbering t	to define a sequential	identifying code made up of a
	Auto	-number	
Security	Rules (ACLs)	are required if anyone	e other than an administrator
		ess controls <a>Controls <	_builder_editor

7. Click the Columns tab



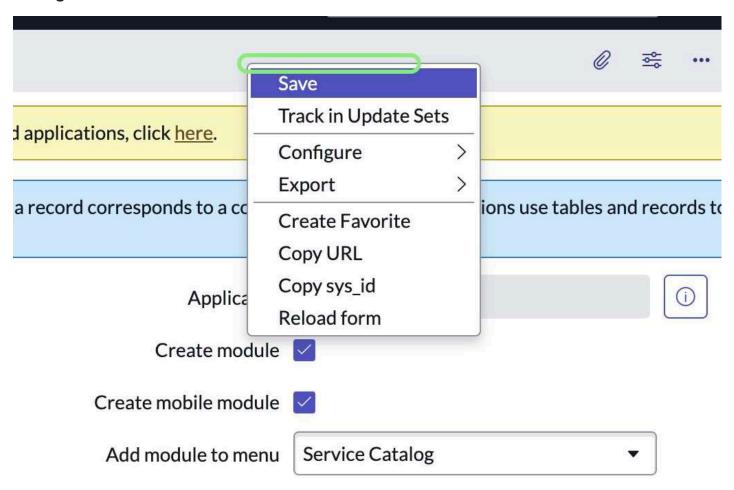
8. In the embedded list below add fields to the table.

Q	Column label	Туре	Reference	Max length		D
	Active	True/False	(empty)		40	tru
	Order	Integer	(empty)		40	10
	Sys ID	Sys ID (GUID)	(empty)		32	
	Class	System Class Name	(empty)		80	jav
	Created by	String	(empty)		40	
	Created	Date/Time	(empty)		40	
	Sys ID	Sys ID (GUID)	(empty)		32	
	Updates	Integer	(empty)		40	
	Display name	String	(empty)		255	
	Package	Reference	Package		32	
	Protection policy	String	(empty)		40	
	Application	Reference	Application		32	jav
	Updated by	String	(empty)		40	
	Updated	Date/Time	(empty)		40	
	Update name	String	(empty)		250	
	Sys ID	Sys ID (GUID)	(empty)		32	
	Insert a new row					

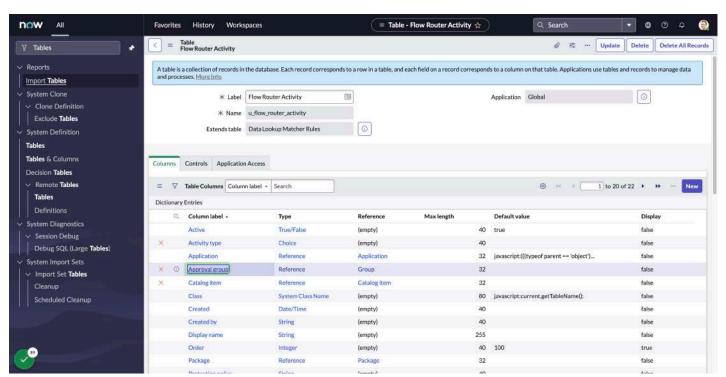
9. Add fields to the Table

Field name	Туре	Other Attributes
Catalog item	Reference	Reference: Catalog Item [sc_cat_item]
Activity type	Choice	
Approval group	Reference	Reference: Group [sys_user_group]
Task short description	String	Max length: 160
Task description	String	Max length: 4000
Task assignment group	Reference	Reference: Group [sys_user_group]

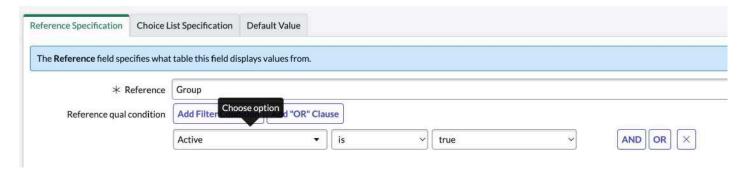
10. Right click the form header and click Save



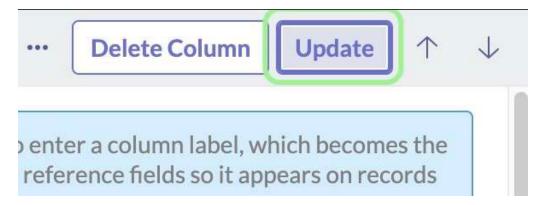
11. Click Approval group



12. Set the Reference qual condition to Active is true



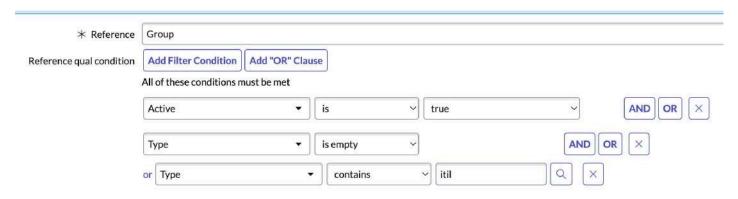
13. Click Update



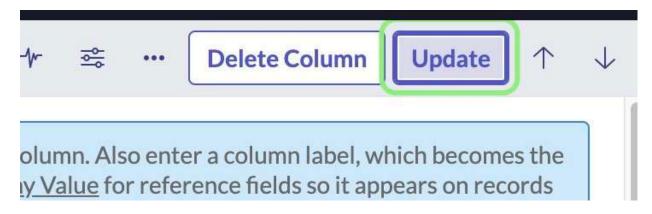
14. Click Task assignment group



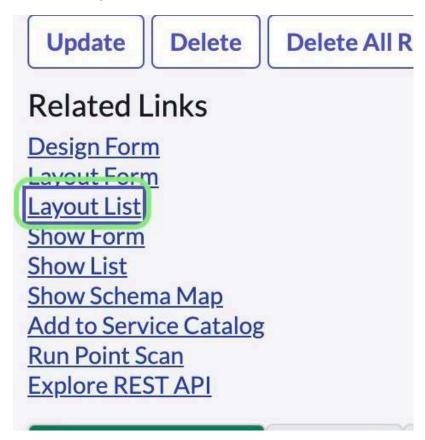
15. Set the Reference qual condition to Active is true and Type is empty or Type contains itil



16. Click Update



17. Click Layout List



18. Edit the list to include the following fields at a minimum:

- Active
- Order
- · Activity type
- · Catalog item
- Updated
- · Updated by

NOTE: It is important that a non-reference field (like Active or Activity type) is the first element in the list, instead of something like Catalog item, otherwise list navigation is confusing.



Create new field

20. Click Design form

Related Links

Design Form

Layout Form

Layout List

Show Form

Show List

Show Schema Map

Add to Service Catalog

Run Point Scan

Explore REST API

21. Adjust the layout of the form.

Main section, 2 Columns

Column 1

- · Catalog item
- Activity type

Column 2

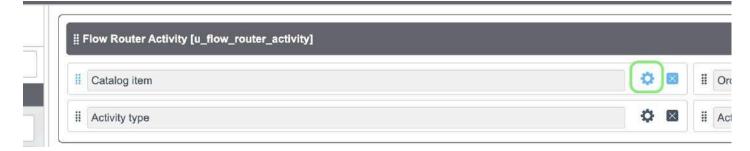
- Order
- Active

Section 2, 1 Column

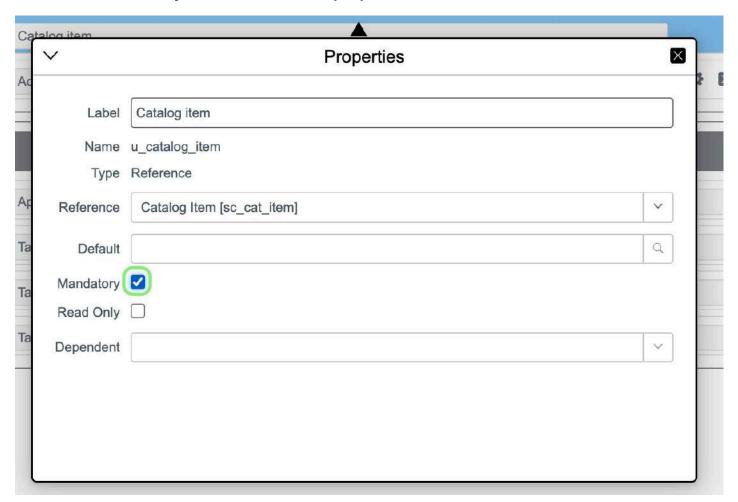
- Approval Group
- Task short description
- Task assignment group
- · Task description



