

PUBLIC

Deep dive into SAP Cloud Platform Workflow Management – Setup guide

DEV-264

Exercises / Solutions
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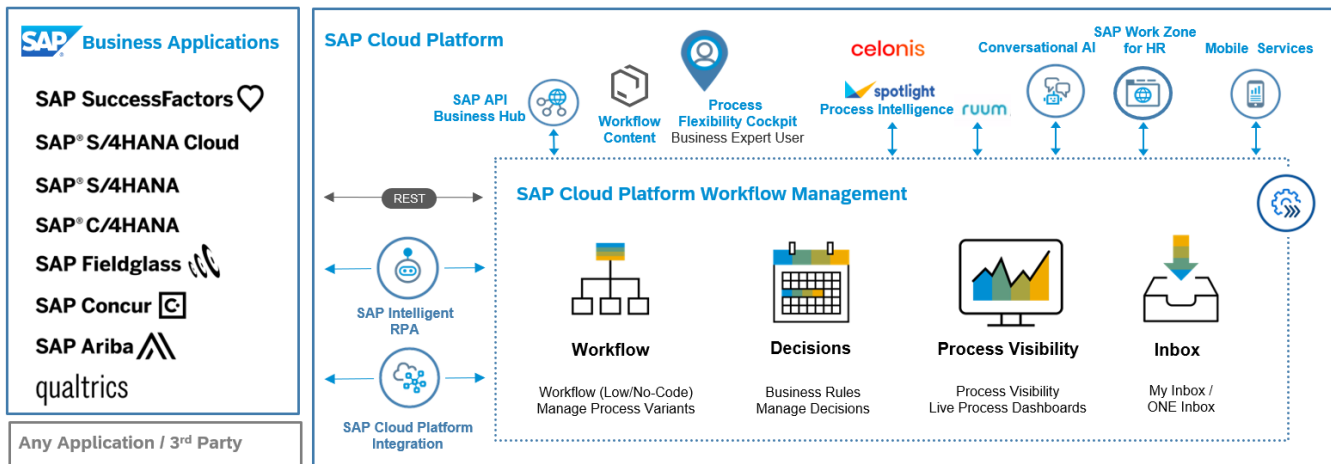
SUMMARY14

This document enables you to setup your cloud platform trial account before you start Workflow Management hands on exercise.

SAP CLOUD PLATFORM WORKFLOW MANAGEMENT

SAP Cloud Platform Workflow Management is a service in Extension Suite, enabling customers to automate processes, manage decisions and gain real time process visibility. The following capabilities are available in Workflow Management.

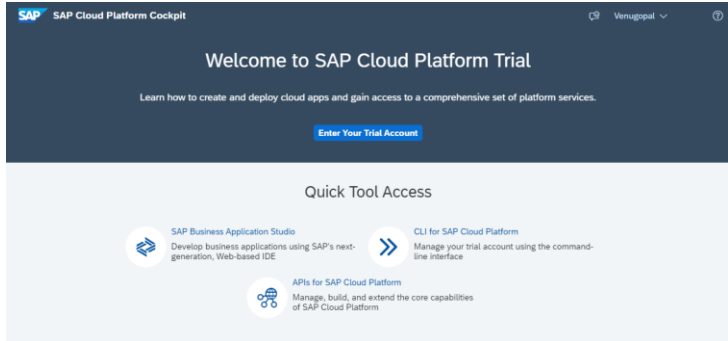
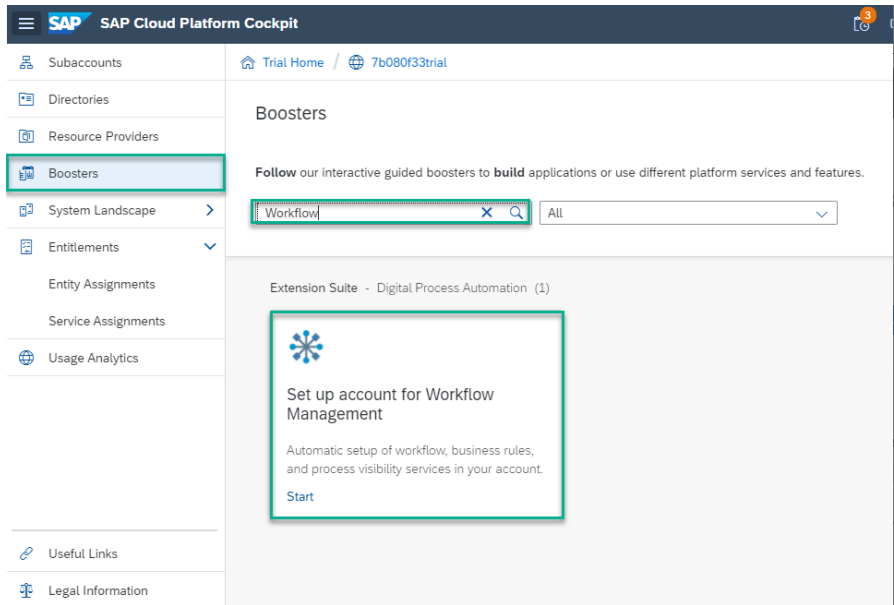
- Workflow
- Business Rules
- Process Visibility
- My Inbox
- Process Flexibility
- Live Process Content

