

Oracle Integration Workshop

Integration between SaaS
application and E-Business suite



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Introduction

This hands-on lab is designed to introduce you to Oracle Integration Cloud, and to provide a step-by-step instructions for building an integration between Oracle Sales Cloud application and E-Business suite.

The flow demonstrates a new organization creation in E-Business suite for every new account being created in Sales Cloud using Oracle Integration Cloud capabilities. The lab will walk you through the process of building an integration by utilizing event based mechanism in the Sales Cloud and Business events in EBS.

Objectives

- Log into Integration Cloud
- Create Connectors to Sales Cloud and E-Business Suite
- Create Integration between Sales Cloud and E-Business suite using pre-built adapters

Pre-Lab Information

In order to complete this lab, you must have access to an Integration Cloud Service (ICS) account. You can get credentials from your lab facilitator

Assumptions

- You are generally familiar with application development concepts.
- You have domain, user name, and password credentials to log in to an Integration Cloud Service instance.
- You are using a current version of Mozilla Firefox to access your cloud services.

Connectivity Info used in this Lab – (to be updated)

Field	Value
ICS GSE Instance domain	gse00013495
ICS GSE Instance access URL	https://myservices.us2.oraclecloud.com/mycloud/faces/dashboard.jspx https://myservices.us2.oraclecloud.com/mycloud/cloudportal/dashboard
ICS Instance User Name	bala.gupta or cloud.admin
ICS Instance Password	alIVe@1ShoWer (updated weekly!)
OSC Service Catalog WSDL URL	https://ucf5-fap0449-fs.oracledemos.com/fndAppCoreServices/ServiceCatalogService?wsdl
OSC Events Catalog URL	https://ucf5-fap0449-crm.oracledemos.com/soa-infra
OSC GSE Instance	fap0449
OSC Security (Login name/password)	john.dunbar/ hYT68895 (updated weekly! hYT68895)
EBS GSE Instance	ebs0040
EBS Endpoint Connection URL	https://ucf4-ebs0040-gse.oracledemos.com:443
EBS User Credentials	operations/welcome

Lab Tasks

Task 0: Login to ICS Instance

- Navigate to the sign in page for your cloud service. Enter provided Identity Domain

SIGN IN TO
ORACLE CLOUD

Traditional Cloud Account

Enter your Identity Domain

gse00013495

Go

- Login with the provided credentials.

SIGN IN TO
ORACLE CLOUD

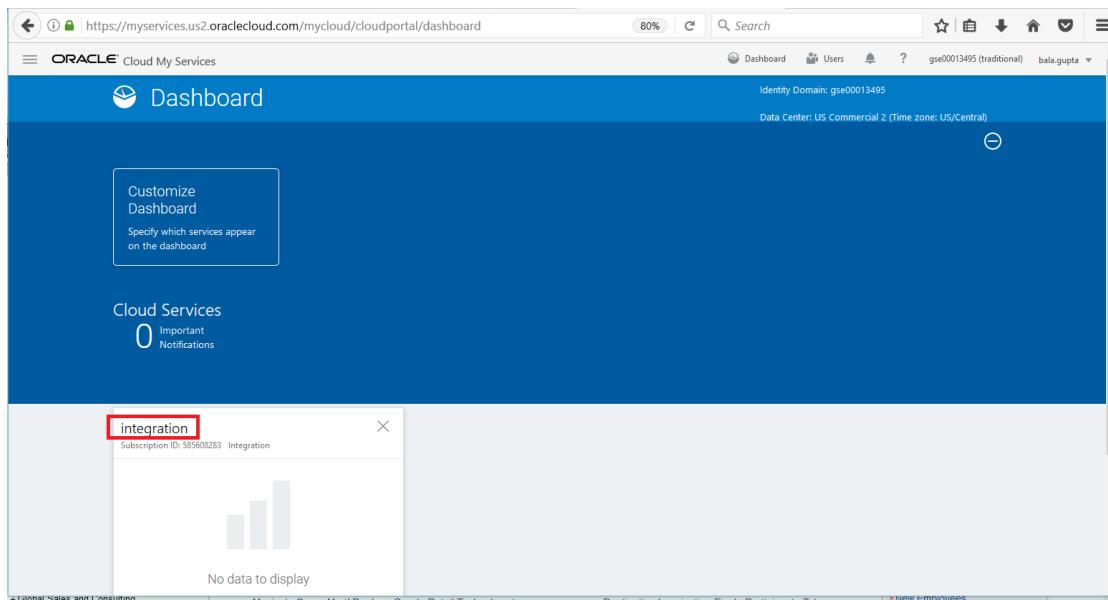
Welcome gse00013495 change domain ?

bala.gupta

Can't access your account?

Sign In

- Dashboard window will open, select Integration.



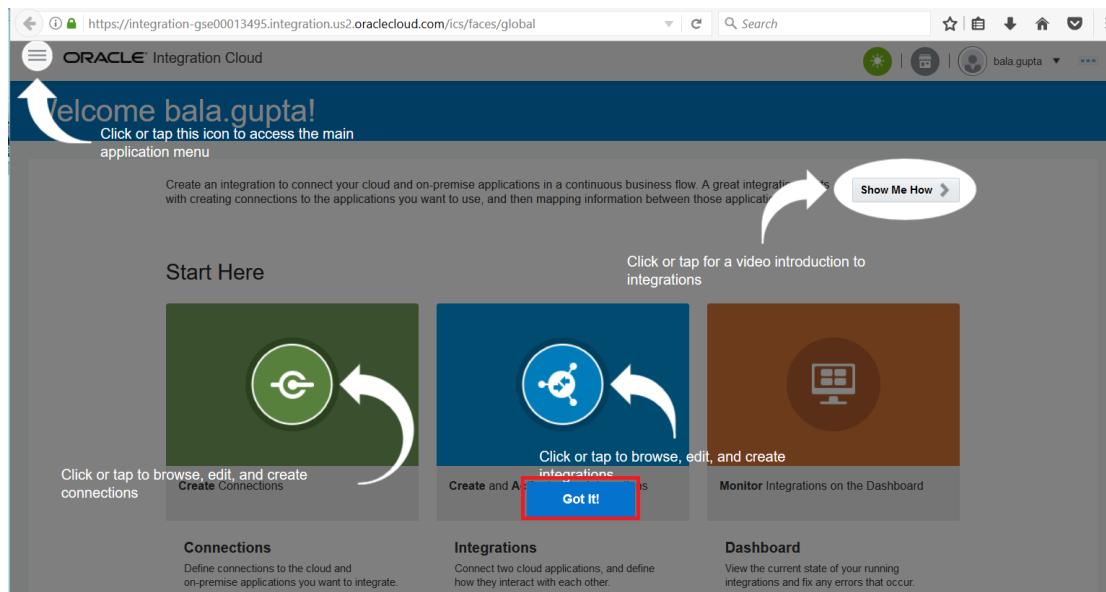
- Click the **Open Service Console** in the right upper corner from the Integration Cloud Service window

The screenshot shows the 'Service: integration (Oracle Integration Cloud Service)' page. At the top, there's a 'Overview' tab and a 'Business Metrics' tab. On the right, there's a 'Open Service Console' button with a red box around it. Below the tabs, there's a 'Service Status - February 2018' section with a timeline from 1 to 28. The status for most days is 'Service Up' (green). A legend at the bottom indicates: 'Before Activation' (light blue), 'Service Up' (green), 'Planned Outage' (yellow), and 'Service Incident' (red). The URL in the browser is https://myservices.us2.oraclecloud.com/mycloud/faces/serviceDetail.jspx?serviceId=585608283&.

