

PUBLIC

# **Deep dive into SAP Cloud Platform Workflow Management – Restart Workflow**

## **DEV-264**

Exercises / Solutions  
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SAP Cloud Platform Workflow Management has Process Visibility capability, enable Process Owners / Process Operators to gain real time insights into processes and insight to actions. In this document you will learn how to model workflows, use as actions in Process Visibility to trigger these workflows based on process status by system or user.

## INSIGHT TO ACTION

Processes change their status based on different situations like delays, SLA violation or technical failures. Some of this status changes require system centric actions and others require user centric actions. Process Visibility enable you to define both system and user centric actions based on process status. Please see [help portal](#) for more details.

### System Triggered Action

Process visibility triggers actions when process status changes like (Failed, Suspended, Overdue or at Risk). Pre-configured workflow is triggered, and the workflow can do appropriate steps like notifying process administrators or creating a service ticket.

### User Triggered Action

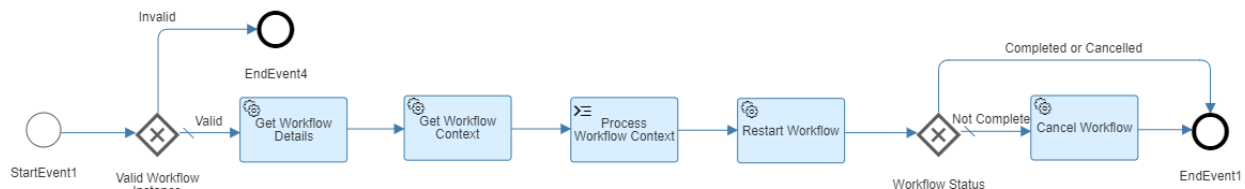
User triggered actions will be enabled when the process reach the preconfigured state and a user can trigger this action from process visibility. For eg: The process has exceeded the cycle time or at Risk or suspended or Failed.

### Prerequisite

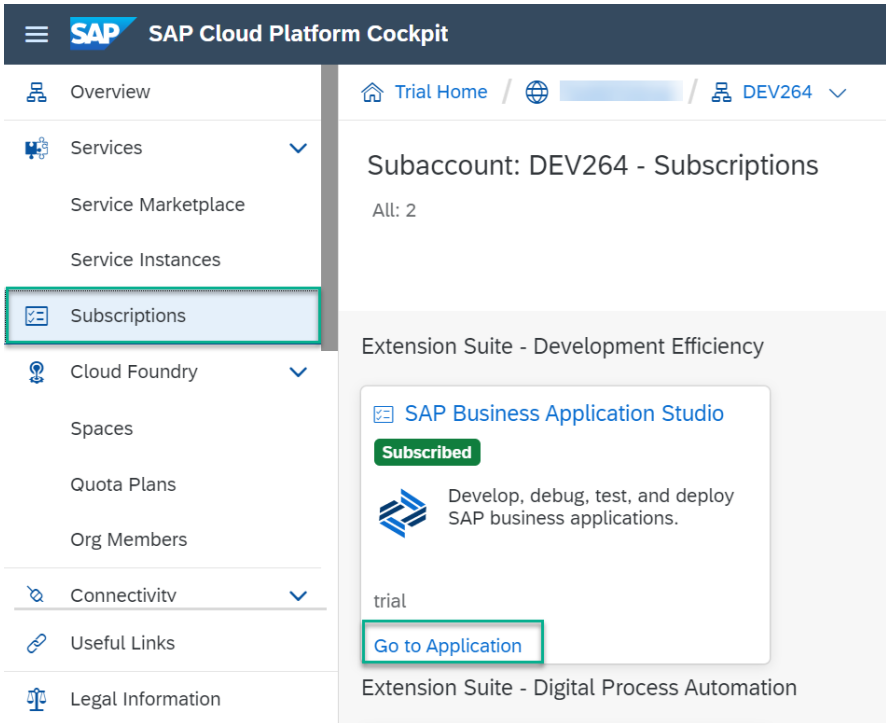
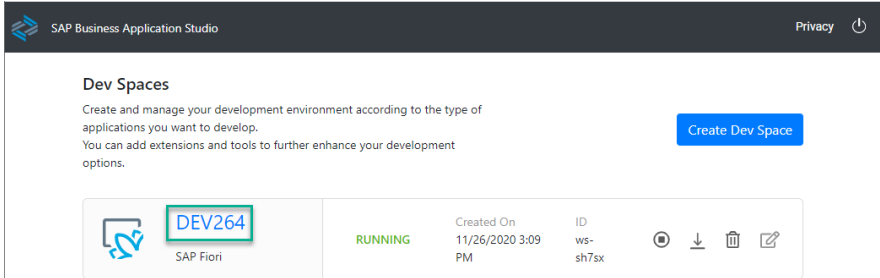
You have already configured your SAP Business Application Studio Workspace and Created the Investment Approval Workflow. Please refer [Model Workflow guide](#) how to build and deploy Investment Approval Workflow.

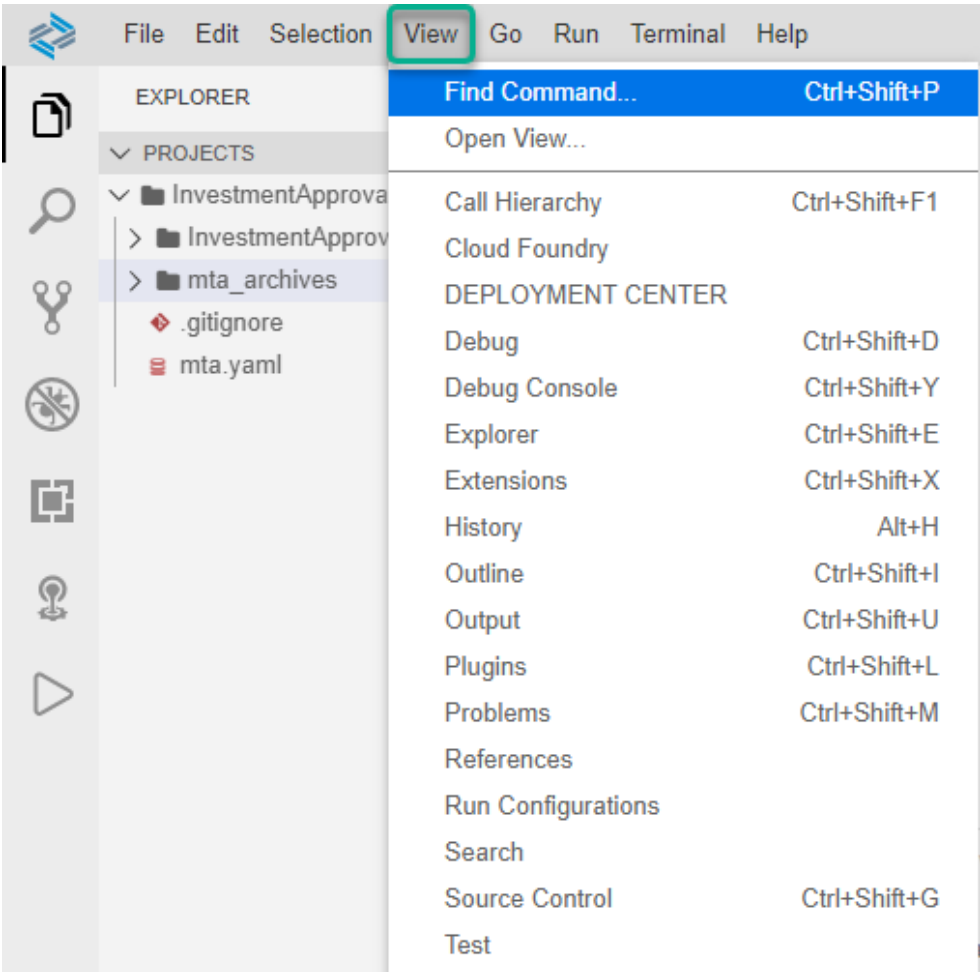
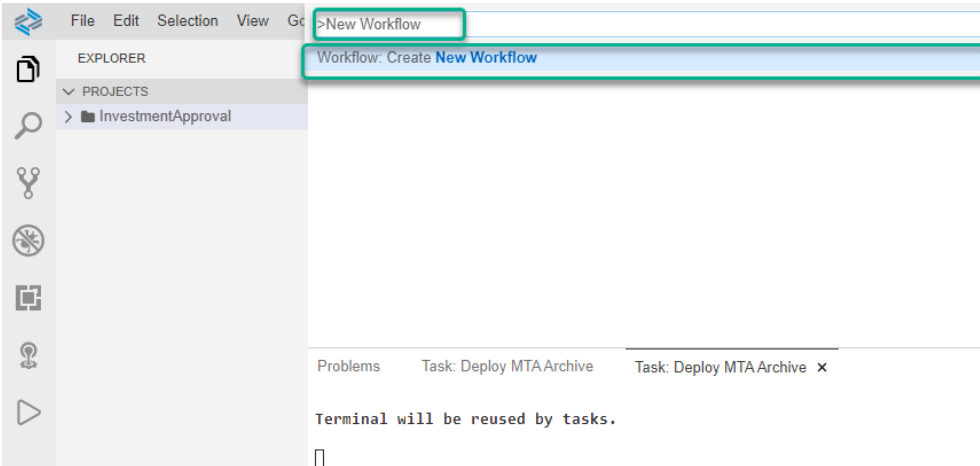
## INSIGHT TO ACTION – RESTART WORKFLOW – USER TRIGGERED ACTION