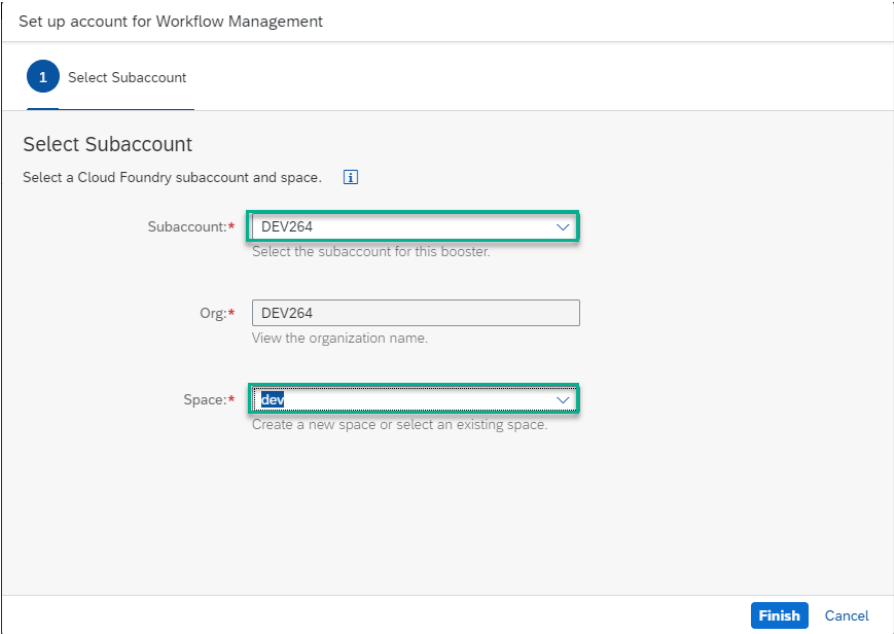
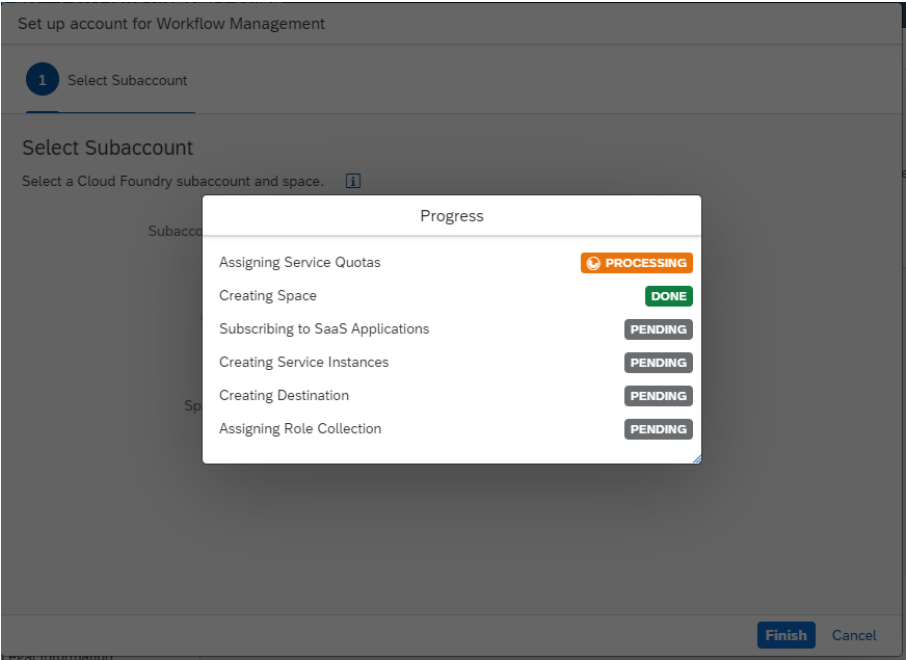


