

PUBLIC

Deep dive into SAP Business Technology Platform Workflow Management – Setup guide

DEV-264

Exercises / Solutions
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TABLE OF CONTENTS

SAP BUSINESS TECHNOLOGY WORKFLOW MANAGMENT.....3

Prerequisite.....3

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

CREATE WORKFLOW OAUTH DESTINATIONS12

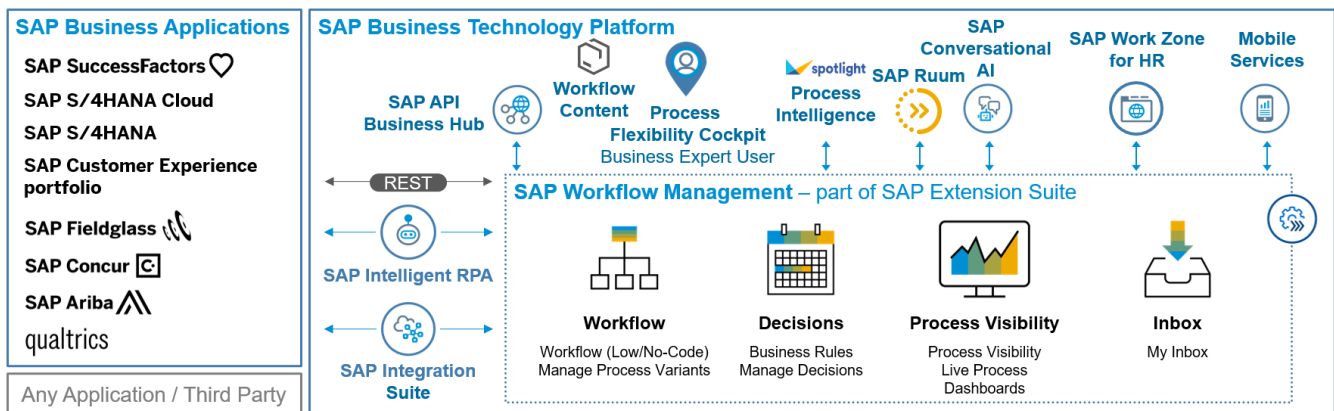
SUMMARY14

This document enables you to setup your Business Technology Platform trial account before you start Workflow Management hands on exercise.

SAP BUSINESS TECHNOLOGY WORKFLOW MANAGMENT

SAP Business Technology 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.

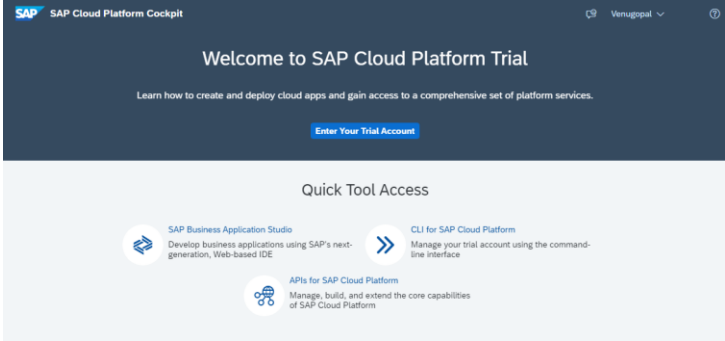
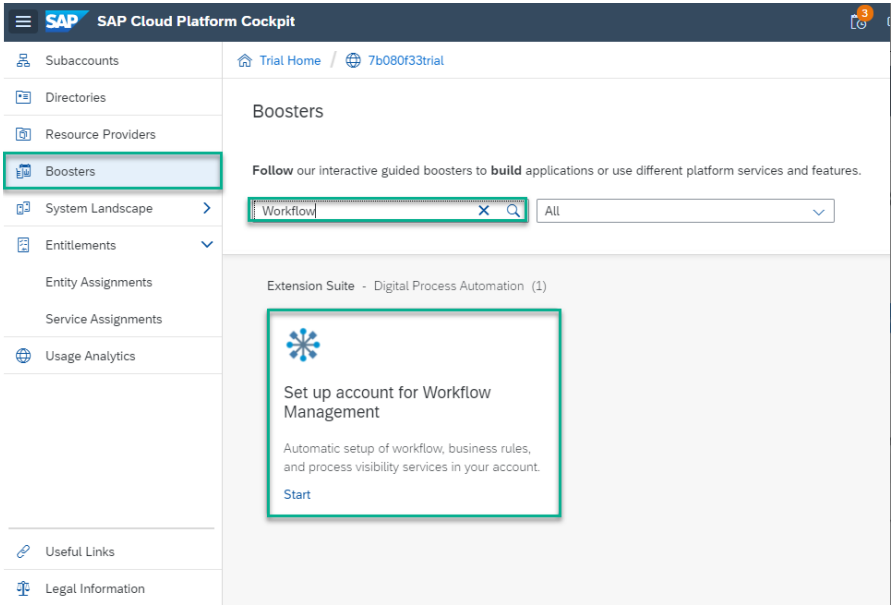
- Workflow
- Business Rules
- Process Visibility
- My Inbox
- Process Flexibility
- Live Process Content