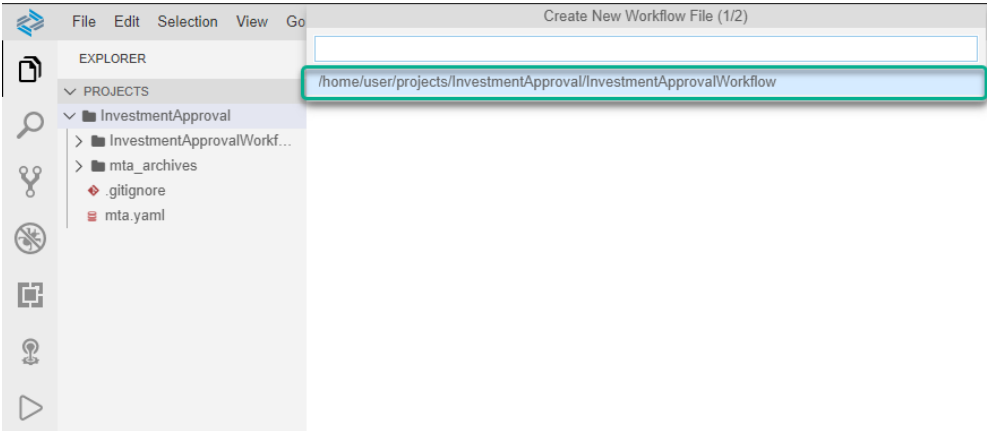
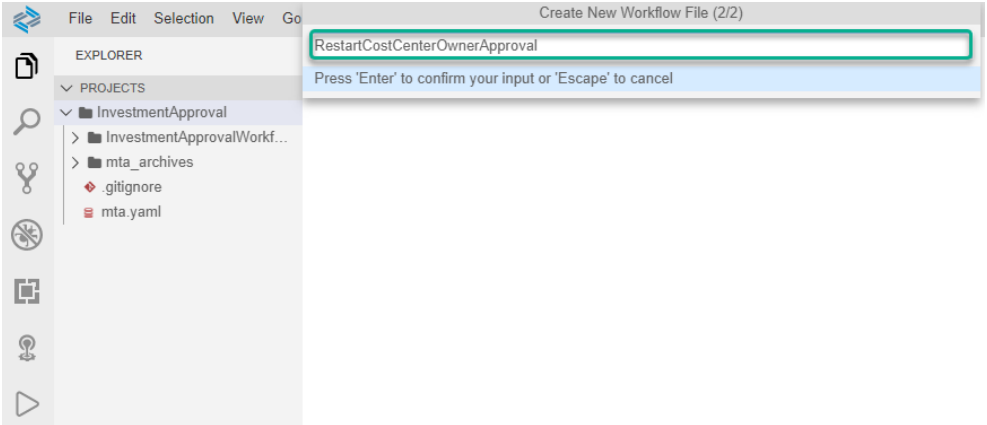
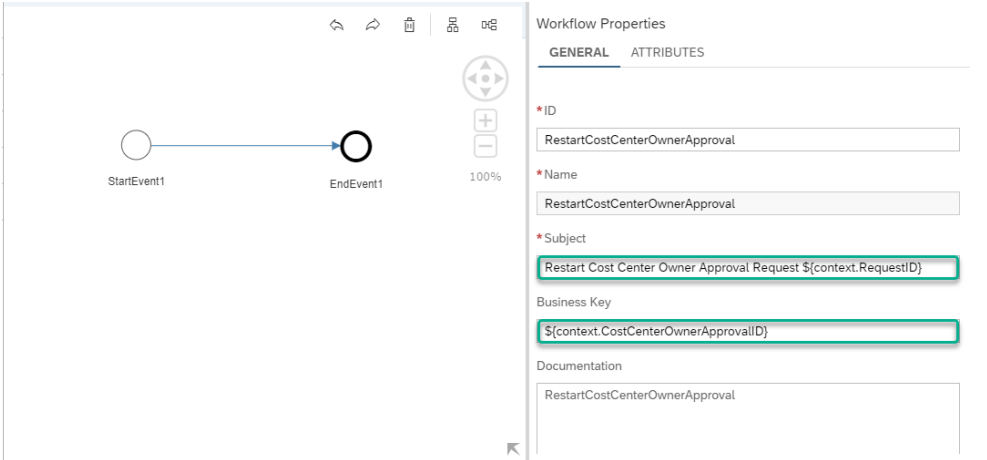
In this hands-on guide you will learn to model a workflow to get the details of a Cost Center Owner Approval workflow instance, get Workflow context, create a new workflow instance and cancel the current workflow instance using [SAP Cloud Platform Workflow APIs](#).

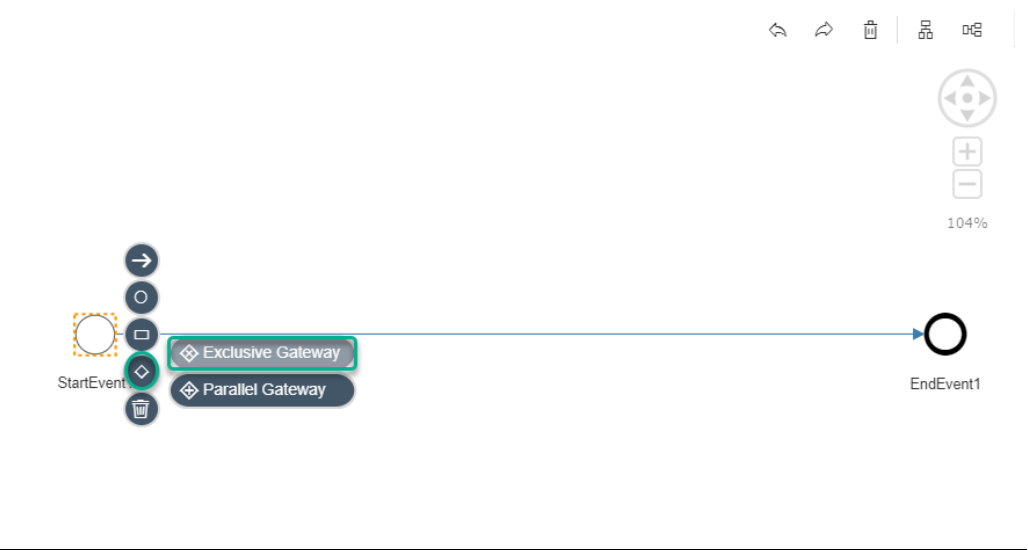
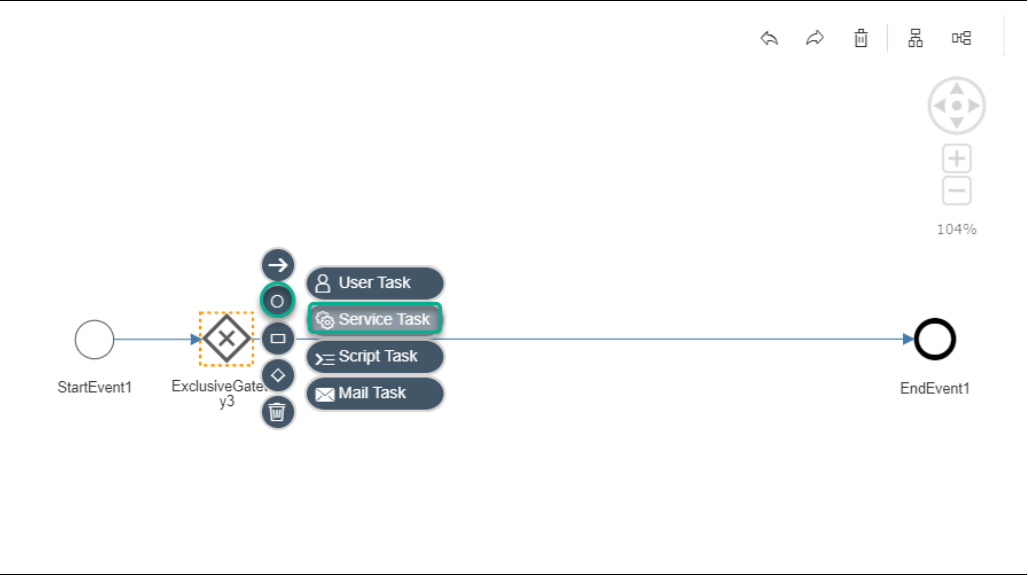




