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Deep dive into SAP Cloud Platform Workflow Management – Setup guide

DEV-264

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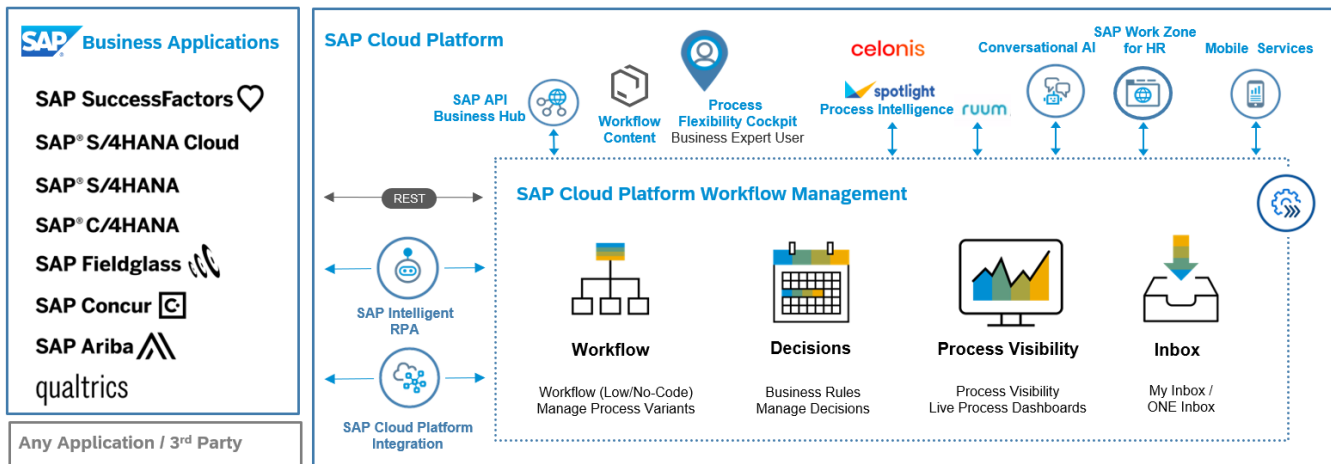
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This document enables you to setup your cloud platform trial account before you start Workflow Management hands on exercise.

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.

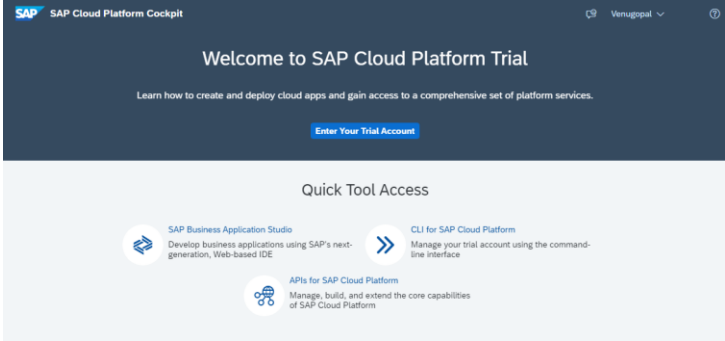
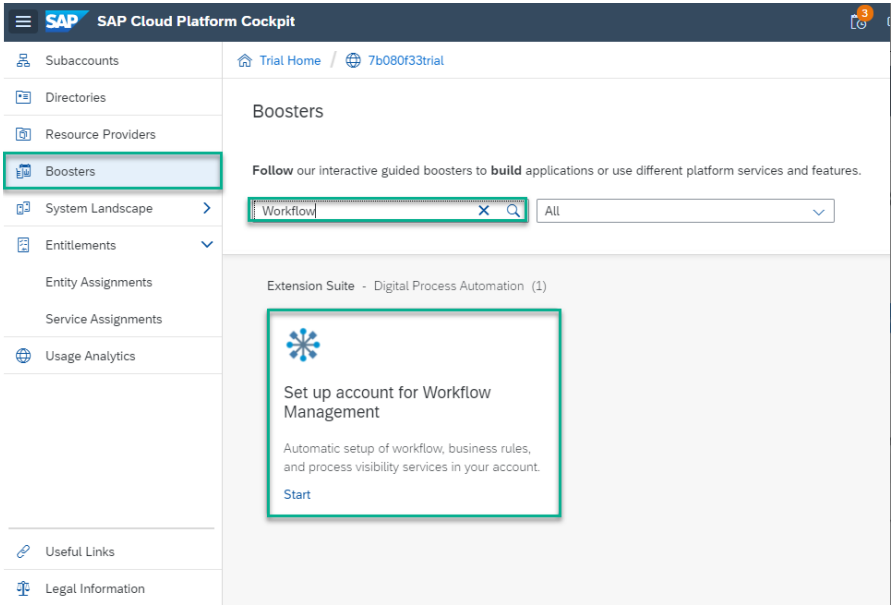
- Workflow
- Business Rules
- Process Visibility
- My Inbox
- Process Flexibility
- Live Process Content