Overview Information

Description	Add description	Identity Domain Name	gse00013495
Data Center	US Commercial 2 (Time zone: US/Central)	Identity Domain Id	gse00013495
Subscription	Trial (Expires: 13-Sep-2019 8:50 AM PDT)	Version	18.1.2.0.0
Plan	Oracle Integration Cloud Service - Trial	Status	Active
Service Start Date	14-Sep-2017	Service Instance URL	https://integration-gse00013495.integration.us2.oraclecloud.com/ics
Service End Date	13-Sep-2019	Domain SFTP Host & Port	sftp.us2.cloud.oracle.com:22
Subscription ID	585608283	Domain SFTP User Name	gsGC0621

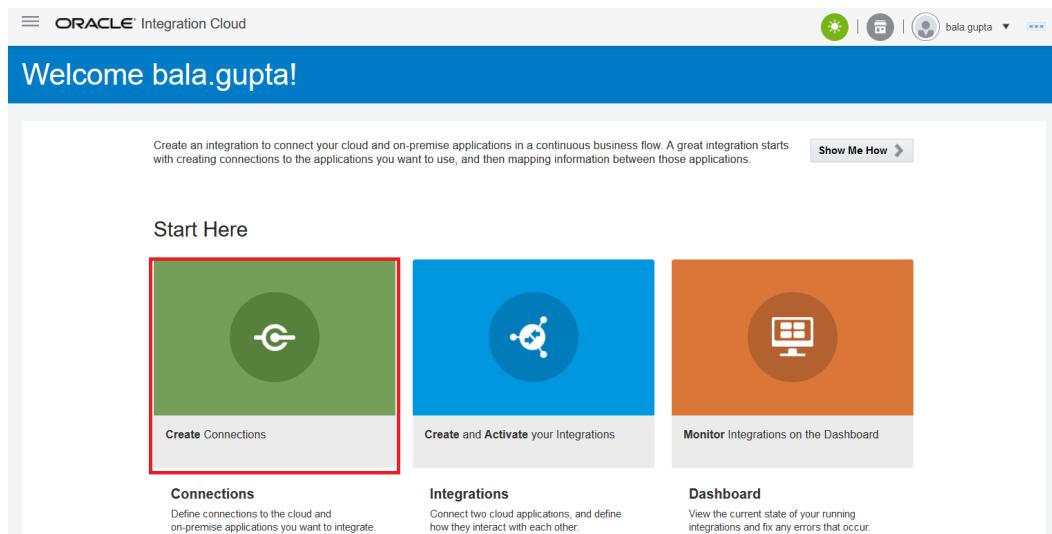
- Click **Got It** on the overlay to continue



- Sdsdsd
- sdsdsd

Task 1: Create a Connection to Oracle Sales Cloud

- Click the **Connections** Link, and select **Create New Connection**. The New Connection dialog is displayed.



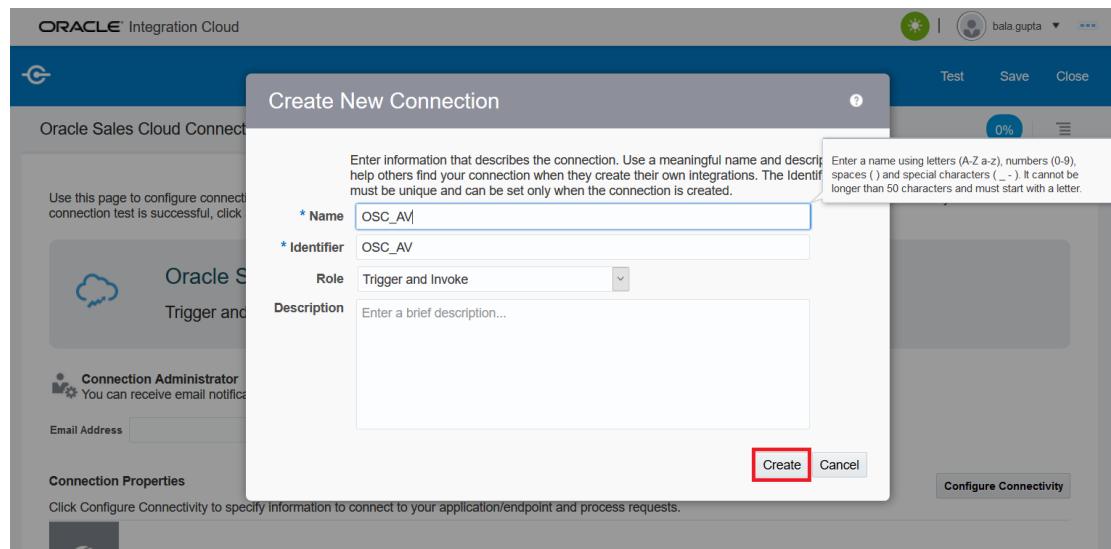
- Click **Got It** on the overlay to continue. Click **Create** in the right upper corner to start a dialog for new connection creation.
- Locate and Select **Oracle Sales Cloud** in the Create Connection – Select Adapter dialog.

The image consists of two vertically stacked screenshots of the Oracle Integration Cloud interface, specifically the 'Create Connection - Select Adapter' screen.

Screenshot 1: The search bar at the top contains 'oracle sales cloud'. Below it, a grid of adapter icons is shown, with 'Oracle Sales Cloud' highlighted and its 'Select' button also highlighted with a red box.

Screenshot 2: The search bar now contains 'oracle sales cloud'. Below it, the 'Oracle Sales Cloud' adapter icon is shown with its 'Selected' button highlighted with a red box.

- Provide a Connection Name as **OSC_XX**, where **XX** is your initials, e.g. OSC_AV. Identifier will be automatically generated. Leave the Role default "Trigger and Invoke", and click on the **Create** button.



- Configure Connection Properties. Click on the Configure Connectivity button and enter OSC Services Catalog WSDL URL, and OSC Events Catalog URL and click OK. Please refer to the Connectivity Info table to obtain both URLs.

Connection OSC_AV was created successfully.

OSC_AV

Oracle Sales Cloud Connection (Editing)

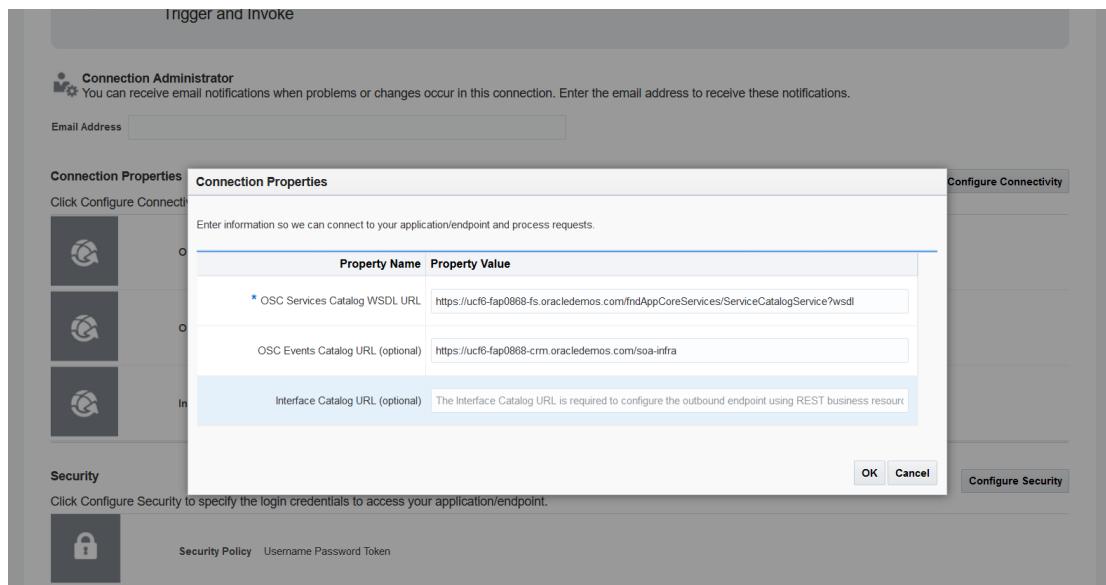
Last Modified: Just now

Use this page to configure connection details, such as email contact, connection properties, and connection login credentials. When complete, click Test to test your connection. If the connection test is successful, click Save.