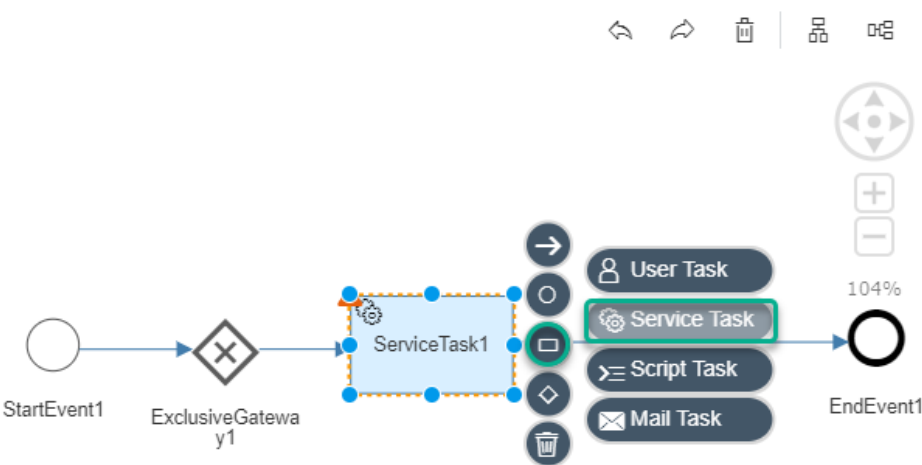
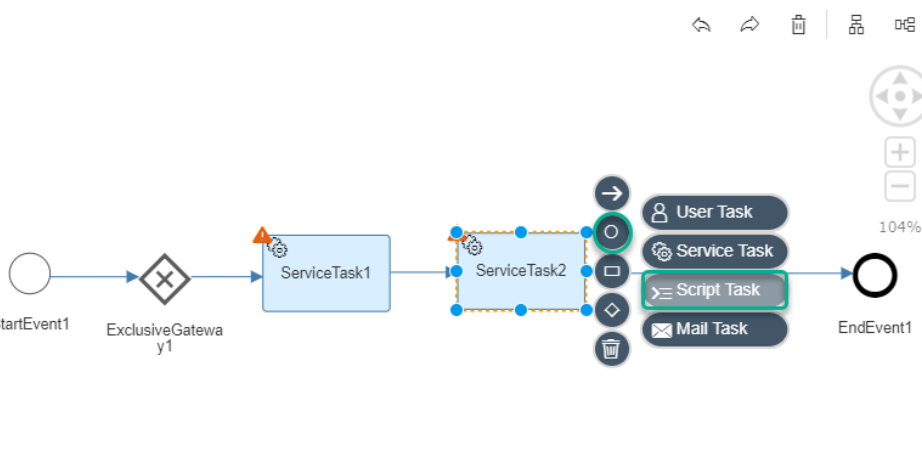
Explanation	Screenshot												
<div>1. Select <b>Subscriptions</b> in your Sub Account and you see the subscribed applications.</div> <div>2. Select <b>SAP Business Application Studio</b> and click <b>Go to Application</b>.</div> <div>SAP Cloud Platform Business Application Studio will be opened in new browser window.</div>	 <p>The screenshot shows the SAP Cloud Platform Cockpit interface. On the left, a navigation menu lists various services, with 'Subscriptions' highlighted. The main area displays the 'Subaccount: DEV264 - Subscriptions' page. It shows a list of subscriptions, with one entry for 'SAP Business Application Studio' marked as 'Subscribed'. A 'Go to Application' button is visible at the bottom of this entry.</p>												
<div>3. Click your <b>Dev Space</b>.</div>	 <p>The screenshot shows the SAP Business Application Studio interface. The 'Dev Spaces' section is active, displaying instructions on how to create and manage development environments. A 'Create Dev Space' button is present. Below, a table lists existing Dev Spaces. The first entry, 'DEV264' (SAP Fiori), is highlighted and shows a 'RUNNING' status.</p> <table><tr><th>Icon</th><th>Space Name</th><th>Status</th><th>Created On</th><th>ID</th><th>Actions</th></tr><tr><td></td><td>DEV264</td><td>RUNNING</td><td>11/26/2020 3:09 PM</td><td>ws-sh7sx</td><td> </td></tr></table>	Icon	Space Name	Status	Created On	ID	Actions		DEV264	RUNNING	11/26/2020 3:09 PM	ws-sh7sx	
Icon	Space Name	Status	Created On	ID	Actions								
	DEV264	RUNNING	11/26/2020 3:09 PM	ws-sh7sx									

Explanation	Screenshot
4. Click <b>View</b> on the menu and select <b>Find Command</b> .	 <p>The screenshot shows the Visual Studio Code interface. The 'View' menu is open, and 'Find Command...' is highlighted. The Explorer sidebar on the left shows a project structure with folders like 'InvestmentApproval' and 'mta_archives'. The 'Find Command...' option is at the top of the View menu, with the keyboard shortcut 'Ctrl+Shift+P'.</p>
5. Search for <b>New Workflow</b> . 6. Select <b>Workflow: Create New Workflow</b>	 <p>The screenshot shows the Visual Studio Code interface. The search bar at the top right contains the text '&gt;New Workflow'. Below the search bar, a dropdown menu shows the search results, with 'Workflow: Create New Workflow' selected. The Explorer sidebar on the left shows a project structure with folders like 'InvestmentApproval'. The bottom status bar shows 'Terminal will be reused by tasks.'</p>

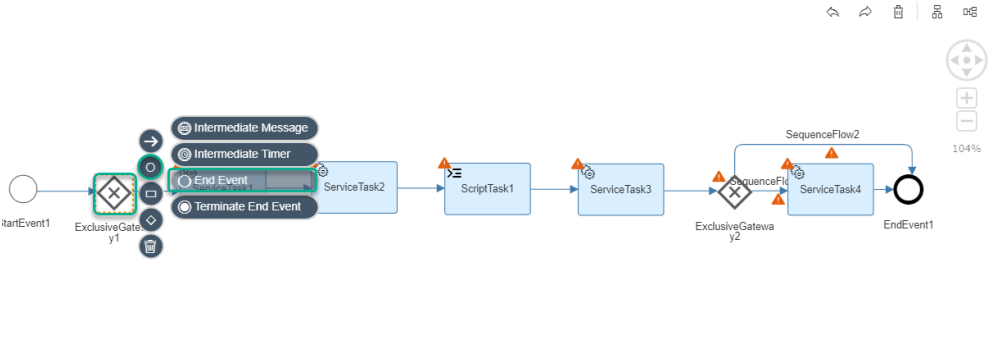
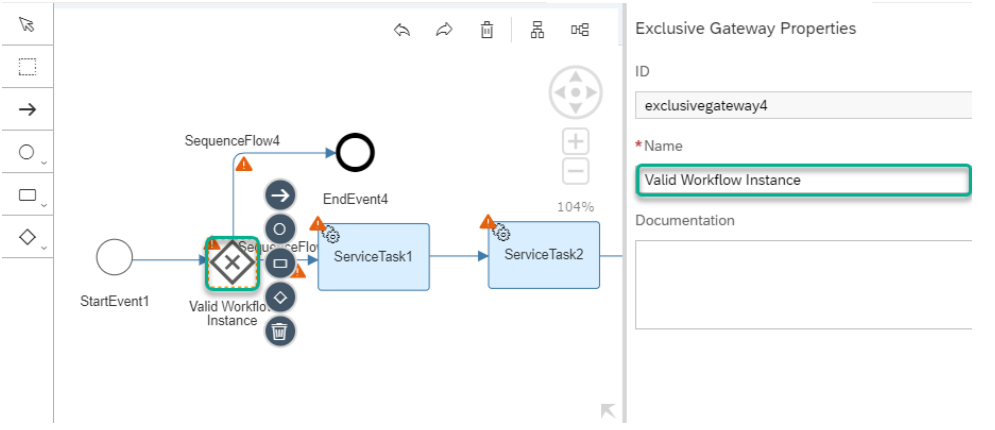
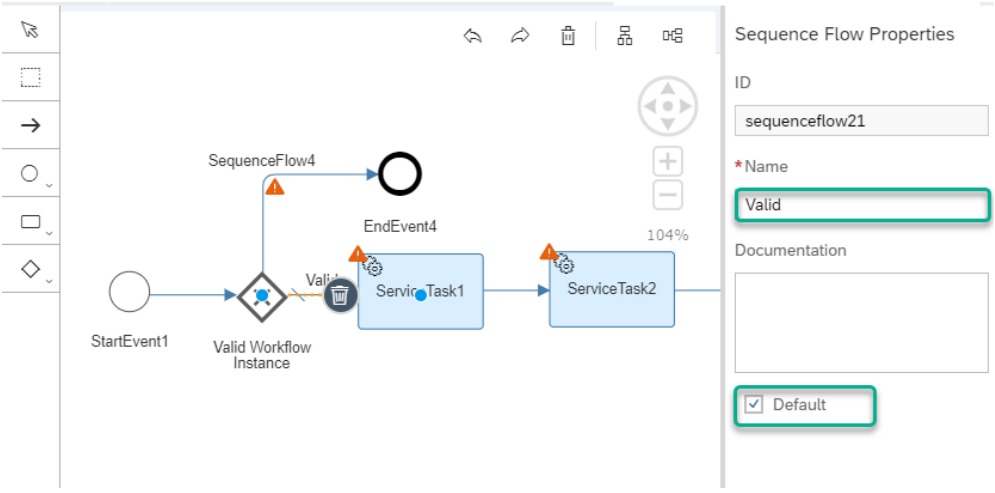
Explanation	Screenshot
7. Select the <b>folder</b> name.	
8. Enter the new Workflow name as <b>RestartCostCenterOwnerApproval</b> .  A new workflow has created and opened in the editor.  Drag and drop the <b>EndEvent</b> towards right to add other workflow artifacts.	
9. Enter the following. <b>Subject:</b> Restart Cost Center Owner Approval Request \${context.RequestID}  <b>Business Key:</b> \${context.CostCenterOwnerApprovalID}	