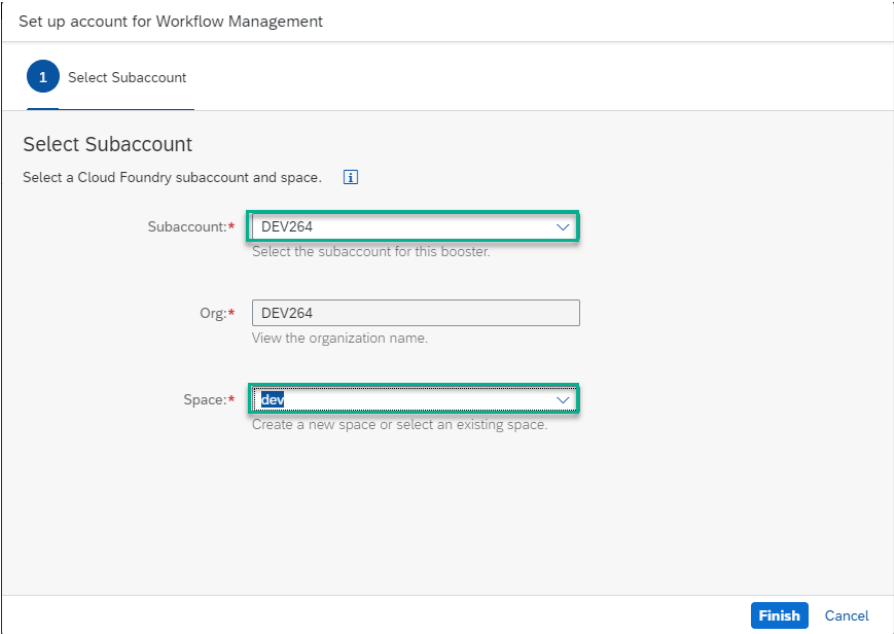
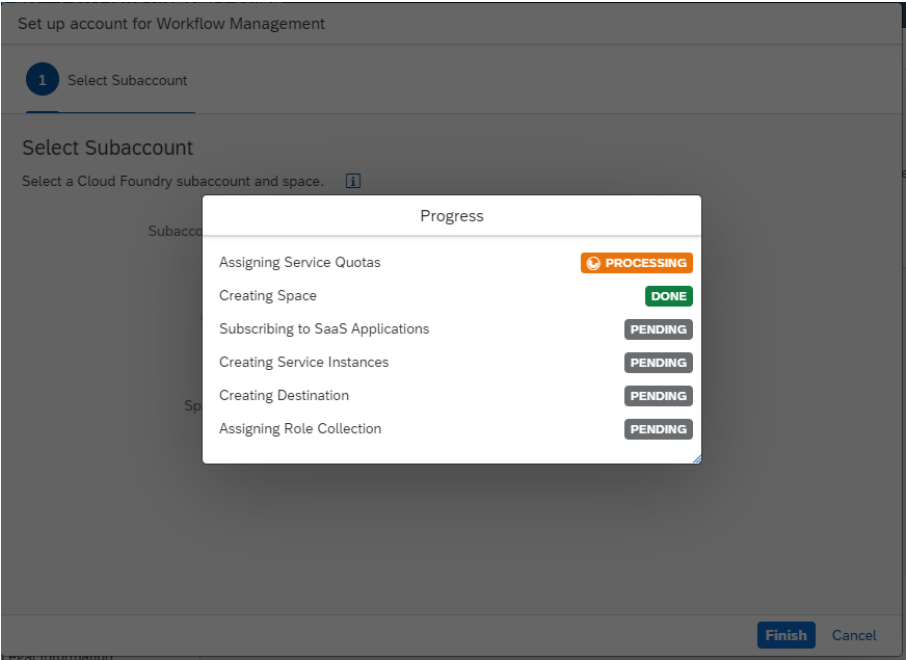