22. Click the gear icon for the Catalog item field



23. Check Mandatory and close the field properties



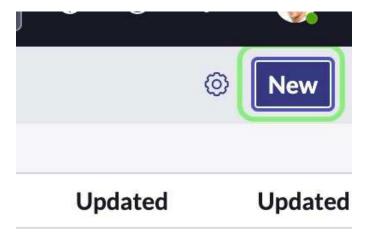
24. Click Save



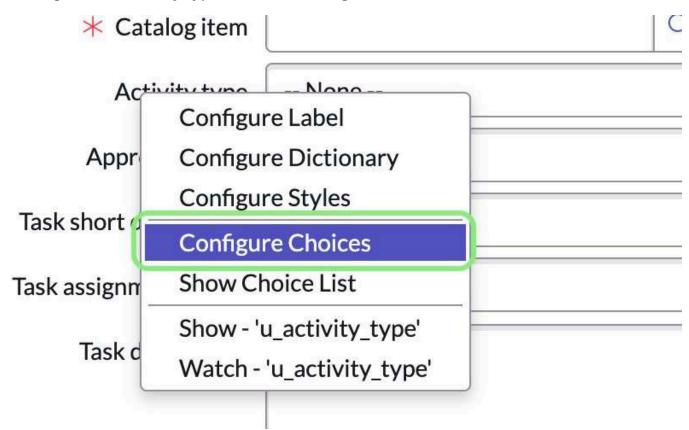
25. Click Show List



26. Click New

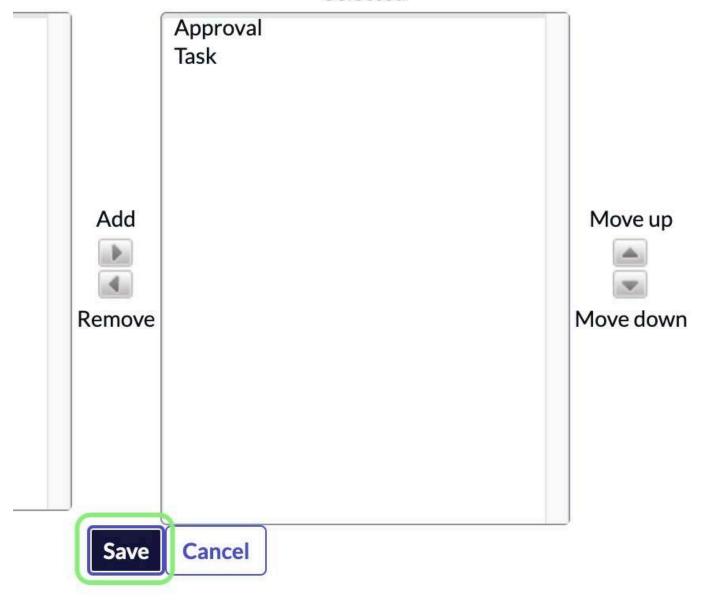


27. Right click Activity type and click Configure Choices



28. Add Approval and Task as options. Click Save

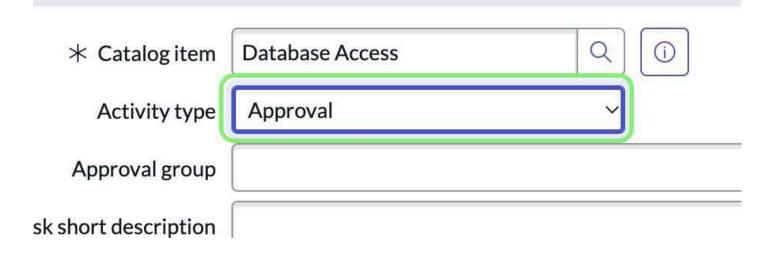
Selectea



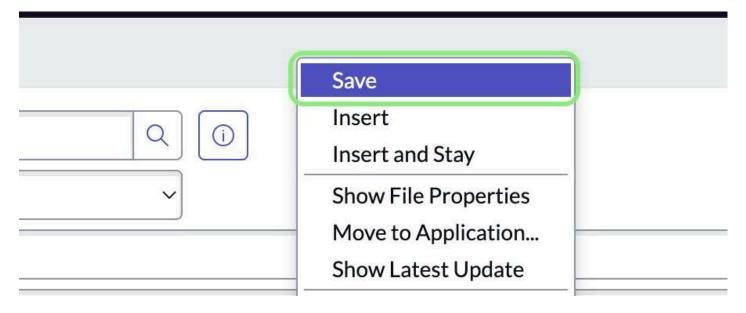
29. Enter the Catalog Item created in Exercise 1



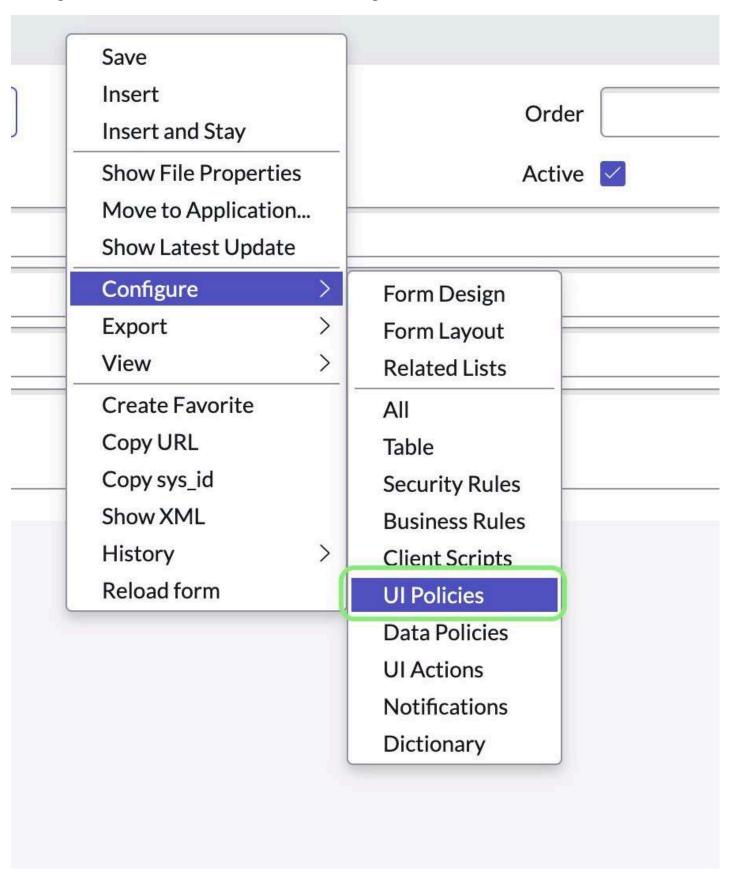
30. Select Approval from Activity type



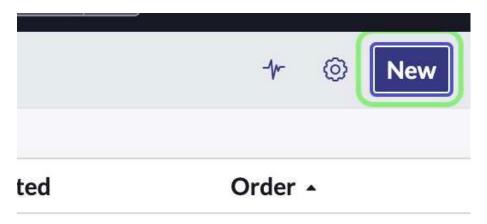
31. Right click the form header and click Save



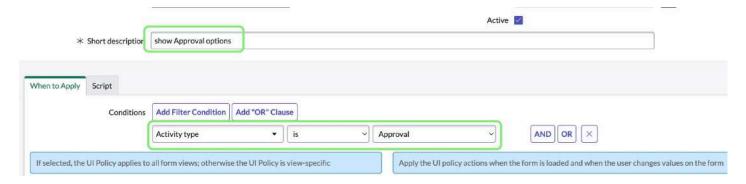
32. Right click the form header and click Configure > UI Policies



33. Click New



34. Set the Short description and Condition



35. Right click the form header and click Save



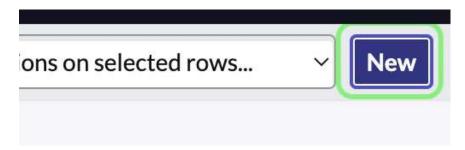
36. Add a UI Policy Action for Approval Group

Mandatory: true

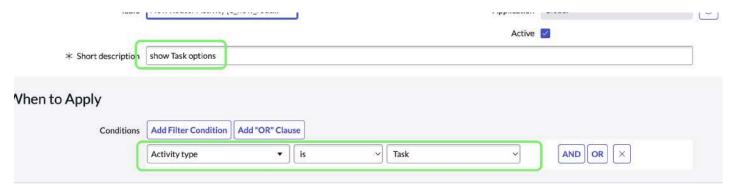
Visible: true



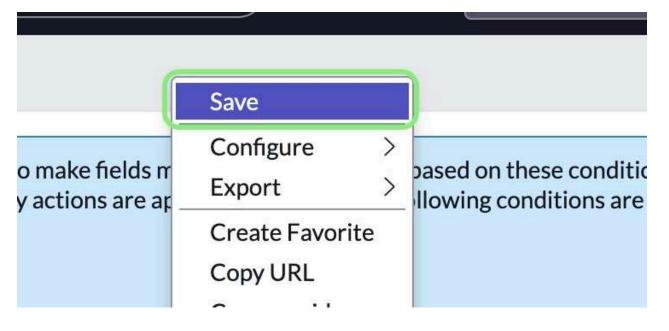
37. Navigate back to the list of UI Policies and click New



38. Set the Short description and Condition



39. Right click the form header and click Save



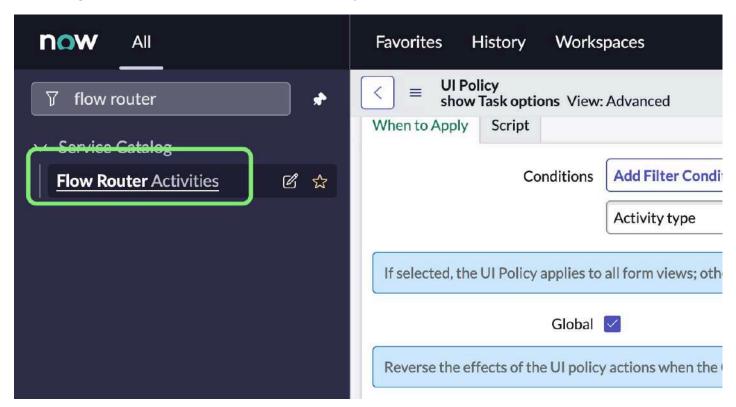
40. Add UI Policy Actions for the Task fields

Mandatory: true

Visible: true



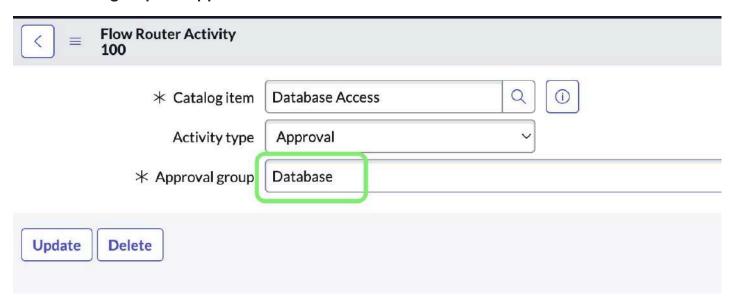
41. Navigate back to the Flow Router Activity table



42. Open the record in the list

All					
	Active	Order -	Catalog item	Activity type	Approval group
	true	100	Database Access	Approval	(empty)

43. Select a group for Approval



44. Click Update



45. Add two additional Flow Router Activities

Activity type: Task

Ensure the order is incremented for each new step.

