Deep dive into SAP Cloud Platform Workflow Management – Setup guide
DEV-264

Exercises / Solutions
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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 MANAGMENT

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.
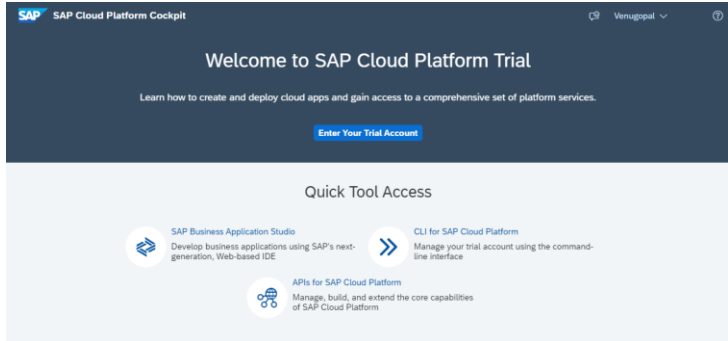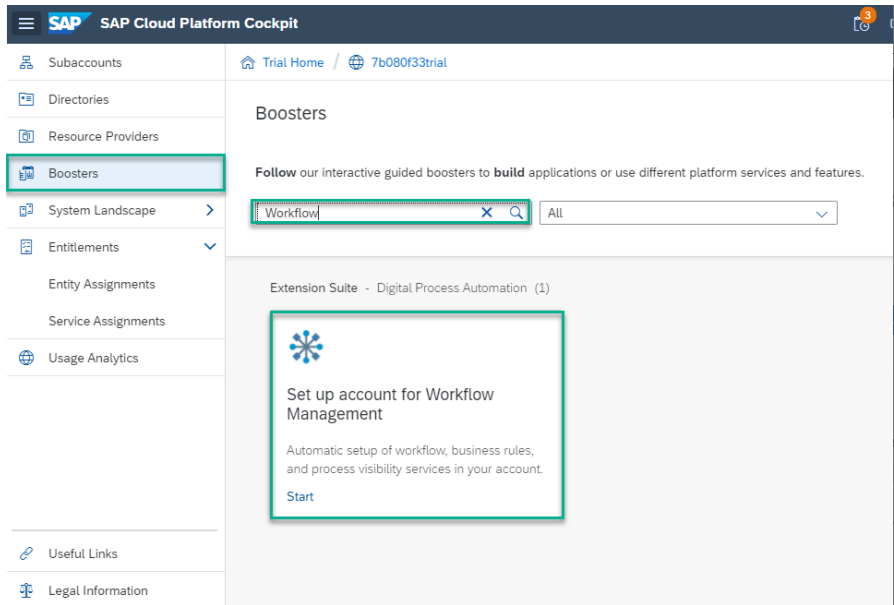
- Workflow

- Business Rules

- Process Visibility

- My Inbox

- Process Flexibility
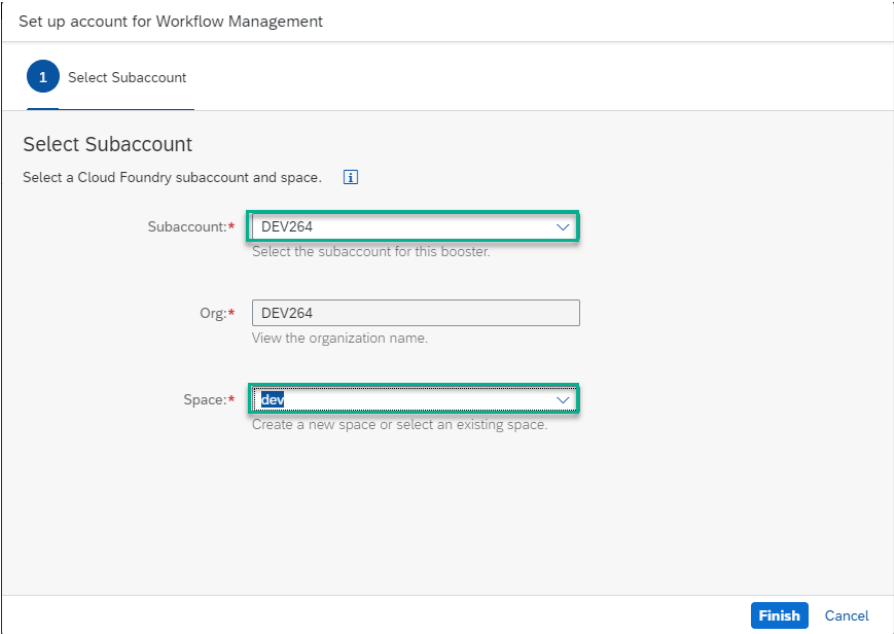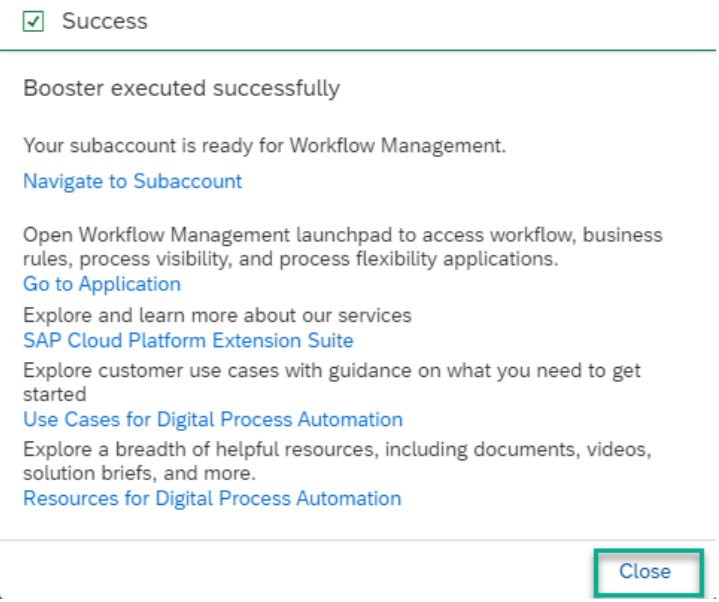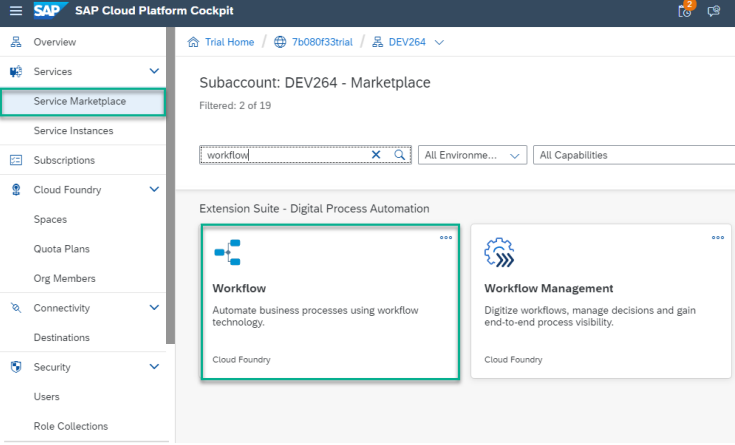
- Live Process Content