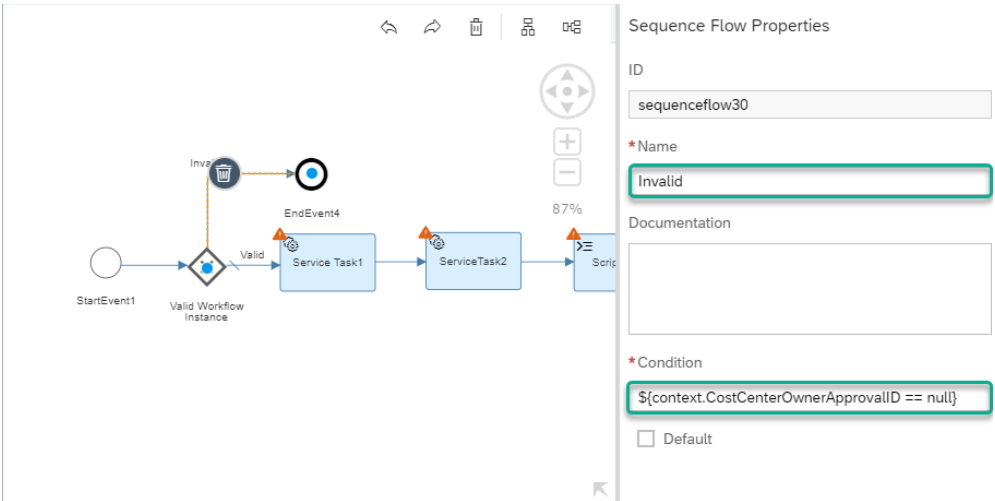
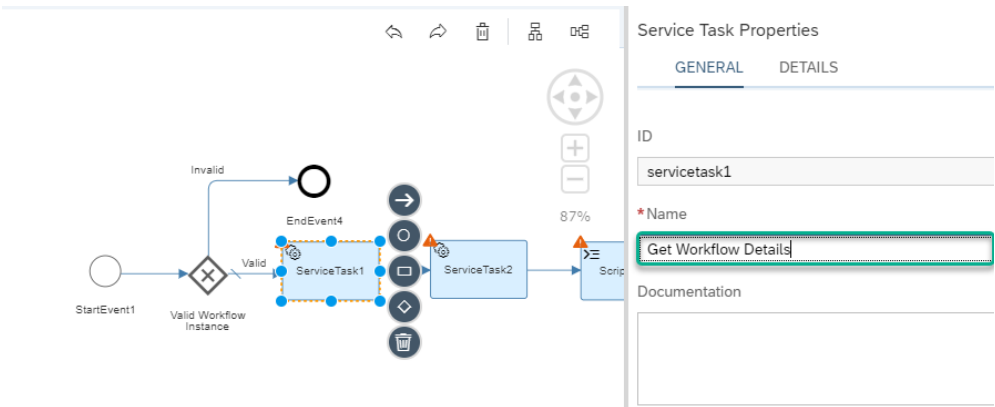
Explanation	Screenshot
10. Select <b>Start Event</b> and choose <b>Exclusive Gateway</b> from the speed button.	 <p>The screenshot shows a BPMN diagram with a StartEvent1 (thin circle) on the left and an EndEvent1 (thick circle) on the right. A vertical palette of gateway types is open over StartEvent1. The 'Exclusive Gateway' (diamond with an 'X') is highlighted with a green border. A blue line connects StartEvent1 to EndEvent1.</p>
11. Select <b>Exclusive Gateway</b> and choose <b>Service Task</b> from the speed button.	 <p>The screenshot shows the same BPMN diagram, but now an ExclusiveGateway3 (diamond with an 'X') is placed between StartEvent1 and EndEvent1. A vertical palette of task types is open over ExclusiveGateway3. The 'Service Task' (rounded rectangle with a gear icon) is highlighted with a green border. A blue line connects StartEvent1 to ExclusiveGateway3, and another blue line connects ExclusiveGateway3 to EndEvent1.</p>

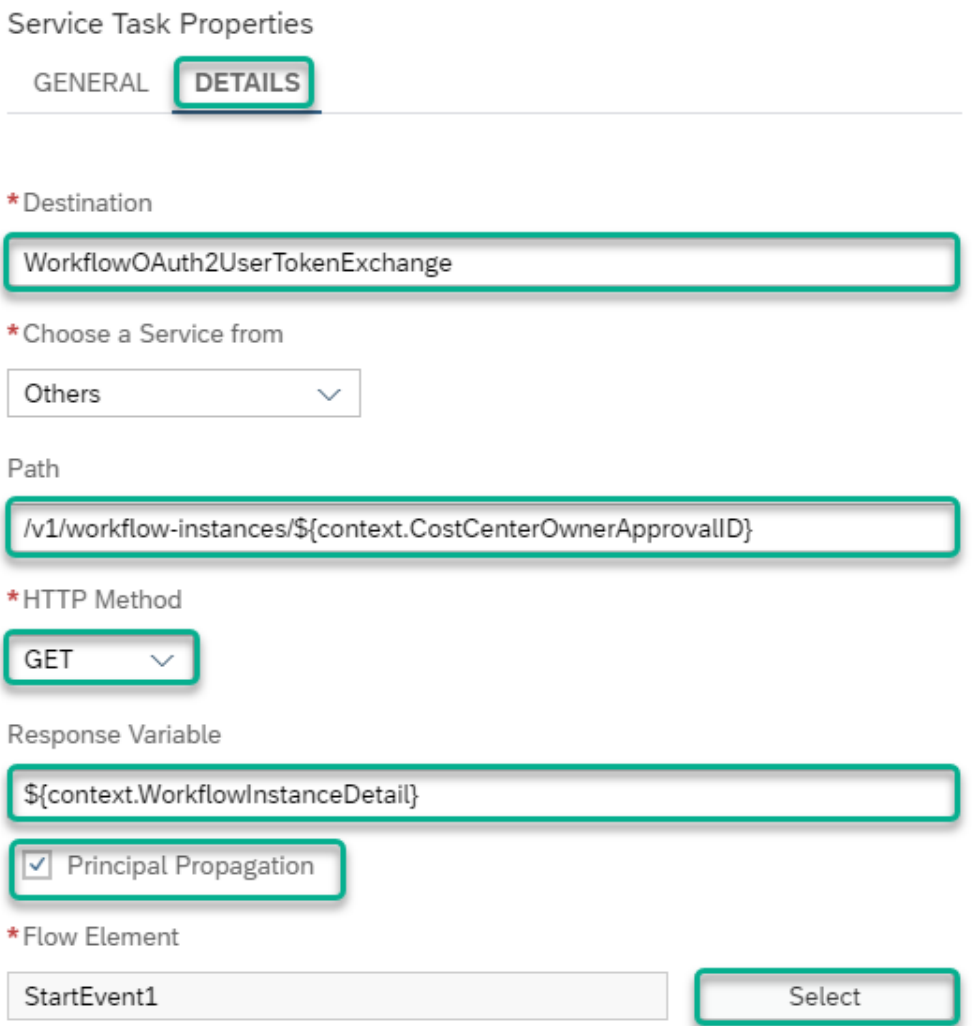


Explanation	Screenshot
12. Select <b>ServiceTask1</b> and choose <b>Service Task</b> from the speed button.	 <p>The screenshot shows a BPMN diagram with the following elements: StartEvent1, ExclusiveGateway y1, ServiceTask1, and EndEvent1. ServiceTask1 is selected with a dashed orange border. A speed button menu is open, showing options: User Task, Service Task (highlighted with a green border), Script Task, and Mail Task. The zoom level is 104%.</p>
13. Select <b>ServiceTask2</b> and choose <b>Script Task</b> from the speed button.	 <p>The screenshot shows the same BPMN diagram as in step 12, but with ServiceTask2 added and selected (dashed orange border). The speed button menu is open, and the 'Script Task' option is now highlighted with a green border. The zoom level remains 104%.</p>

