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# **Deep dive into SAP Cloud Platform Workflow Management – Setup guide**

## **DEV-264**

Exercises / Solutions  
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TABLE OF CONTENTS

SAP CLOUD PLATFORM WORKFLOW MANAGMENT .....3

Prerequisite.....3

SUBSCRIBE AND CREATE WORKFLOW SERVICE INSTANCE.....4

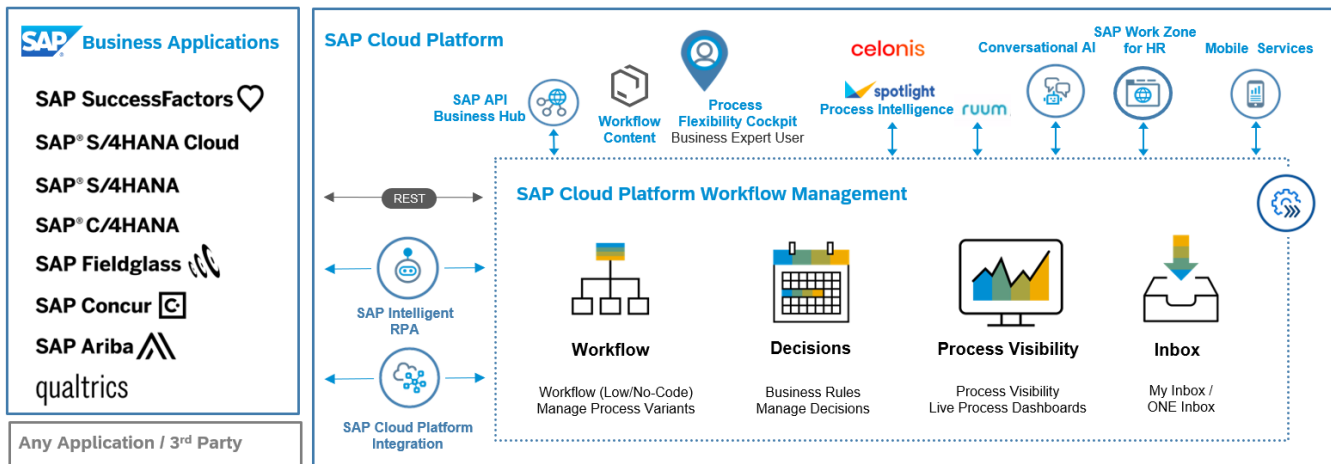
CREATE WORKFLOW OAUTH DESTINATIONS .....11

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.

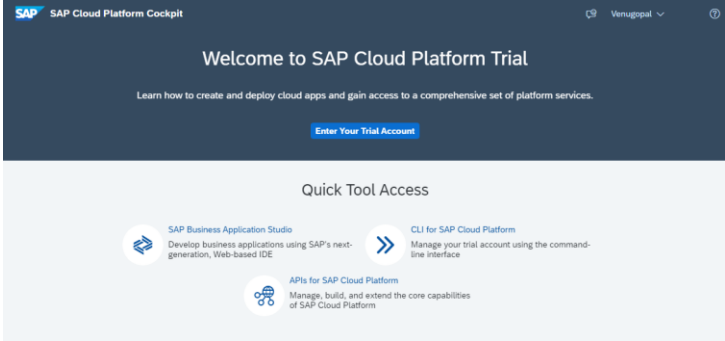
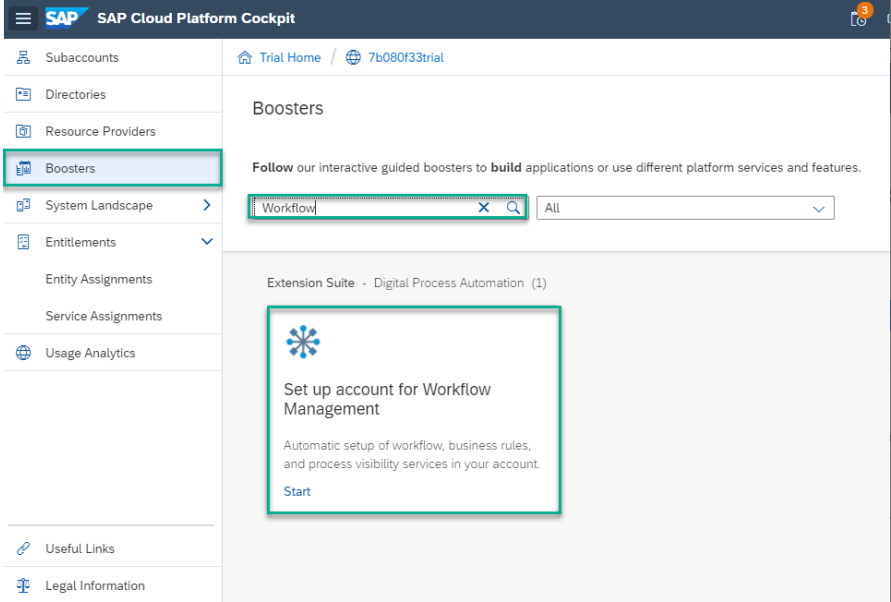
- Workflow
- Business Rules
- Process Visibility
- My Inbox
- Process Flexibility
- Live Process Content