Connection Properties

Click Configure Connectivity to specify information to connect to your application/endpoint and process requests.

Configure Connectivity



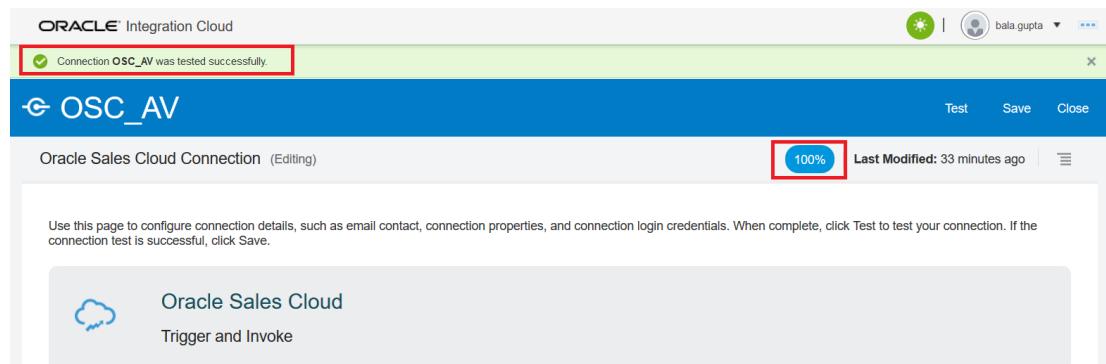
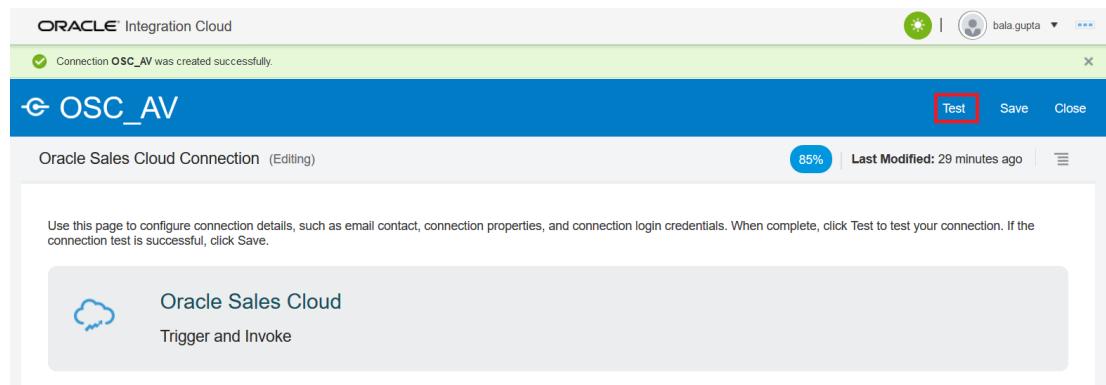
- Configure Security. Click on the **Configure Security** to specify Login credentials to access Oracle Sales Cloud web services, and click **OK**. Refer to the Connectivity Info table.

The screenshot shows the "Credentials" configuration dialog. It includes a dropdown menu for "Security Policy" currently set to "Username Password Token". Below this, a table lists login credentials:

Property Name	Property Value
* Username	john.dunbar
* Password	*****
* Confirm Password	*****

At the bottom right of the dialog are "OK" and "Cancel" buttons.

- Test Connection. Click on **Test** icon at the top of the window. If everything is configured correctly, **Connection OSC_XX was created successfully** message will be displayed, and progress indicator will show **100%**.

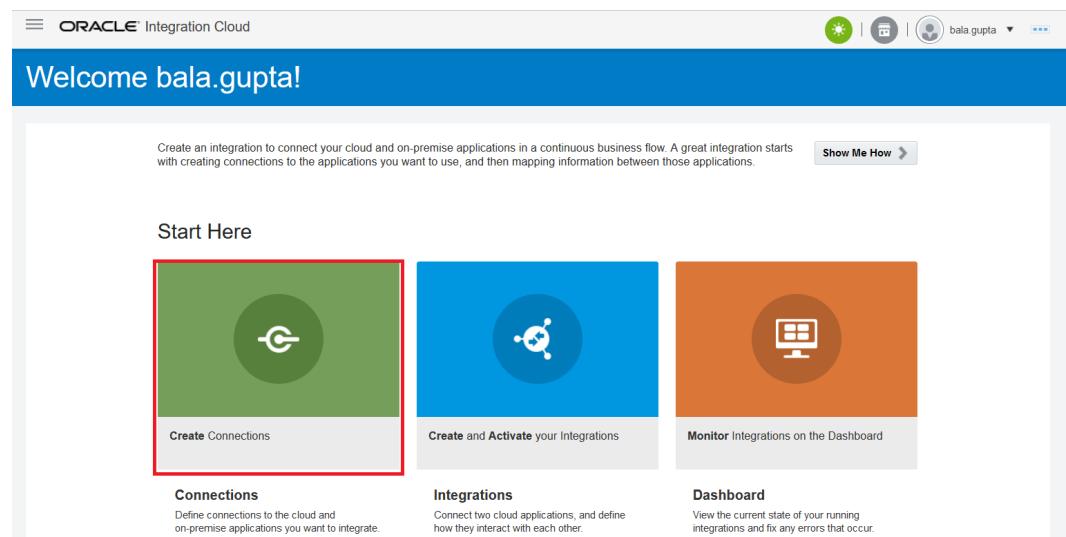


- Click Save.

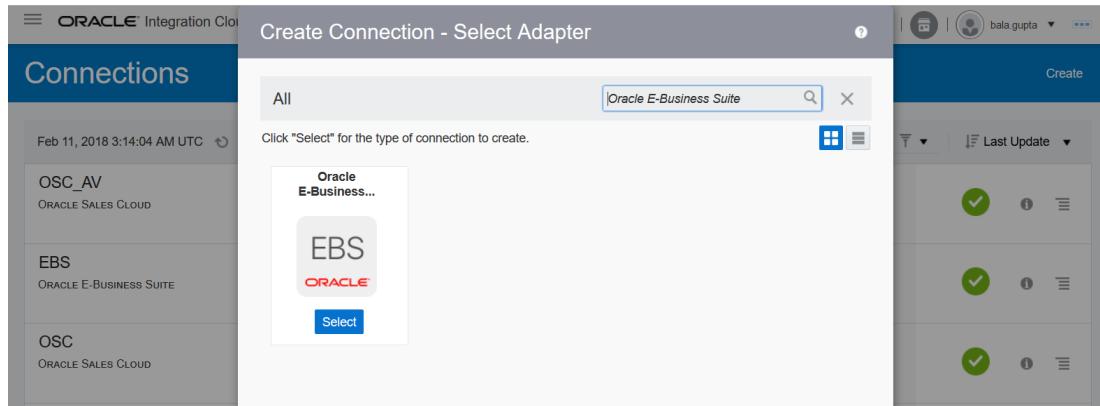
Task 2: Create Connection to E-Business Suite

Now we will create another connection, but this time to **Oracle E-Business Suite**.