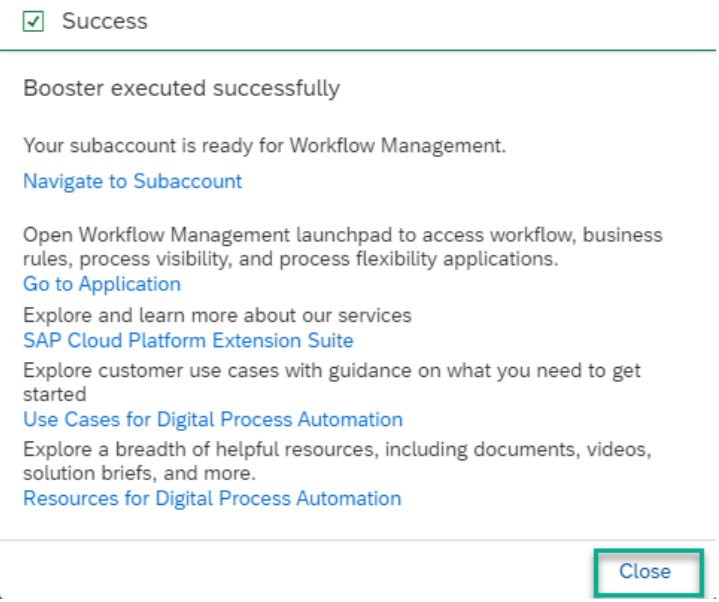
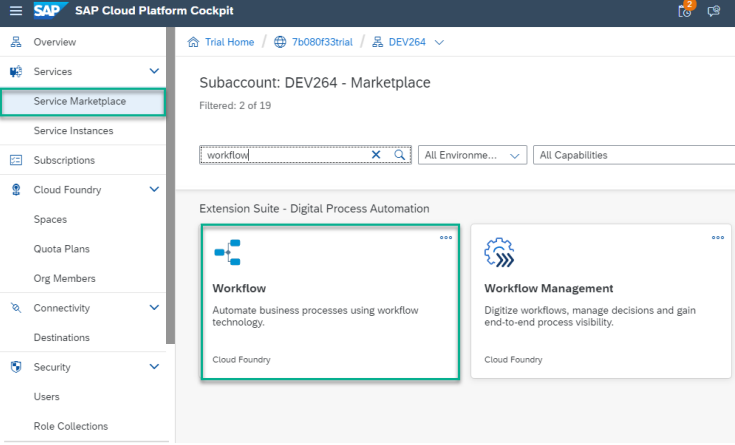
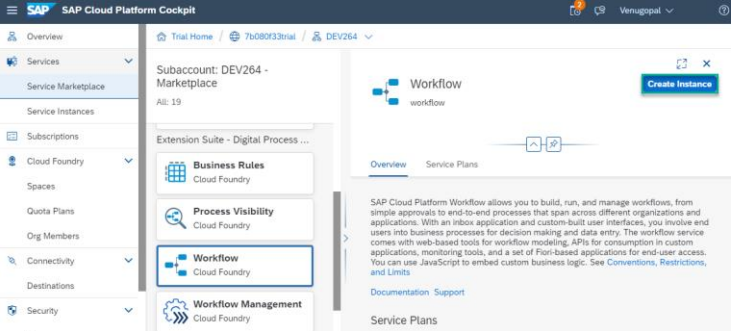
Prerequisite