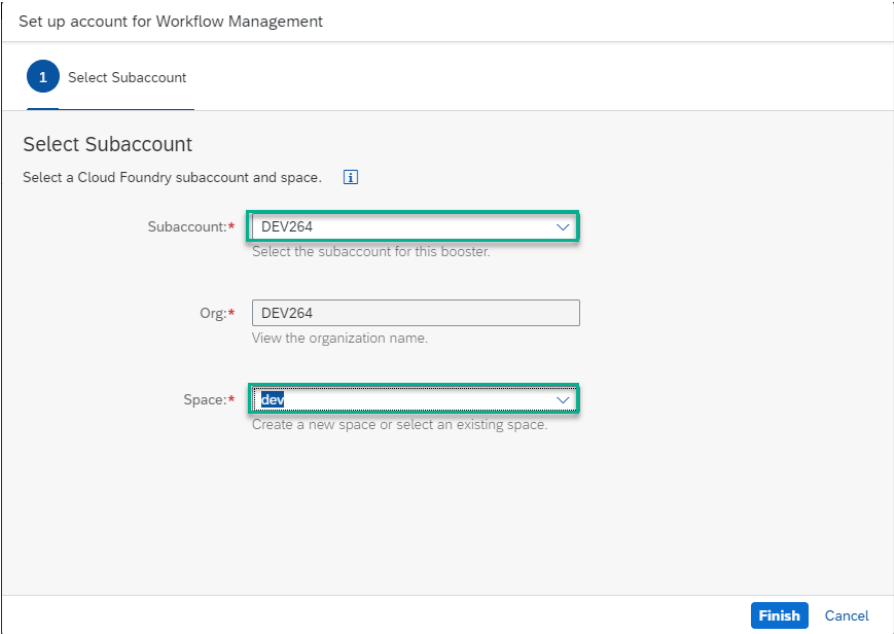
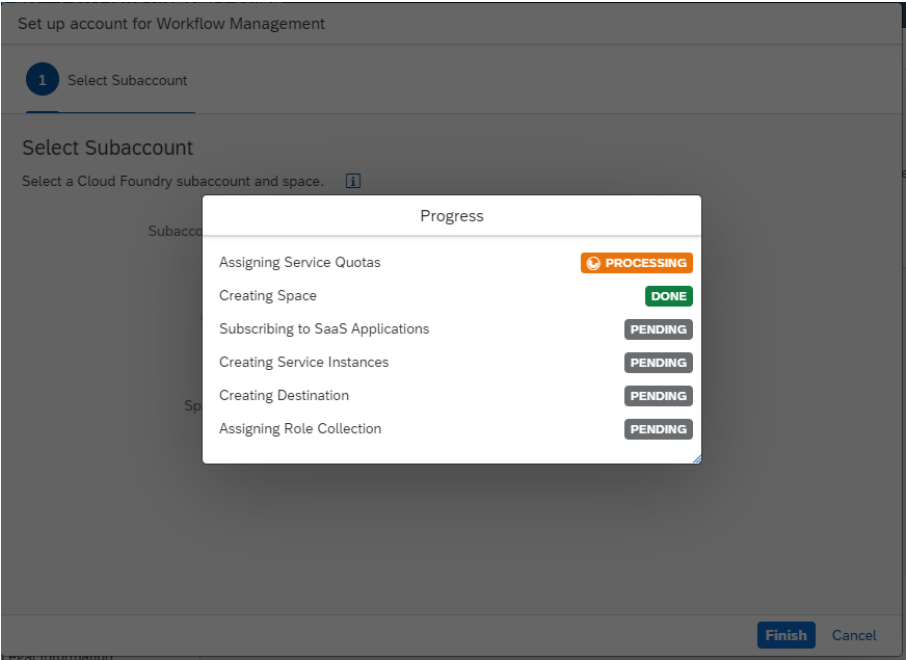