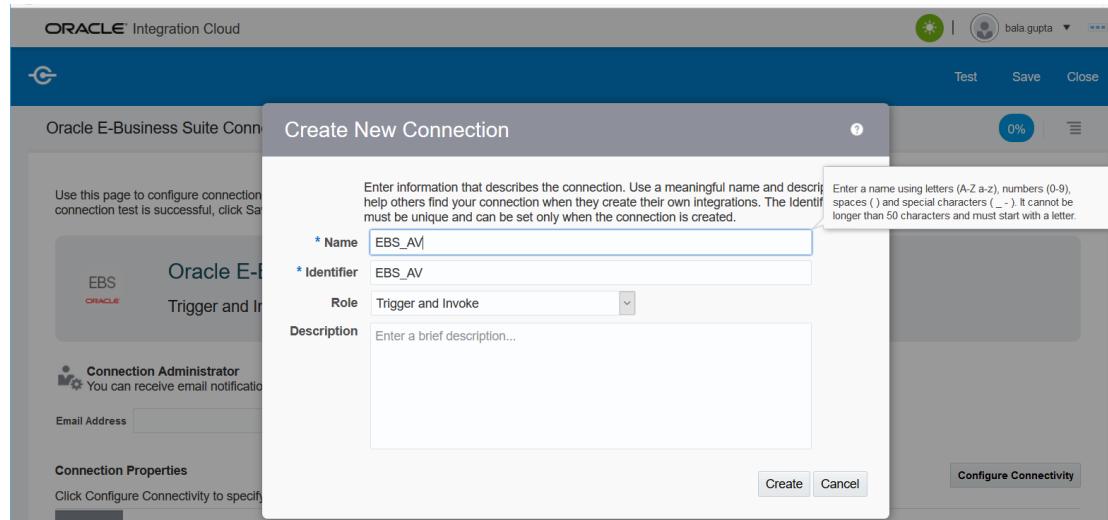
- Click the **Connections** Link, and select **Create New Connection**. The New Connection dialog is displayed.



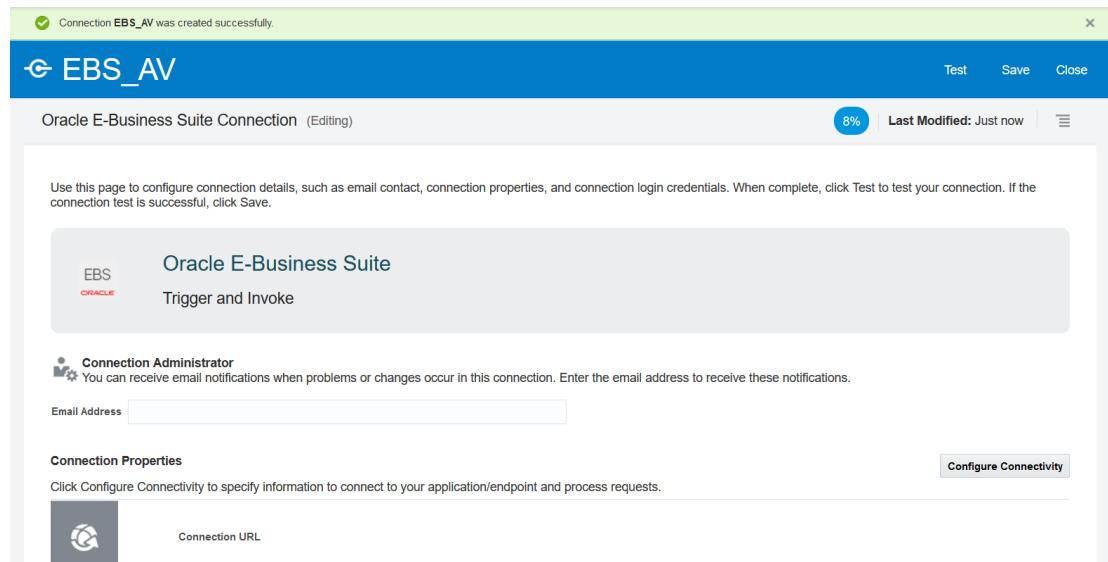
- Click **Create** in the right upper corner to start a dialog for new connection creation.
- Locate and Select **Oracle E-Business Suite** in the Create Connection – Select Adapter dialog.

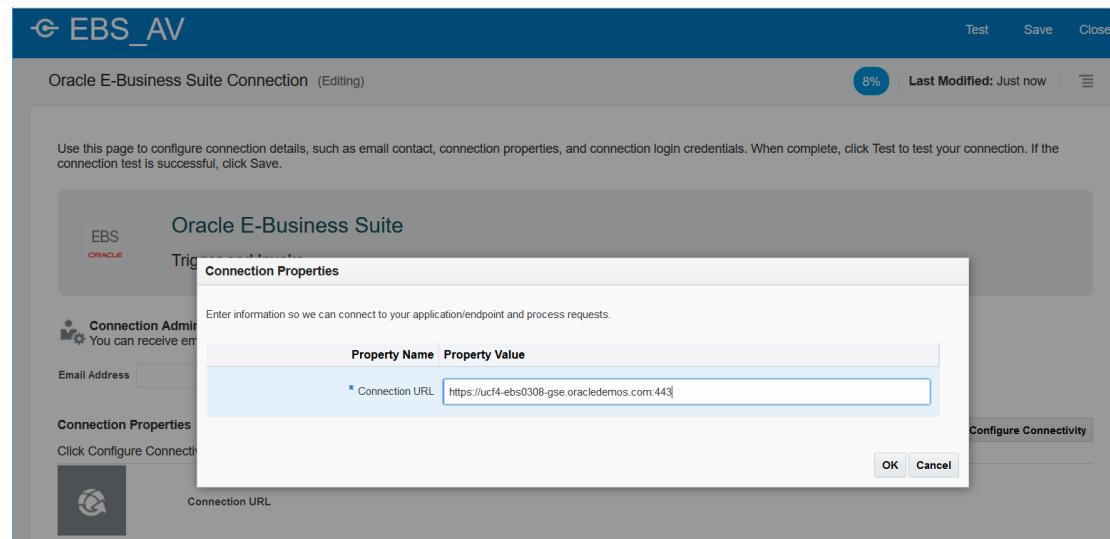


- Provide a Connection Name as **EBS_XX**, where **XX** is your initials, e.g. EBS_AV. Identifier will be automatically generated. Leave the Role default "Trigger and Invoke", and click on the **Create** button.