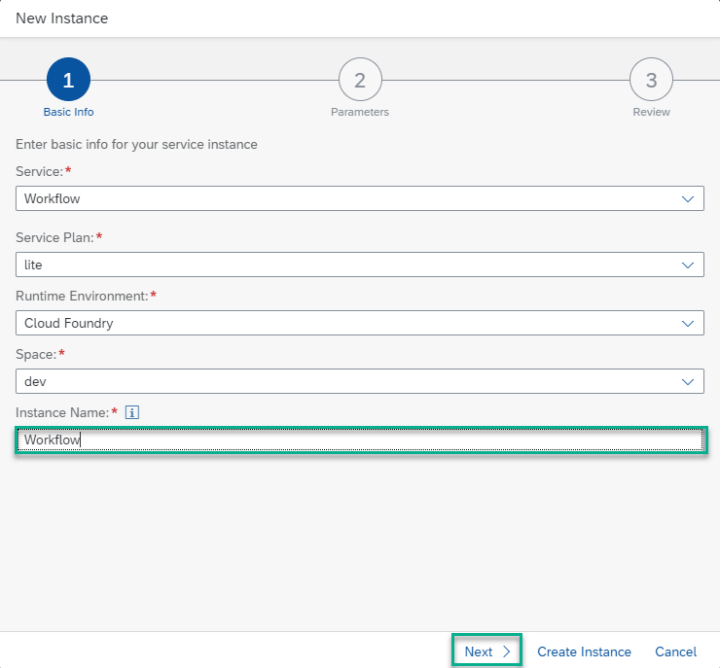
Please make sure you have an SAP Cloud Platform trial account **without** subscription to SAP Cloud Platform Workflow, SAP Intelligent Robotic Process Automation.

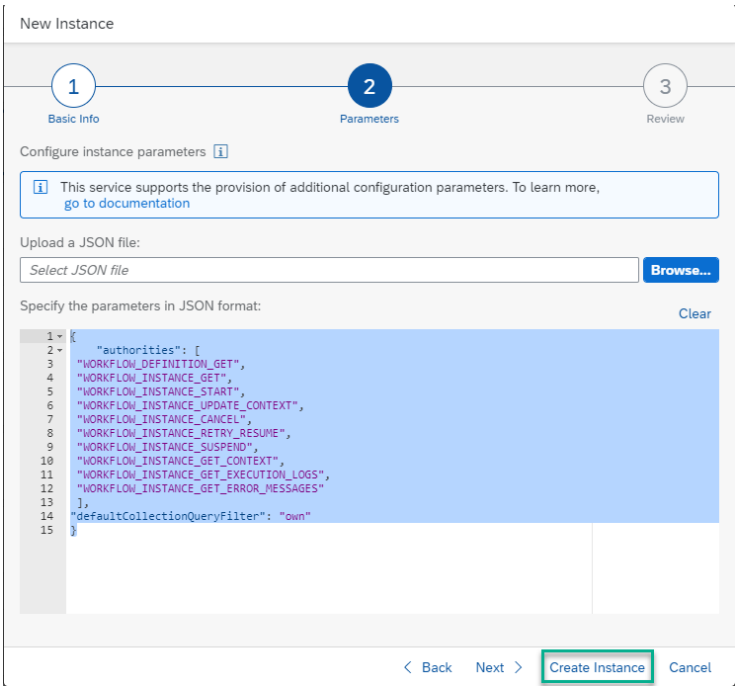
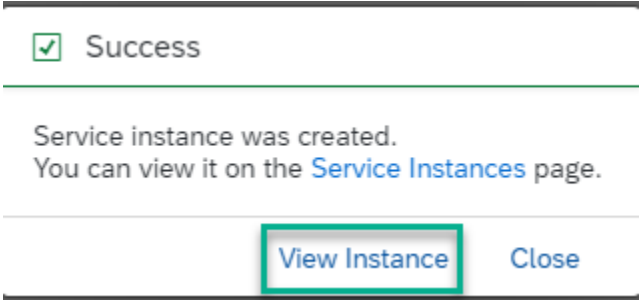
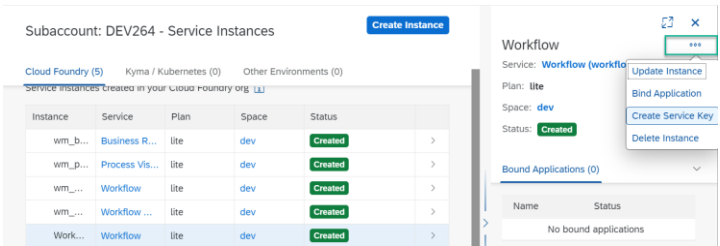
SUBSCRIBE AND CREATE WORKFLOW SERVICE INSTANCE