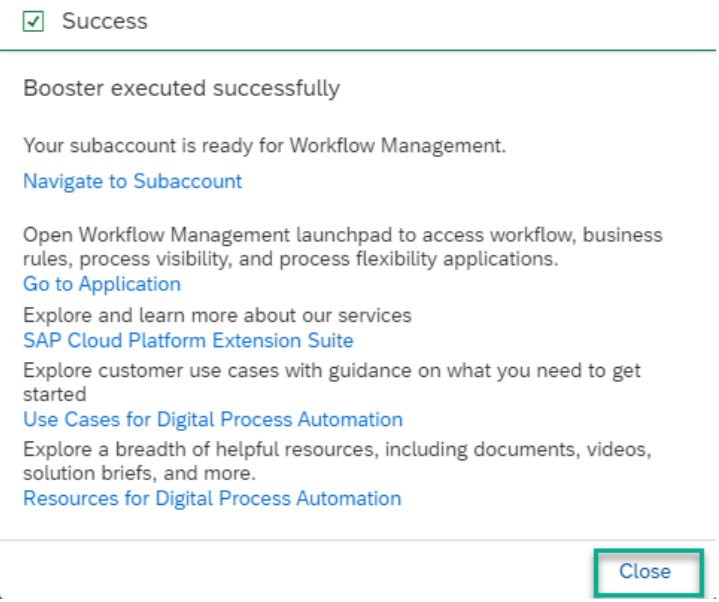
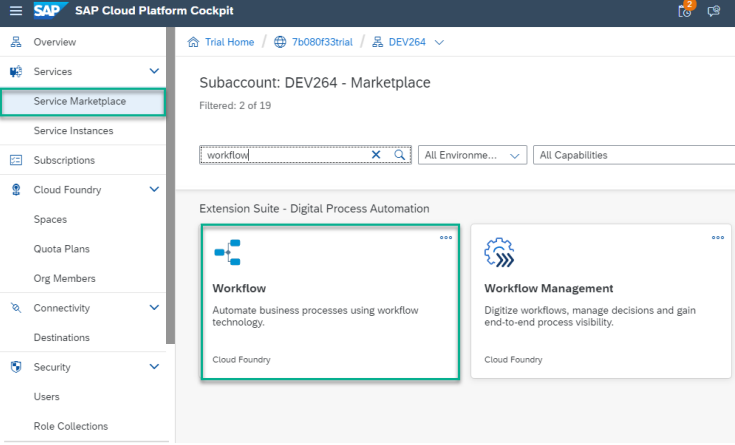
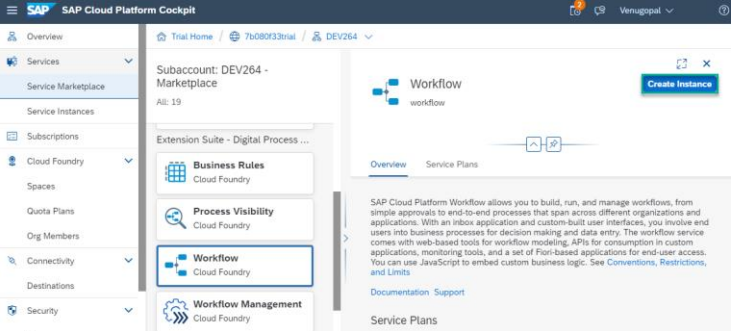
Prerequisite