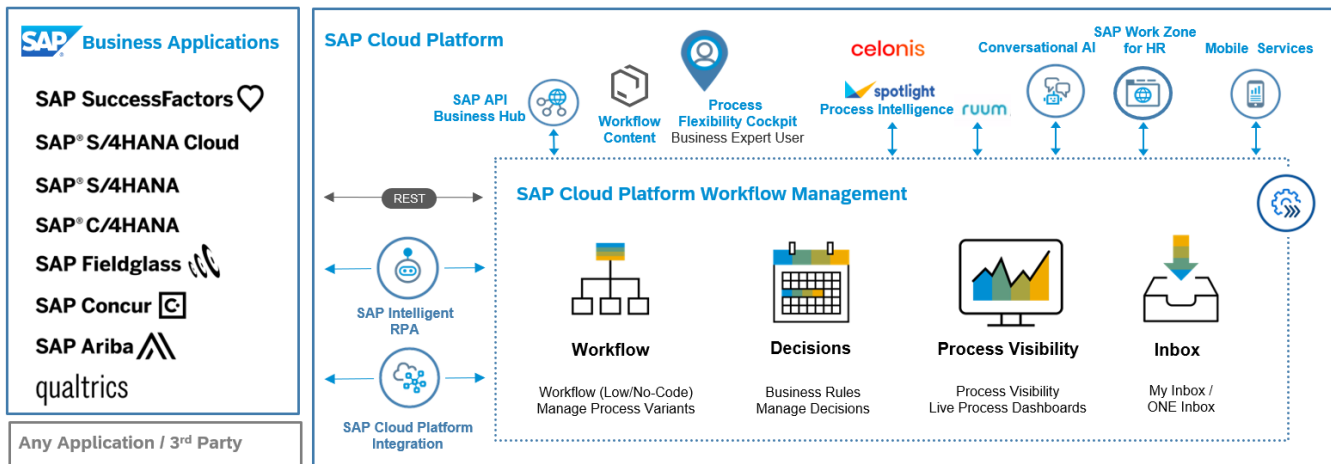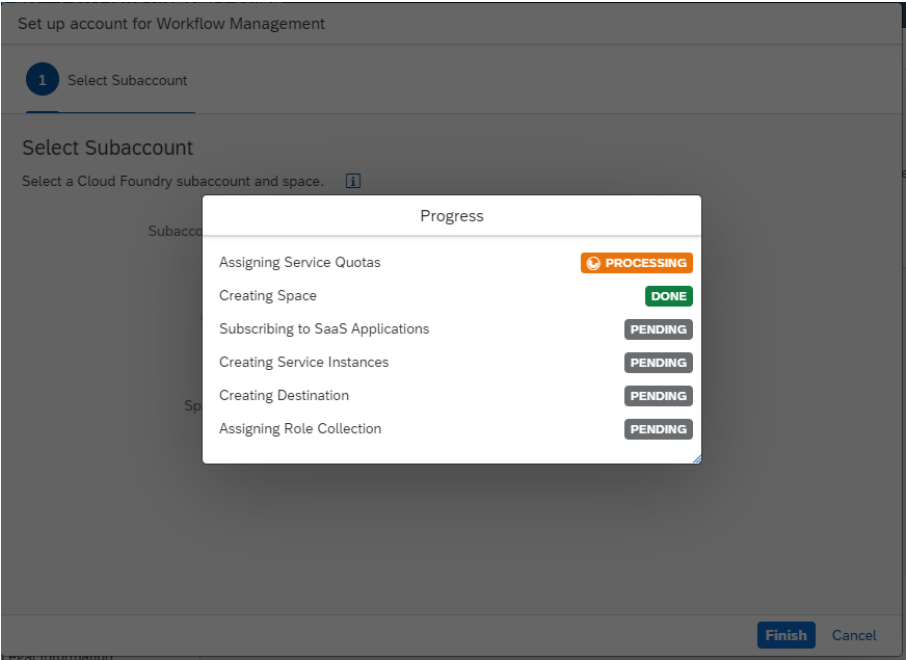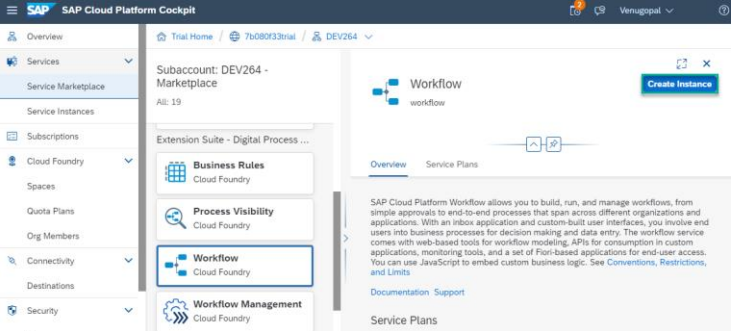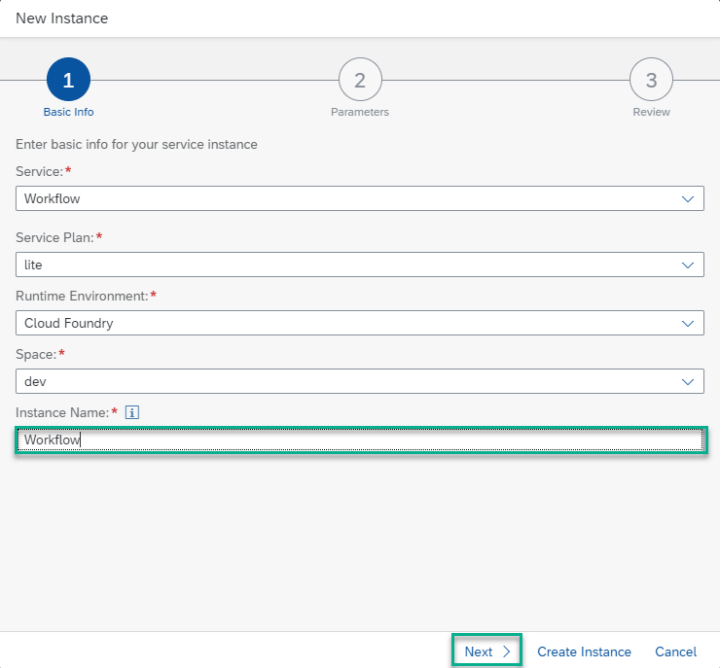
Prerequisite
Please make sure you have an SAP Cloud Platform trial account **without** subscription to SAP Cloud Platform Workflow, SAP Intelligent Robotic Process Automation.