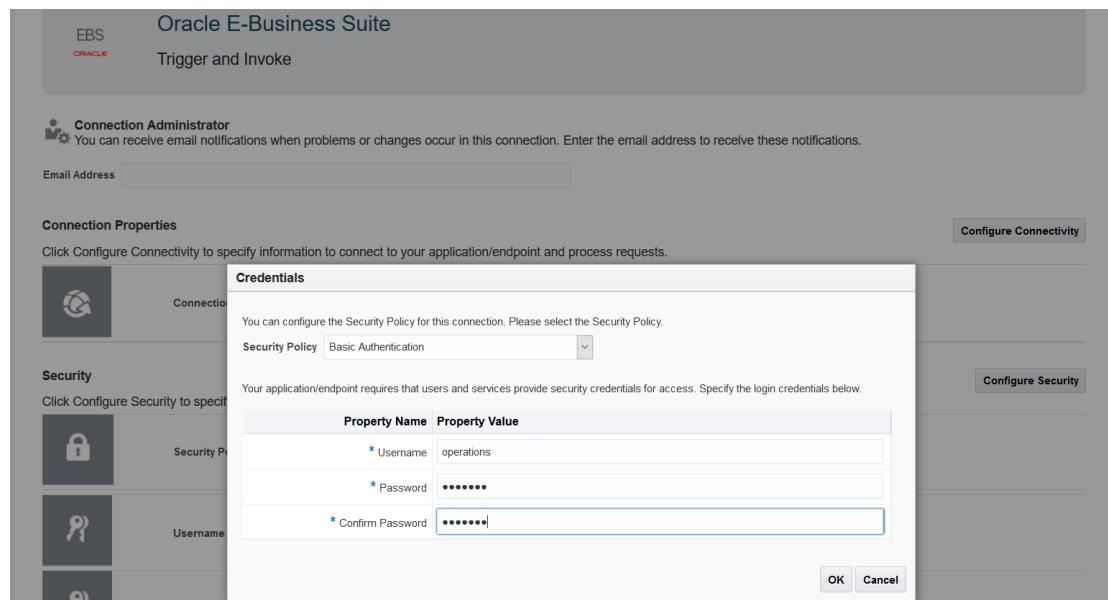


- Configure Connection Properties. Click on the Configure Connectivity button and enter Connection URL, click OK. Please refer to the Connectivity Info table to obtain URL.





- Configure Security. Click on the **Configure Security** to specify Login credentials to access E-Business Suite. Click **OK**. Please refer to the **Connectivity Info table** to obtain the user credentials.



- Now that we have all the properties configured, we can test the connection. This is done by clicking on the Test icon at the top of the window. If everything is configured correctly, a message **Connection EBS_XX was created successfully** will be displayed. The progress indicator will show 100% completion.

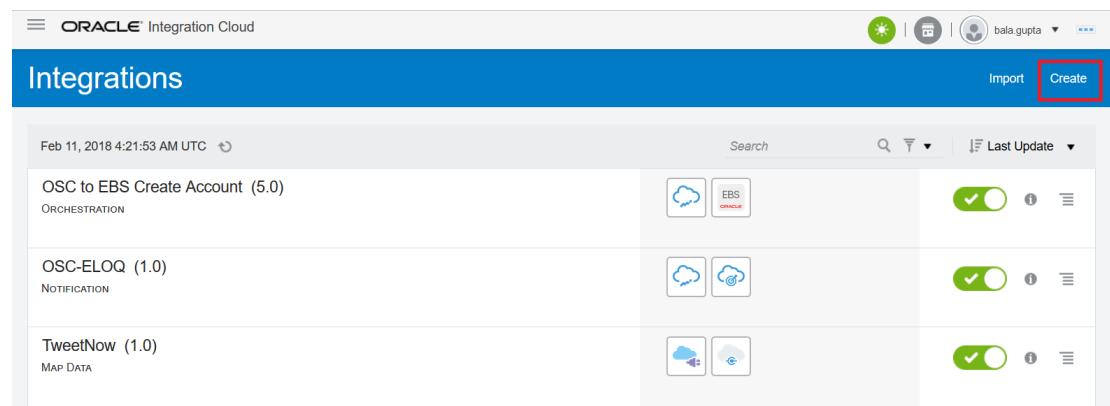
The screenshot shows the Oracle Integration Cloud interface. At the top, a green banner displays a success message: "Connection EBS_AV was tested successfully." Below this, the title bar says "EBS_AV". The main content area is titled "Oracle E-Business Suite Connection (Editing)". It includes a "Trigger and Invoke" section for "EBS" and "Oracle E-Business Suite". A "Connection Administrator" section allows setting up email notifications. A red box highlights the "Test" button in the top right corner.

- Click Save.

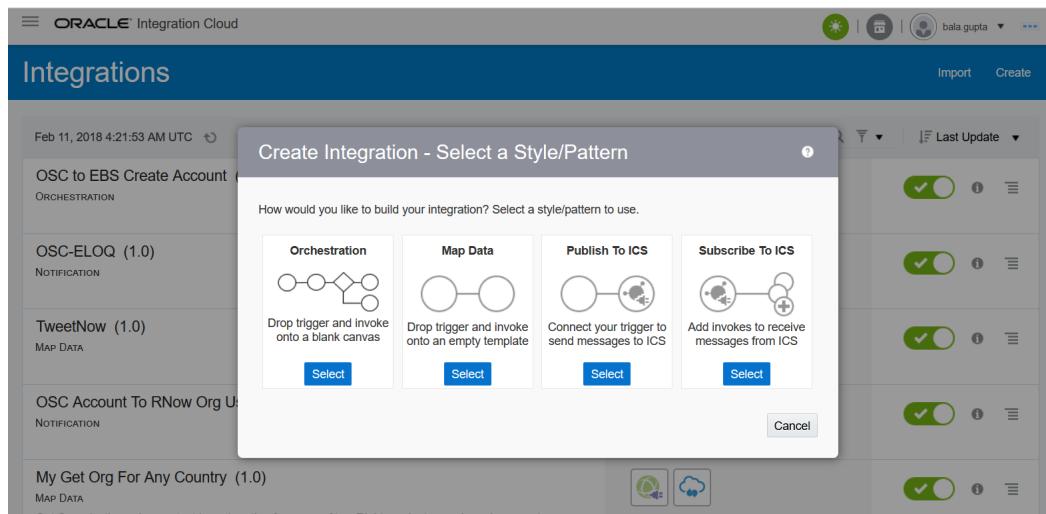
Task 3: Create Integration

- Navigate to the **Integrations** page in the **Designer** section. Then click on **Create**. It will open a pop-up with the list of styles/patterns for creating an integration.