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

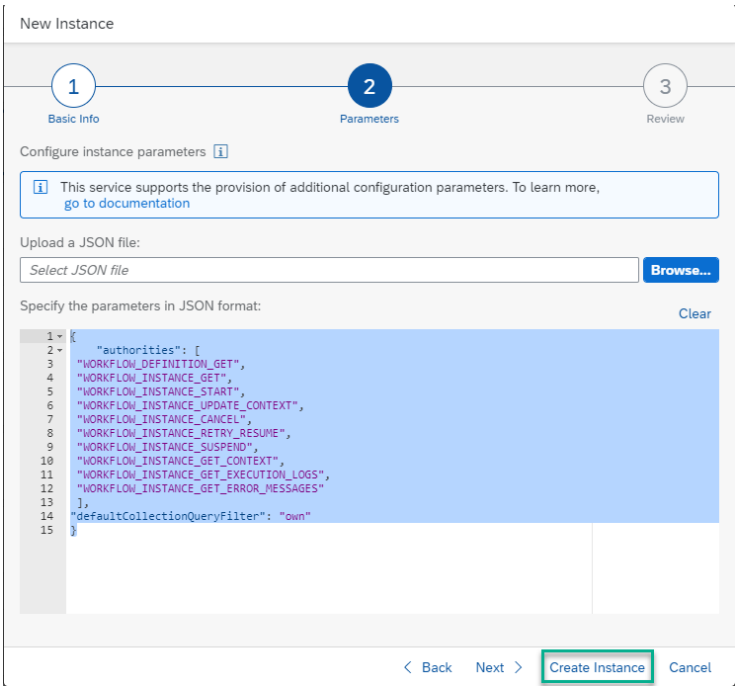
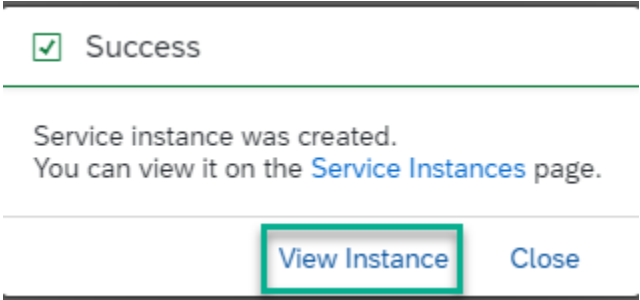
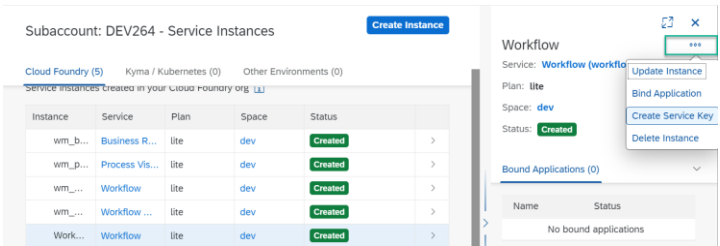
SUBSCRIBE AND CREATE WORKFLOW SERVICE INSTANCE