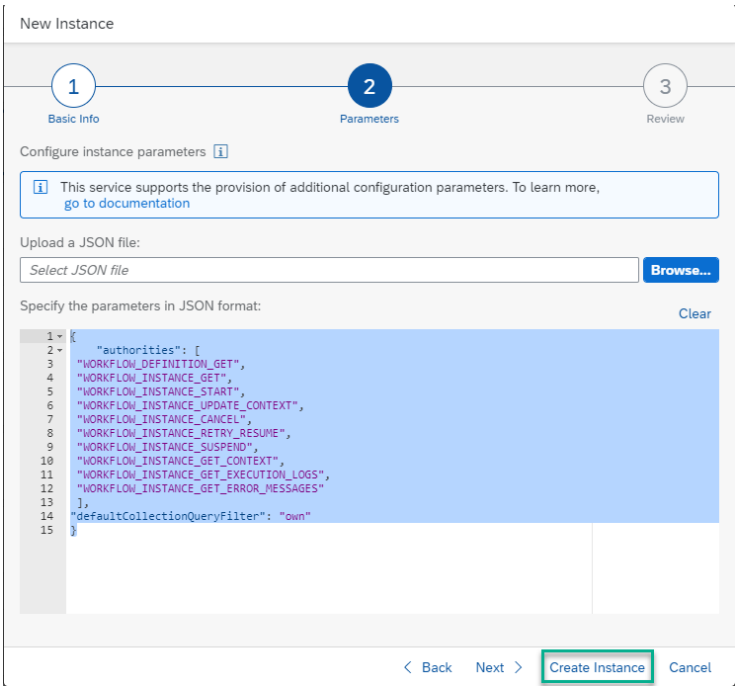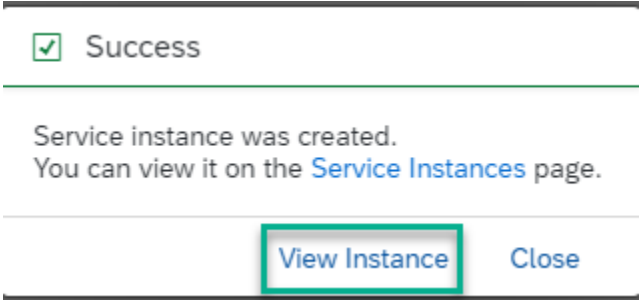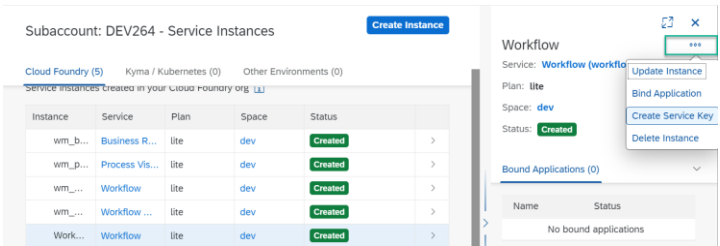
SUBSCRIBE AND CREATE WORKFLOW SERVICE INSTANCE

Explanation	Screenshot
1. Copy and paste the URL to access your SAP Cloud Platform Trial landscape. 2. Click **Enter Your Trial Account** If you have not yet created a Cloud Platform trial account, Register for a free trial account.	
3. Click Boosters to setup Workflow Management in your trial account. If you have already subscribed Workflow Management, skip this step. 4. Search **Workflow**, select **Setup account for Workflow Management** and click **Start**.	