Explanation	Screenshot
<ol style="list-style-type: none"> Copy and paste the <u>URL</u> to access your SAP Cloud Platform Trial landscape. Click Enter Your Trial Account <p>If you have not yet created a Cloud Platform trial account, <u>Register</u> for a free trial account.</p>	
<ol style="list-style-type: none"> Click Boosters to setup Workflow Management in your trial account. If you have already subscribed Workflow Management, skip this step. Search Workflow, select Setup account for Workflow Management and click Start. 	

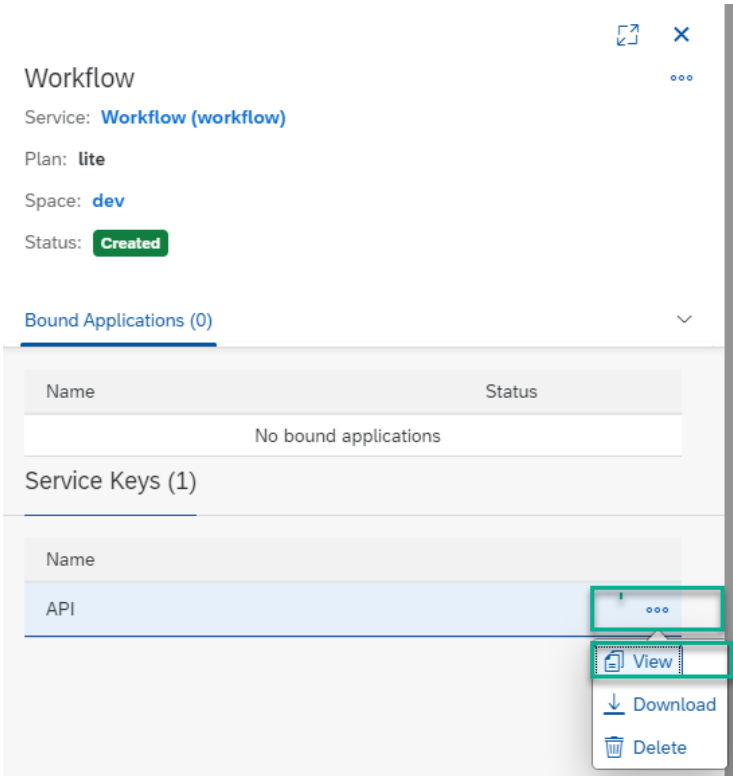
Explanation	Screenshot
<div>5. Select your Subaccount, Space and click Finish button.</div> <div>This will take couple of minutes to complete. The booster does the following tasks.</div> <div><ul style="list-style-type: none">• Creating Space if required.• Subscribing services and applications.• Creating Service Instances.• Creating Destination• Assigning Role Collection</div>	<div></div> <div></div>

Explanation	Screenshot
<p>6. Successful completion of the Booster will show the message and click Close button.</p>	 <p>A screenshot of a success message in the SAP Cloud Platform Cockpit. At the top, there is a green checkmark icon followed by the word "Success". Below this, the text reads "Booster executed successfully". Further down, it says "Your subaccount is ready for Workflow Management." and provides a blue link "Navigate to Subaccount". Below that, it says "Open Workflow Management launchpad to access workflow, business rules, process visibility, and process flexibility applications." and provides a blue link "Go to Application". This is followed by "Explore and learn more about our services" and a blue link "SAP Cloud Platform Extension Suite". Then, "Explore customer use cases with guidance on what you need to get started" and a blue link "Use Cases for Digital Process Automation". Finally, it says "Explore a breadth of helpful resources, including documents, videos, solution briefs, and more." and provides a blue link "Resources for Digital Process Automation". At the bottom right, there is a green-bordered button labeled "Close".</p>
<p>7. Select Service Market Place and search Workflow.</p> <p>8. Select Workflow tile.</p>	 <p>A screenshot of the SAP Cloud Platform Cockpit Service Marketplace. The left sidebar shows a navigation menu with "Service Marketplace" highlighted. The main area displays "Subaccount: DEV264 - Marketplace" and "Filtered: 2 of 19". A search bar contains the text "workflow". Below the search bar, there are two tiles. The first tile is titled "Workflow" and describes it as "Automate business processes using workflow technology." It has a "Cloud Foundry" label at the bottom. The second tile is titled "Workflow Management" and describes it as "Digitize workflows, manage decisions and gain end-to-end process visibility." It also has a "Cloud Foundry" label at the bottom. The "Workflow" tile is highlighted with a green border.</p>
<p>9. Select Workflow → click Create Instance</p>	 <p>A screenshot of the SAP Cloud Platform Cockpit showing the "Workflow" tile selected. The left sidebar shows the "Workflow" tile highlighted. The main area displays "Subaccount: DEV264 - Marketplace" and "All: 19". Below the search bar, there are three tiles: "Business Rules", "Process Visibility", and "Workflow". The "Workflow" tile is highlighted with a blue border. To the right of the "Workflow" tile, there is a "Create Instance" button. Below the tiles, there is a section titled "Workflow" with a diagram showing a workflow process. The "Create Instance" button is highlighted with a green border.</p>