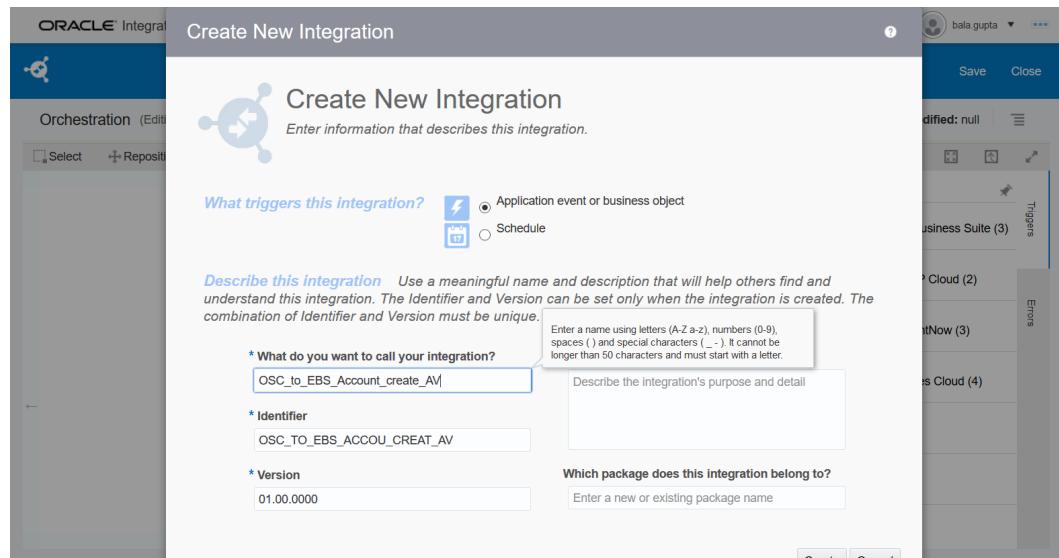
The screenshot shows the Oracle Integration Cloud homepage. The top banner says "Welcome bala.gupta!". Below it, a central callout box says "Create an integration to connect your cloud and on-premise applications in a continuous business flow. A great integration starts with creating connections to the applications you want to use, and then mapping information between those applications." A red box highlights the "Create and Activate your Integrations" button. The "Start Here" section features three main buttons: "Create Connections" (green), "Create and Activate your Integrations" (blue, highlighted with a red box), and "Monitor Integrations on the Dashboard" (orange). Below these are three sections: "Connections", "Integrations", and "Dashboard", each with a "Learn More" and "Show Me" link.



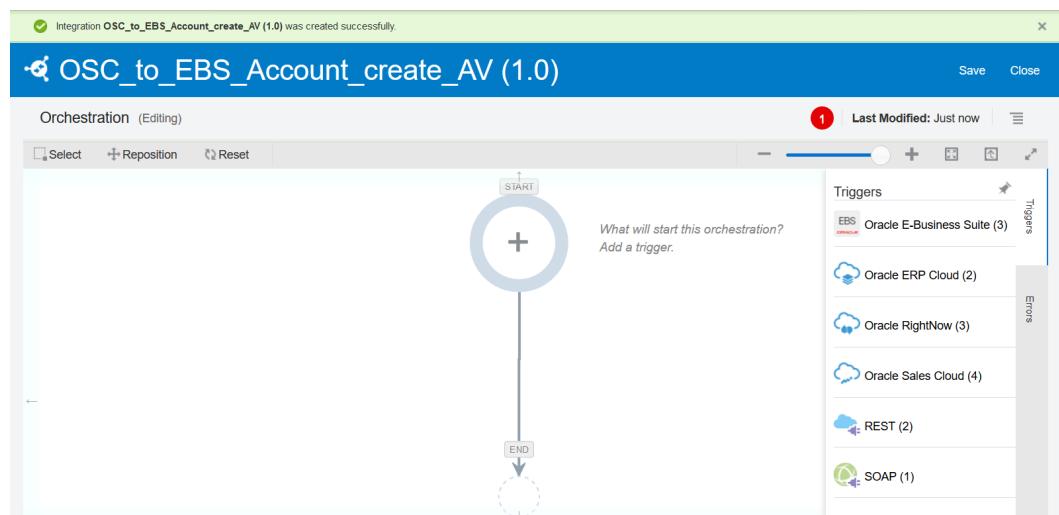
- In the **Create Integration – Select a Style/Pattern** dialog, locate the **Orchestration** and **Select** it.



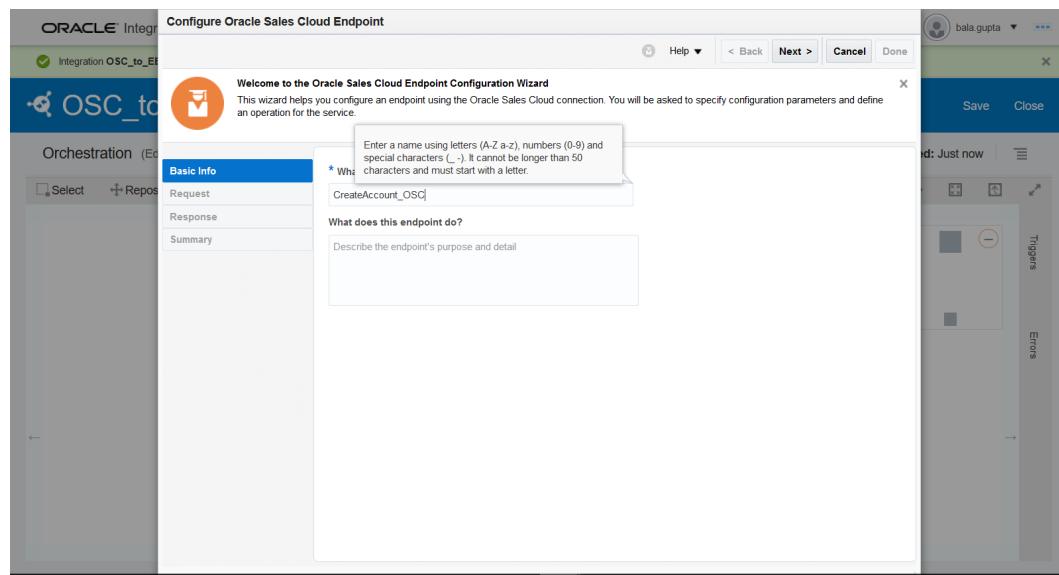
- Please provide a unique name for your Integration, e.g. OSC_to_EBS_Account_Create_XX, where XX is your initials, Identifier will get populated automatically. Keep the default value of **Application event or business object** for Integration triggers. Click **Create**.



- A new dialog will open where we need to add a trigger that will start this Orchestration. Expand Triggers on the right side menu to view all connections, click on Oracle Sales Cloud. Drag-and-Drop previously created OSC_XX connection to “+” of a Start icon in the center of canvas. This will open a wizard for configuring a business event on the OSC side.

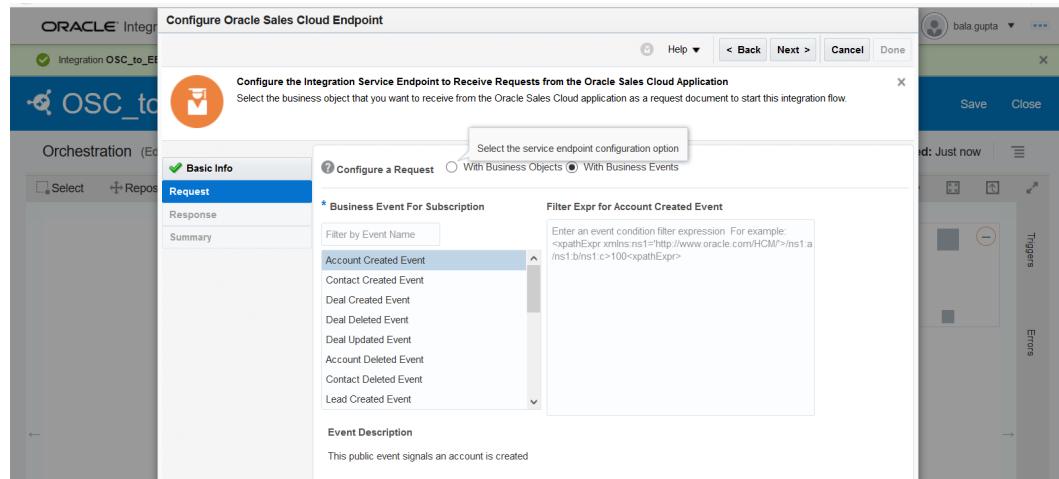


- Enter a unique name like "CreateAccount_OSC" for the name of your endpoint in the Basic Info tab. Click Next.