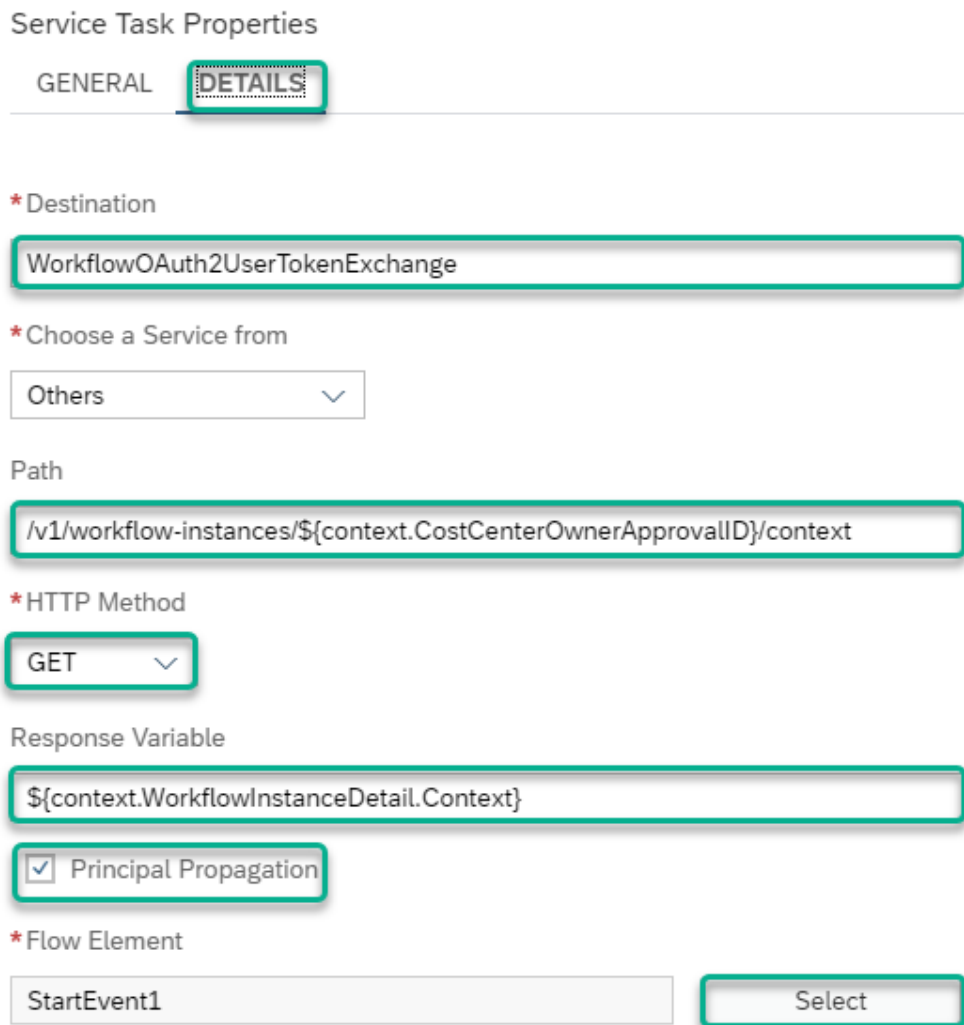
Explanation	Screenshot
14. Select <b>ScriptTask1</b> and choose <b>Service Task</b> from the speed button.	<p>The screenshot shows a BPMN diagram with the following elements: StartEvent1, ExclusiveGateway y1, ServiceTask1, ServiceTask2, ScriptTask1, and EndEvent1. A speed button menu is open over ScriptTask1, with 'Service Task' highlighted. The diagram is at 104% zoom.</p>
15. Select <b>ServiceTask3</b> and choose <b>Exclusive Gateway</b> from the speed button.	<p>The screenshot shows the same BPMN diagram as before, but now with ServiceTask3 added after ScriptTask1. A speed button menu is open over ServiceTask3, with 'Exclusive Gateway' highlighted. The diagram is at 104% zoom.</p>
16. Select <b>Exclusive Gateway</b> and choose <b>Service Task</b> from the speed button	<p>The screenshot shows the BPMN diagram with an additional ExclusiveGateway y2 added after ServiceTask3. A speed button menu is open over ExclusiveGateway y2, with 'Service Task' highlighted. The diagram is at 104% zoom.</p>
17. Select <b>Exclusive Gateway</b> and choose <b>Sequence Flow</b> from the speed button.  18. Drag and drop the <b>Sequence Flow</b> to the <b>End Event</b> .  Format the workflow diagram.	<p>The screenshot shows the final BPMN diagram with all elements: StartEvent1, ExclusiveGateway y1, ServiceTask1, ServiceTask2, ScriptTask1, ServiceTask3, ExclusiveGateway y2, ServiceTask4, and EndEvent1. Sequence flows connect the elements in order. A speed button menu is open over ExclusiveGateway y2, with 'Sequence Flow' highlighted. The diagram is at 104% zoom.</p>

Explanation	Screenshot
<p>19. Select <b>ExclusiveGateway1</b> and choose <b>End Event</b> from the speed button</p> <p>Format the diagram by drag and drop the new End Event above the Exclusive Gateway.</p>	
<p>20. Select <b>ExclusiveGateway1</b> and update <b>Name</b>: Valid Workflow Instance.</p> <p>If the Workflow Instance ID as start payload is empty or null complete the workflow.</p>	
<p>21. Select Sequence Flow between <b>Valid Workflow Instance</b> and <b>ServiceTask1</b>.</p> <p>22. Update the Name <b>Name</b>: Valid</p> <p>23. Check the <b>Default</b> check box</p>	

Explanation	Screenshot
<div>24. Select Sequence Flow between <b>Valid Workflow Instance</b> and <b>End Event</b>.</div> <div>25. Update the Name <b>Name:</b> Invalid</div> <div>26. Update the Condition as <code>\${context.CostCenterOwnerApprovalID == null}</code></div>	 <p>The screenshot shows the BPMN editor interface. On the left, a workflow diagram is visible with a start event 'StartEvent1', a decision event 'Valid Workflow Instance', and two outgoing flows: 'Invalid' (leading to 'EndEvent4') and 'Valid' (leading to 'Service Task1'). The 'Invalid' flow is selected. On the right, the 'Sequence Flow Properties' panel is open. It shows the ID 'sequenceflow30', the Name 'Invalid', and the Condition <code>\${context.CostCenterOwnerApprovalID == null}</code>. The 'Documentation' field is empty, and the 'Default' checkbox is unchecked.</p>
<div>27. Select <b>ServiceTask1</b> and update the name as <b>Get Workflow Details</b>.</div>	 <p>The screenshot shows the BPMN editor interface. On the left, the workflow diagram is visible. 'ServiceTask1' is selected. On the right, the 'Service Task Properties' panel is open. It shows the ID 'servicetask1' and the Name 'Get Workflow Details'. The 'Documentation' field is empty.</p>