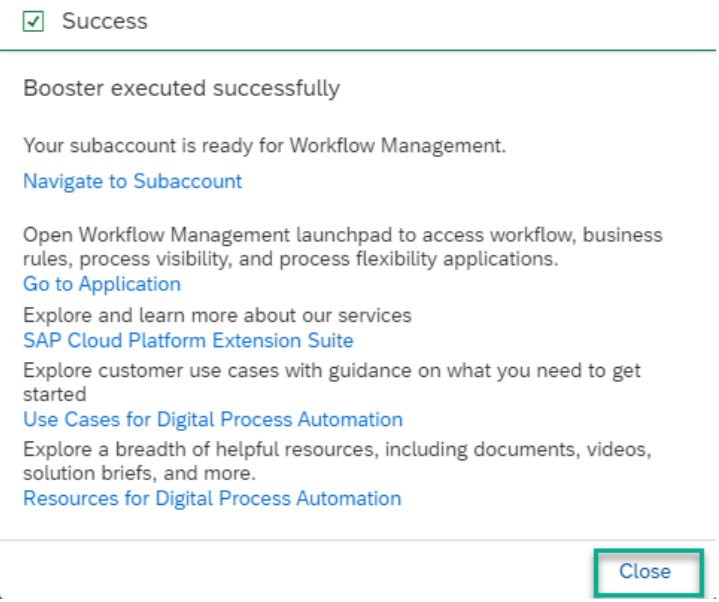
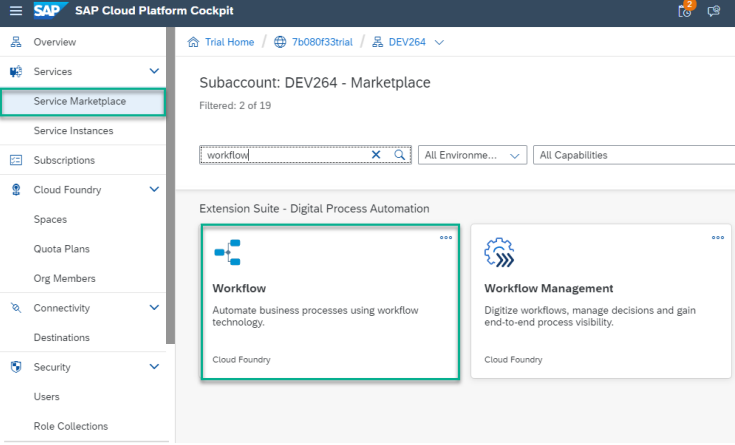
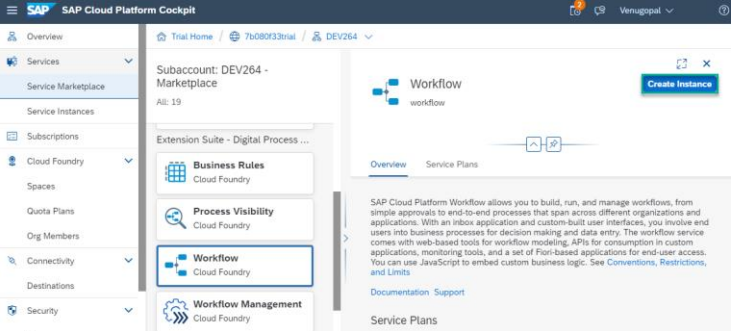
Prerequisite