Explanation	Screenshot
10. Enter Instance Name: Workflow 11. Click Next .	 <p>The screenshot shows the 'New Instance' wizard, Step 1: Basic Info. The form is titled 'New Instance' and has three steps: 1. Basic Info, 2. Parameters, and 3. Review. The instructions say 'Enter basic info for your service instance'. The form contains the following fields:</p> <ul style="list-style-type: none">Service: * (Dropdown menu with 'Workflow' selected)Service Plan: * (Dropdown menu with 'lite' selected)Runtime Environment: * (Dropdown menu with 'Cloud Foundry' selected)Space: * (Dropdown menu with 'dev' selected)Instance Name: * (Text input field with 'Workflow' entered, highlighted with a green box) <p>At the bottom right, there are three buttons: 'Next >' (highlighted with a green box), 'Create Instance', and 'Cancel'.</p>

Explanation	Screenshot
<p>12. Replace the JSON content with the below content.</p> <pre>{ "authorities": ["WORKFLOW_DEFINITION_GET", "WORKFLOW_INSTANCE_GET", "WORKFLOW_INSTANCE_START", "WORKFLOW_INSTANCE_UPDATE_CONTEXT", "WORKFLOW_INSTANCE_CANCEL", "WORKFLOW_INSTANCE_RETRY_RESUME", "WORKFLOW_INSTANCE_SUSPEND", "WORKFLOW_INSTANCE_GET_CONTEXT", "WORKFLOW_INSTANCE_GET_EXECUTION_LOGS", "WORKFLOW_INSTANCE_GET_ERROR_MESSAGES"], "defaultCollectionQueryFilter": "own" }</pre> <p>You can copy the JSON from the attached file to avoid invalid characters.</p> <p><i>The authorities array contains the required scopes or authorization to call Workflow Service APIs.</i></p>	
<p>13. Successful creation of the service instance will show the message.</p> <p>14. Click View Instance button.</p>	
<p>15. Click the three dots (...) and select Create Service Key.</p>	

Explanation	Screenshot
<div>16. Enter Service key name as "API".</div> <div>17. Click Create button.</div>	<div><div>New Service Key</div><div><div>Service key name:*</div><div>API</div></div><div><div>Configure service key parameters</div><div><div>Upload a JSON file:</div><div><div>Select JSON file</div><div>Browse...</div></div></div><div><div>Specify the parameters in JSON format:</div><div>Clear</div></div><div><div>1</div><div></div></div><div><div>Create</div><div>Cancel</div></div></div></div>

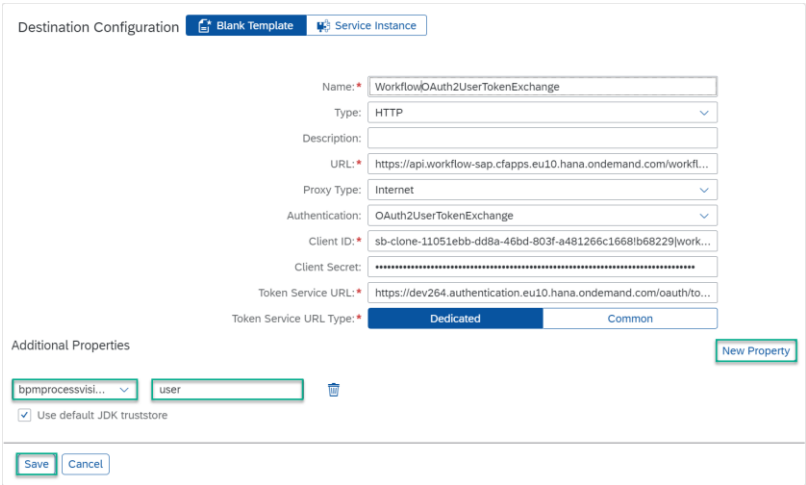
Explanation	Screenshot
18. Click the three dots (...) and select View .	