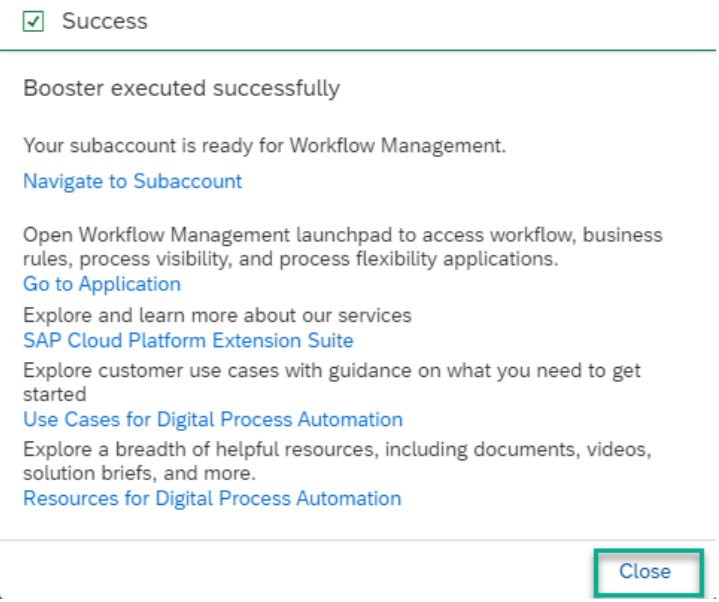
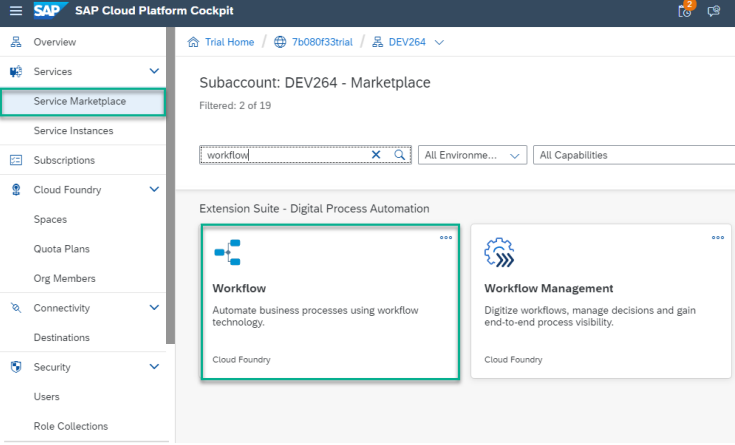
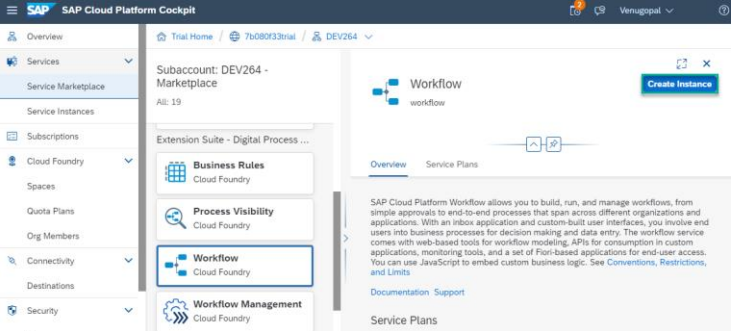
### Prerequisite