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

SUBSCRIBE AND CREATE WORKFLOW SERVICE INSTANCE

| Explanation | Screenshot |
|---|---|
| <div>1. Copy and paste the <u>URL</u> to access your SAP Business Technology Platform Trial landscape.</div> <div>2. Click Enter Your Trial Account</div> <div>If you have not yet created a Business Technology Platform trial account, <u>Register</u> 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> |  |

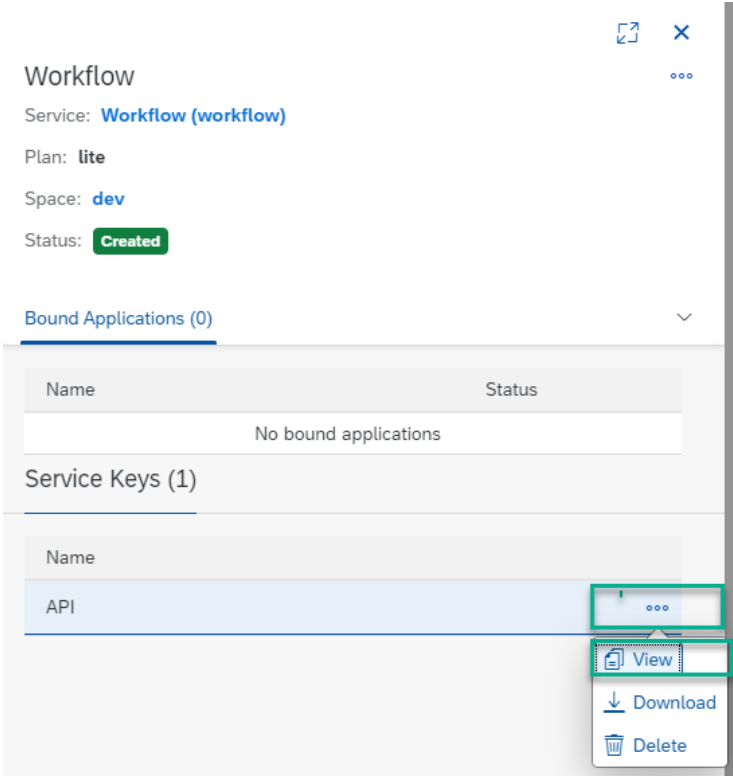
| Explanation | Screenshot |
|---|--|
| <div>5. Select your Subaccount, Space and click Finish button.</div> <div>This will take couple of minutes to complete. The booster does the following tasks.</div> <div><ul style="list-style-type: none">• Creating Space if required.• Subscribing services and applications.• Creating Service Instances.• Creating Destination• Assigning Role Collection</div> | <div><div><div>Set up account for Workflow Management</div><div><div>1</div>Select Subaccount</div><div>Select Subaccount</div><div>Select a Cloud Foundry subaccount and space. ⓘ</div><div><div>Subaccount:*</div><div>DEV264</div><div>Select the subaccount for this booster.</div></div><div><div>Org:*</div><div>DEV264</div><div>View the organization name.</div></div><div><div>Space:*</div><div>dev</div><div>Create a new space or select an existing space.</div></div><div><div>Finish</div><div>Cancel</div></div></div></div> <div><div><div>Set up account for Workflow Management</div><div><div>1</div>Select Subaccount</div><div>Select Subaccount</div><div>Select a Cloud Foundry subaccount and space. ⓘ</div><div><div>Subaccount</div><div>Space</div></div><div><div>Progress</div><div><div>Assigning Service Quotas</div><div>PROCESSING</div></div><div><div>Creating Space</div><div>DONE</div></div><div><div>Subscribing to SaaS Applications</div><div>PENDING</div></div><div><div>Creating Service Instances</div><div>PENDING</div></div><div><div>Creating Destination</div><div>PENDING</div></div><div><div>Assigning Role Collection</div><div>PENDING</div></div></div><div><div>Finish</div><div>Cancel</div></div></div></div> |