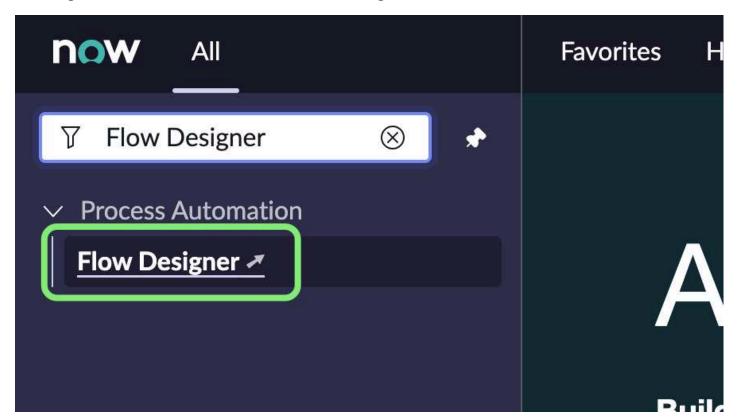


46. Check point: There are now three activities in the Flow Router Activity table.

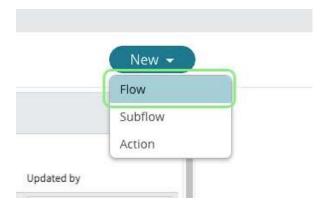


Exercise 3: Create a Dynamic Data-Driven Flow

1. Navigate to Process Automation > Flow Designer

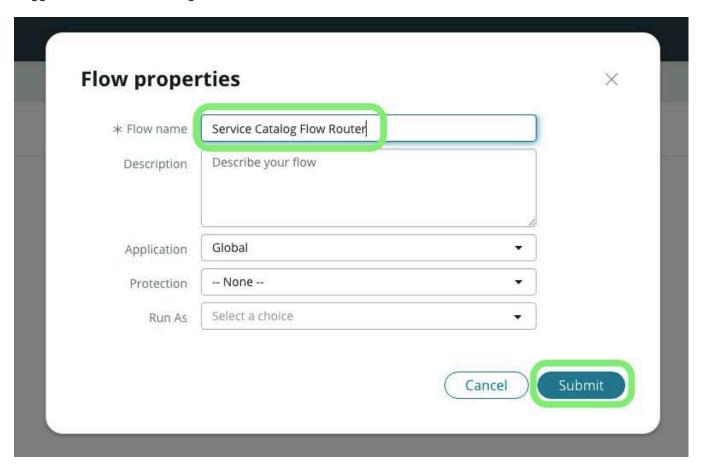


2. Click New > Flow



3. Name the Flow. Click Submit.

Suggestion: "Service Catalog Flow Router"



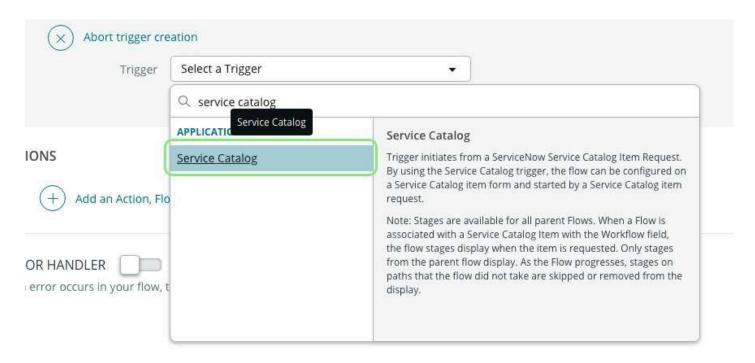
4. Click Add a trigger



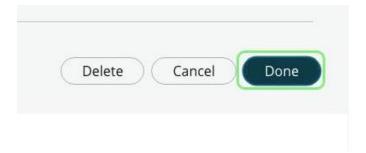


ACTIONS

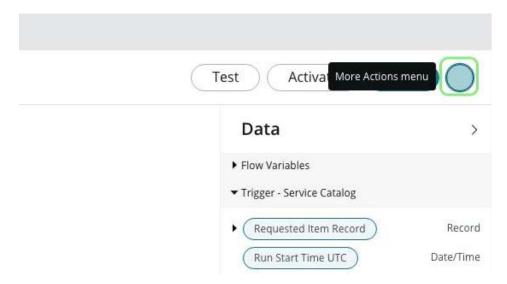
5. Click Service Catalog



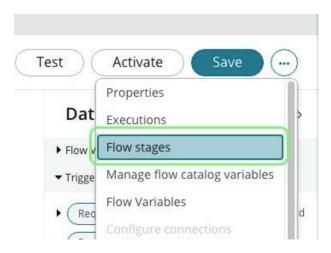
6. Click Done



7. Click More Actions menu

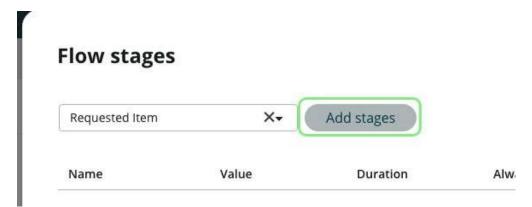


8. Click Flow stages



9. Click Requested Item and click Add stages.

This action copies the common RITM Flow stages to this Flow.

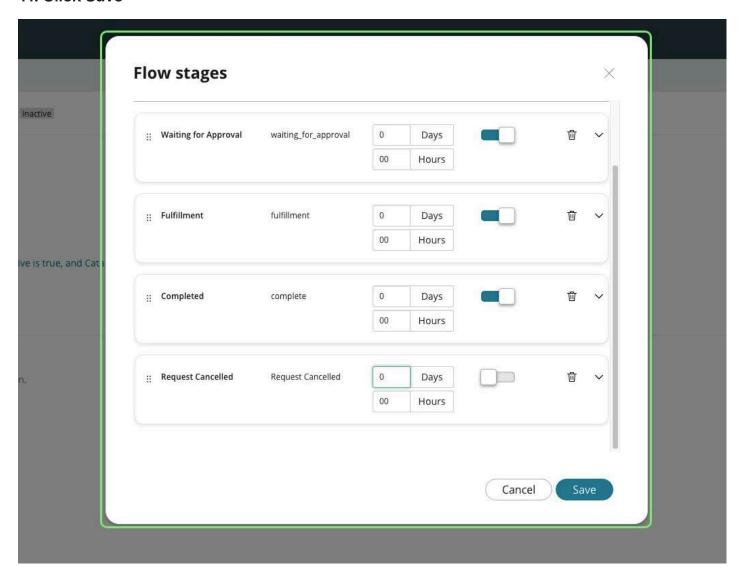


10. The system displays the Stages to the end user in the order that the records are displayed on this screen.

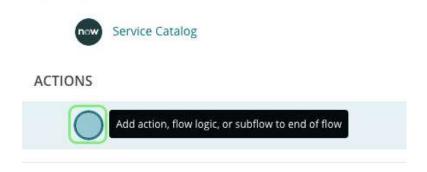
This flow uses the Waiting for Approval, Fulfillment, Completed, and Request Cancelled stages. Adjust the following:

- Drag and drop the stage order to be more logical.
- Default the Days value to 0.
- Turn off "Always show" for the Request Cancelled stage.
- Delete the Request Approved and Delivery stages.

11. Click Save



12. Click Add action, flow logic, or subflow to end of flow.



13. Click Action



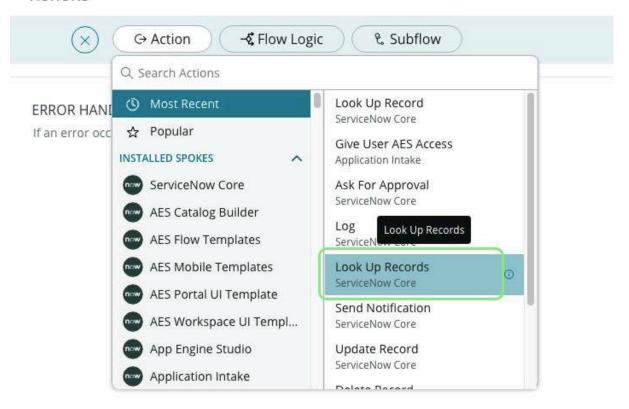
ACTIONS



14. Click Look Up Records...

NOTE: There are two Look up Actions, select the plural action that looks up multiple records.