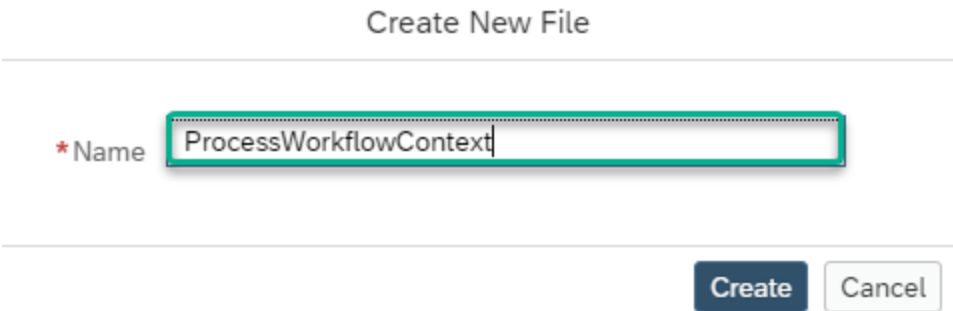
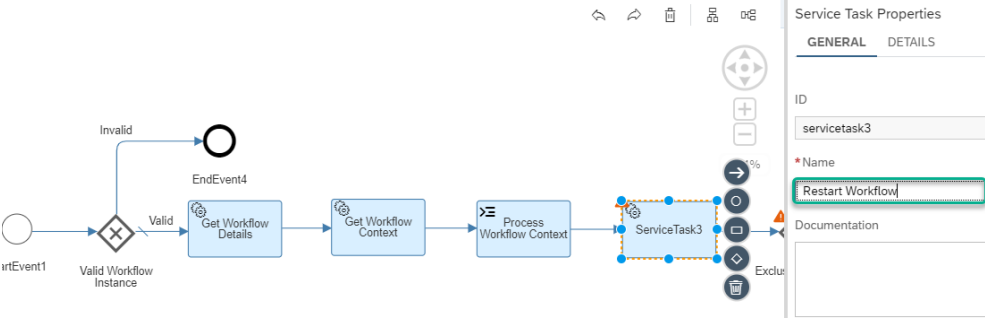
Explanation	Screenshot
<p>28. Select <b>DETAILS</b> tab.</p> <p>29. Set the following Service Task Properties.</p> <p><b>Destination:</b> WorkflowOAuth2UserTokenExchange</p> <p><b>Path:</b> /v1/workflow-instances/\${context.CostCenterOwnerApprovalID}</p> <p><b>HTTP Method:</b> GET</p> <p><b>Response Variable:</b> \${context.WorkflowInstanceDetail}</p> <p>30. Check <b>Principal Propagation</b>.</p> <p>31. Click <b>Select</b> to choose a Flow Element</p> <p>Principal Propagation enable Workflow to use the security context of a user started or completed a task. Please refer <a href="#">Workflow help documentation</a> for more about Principal Propagation.</p>	 <p>Service Task Properties</p> <p>GENERAL <b>DETAILS</b></p> <p>* Destination WorkflowOAuth2UserTokenExchange</p> <p>* Choose a Service from Others</p> <p>Path /v1/workflow-instances/\${context.CostCenterOwnerApprovalID}</p> <p>* HTTP Method GET</p> <p>Response Variable \${context.WorkflowInstanceDetail}</p> <p><input checked="" type="checkbox"/> Principal Propagation</p> <p>* Flow Element StartEvent1 <span>Select</span></p>

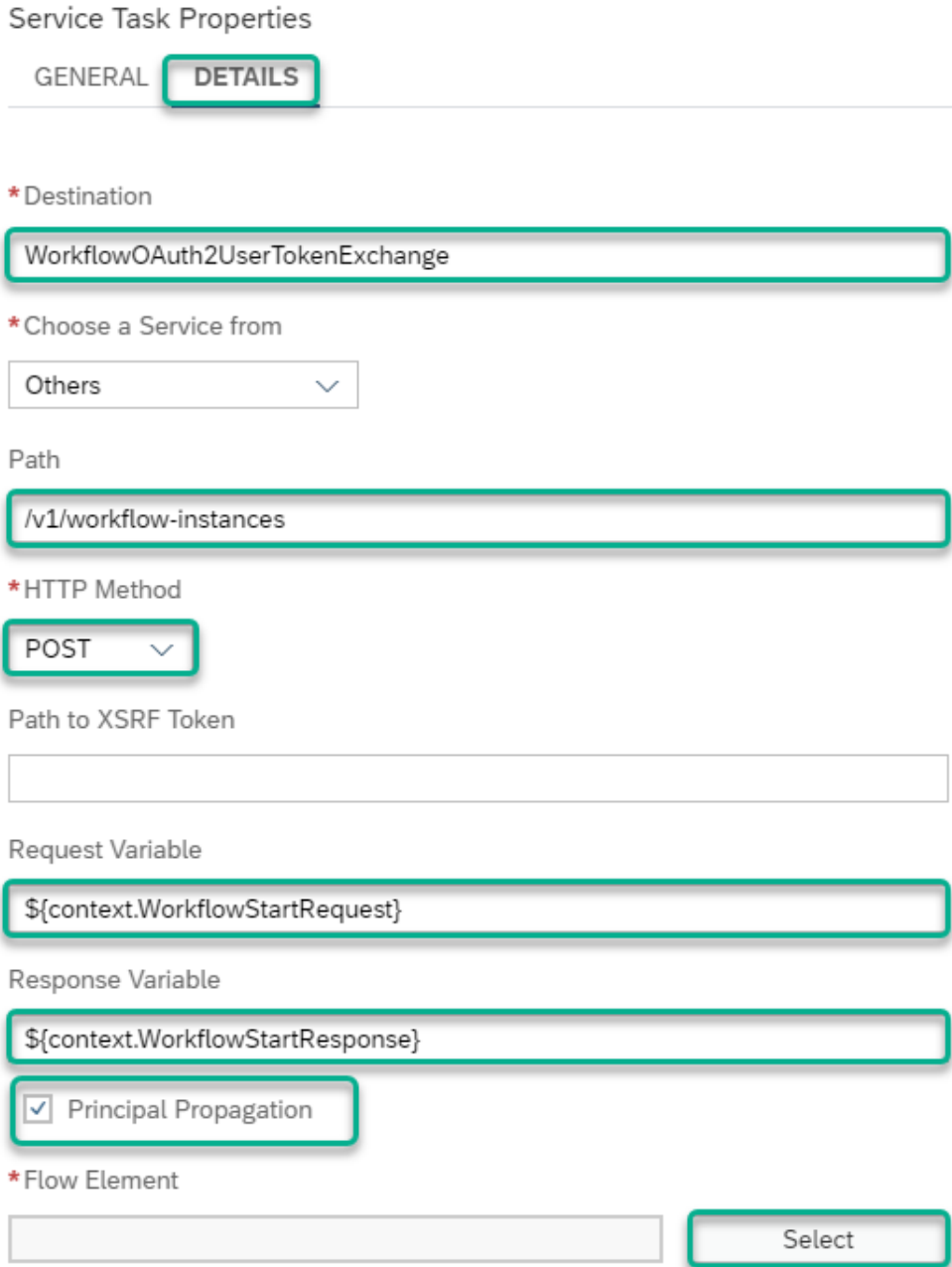
Explanation	Screenshot
32. Select <b>StartEvent1</b> as the Flow Element.	<div><p>Select Flow Element</p><div><div>Search</div><div><div>○ StartEvent1 startevent1</div></div></div><div>Cancel</div></div>
33. Select <b>ServiceTask2</b> and update the name as <b>Get Workflow Context</b> .	<div><div><pre>graph LR; StartEvent1((StartEvent1)) --&gt; Gateway{Valid Workflow Instance}; Gateway -- Invalid --&gt; EndEvent4(((EndEvent4))); Gateway -- Valid --&gt; GetWorkflowDetails[Get Workflow Details]; GetWorkflowDetails --&gt; ServiceTask2[ServiceTask2]; ServiceTask2 --&gt; EndEvent4</pre></div><div><p>Service Task Properties</p><p>GENERAL DETAILS</p><p>ID servicetask2</p><p>* Name <b>Get Workflow Context</b></p><p>Documentation</p></div></div>

Explanation	Screenshot
<p>34. Select <b>DETAILS</b> tab.</p> <p>35. Set the following Service Task Properties.</p> <p><b>Destination:</b> WorkflowOAuth2UserTokenExchange</p> <p><b>Path:</b> /v1/workflow-instances/\${context.CostCenterOwnerApprovalID}/context</p> <p><b>HTTP Method:</b>GET</p> <p><b>Response Variable:</b> \${context.WorkflowInstanceDetail.Context}</p> <p>36. Check <b>Principal Propagation</b>.</p> <p>37. Click <b>Select</b> to choose a Flow Element</p>	 <p>Service Task Properties</p> <p>GENERAL DETAILS</p> <p>* Destination</p> <p>WorkflowOAuth2UserTokenExchange</p> <p>* Choose a Service from</p> <p>Others</p> <p>Path</p> <p>/v1/workflow-instances/\${context.CostCenterOwnerApprovalID}/context</p> <p>* HTTP Method</p> <p>GET</p> <p>Response Variable</p> <p>\${context.WorkflowInstanceDetail.Context}</p> <p><input checked="" type="checkbox"/> Principal Propagation</p> <p>* Flow Element</p> <p>StartEvent1</p> <p>Select</p>

Explanation	Screenshot
38. Select <b>StartEvent1</b> as the Flow Element.	<div><p>Select Flow Element</p><div><div>Search</div><div><div>StartEvent1</div><div>startevent1</div></div></div><div>Cancel</div></div>
39. Select <b>ScriptTask1</b> and update the name <b>Process Workflow Context</b> . 40. Click the link <b>Create File</b> .	<div><p>The screenshot shows a BPMN editor interface. On the left, a workflow diagram is visible with the following elements: a StartEvent1, a 'Valid Workflow Instance' gateway, a 'Get Workflow Details' task, a 'Get Workflow Context' task, and a 'ScriptTask1' task. The 'ScriptTask1' task is highlighted with a dashed orange border. On the right, the 'Script Task Properties' panel is open. It contains the following fields: 'ID' (scripttask4), 'Name' (Process Workflow Context), 'Documentation' (empty), and 'Script File' (Create File). The 'Create File' button is highlighted with a green border.</p></div>