| Explanation | Screenshot |
|--|---|
| <p>6. Successful completion of the Booster will show the message and click Close button.</p> |  <p>Success</p> <p>Booster executed successfully</p> <p>Your subaccount is ready for Workflow Management.</p> <p>Navigate to Subaccount</p> <p>Open Workflow Management launchpad to access workflow, business rules, process visibility, and process flexibility applications.</p> <p>Go to Application</p> <p>Explore and learn more about our services</p> <p>SAP Cloud Platform Extension Suite</p> <p>Explore customer use cases with guidance on what you need to get started</p> <p>Use Cases for Digital Process Automation</p> <p>Explore a breadth of helpful resources, including documents, videos, solution briefs, and more.</p> <p>Resources for Digital Process Automation</p> <p>Close</p> |
| <p>7. Select Service Market Place and search Workflow.</p> <p>8. Select Workflow tile.</p> |  <p>SAP Cloud Platform Cockpit</p> <p>Subaccount: DEV264 - Marketplace</p> <p>Filtered: 2 of 19</p> <p>workflow</p> <p>Extension Suite - Digital Process Automation</p> <p>Workflow</p> <p>Automate business processes using workflow technology.</p> <p>Cloud Foundry</p> <p>Workflow Management</p> <p>Digitize workflows, manage decisions and gain end-to-end process visibility.</p> <p>Cloud Foundry</p> |
| <p>9. Select Workflow → click Create Instance</p> |  <p>SAP Cloud Platform Cockpit</p> <p>Subaccount: DEV264 - Marketplace</p> <p>All: 19</p> <p>Extension Suite - Digital Process ...</p> <p>Business Rules</p> <p>Cloud Foundry</p> <p>Process Visibility</p> <p>Cloud Foundry</p> <p>Workflow</p> <p>Cloud Foundry</p> <p>Workflow Management</p> <p>Cloud Foundry</p> <p>Workflow</p> <p>workflow</p> <p>Create Instance</p> <p>Overview Service Plans</p> <p>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</p> <p>Documentation Support</p> <p>Service Plans</p> |

| Explanation | Screenshot |
|--|---|
| 10. Enter Instance Name: Workflow 11. Click Next . | <p>The screenshot shows a 'New Instance' form with three steps: 1. Basic Info, 2. Parameters, and 3. Review. Step 1 is active. 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 border) <p>At the bottom right, there are three buttons: 'Next >' (highlighted with a green border), 'Create Instance', and 'Cancel'.</p> |