ACTIONS

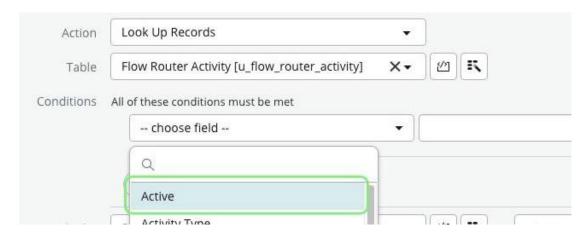


15. Click Flow Router Activity as the table



16. Add conditions to filter the search to the relevant Flow Router records

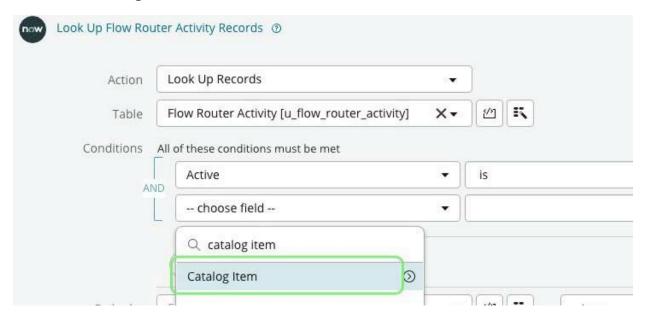
17. Set Active is true



18. Click AND

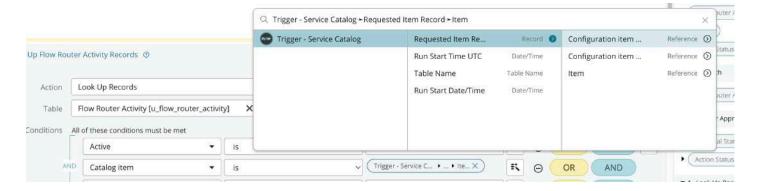


19. Click Catalog Item

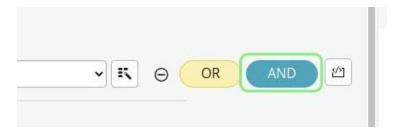


20. Drag the Trigger - Service Catalog > Requested Item Record > Item from the Data pane

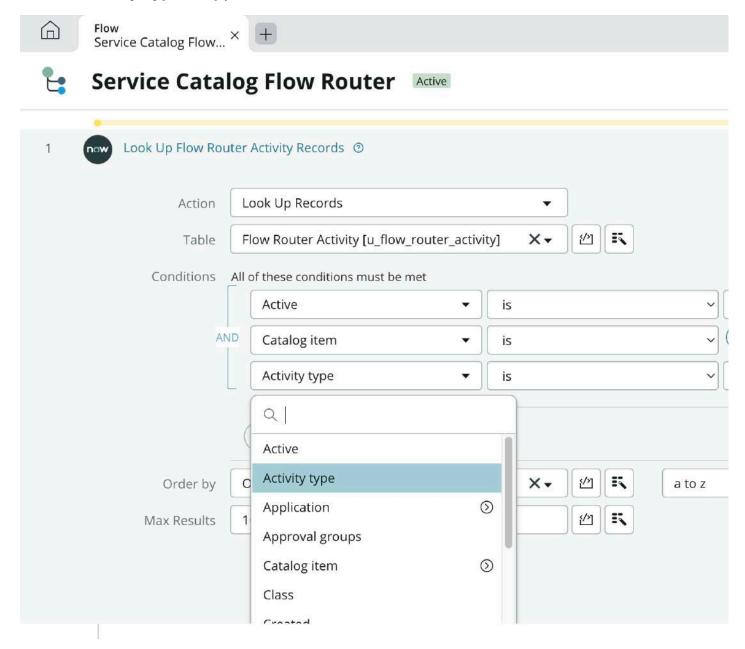
Alternatively, access data pills by clicking on the wand icon to the left of the condition. This displays a filter-like interface with multiple panes for referential data.



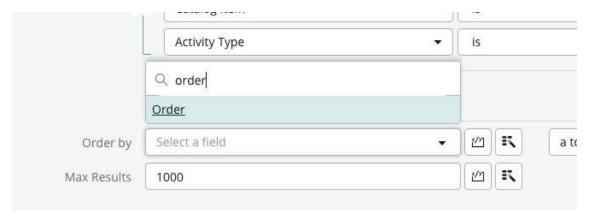
21. Click AND



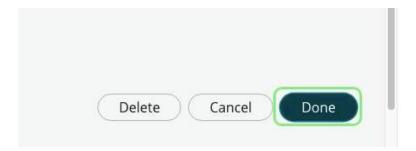
22. Set Activity Type is Approval



23. In the Order field, click Order.



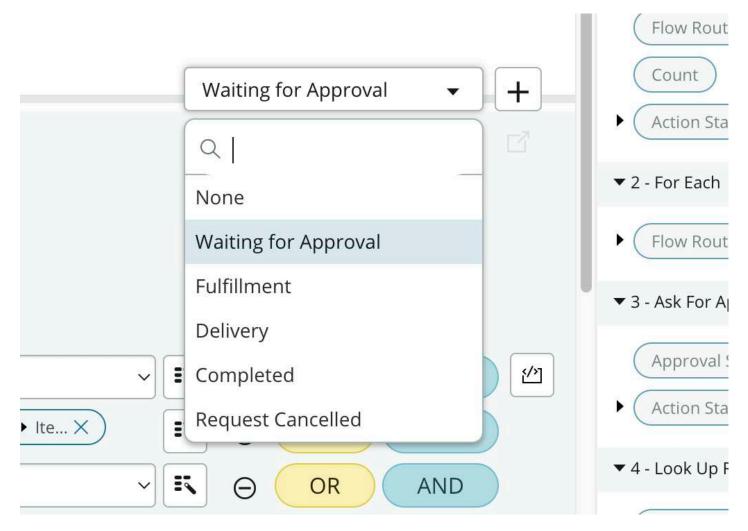
24. Click Done



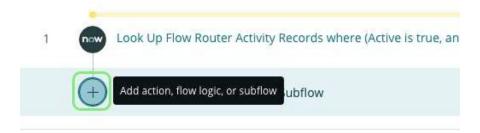
25. Hover just over the Look Up Records Action until an "Add a stage" line appears.



26. Click Waiting for Approval



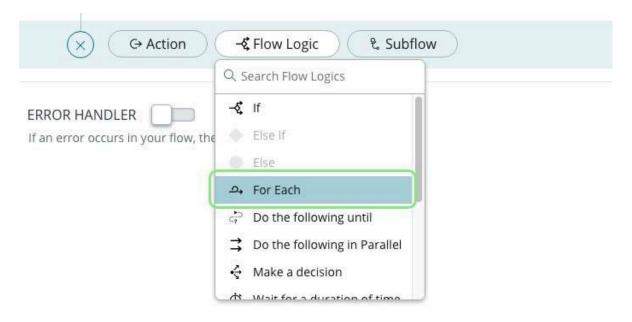
27. Click Add action, flow logic, or subflow



28. Click Flow Logic



29. Click For Each



30. Drag Step 1 > Flow Router Activity Records to the Items.

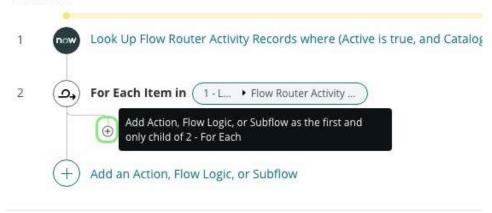


31. Click Done



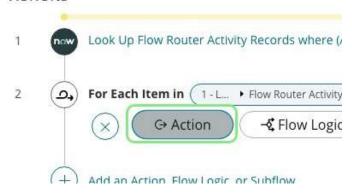
32. Click Add Action, Flow Logic, or Subflow as a subpath of 2 - For Each

ACTIONS

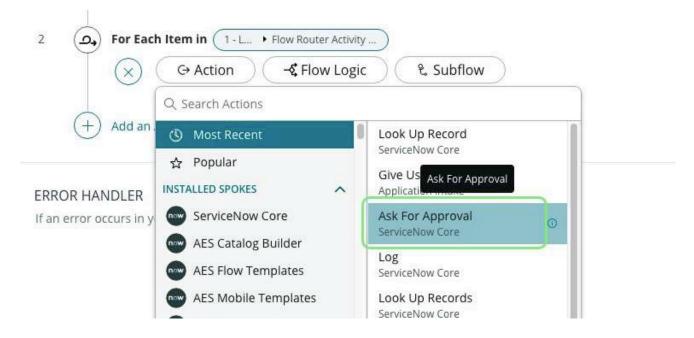


33. Click Action

ACTIONS



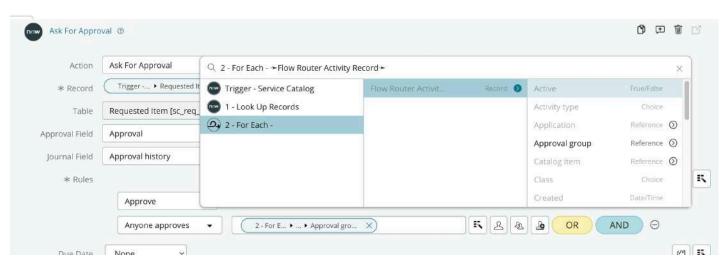
34. Click Ask For Approval



35. Drag the Trigger - Service Catalog > Requested Item Record > Item from the Data pane into the Record field



36. Drag 2 - For Each - Flow Router Activity Record > Approval group into the value for Anyone approves.



37. Click Done



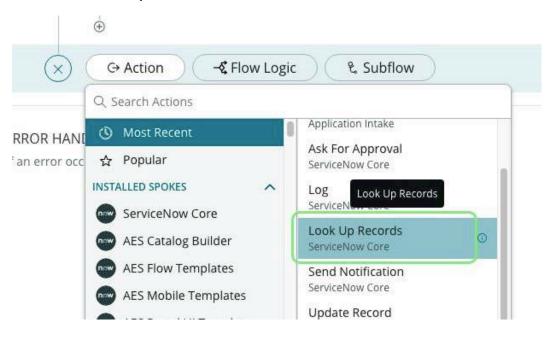
38. Click Add action, flow logic, or subflow



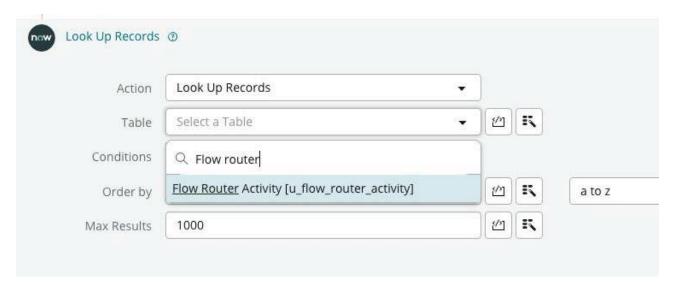
39. Click Action



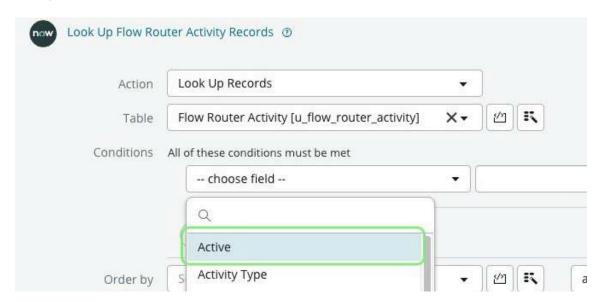
40. Click Look Up Records...