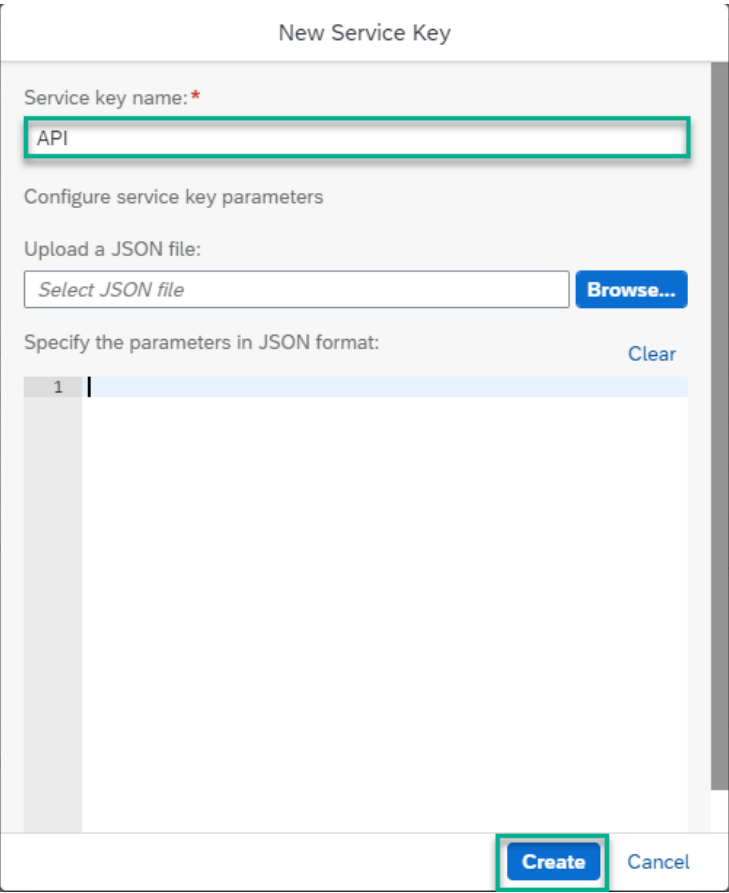
Explanation	Screenshot
<div>1. Copy and paste the url to access your SAP Cloud Platform Trial landscape.</div> <div>2. Click Enter Your Trial Account</div> <div>If you have not yet created a Cloud Platform trial account, Register for a free trial account.</div>	
<div>3. Click Boosters to setup Workflow Management in your trial account. If you have already subscribed Workflow Management, skip this step.</div> <div>4. Search Workflow, select Setup account for Workflow Management and click Start.</div>	

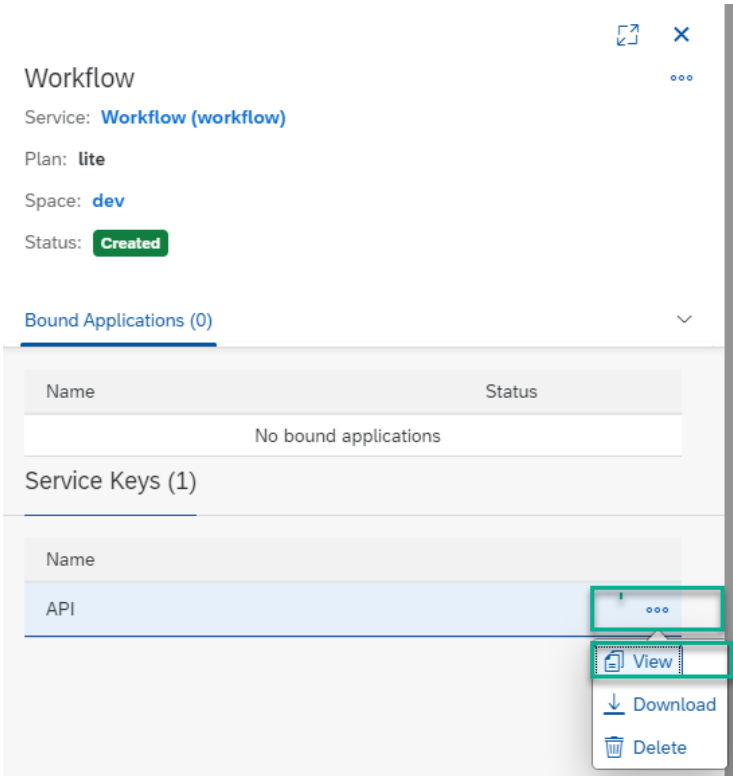
Explanation	Screenshot
<div>5. Select your Subaccount, Space and click Finish button.</div> <div>This will take couple of minutes to complete. The booster does the following tasks.</div> <div><ul style="list-style-type: none">• Creating Space if required.• Subscribing services and applications.• Creating 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 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 link "Go to Application". Then, it says "Explore and learn more about our services" and provides a link "SAP Cloud Platform Extension Suite". Next, it says "Explore customer use cases with guidance on what you need to get started" and provides a 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 link "Resources for Digital Process Automation". At the bottom right, there is a "Close" button.</p>
<p>7. Select Service Market Place and search Workflow. 8. Select Workflow tile.</p>	 <p>A screenshot of the SAP Cloud Platform Cockpit Service Marketplace. The left sidebar shows the navigation menu with "Service Marketplace" selected. 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: "Workflow" and "Workflow Management". The "Workflow" tile is highlighted with a green box. It contains the text "Automate business processes using workflow technology." and "Cloud Foundry". The "Workflow Management" tile contains the text "Digitize workflows, manage decisions and gain end-to-end process visibility." and "Cloud Foundry".</p>
<p>9. Select Workflow → click Create Instance</p>	 <p>A screenshot of the SAP Cloud Platform Cockpit showing the "Workflow" tile selected in the Service Marketplace. The left sidebar shows the navigation menu with "Workflow" selected. 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 box. It contains the text "Automate business processes using workflow technology." and "Cloud Foundry". 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 box.</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>