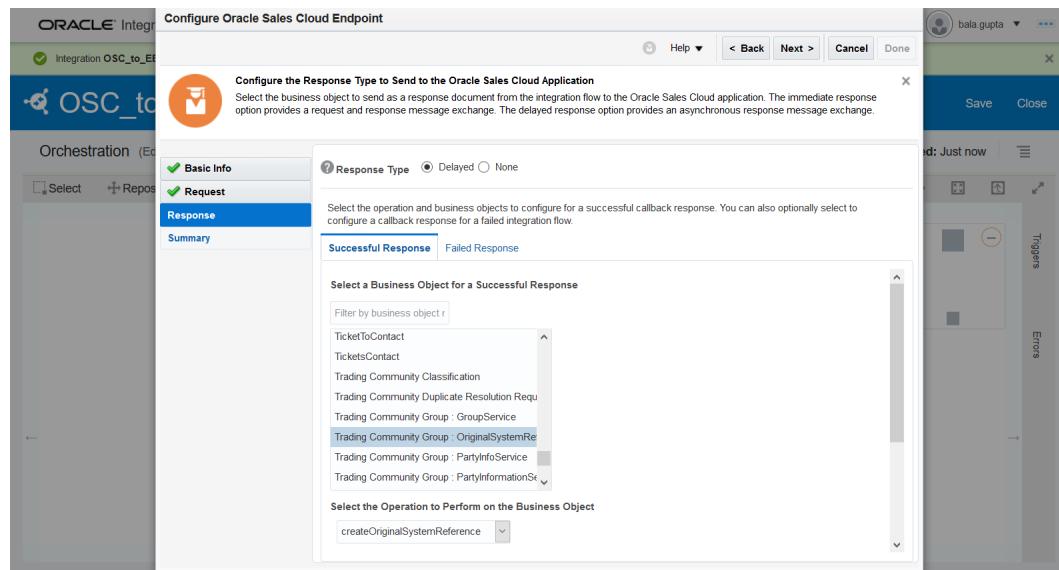
- Configure a **Request** with the following parameters:

- Select radio button "With Business Events"
- Select "Account Created Event"
- Click Next to navigate to the next tab.

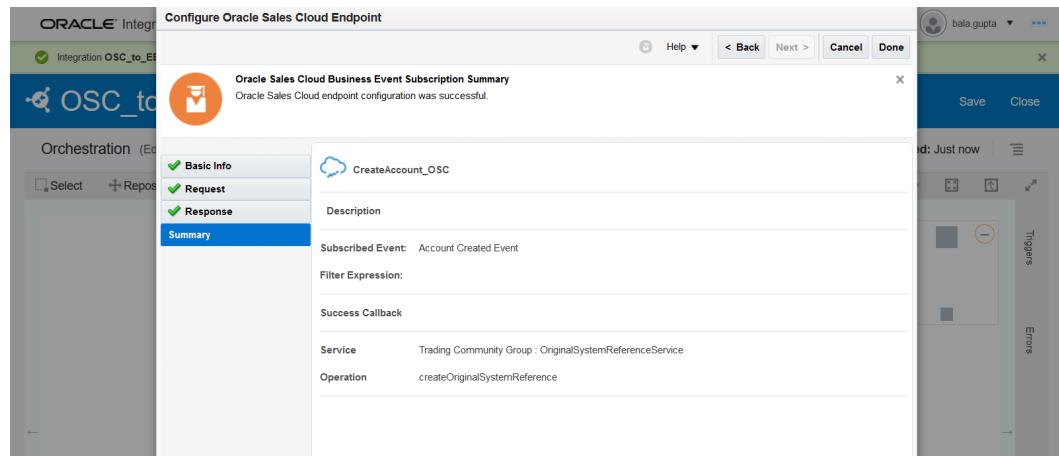


- Configure Response.

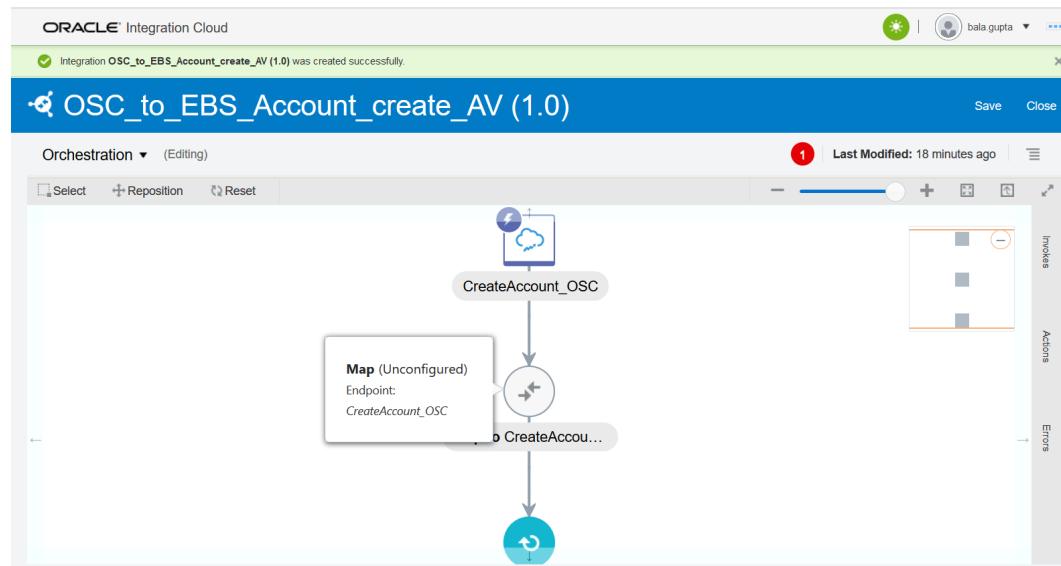
- Leave the default option for **Response Type** as **Delayed**.
- Scroll down to the list item "Successful Response" and select "Trading Community Group: OriginalSystemReferenceService"
- Leave the default value for "Operation" as "createOriginalSystemReference".
- Click Next



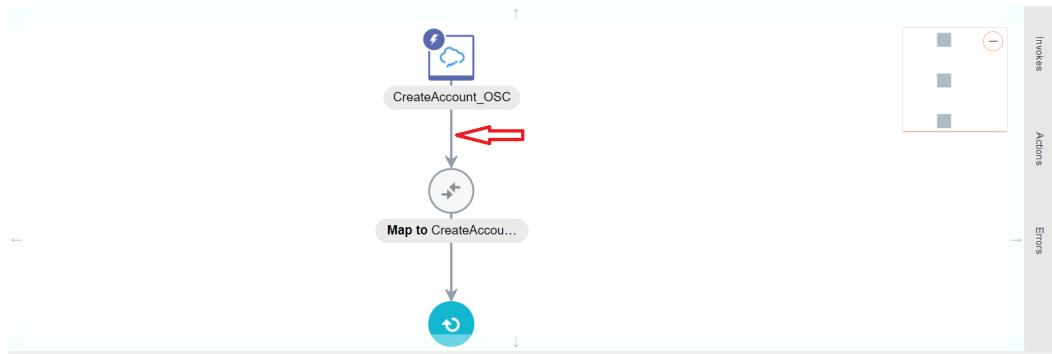
- Review the Summary of the options being selected in the wizard. Click Done.