41. Click Flow Router Activity as the table



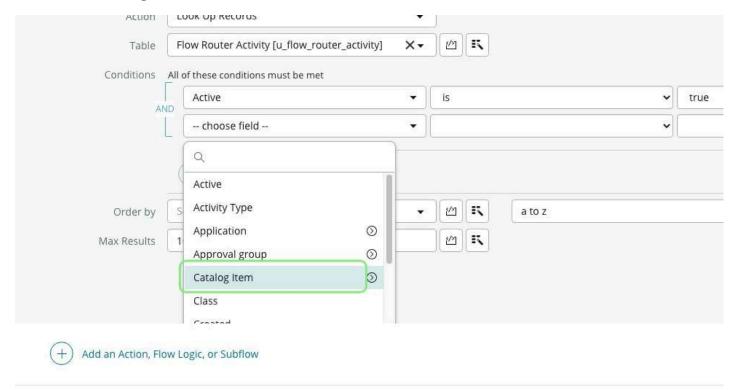
42. Set Active is true



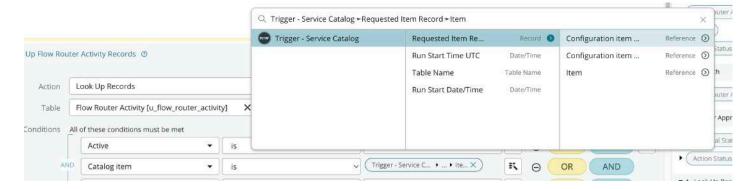
43. Click AND



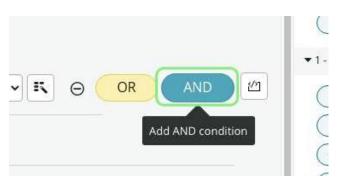
44. Click Catalog Item



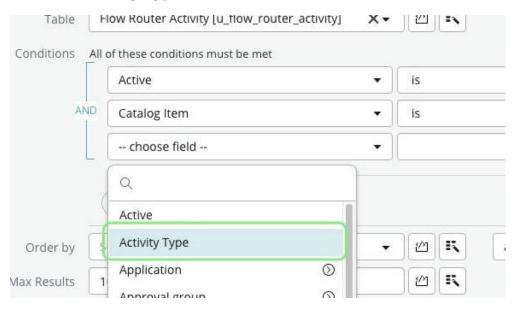
45. Drag the Trigger - Service Catalog > Requested Item Record > Item from the Data pane



46. Click AND



47. Click Activity Type



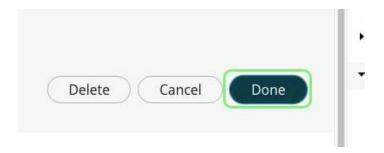
48. Click Task



49. In the Order field, click Order.



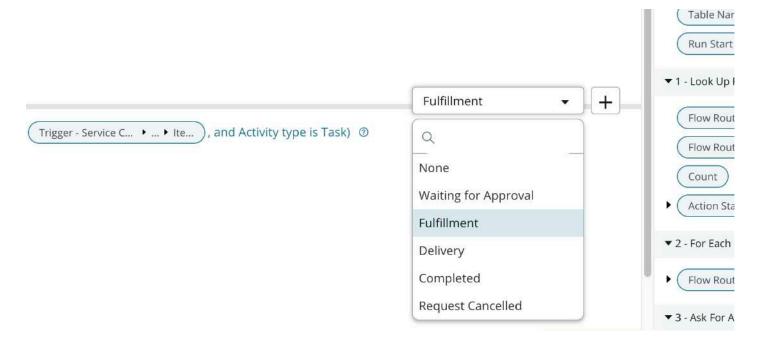
50. Click Done



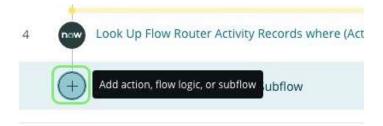
51. Click Add a Stage



52. Click Fulfillment



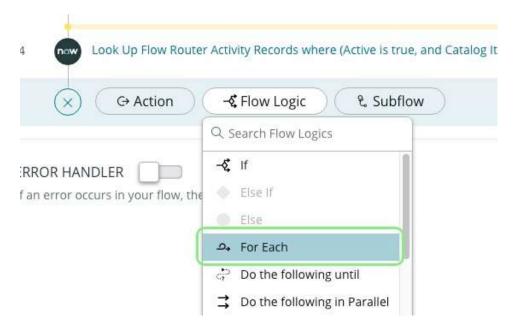
53. Click Add action, flow logic, or subflow



54. Click Flow Logic



55. Click For Each



56. Drag Step 4 > Flow Router Activity Records to the Items.



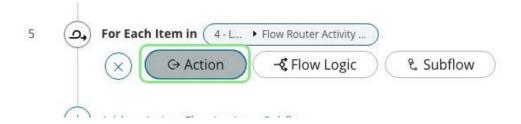
57. Click Done



58. Click Add Action, Flow Logic, or Subflow as a subpath of 5 - For Each

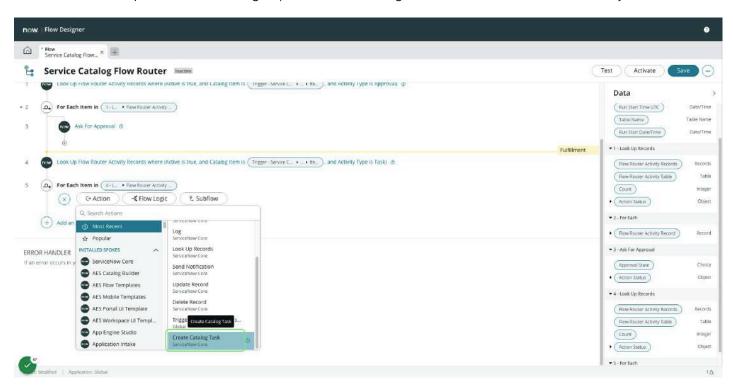


59. Click Action



60. Click Create Catalog Task...

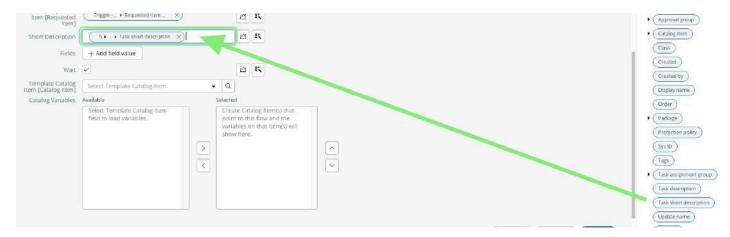
Flow Designer provides several actions that can be used to create a Catalog Task, such as Create Record or Create Task. While these options work to a degree, the Create Catalog Task action is best the tool for the job.



61. Drag the Trigger - Service Catalog > Requested Item Record > Item from the Data pane into the Requested Item field



62. Drag 5 - For Each - Flow Router Activity Record > Task short description

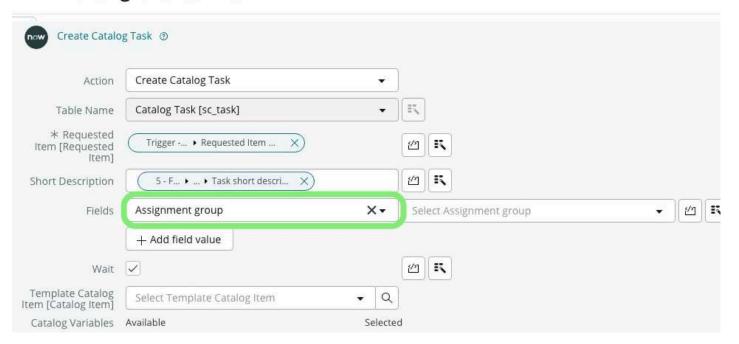


63. Click Add field value

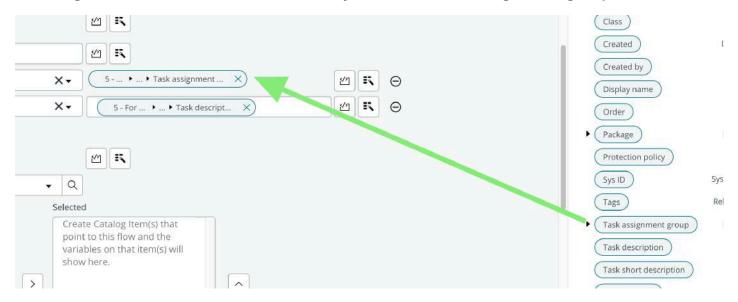


64. Click Assignment group

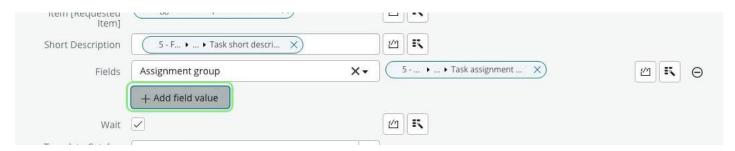
ervice Catalog Flow Router Inactive



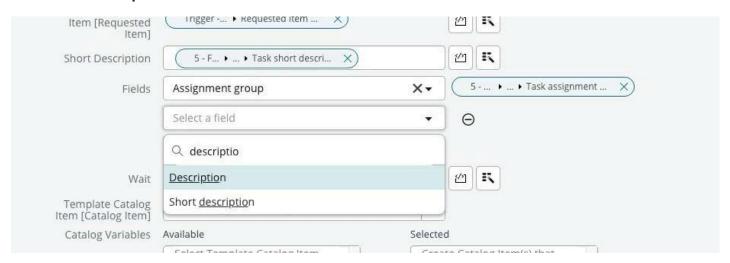
65. Drag 5 - For Each - Flow Router Activity Record > Task assignment group