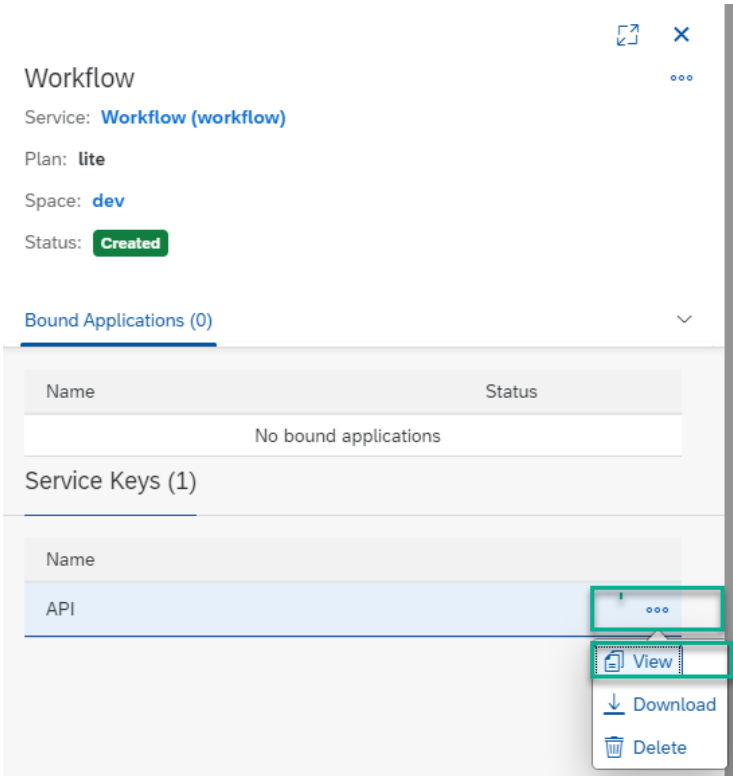
Explanation	Screenshot
5. Select your **Subaccount**, **Space** and click **Finish** button. This will take couple of minutes to complete. The booster does the following tasks. • Creating Space if required. • Subscribing services and applications. • Creating Service Instances. • Creating Destination • Assigning Role Collection	 Set up account for Workflow Management ① Select Subaccount Select Subaccount Select a Cloud Foundry subaccount and space. ⓘ Subaccount:＊ `DEV264` ⌄ Select the subaccount for this booster. Org:＊ `DEV264` View the organization name. Space:＊ `dev` ⌄ Create a new space or select an existing space. **Finish** Cancel Set up account for Workflow Management ① Select Subaccount Select Subaccount Select a Cloud Foundry subaccount and space. ⓘ **Progress** Assigning Service Quotas — ⟳ PROCESSING Creating Space — DONE Subscribing to SaaS Applications — PENDING Creating Service Instances — PENDING Creating Destination — PENDING Assigning Role Collection — PENDING **Finish** Cancel

Explanation	Screenshot
6. Successful completion of the Booster will show the message and click **Close** button.	☑ Success Booster executed successfully Your subaccount is ready for Workflow Management. Navigate to Subaccount Open Workflow Management launchpad to access workflow, business rules, process visibility, and process flexibility applications. Go to Application Explore and learn more about our services SAP Cloud Platform Extension Suite Explore customer use cases with guidance on what you need to get started Use Cases for Digital Process Automation Explore a breadth of helpful resources, including documents, videos, solution briefs, and more. Resources for Digital Process Automation Close
7. Select Service Market Place and search **Workflow**. 8. Select **Workflow** tile.	
9. Select Workflow → click **Create Instance**	