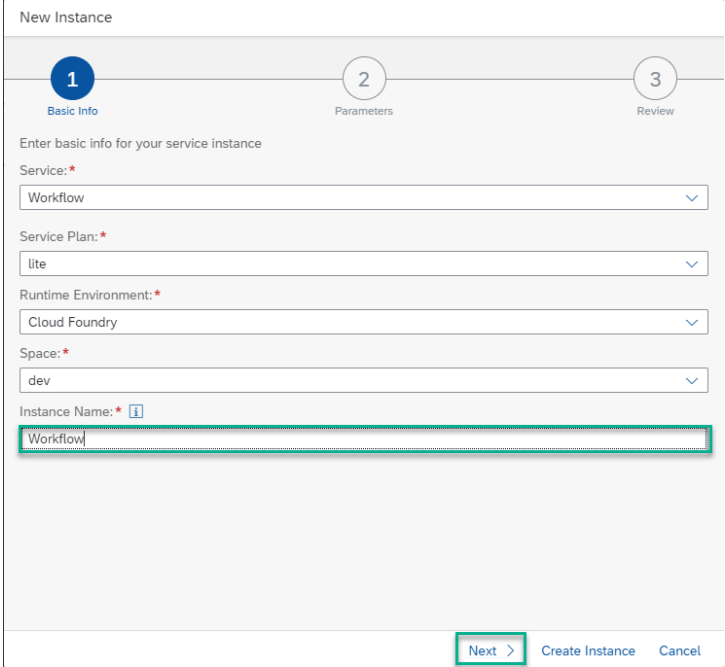
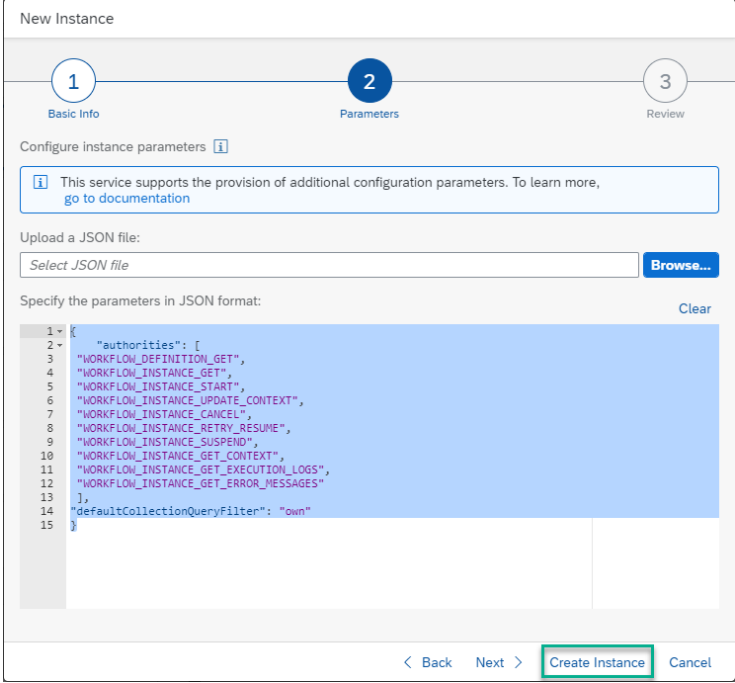
Please make sure you have an SAP Cloud Platform trial account **without** have subscription to Cloud Platform Workflow, SAP Intelligent Robotic Process Automation.