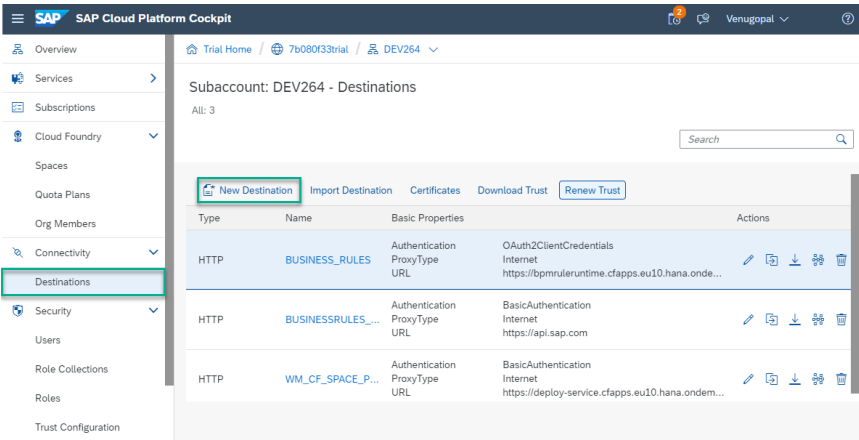
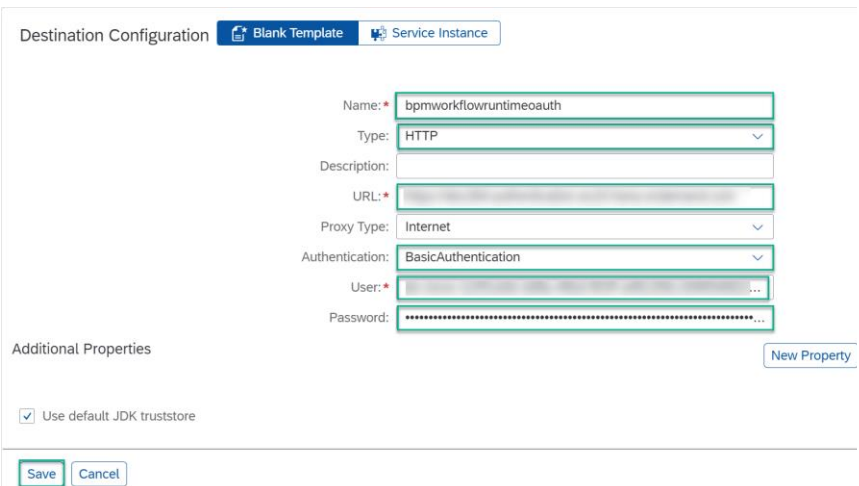
Explanation	Screenshot
<p>12. Replace the JSON content with the below content.</p> <pre>{ "authorities": ["WORKFLOW_DEFINITION_GET", "WORKFLOW_INSTANCE_GET", "WORKFLOW_INSTANCE_START", "WORKFLOW_INSTANCE_UPDATE_CONTEXT", "WORKFLOW_INSTANCE_CANCEL", "WORKFLOW_INSTANCE_RETRY_RESUME", "WORKFLOW_INSTANCE_SUSPEND", "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>	