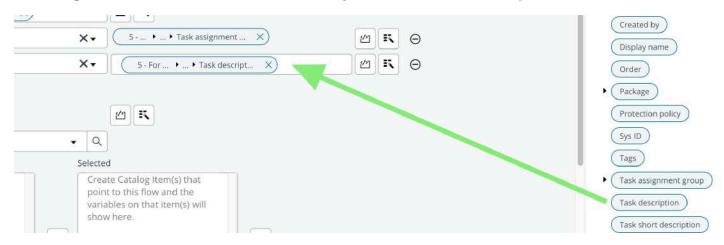
66. Click Add field value



67. Click Description



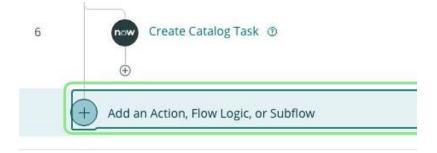
68. Drag 5 - For Each - Flow Router Activity Record > Task description



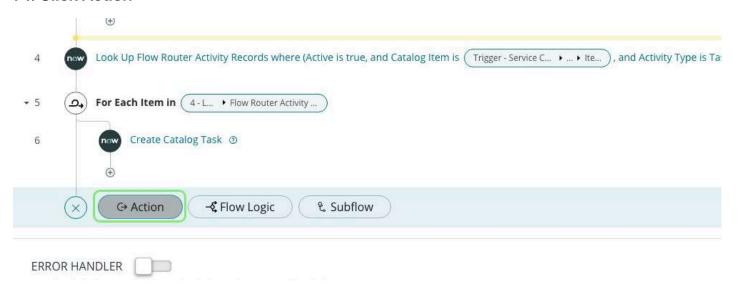
69. Click Done



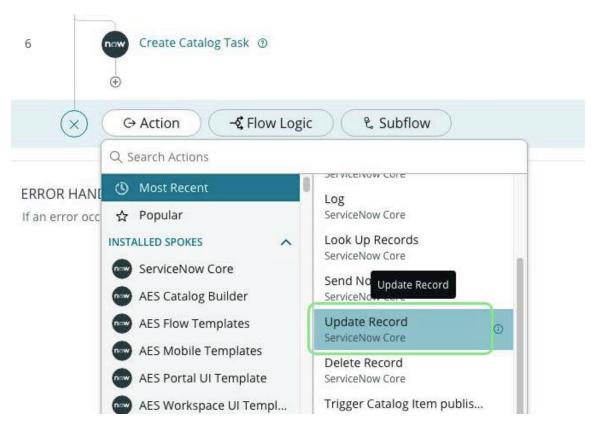
70. Click Add an Action, Flow Logic, or Subflow



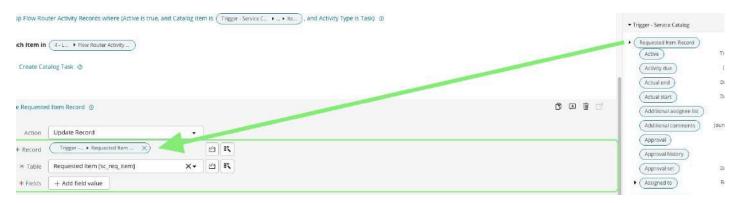
71. Click Action



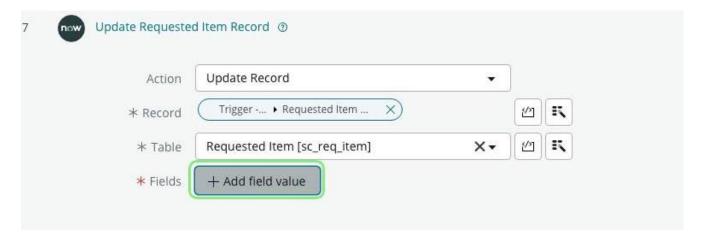
72. Click Update Record...



73. Drag highlighted link

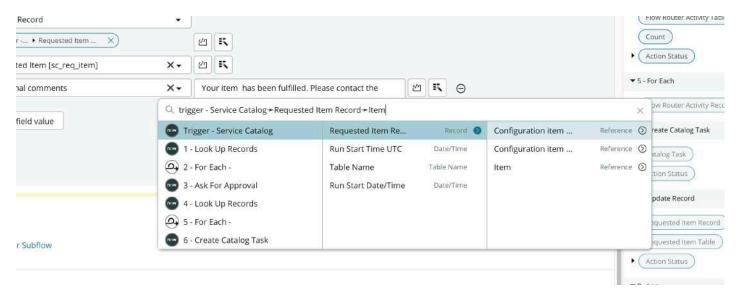


74. Click Add field value

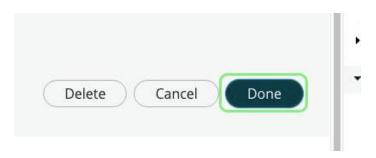


75. Add a comment to send to the end user upon completion for the RITM. Use Data Pill values to make the comment dynamic.

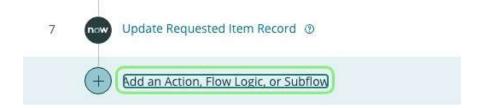
Example comment: Your Item (Data pill: Trigger - Service Catalog > Requested Item Record > Item) was fulfilled. Please contact the Service Desk for any questions.



76. Click Done



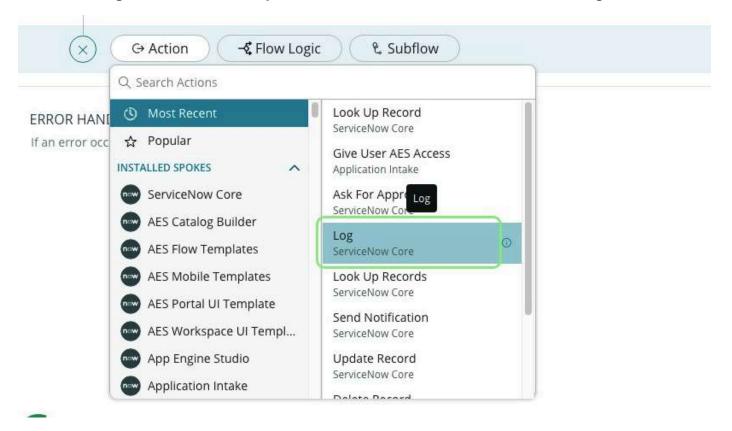
77. Click Add an Action, Flow Logic, or Subflow



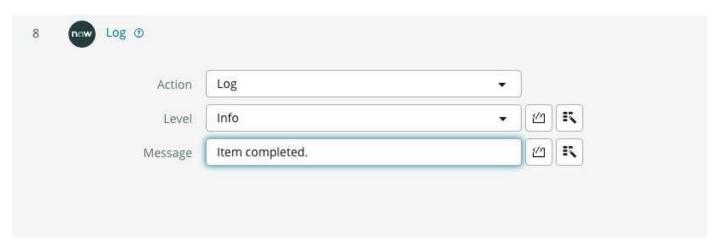
78. Click Action



79. Add a Log action for a final "placeholder" to associate with the last Stage.



80. Add a message.



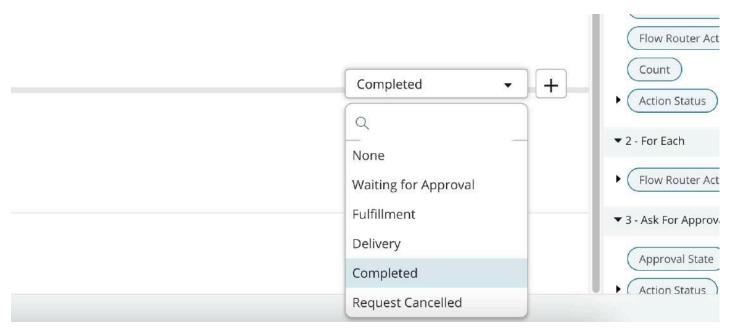
81. Click Done



82. Click Add a Stage above Step 8



83. Click Completed



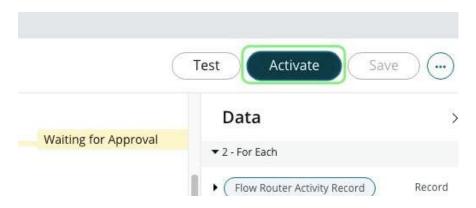
84. Testing on Catalog Flows can be performed several different ways.

In the following Exercise, it is helpful to have a freshly submitted RITM every time a test is executed. The Flow must be active to apply when a new Catalog Item is ordered.

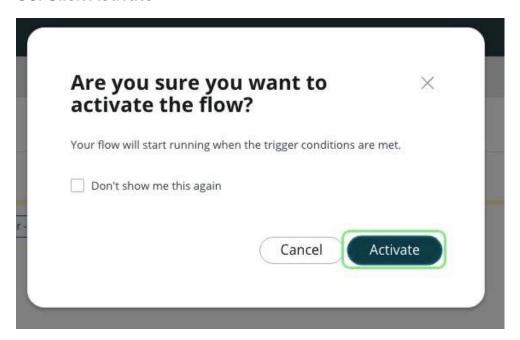
The built-in Flow Designer Test functionality is very powerful and records helpful data for troubleshooting. The system property to enable the logging of runtime data is turned off by default. Check out this ServiceNow Docs article for more information: Activate flow reporting

Important: To avoid performance issues in a production instance, activate and configure reporting on the non-production instance that is used for testing.