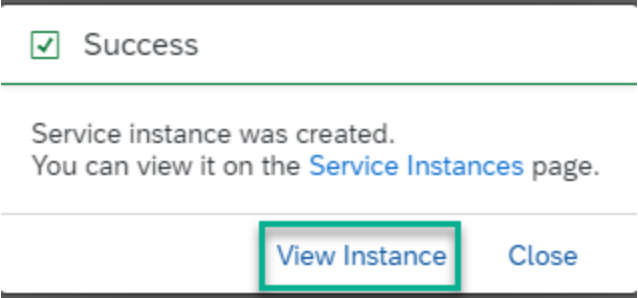
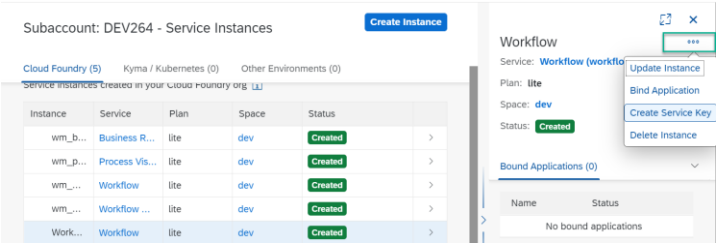
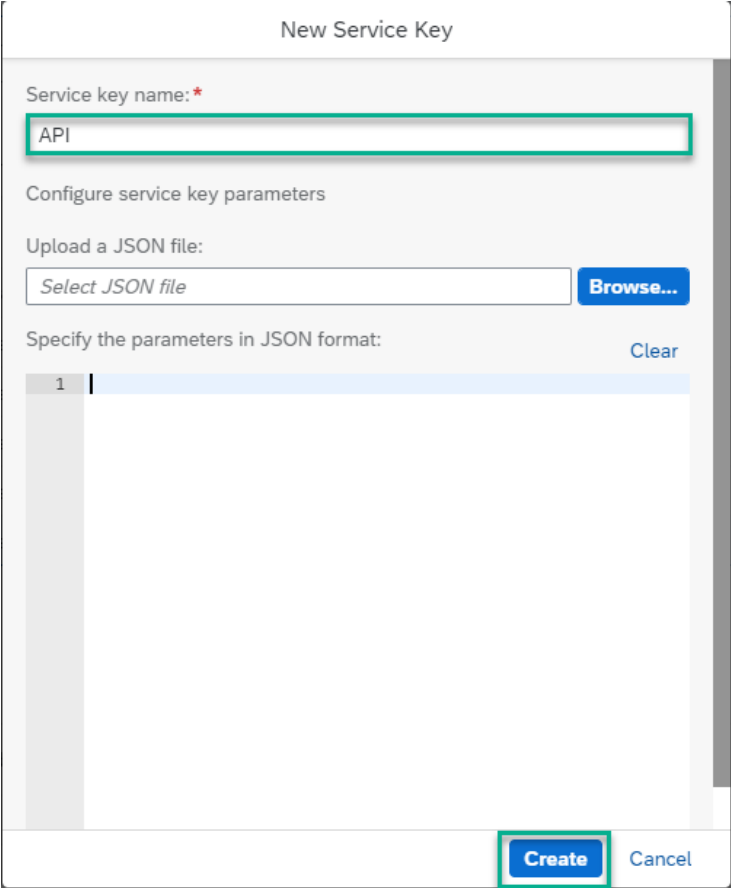
SUBSCRIBE AND CREATE WORKFLOW SERVICE INSTANCE

Explanation	Screenshot
<div>1. Copy and paste the <a href="#">url</a> to access your SAP Cloud Platform Trial landscape.</div> <div>2. Click <b>Enter Your Trial Account</b></div> <div>If you have not yet created a Cloud Platform trial account, <a href="#">Register</a> 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 <b>Workflow</b>, select <b>Setup account for Workflow Management</b> and click <b>Start</b>.</div>	

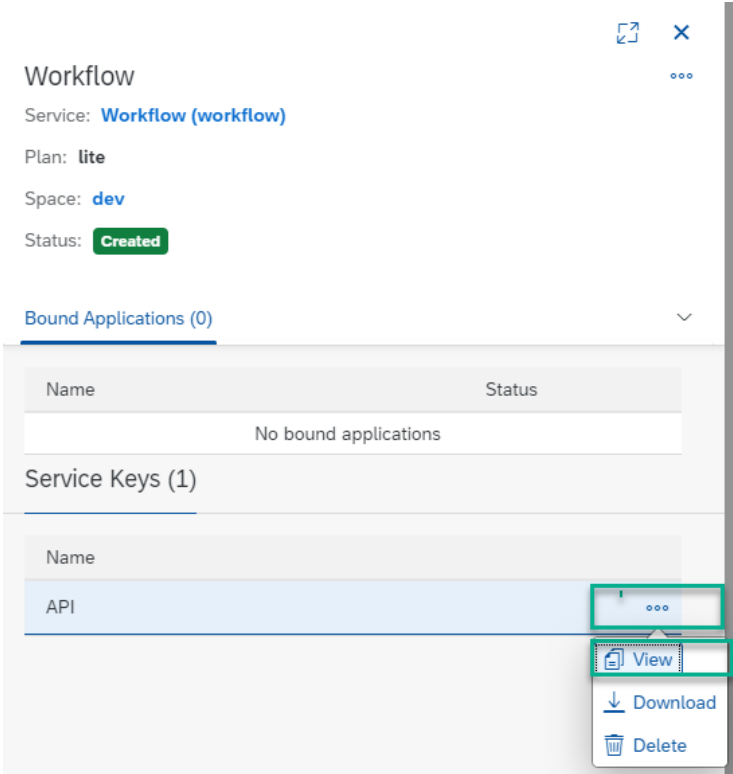
Explanation	Screenshot
<div>5. Select your <b>Subaccount</b>, <b>Space</b> and click <b>Finish</b> button.</div> <div>This will take couple of minutes to complete. The booster does the following tasks.</div> <div><ul style="list-style-type: none"><li>• Creating Space if required.</li><li>• Subscribing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