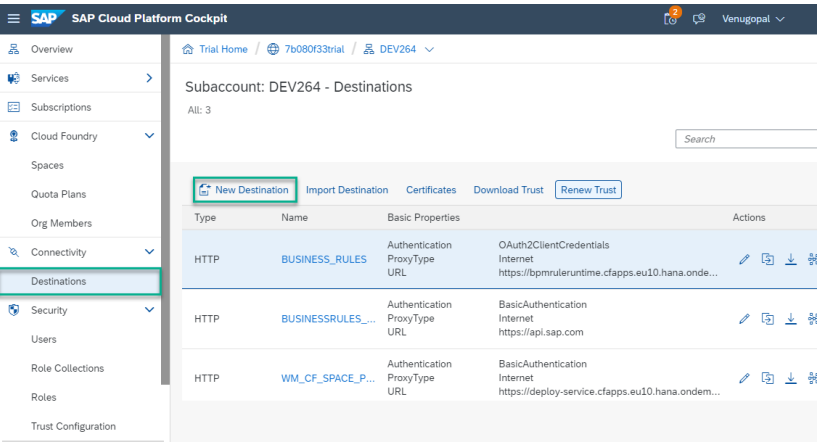
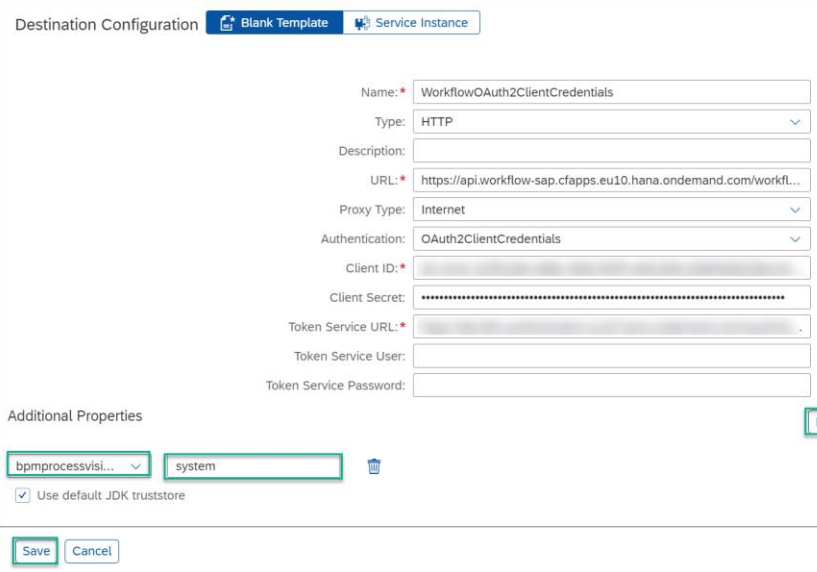
Explanation	Screenshot
<p>16. Enter Service key name as "API".</p> <p>17. Click Create button.</p>	

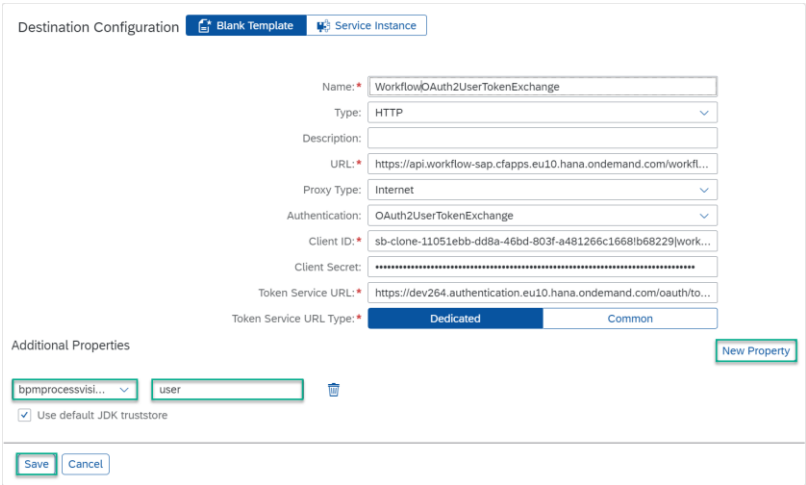
Explanation	Screenshot
18. Click the three dots (...) and select View .	