Explanation	Screenshot
10. Enter **Instance Name**: Workflow 11. Click **Next**.	

Explanation	Screenshot
| 12. Replace the JSON content with the below content.<br><br>{<br>"authorities": [<br>"WORKFLOW_DEFINITION_GET",<br>"WORKFLOW_INSTANCE_GET",<br>"WORKFLOW_INSTANCE_START",<br>"WORKFLOW_INSTANCE_UPDATE_CONTEXT",<br>"WORKFLOW_INSTANCE_CANCEL",<br>"WORKFLOW_INSTANCE_RETRY_RESUME",<br>"WORKFLOW_INSTANCE_SUSPEND",<br>"WORKFLOW_INSTANCE_GET_CONTEXT",<br>"WORKFLOW_INSTANCE_GET_EXECUTION_LOGS",<br>"WORKFLOW_INSTANCE_GET_ERROR_MESSAGES"<br>],<br>"defaultCollectionQueryFilter": "own"<br>}<br><br>You can copy the JSON from the attached file to avoid invalid characters.<br><br>*The authorities array contains the required scopes or authorization to call Workflow Service APIs.* | New Instance<br><br>① Basic Info — ② Parameters — ③ Review<br><br>Configure instance parameters ⓘ<br><br>ⓘ This service supports the provision of additional configuration parameters. To learn more, go to documentation<br><br>Upload a JSON file:<br>Select JSON file   Browse...<br><br>Specify the parameters in JSON format:   Clear<br><br>```
1  {
2      "authorities": [
3      "WORKFLOW_DEFINITION_GET",
4      "WORKFLOW_INSTANCE_GET",
5      "WORKFLOW_INSTANCE_START",
6      "WORKFLOW_INSTANCE_UPDATE_CONTEXT",
7      "WORKFLOW_INSTANCE_CANCEL",
8      "WORKFLOW_INSTANCE_RETRY_RESUME",
9      "WORKFLOW_INSTANCE_SUSPEND",
10     "WORKFLOW_INSTANCE_GET_CONTEXT",
11     "WORKFLOW_INSTANCE_GET_EXECUTION_LOGS",
12     "WORKFLOW_INSTANCE_GET_ERROR_MESSAGES"
13     ],
14     "defaultCollectionQueryFilter": "own"
15  }
```<br><br>‹ Back   Next ›   Create Instance   Cancel |
13. Successful creation of the service instance will show the message. 14. Click **View Instance** button.	☑ Success Service instance was created. You can view it on the Service Instances page. View Instance Close
15. Click the three dots (…) and select **Create Service Key**.	Subaccount: DEV264 - Service Instances Create Instance Cloud Foundry (5) Kyma / Kubernetes (0) Other Environments (0) Service instances created in your Cloud Foundry org ⓘ | Instance	Service	Plan	Space	Status
wm_b...	Business R...	lite	dev	Created
wm_p...	Process Vis...	lite	dev	Created
wm_...	Workflow	lite	dev	Created
wm_...	Workflow ...	lite	dev	Created

Work...	Workflow	lite	dev	Created |
				
				Workflow
				Service: **Workflow** (workflo... •••
				Plan: **lite**
				Space: **dev** Update Instance
				Status: Created Bind Application
				   Create Service Key
				   Delete Instance
				Bound Applications (0)
				| Name
					Status |
					No bound applications

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

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

Explanation	Screenshot

19. The Service Key is displayed in a popup window.
20. Copy the values of **workflow_rest_url** under **endpoints** json element and keep in a notepad**.**
21. Copy the values of**, clientid**, **clientsecret** and **url** under the **uaa** json element and keep in a notepad.
 	
 It is used while creating a destination to call Workflow APIs in the next section.
	API
	
	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",
	"sburl": "https://internal-
	xsuaa.authentication.eu10.hana.ondemand.com",
	"subaccountid": "
	"clientid": "
	"xsappname": "
	"clientsecret": "
	"url": "
	"uaadomain": "authentication.eu10.hana.ondemand.com",
	"verificationkey": "-----BEGIN PUBLIC KEY-----
	
	OK

CREATE WORKFLOW OAUTH DESTINATIONS

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

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

Explanation	Screenshot
31. Enter the following in the new destination. **Name**: WorkflowOAuth2UserTokenExchange **Type**: HTTP **URL**: copy the value of **workflow_rest_url** from previous step. **Proxy Type**: Internet **Authentication**: OAuth2UserTokenExchange **Client ID**: copy the value of clientid from previous step. **Client Secret**: copy the value of secret from previous step. **Token Service URL**: Copy the value of **URL** from previous step. Add **/oauth/token** at the end of the url. 32. Click **New Property.** 33. Under Additional Properties, add a property **bpmprocessvisibility.triggerWorkflow** 34. Enter value as **user** 35. Click **Save** button. Please refer OAuth User Token Exchange section of Workflow help for more details.	Destination Configuration Blank Template Service Instance Name:* WorkflowOAuth2UserTokenExchange Type: HTTP Description: URL:* https://api.workflow-sap.cfapps.eu10.hana.ondemand.com/workfl... Proxy Type: Internet Authentication: OAuth2UserTokenExchange Client ID: sb-clone-11051ebb-dd8a-46bd-803f-a481266c1668!b68229|work... Client Secret: •• Token Service URL:* https://dev264.authentication.eu10.hana.ondemand.com/oauth/to... Token Service URL Type:* [Dedicated] [Common] Additional Properties [New Property] bpmprocessvisi... ⌄ user 🗑 ☑ Use default JDK truststore [Save] [Cancel]

SUMMARY

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

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