Explanation	Screenshot
<p>6. Successful completion of the Booster will show the message and click <b>Close</b> button.</p>	 <p>A success message window titled "Success" with a green checkmark icon. The text inside reads: "Booster executed successfully", "Your subaccount is ready for Workflow Management.", and a link "Navigate to Subaccount". Below this, it says "Open Workflow Management launchpad to access workflow, business rules, process visibility, and process flexibility applications." followed by a link "Go to Application". Then, "Explore and learn more about our services" with a link "SAP Cloud Platform Extension Suite", "Explore customer use cases with guidance on what you need to get started" with a link "Use Cases for Digital Process Automation", and "Explore a breadth of helpful resources, including documents, videos, solution briefs, and more." with a link "Resources for Digital Process Automation". A "Close" button is at the bottom right.</p>
<p>7. Select Service Market Place and search <b>Workflow</b>.</p> <p>8. Select <b>Workflow</b> tile.</p>	 <p>A screenshot of the SAP Cloud Platform Cockpit interface. The left sidebar shows the navigation menu with "Service Marketplace" selected. The main area displays "Subaccount: DEV264 - Marketplace" with a search bar containing "workflow". Below the search bar, there are two tiles: "Workflow" (highlighted with a green box) and "Workflow Management". The "Workflow" tile description says "Automate business processes using workflow technology." and "Cloud Foundry".</p>
<p>9. Select Workflow → click <b>Create Instance</b></p>	 <p>A screenshot of the SAP Cloud Platform Cockpit interface showing the "Workflow" tile selected. The "Create Instance" button is highlighted with a green box. The main area displays the "Workflow" service details, including a diagram of a workflow and a description: "SAP Cloud Platform Workflow allows you to build, run, and manage workflows, from simple approvals to end-to-end processes that span across different organizations and applications. With an inbox application and custom-built user interfaces, you involve end users into business processes for decision making and data entry. The workflow service comes with web-based tools for workflow modeling, APIs for consumption in custom applications, monitoring tools, and a set of Fiori-based applications for end-user access. You can use JavaScript to embed custom business logic. See Conventions, Restrictions, and Limits." Below this, there are links for "Documentation" and "Support", and a section for "Service Plans".</p>

Explanation	Screenshot
<div>10. Enter <b>Instance Name:</b> Workflow</div> <div>11. Click <b>Next</b>.</div>	
<div>12. Replace the JSON content with the below content.</div> <div><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></div> <div>The authorities array contains the required scopes or authorization to call Workflow Service APIs.</div>	