85. Click Activate

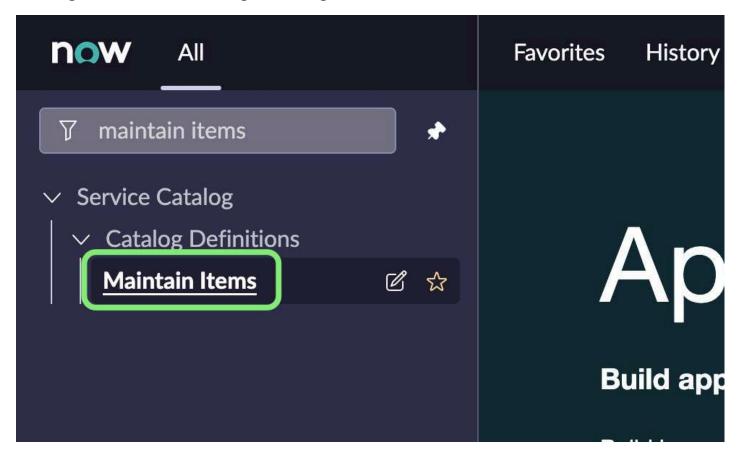


86. Click Activate



Exercise 4: Test the end-to-end process

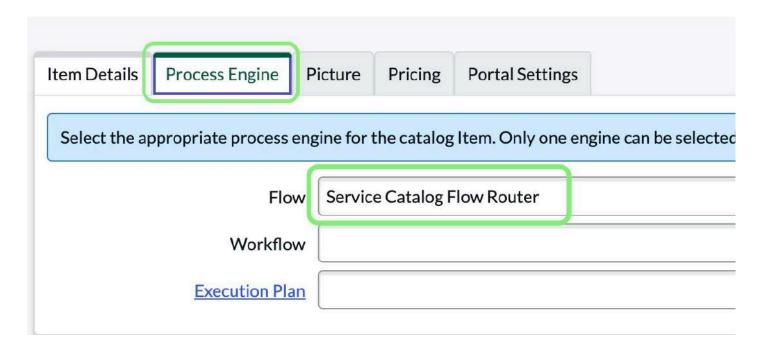
1. Navigate to Service Catalog > Catalog Definitions > Maintain Items



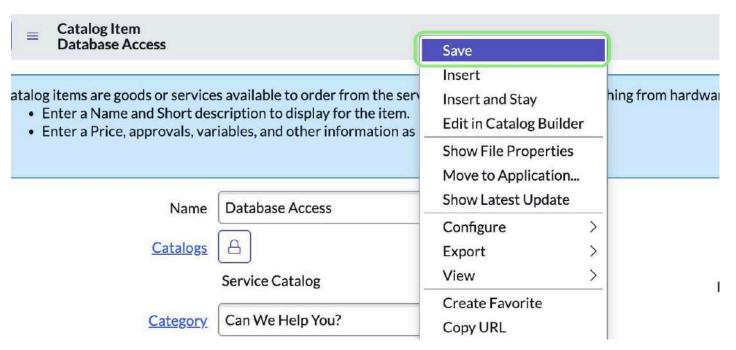
2. Open the Catalog Item created in Exercise 1.



3. On the Process Engine Tab, change the flow to the new Flow created in Exercise 3.

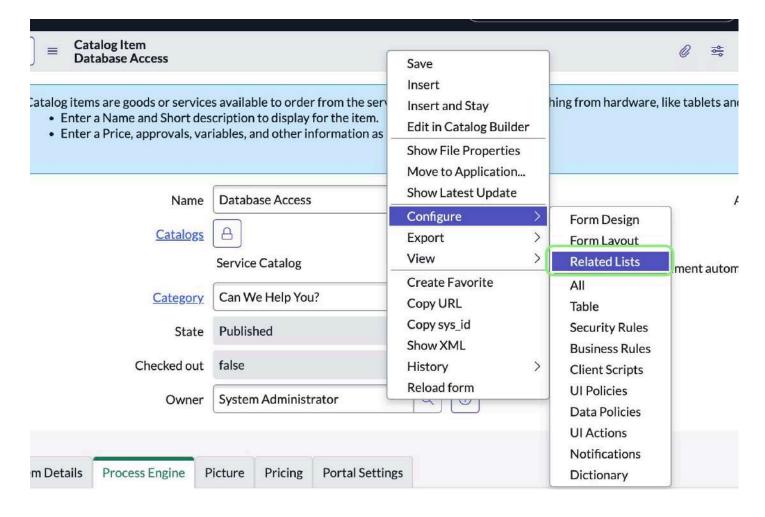


4. Right click the form header and click Save

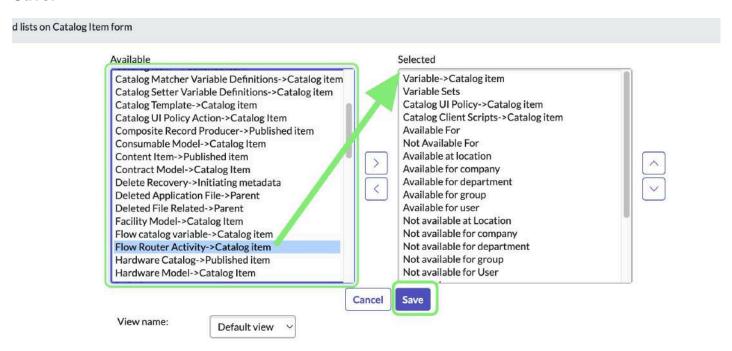


5. Right click the form header and click Configure > Related Lists

Add the related list of Flow Router Activities so that the activities specific to this Catalog Item can be shown in context.



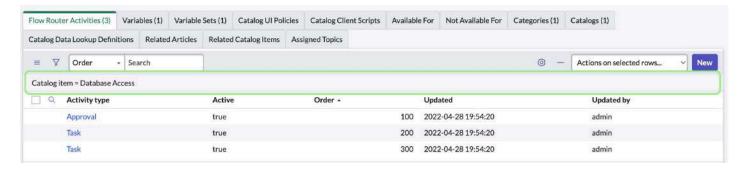
6. Locate the Flow Router Activity List, add it to the top of the Selected lists, and click Save.



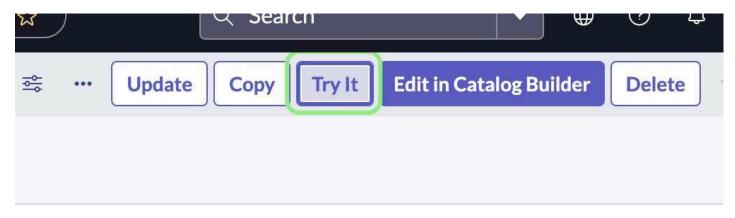
ed Links

7. Check point: Are the Flow Router Activities created in Exercise 2 present in the related list?

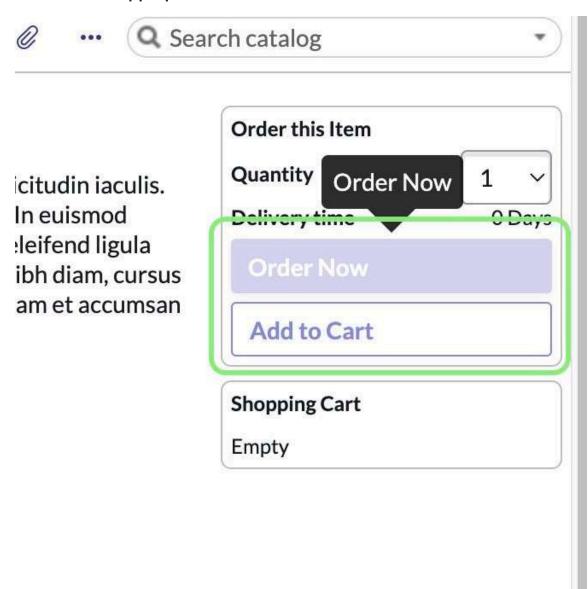
If not, navigate back to the Flow Router Activity table and ensure that the records are associated to the correct Catalog Item.



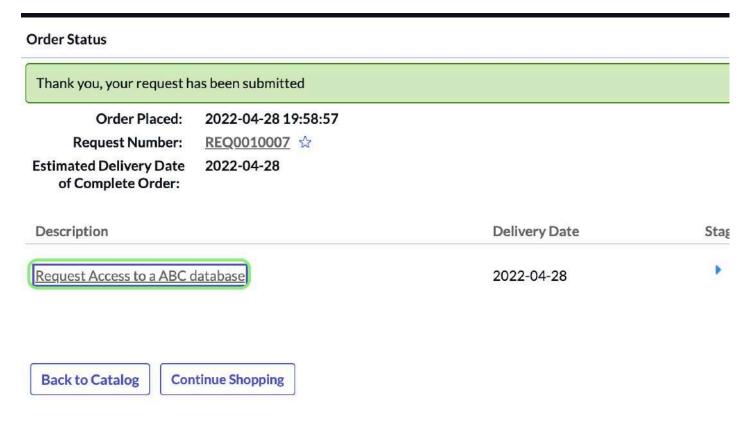
8. Click Try It



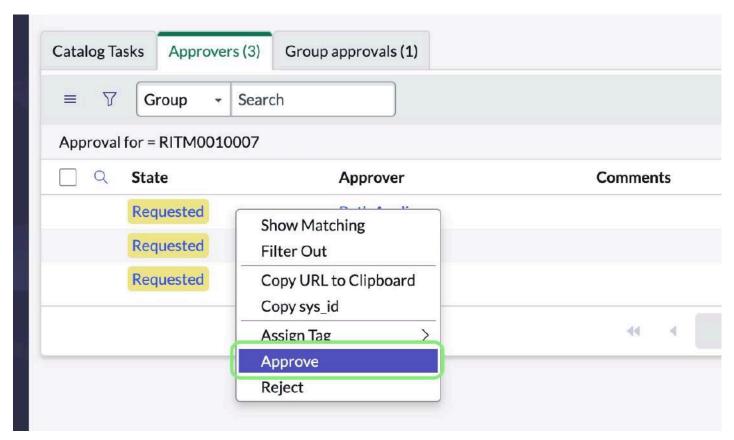
9. Fill out the appropriate variables and click Order Now...