Explanation	Screenshot
<div>19. The Service Key is displayed in a popup window.</div> <div>20. Copy the values of workflow_rest_url under endpoints json element and keep in a notepad.</div> <div>21. Copy the values of, clientid, clientsecret and url under the uaa json element and keep in a notepad.</div> <div>It is used while creating a destination to call Workflow APIs in the next section.</div>	<div>API</div> <div><pre>sap.cfapps.eu10.hana.ondemand.com/workflow-service/odata", "workflow_rest_url": "https://api.workflow- sap.cfapps.eu10.hana.ondemand.com/workflow-service/rest" }, "html5-apps-repo": { "app_host_id": " }, "portal_content_provider": { "instance_id": " "}, "uaa": { "tenantmode": "dedicated", "surl": "https://internal- xsuaa.authentication.eu10.hana.ondemand.com", "subaccountid": " ", "clientid": " ", "xsappname": " ", "clientsecret": " ", "url": " ", "uaadomain": "authentication.eu10.hana.ondemand.com", "verificationkey": "-----BEGIN PUBLIC KEY----- "</pre></div> <div>OK</div>

CREATE WORKFLOW OAUTH DESTINATIONS

Explanation	Screenshot
<p>22. Select Destinations →New Destination.</p>	
<p>23. Enter the following in the new destination.</p> <p>Name:bpmworkflowruntimeoauth</p> <p>Type:HTTP</p> <p>URL: copy the value of url from previous step.</p> <p>Proxy Type: Internet</p> <p>Authentication:BasicAuthentication</p> <p>User: copy the value of clientid from previous step.</p> <p>Password: copy the value of secret from previous step.</p>	
<p>24. Click Save button.</p> <p>Please refer create an OAuth Destination section of Workflow help for more details.</p>	

Explanation	Screenshot
<p>25. Select Destinations → New Destination.</p>	
<p>26. Enter the following in the new destination.</p> <p>Name: WorkflowOAuth2Clientcredentials</p> <p>Type: HTTP</p> <p>URL: copy the value of workflow_rest_url from previous step.</p> <p>Proxy Type: Internet</p> <p>Authentication: OAuth2ClientCredentials</p> <p>Client ID: copy the value of clientid from previous step.</p> <p>Client Secret: copy the value of secret from previous step.</p> <p>Token Service URL: Copy the value of URL from previous step. Add /oauth/token at the end of the url.</p>	
<p>27. Click New Property.</p> <p>28. Under Additional Properties, add a property bpmprocessvisibility.triggerWorkflow</p> <p>29. Enter value as system</p> <p>30. Click Save button.</p> <p>Please refer technical authentication section of Workflow help for more details.</p>	

Explanation	Screenshot
<p>31. Enter the following in the new destination.</p> <p>Name: WorkflowOAuth2UserTokenExchange</p> <p>Type: HTTP</p> <p>URL: copy the value of workflow_rest_url from previous step.</p> <p>Proxy Type: Internet</p> <p>Authentication: OAuth2UserTokenExchange</p> <p>Client ID: copy the value of clientid from previous step.</p> <p>Client Secret: copy the value of secret from previous step.</p> <p>Token Service URL: Copy the value of URL from previous step. Add /oauth/token at the end of the url.</p> <p>32. Click New Property.</p> <p>33. Under Additional Properties, add a property bpmprocessvisibility.triggerWorkflow</p> <p>34. Enter value as user</p> <p>35. Click Save button.</p> <p>Please refer OAuth User Token Exchange section of Workflow help for more details.</p>	

SUMMARY

You have completed the trial setup and continue the next exercise – Model Workflow.

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