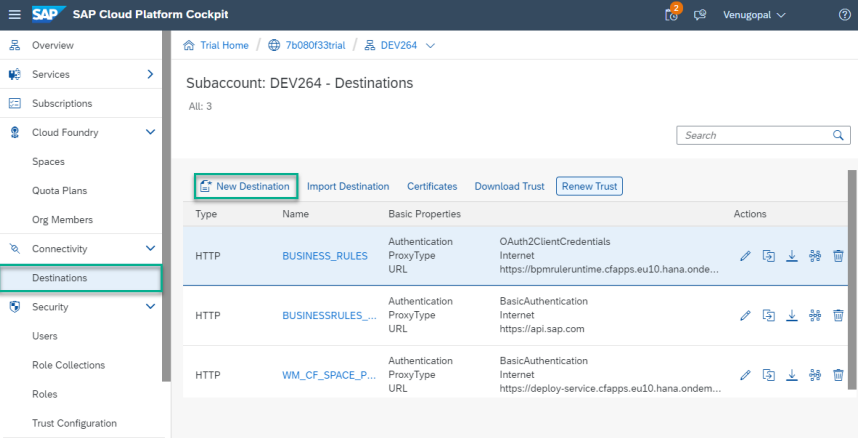
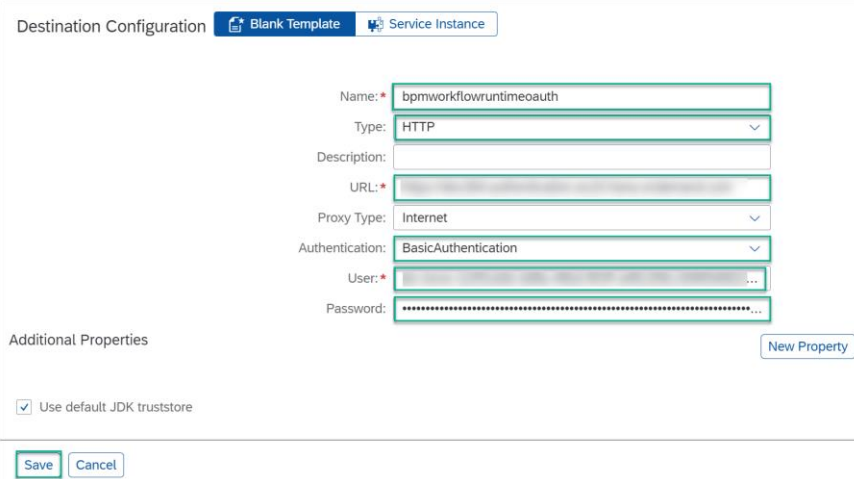
| Explanation | Screenshot |
|--|------------|
| <p>12. Replace the JSON content with the below content.</p> <pre>{ "authorities": ["WORKFLOW_DEFINITION_GET", "WORKFLOW_INSTANCE_GET", "WORKFLOW_INSTANCE_START", "WORKFLOW_INSTANCE_UPDATE_CONTEXT", "WORKFLOW_INSTANCE_CANCEL", "WORKFLOW_INSTANCE_RETRY_RESUME", "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>Configure service key parameters</div><div>Upload a JSON file:</div><div><div>Select JSON file</div><div>Browse...</div></div><div>Specify the parameters in JSON format:</div><div><div>Clear</div><div>1</div></div><div><div>Create</div><div>Cancel</div></div></div> |

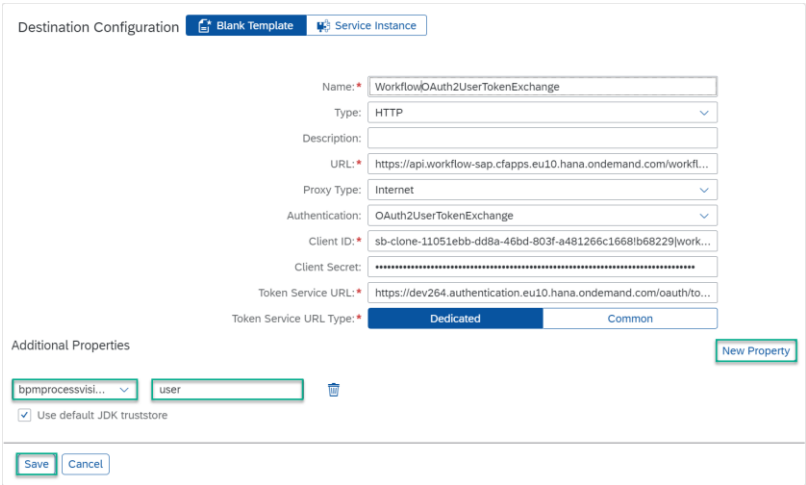
| Explanation | Screenshot |
|---|--|
| 18. Click the three dots (...) and select View . |  <p>The screenshot displays the 'Workflow' page in a user interface. At the top, the title 'Workflow' is shown with a close button (X) and a three-dot menu icon. Below the title, the following details are listed: Service: Workflow (workflow), Plan: lite, Space: dev, and Status: Created. A section titled 'Bound Applications (0)' is shown with a dropdown arrow. Below this is a table with columns 'Name' and 'Status', containing the text 'No bound applications'. The 'Service Keys (1)' section is highlighted with a blue underline. It contains a table with one row: 'API'. To the right of the 'API' row, a context menu is open, showing options: View, Download, and Delete. The 'View' option is highlighted with a green box.</p> |

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

SUMMARY

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

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