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><i>It is used while creating a destination to call Workflow APIs in the next section.</i></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", "sbnrl": "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>The screenshot shows the SAP Cloud Platform Cockpit interface. On the left, the 'Destinations' menu item is highlighted. The main area displays 'Subaccount: DEV264 - Destinations' with a table of three existing destinations. The 'New Destination' button is highlighted with a green box.</p> <table><tr><th>Type</th><th>Name</th><th>Basic Properties</th><th>Actions</th></tr><tr><td>HTTP</td><td>BUSINESS_RULES</td><td>Authentication ProxyType URL OAuth2ClientCredentials Internet https://bpmluleruntime.cfapps.eu10.hana.onde...</td><td>[Edit] [Copy] [Download] [Delete]</td></tr><tr><td>HTTP</td><td>BUSINESSRULES_...</td><td>Authentication ProxyType URL BasicAuthentication Internet https://api.sap.com</td><td>[Edit] [Copy] [Download] [Delete]</td></tr><tr><td>HTTP</td><td>WM_CF_SPACE_P...</td><td>Authentication ProxyType URL BasicAuthentication Internet https://deploy-service.cfapps.eu10.hana.ondem...</td><td>[Edit] [Copy] [Download] [Delete]</td></tr></table>	Type	Name	Basic Properties	Actions	HTTP	BUSINESS_RULES	Authentication ProxyType URL OAuth2ClientCredentials Internet https://bpmluleruntime.cfapps.eu10.hana.onde...	[Edit] [Copy] [Download] [Delete]	HTTP	BUSINESSRULES_...	Authentication ProxyType URL BasicAuthentication Internet https://api.sap.com	[Edit] [Copy] [Download] [Delete]	HTTP	WM_CF_SPACE_P...	Authentication ProxyType URL BasicAuthentication Internet https://deploy-service.cfapps.eu10.hana.ondem...	[Edit] [Copy] [Download] [Delete]
Type	Name	Basic Properties	Actions														
HTTP	BUSINESS_RULES	Authentication ProxyType URL OAuth2ClientCredentials Internet https://bpmluleruntime.cfapps.eu10.hana.onde...	[Edit] [Copy] [Download] [Delete]														
HTTP	BUSINESSRULES_...	Authentication ProxyType URL BasicAuthentication Internet https://api.sap.com	[Edit] [Copy] [Download] [Delete]														
HTTP	WM_CF_SPACE_P...	Authentication ProxyType URL BasicAuthentication Internet https://deploy-service.cfapps.eu10.hana.ondem...	[Edit] [Copy] [Download] [Delete]														
<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>The screenshot shows the 'Destination Configuration' form. The fields are filled with the following values: Name: bpmworkflowruntimeoauth, Type: HTTP, URL: (redacted), Proxy Type: Internet, Authentication: BasicAuthentication, User: (redacted), Password: (redacted). The 'Save' button is highlighted with a green box.</p> <p>Destination Configuration [Blank Template] [Service Instance]</p> <p>Name: * bpmworkflowruntimeoauth</p> <p>Type: HTTP</p> <p>Description:</p> <p>URL: * (redacted)</p> <p>Proxy Type: Internet</p> <p>Authentication: BasicAuthentication</p> <p>User: * (redacted)</p> <p>Password: (redacted)</p> <p>Additional Properties [New Property]</p> <p><input checked="" type="checkbox"/> Use default JDK truststore</p> <p>[Save] [Cancel]</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>	

You have completed the trial setup and in the next exercise - model workflows.

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