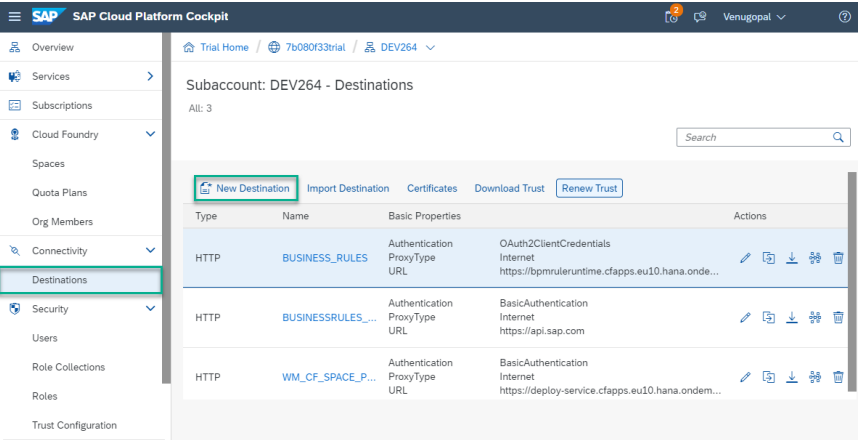
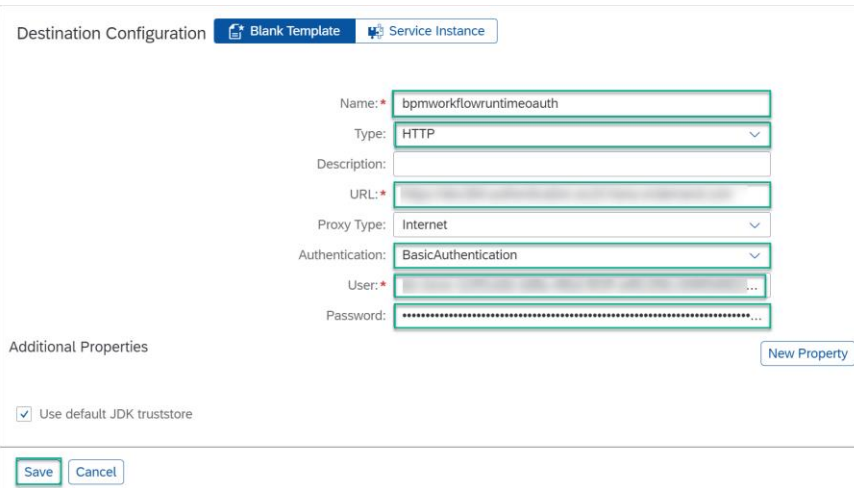
Explanation	Screenshot
<div>13. Successful creation of the service instance will show the message.</div> <div>14. Click <b>View Instance</b> button.</div>	 <p>A success message dialog box with a green checkmark icon and the text "Success". Below the icon, it says "Service instance was created. You can view it on the <a href="#">Service Instances</a> page." At the bottom, there are two buttons: "View Instance" (highlighted with a red rectangle) and "Close".</p>
<div>15. Click the three dots (...) and select <b>Create Service Key</b>.</div>	 <p>The screenshot shows the "Subaccount: DEV264 - Service Instances" page. It features a table of service instances and a right-hand sidebar. The sidebar shows details for a "Workflow" service instance, including its plan, space, and status. A context menu is open over the "Workflow" instance, showing options: "Update Instance", "Bind Application", "Create Service Key" (highlighted with a red rectangle), and "Delete Instance".</p>
<div>16. Enter Service key name as "API".</div> <div>17. Click Create button.</div>	 <p>The screenshot shows the "New Service Key" form. It has a text input field for "Service key name:" with the value "API" (highlighted with a red rectangle). Below this is a section "Configure service key parameters" with an "Upload a JSON file:" section containing a "Select JSON file" input and a "Browse..." button. There is also a "Specify the parameters in JSON format:" section with a "Clear" button and a text area. At the bottom right, there are "Create" (highlighted with a red rectangle) and "Cancel" buttons.</p>