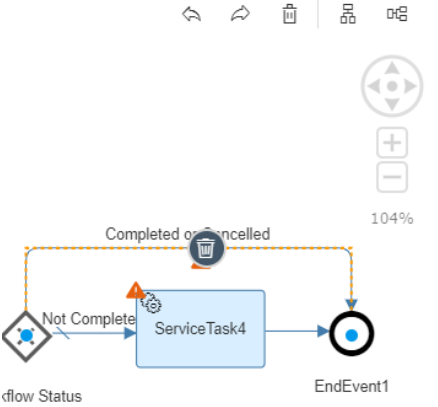
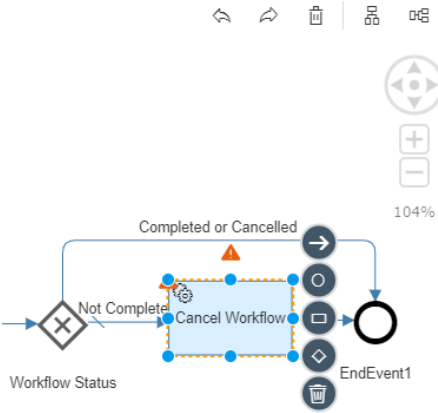


Explanation	Screenshot
41. Enter the <b>Name</b> as ProcessWorkflowContext.	
42. Copy and Paste the script from the attached file <u><a href="#">processworkflowcontext.js</a></u> .	<pre>1 var WorkflowStartPayload ={}; 2 WorkflowStartPayload.definitionId = \$.context.WorkflowInstanceDetail.definitionId; 3 WorkflowStartPayload.context={}; 4 WorkflowStartPayload.context.Request= \$.context.WorkflowInstanceDetail.Context.Request; 5 WorkflowStartPayload.context.Investment= \$.context.WorkflowInstanceDetail.Context.Investment; 6 WorkflowStartPayload.context.Approver= \$.context.WorkflowInstanceDetail.Context.Approver; 7 WorkflowStartPayload.context.Comments= []; 8 \$.context.WorkflowStartRequest = WorkflowStartPayload; 9  </pre>
43. Select <b>ServiceTask3</b> and update the <b>name</b> as <b>RestartWorkflow</b> .	

Explanation	Screenshot
<p>44. Select <b>DETAILS</b> tab.</p> <p>45. Set the following Service Task Properties.</p> <p><b>Destination:</b> WorkflowOAuth2UserTokenExchange</p> <p><b>Path:</b> /v1/workflow-instances</p> <p><b>HTTP Method:</b>POST</p> <p><b>Request Variable:</b> \${context.WorkflowStartRequest}</p> <p><b>Response Variable:</b> \${context.WorkflowStartResponse}</p> <p>46. Check <b>Principal Propagation</b>.</p> <p>47. Click <b>Select</b> to choose a Flow Element</p>	 <p>Service Task Properties</p> <p>GENERAL DETAILS</p> <p>* Destination</p> <p>WorkflowOAuth2UserTokenExchange</p> <p>* Choose a Service from</p> <p>Others</p> <p>Path</p> <p>/v1/workflow-instances</p> <p>* HTTP Method</p> <p>POST</p> <p>Path to XSRF Token</p> <p>Request Variable</p> <p>\${context.WorkflowStartRequest}</p> <p>Response Variable</p> <p>\${context.WorkflowStartResponse}</p> <p><input checked="" type="checkbox"/> Principal Propagation</p> <p>* Flow Element</p> <p>Select</p>

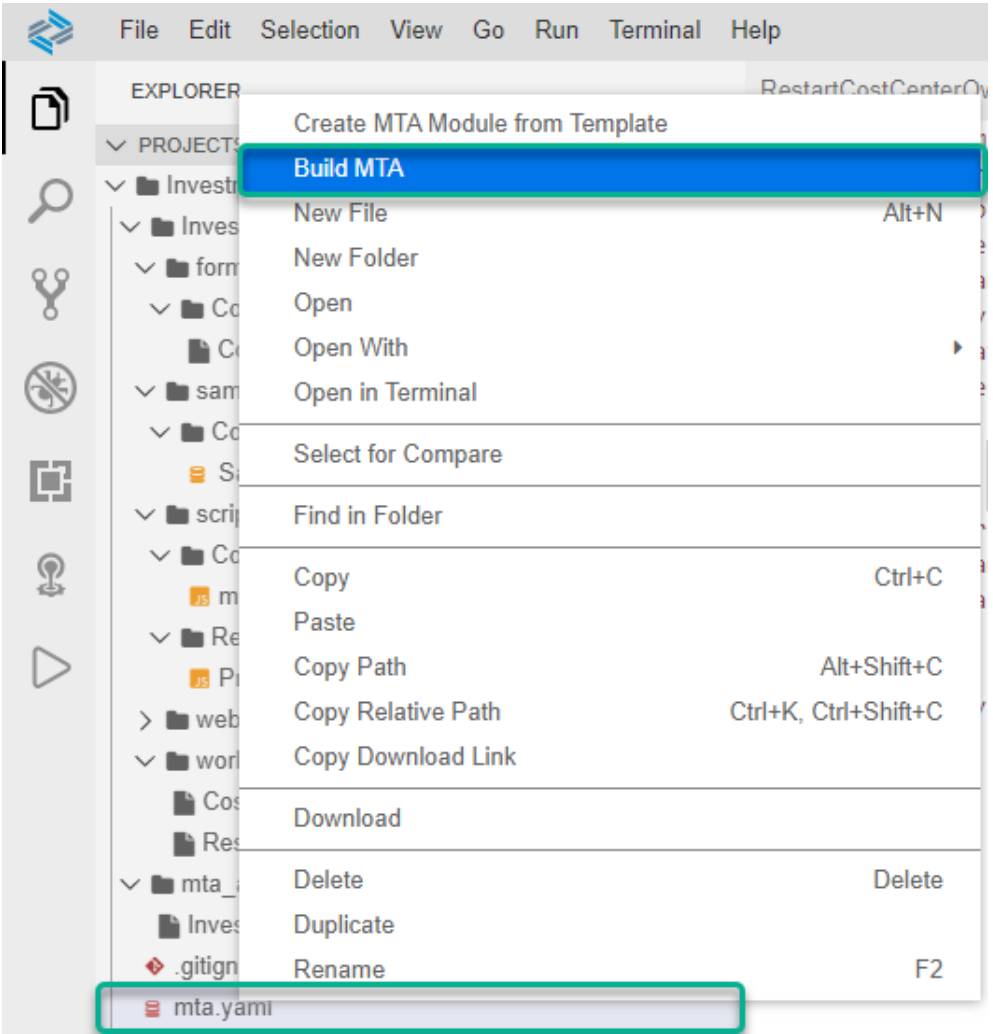
Explanation	Screenshot
48. Select <b>StartEvent1</b> as the Flow Element.	<div><div>Select Flow Element</div><div><div>Search</div><div><div><div>○</div><div>StartEvent1 startevent1</div></div></div></div><div><div>Cancel</div></div></div>

Explanation	Screenshot
49. Select <b>ExclusiveGateway</b> and update the <b>name</b> as <b>Workflow Status</b> .	<p>The screenshot shows the BPMN editor interface. On the left, a workflow diagram is visible with an Exclusive Gateway (diamond with an 'X') labeled 'Workflow Status'. A sequence flow connects the gateway to a 'ServiceTask4', which then connects to an 'EndEvent1'. The 'Exclusive Gateway Properties' panel on the right is open, showing the 'Name' field set to 'Workflow Status'. The 'ID' field is 'exclusivegateway6'. The 'Documentation' field is empty. The zoom level is 104%.</p>
50. Select Sequence Flow between <b>Workflow Status</b> Exclusive Gateway and <b>ServiceTask4</b> . 51. Update the Name <b>Name:</b> Not Completed 52. <b>Check</b> the <b>Default</b> check box	<p>The screenshot shows the BPMN editor interface. On the left, the same workflow diagram is visible, but the 'SequenceFlow' between 'Workflow Status' and 'ServiceTask4' is selected. The 'Sequence Flow Properties' panel on the right is open, showing the 'Name' field set to 'Not Completed'. The 'ID' field is 'sequenceflow27'. The 'Default' checkbox is checked. The 'Documentation' field is empty. The zoom level is 104%.</p>