10. From the Checkout screen, click the Requested Item.



11. On the Approvals related list, Approve on behalf of one of the Approvers.



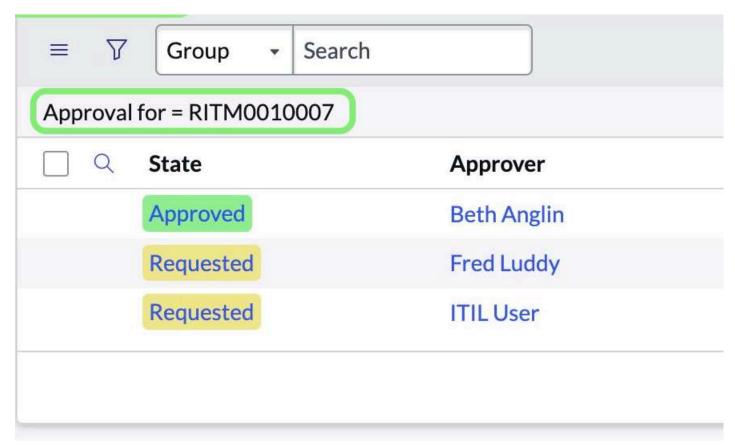
12. NOTE: Unlike legacy Workflows, Flows run asynchronously in the background

This means that actions are queued up and processed in the background without making the end-user wait for completion.

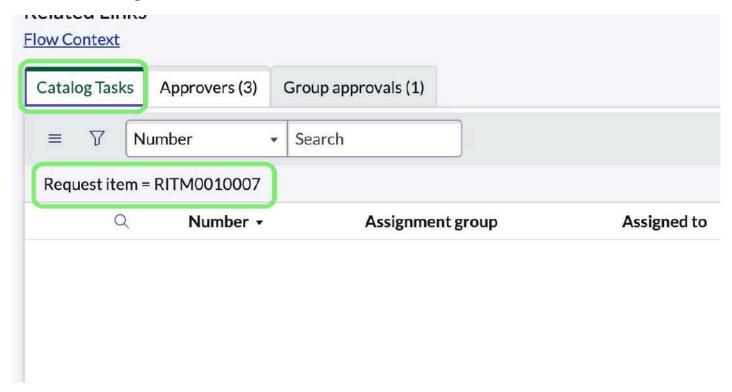
While testing, tasks are commonly completed in rapid succession. This may be a bit cumbersome for us today, this is almost always faster than in the practice. Processing work asynchronously helps the overall system performance.

If the tasks are completed faster than the system executes the flow, refresh the RITM to see the next step in the process.

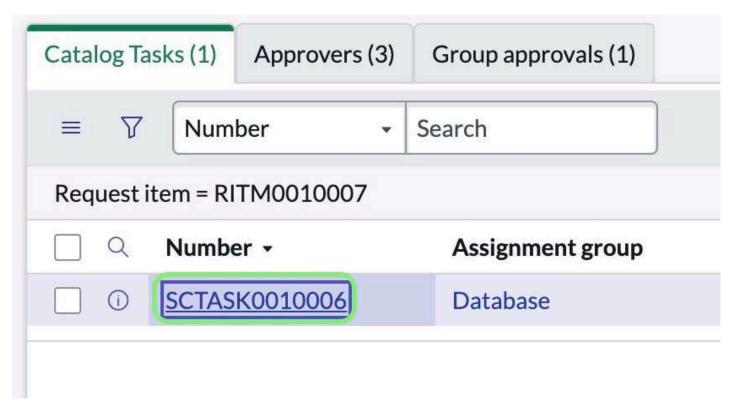
Beth Anglin's Approval is complete in the example below, but the system has not marked the other Approvals No Longer Required. Click the breadcrumb to refresh the related list to reveal if the other approvals have been updated.



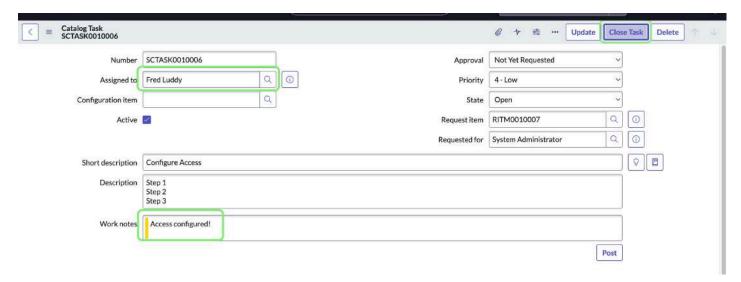
13. Click Catalog Tasks and click the breadcrumb to refresh the list.



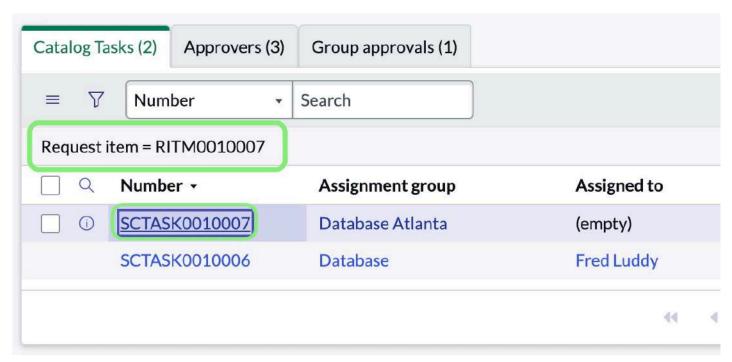
14. Open the task record.



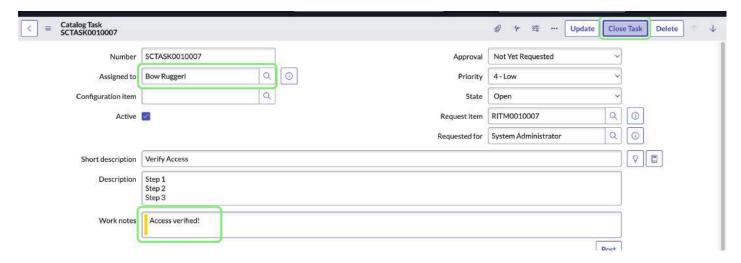
15. Assign the task, make a work note and click Close Task



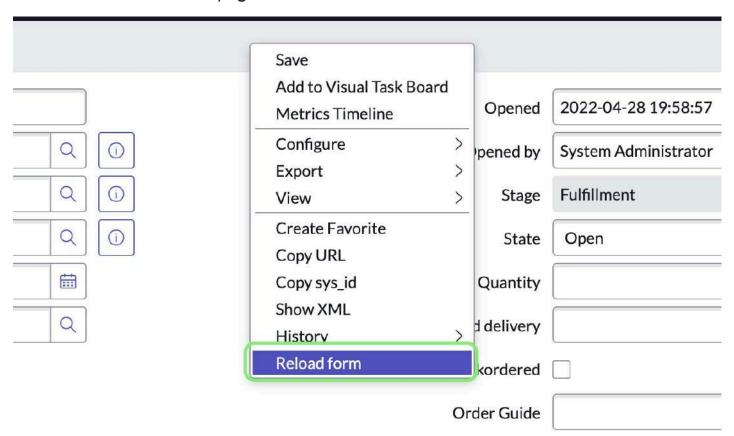
16. Click the breadcrumb to refresh the Catalog Task list. Open the second task record.



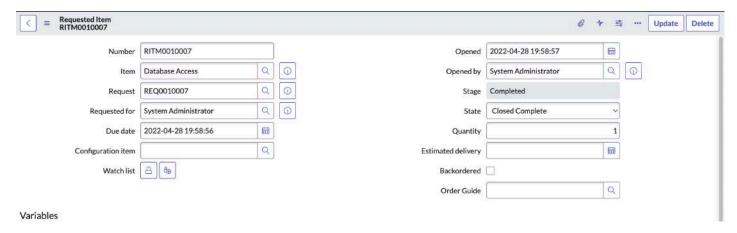
17. Assign the task, make a work note and click Close Task



18. Back on the RITM form, right click the form header and click Reload form

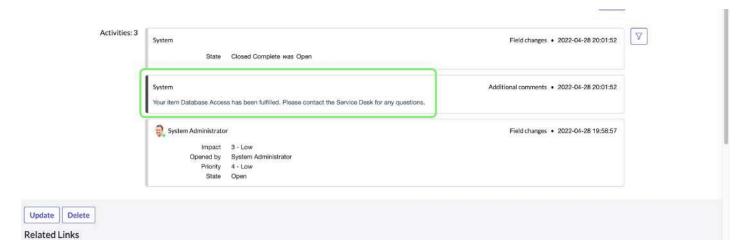


19. Notice the Stage has been set to Completed, the State to Close Conplete.



20. Check point: Does the Comment look like the one in the image?

Where was this comment configured in Exercise 3? What could be wrong? Take a stab at correcting it and order the Catalog Item again to see if you are correct.



21. Congrats! You are done!