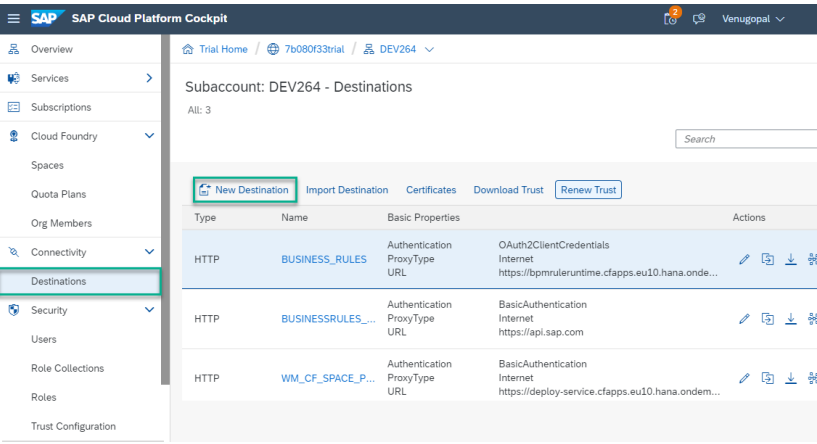
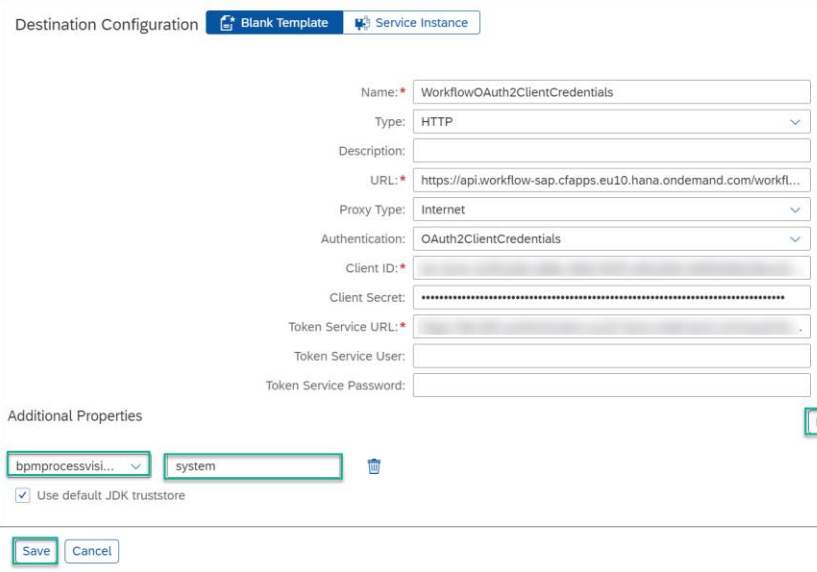


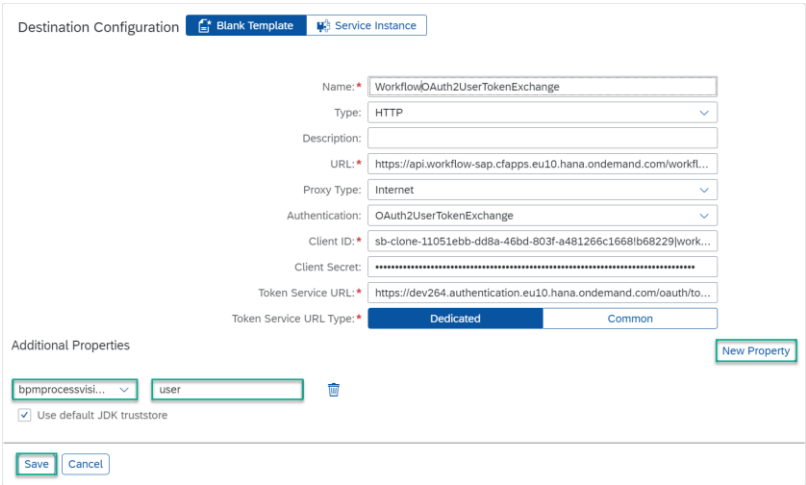
Explanation	Screenshot
18. Click the three dots (...) and select <b>View</b> .	 The screenshot shows a 'Workflow' page in a web application. At the top, there are details: 'Service: Workflow (workflow)', 'Plan: lite', 'Space: dev', and 'Status: Created'. Below this is a section for 'Bound Applications (0)' which is empty. Underneath is a section for 'Service Keys (1)' containing a single entry named 'API'. A context menu is open for the 'API' entry, showing options: 'View', 'Download', and 'Delete'. The 'View' option is highlighted with a green box. The top right of the page has a close button and a three-dot menu icon.

Explanation	Screenshot
<div>19. The Service Key is displayed in a popup window.</div> <div>20. Copy the values of <b>workflow_rest_url</b> under <b>endpoints</b> json element and keep in a notepad.</div> <div>21. Copy the values of, <b>clientid</b>, <b>clientsecret</b> and <b>url</b> under the <b>uaa</b> 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>23. Enter the following in the new destination.</p> <p><b>Name:</b>bpmworkflowruntimeoauth</p> <p><b>Type:</b>HTTP</p> <p><b>URL:</b> copy the value of url from previous step.</p> <p><b>Proxy Type:</b> Internet</p> <p><b>Authentication:</b>BasicAuthentication</p> <p><b>User:</b> copy the value of clientid from previous step.</p> <p><b>Password:</b> copy the value of secret from previous step.</p>	
<p>24. Click <b>Save</b> button.</p> <p>Please refer <a href="#">create an OAuth Destination</a> section of Workflow help for more details.</p>	

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

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