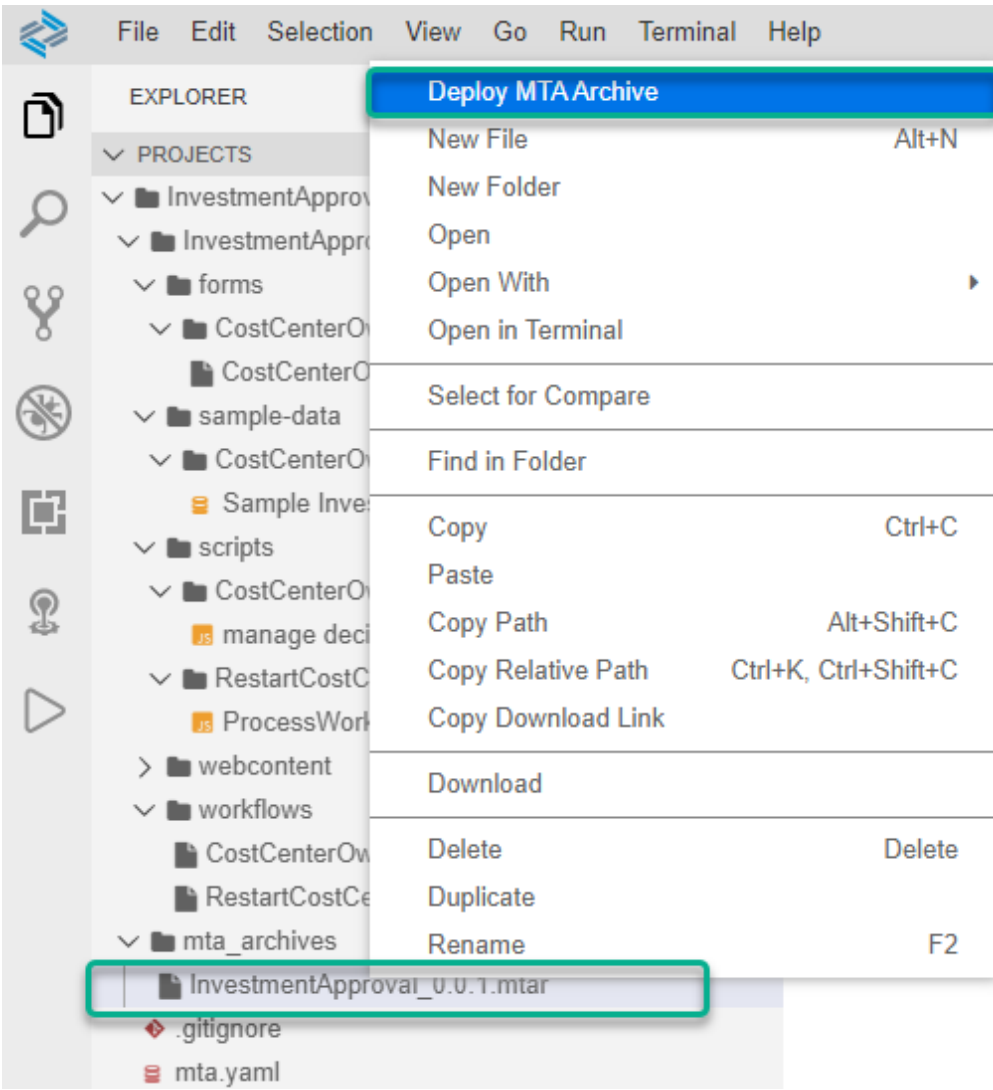

Explanation	Screenshot
<div>53. Select Sequence Flow between <b>Workflow Status</b> Exclusive Gateway and <b>EndEvent1</b>.</div> <div>54. Update the Name <b>Name:</b> Completed or Cancelled</div> <div>55. Update the Condition as <code>\${context.WorkflowInstanceDetail.status=="COMPLETED"    context.WorkflowInstanceDetail.status=="CANCELED"}</code>  This condition avoids calling the Workflow Service Instance Patch API on completed or cancelled instances.</div>	<div></div> <div><div>Sequence Flow Properties</div><div>ID sequenceflow29</div><div>*Name Completed or Cancelled</div><div>Documentation</div><div>*Condition <code>\${context.WorkflowInstanceDetail.status=="COMPLETED"    \${context.WorkflowInstanceDetail.status=="CANCELED"}}</code></div><div><input type="checkbox"/> Default</div></div>
<div>56. Select <b>ServiceTask4</b> and update the <b>name</b> as <b>Cancel Workflow</b>.</div>	<div></div> <div><div>Service Task Properties</div><div>GENERALDETAILS</div><div>ID servicetask4</div><div>*Name Cancel Workflow</div><div>Documentation</div></div>

Explanation	Screenshot
<p>57. Set the following Service Task Properties.</p> <p><b>Destination:</b> WorkflowOAuth2UserTokenExchange</p> <p><b>Path:</b> /v1/workflow-instances/\${context.CostCenterOwnerApprovalID}</p> <p><b>HTTP Method:</b>PATCH</p> <p><b>Request Variable:</b> \${context.WorkflowPatch}</p> <p><b>Response Variable:</b> \${context.WorkflowPatchResponse}</p> <p>58. Check <b>Principal Propagation</b>.</p> <p>59. Click <b>Select</b> to choose a Flow Element</p>	<p>The screenshot shows the 'Service Task Properties' dialog with the 'DETAILS' tab selected. The fields are as follows:</p> <ul style="list-style-type: none"><li><b>* Destination:</b> WorkflowOAuth2UserTokenExchange</li><li><b>* Choose a Service from:</b> Others (dropdown)</li><li><b>Path:</b> /v1/workflow-instances/\${context.CostCenterOwnerApprovalID}</li><li><b>* HTTP Method:</b> PATCH (dropdown)</li><li><b>Path to XSRF Token:</b> (empty text box)</li><li><b>Request Variable:</b> \${context.WorkflowPatch}</li><li><b>Response Variable:</b> \${context.WorkflowPatchResponse}</li><li><b>Principal Propagation:</b> <input checked="" type="checkbox"/> Principal Propagation</li><li><b>* Flow Element:</b> (empty text box) and a <b>Select</b> button</li></ul>

Explanation	Screenshot
60. Select <b>StartEvent1</b> as Flow Element.	<div><div>Select Flow Element</div><div><div>Search</div><div><div><div>StartEvent1</div><div>startevent1</div></div></div></div><div><div>Cancel</div></div></div>

Explanation	Screenshot
<p>61. Right click on <b>mta.yaml</b> file.</p> <p>62. Select <b>Build MTA</b>.</p> <p>63. This will start the MTA build and it may take a few seconds to create the mta archives under the folder <b>mta_archives</b>.</p>	



Explanation	Screenshot
<div>64. Successful build will update the .mtar file and show message in the build logs.</div> <div>65. Select the .mtar file and right click.</div> <div>66. Click <b>Deploy MTA Archive</b>.</div>	 <p>The screenshot shows the Visual Studio Code interface. The Explorer sidebar on the left displays a project structure with folders like 'forms', 'CostCenterO', 'sample-data', 'scripts', 'RestartCostC', 'ProcessWork', 'webcontent', 'workflows', and 'mta_archives'. The file 'InvestmentApproval_0.0.1.mtar' is selected in the 'mta_archives' folder. A right-click context menu is open over this file, with 'Deploy MTA Archive' highlighted at the top. Other menu items include 'New File', 'New Folder', 'Open', 'Open With', 'Open in Terminal', 'Select for Compare', 'Find in Folder', 'Copy', 'Paste', 'Copy Path', 'Copy Relative Path', 'Copy Download Link', 'Download', 'Delete', 'Duplicate', and 'Rename'. The main editor area is partially visible, showing a file named 'InvestmentApprovalWorkflow.js'.</p>
<div>67. Successful deployment will show the log.</div>	 <p>The screenshot shows the 'Problems' panel in VS Code, displaying the output of the 'Task: Deploy MTA Archive'. The log text is as follows:</p> <pre>Problems Task: Deploy MTA Archive x  Uploading 1 files... /home/user/projects/InvestmentApproval/mta_archives/InvestmentApproval_0.0.1.mtar OK Operation ID: c443e49b-318f-11eb-a634-eeee0a8b72e6 Deploying in org "DEV264" and space "dev" Detected MTA schema version: "3" No deployed MTA detected - this is initial deployment Detected new MTA version: "0.0.1" Processing service "workflow_mta"... Creating service "workflow_mta" from MTA resource "workflow_mta"... 1 of 1 done Creating service key "InvestmentApprovalWorkflow-workflow_mta-credentials" for service "workflow_mta"... Uploading content module "InvestmentApprovalWorkflow" in target service "workflow_mta"... Deploying content module "InvestmentApprovalWorkflow" in target service "workflow_mta"... Skipping deletion of services, because the command line option "--delete-services" is not specified. Process finished. Use "cf dmo1 -i c443e49b-318f-11eb-a634-eeee0a8b72e6" to download the logs of the process.  Terminal will be reused by tasks.</pre>

## **SUMMARY**

You have modeled an action workflow and successfully deployed in your SAP Cloud Platform trial account. In the process visibility hands on guide, you will consume this workflow to configure an action in SAP Cloud Platform Process Visibility.

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