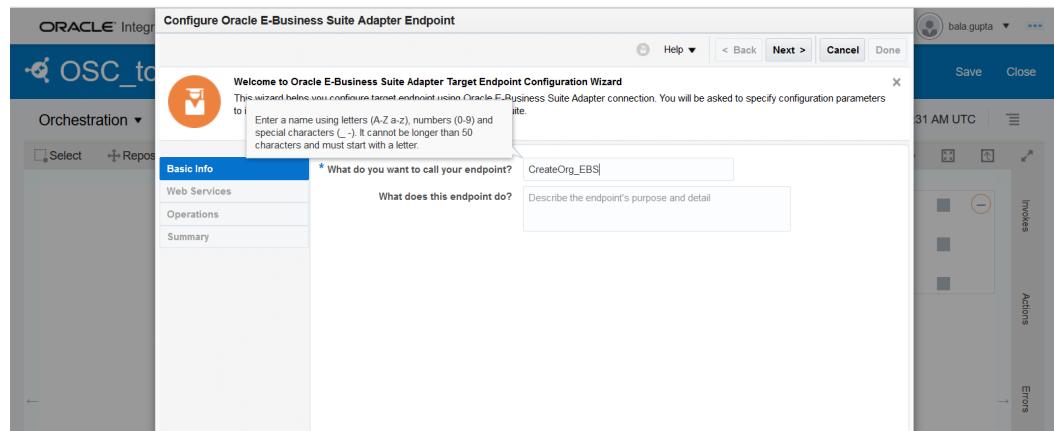
- The Integration now looks like this.



- Click on the Invokes on the right side and expand Oracle E-Business Suite. Drag and Drop connection EBS_XX (where XX is your initials) to the "+" sign between the CreateAccount_OSC starting Trigger point and the mapping point Map to CreateAccount_OSC in the middle of the canvas. This will open a wizard for configuring EBS connection to create an account.

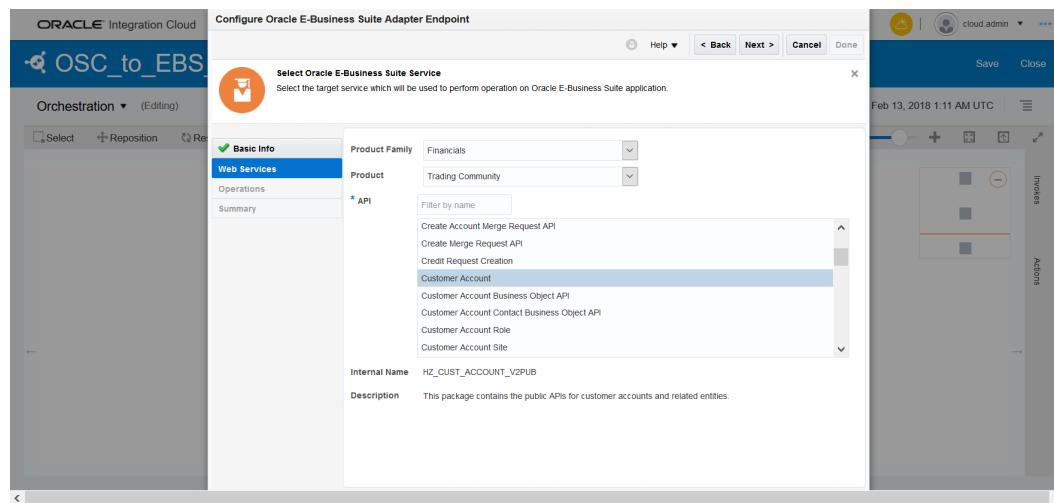


- Enter a unique name e.g. "CreateOrg_EBS" against the endpoint. Click Next.

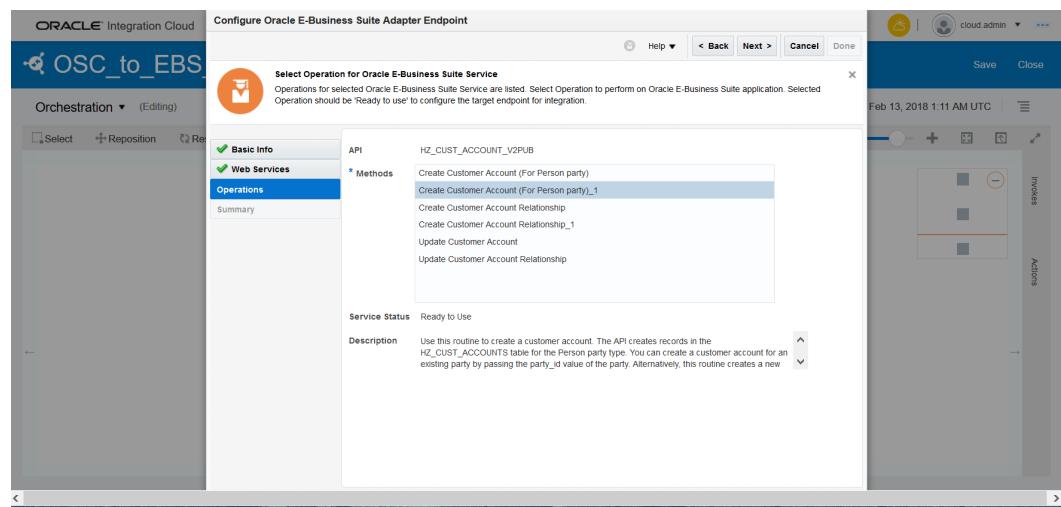


- Configure endpoint Web Services with the following parameters:
 - Product Family: "Financials"
 - Product: "Trading Community"
 - Scroll and click on API "Customer Account". Ensure the internal name is "HZ_CUST_ACCOUNT_V2PUB"

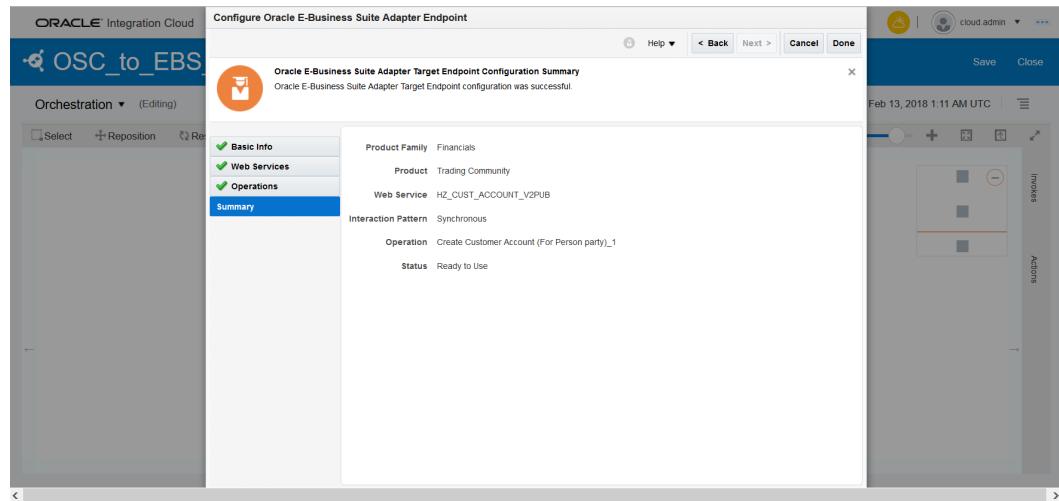
Click Next to navigate to the Operations tab.



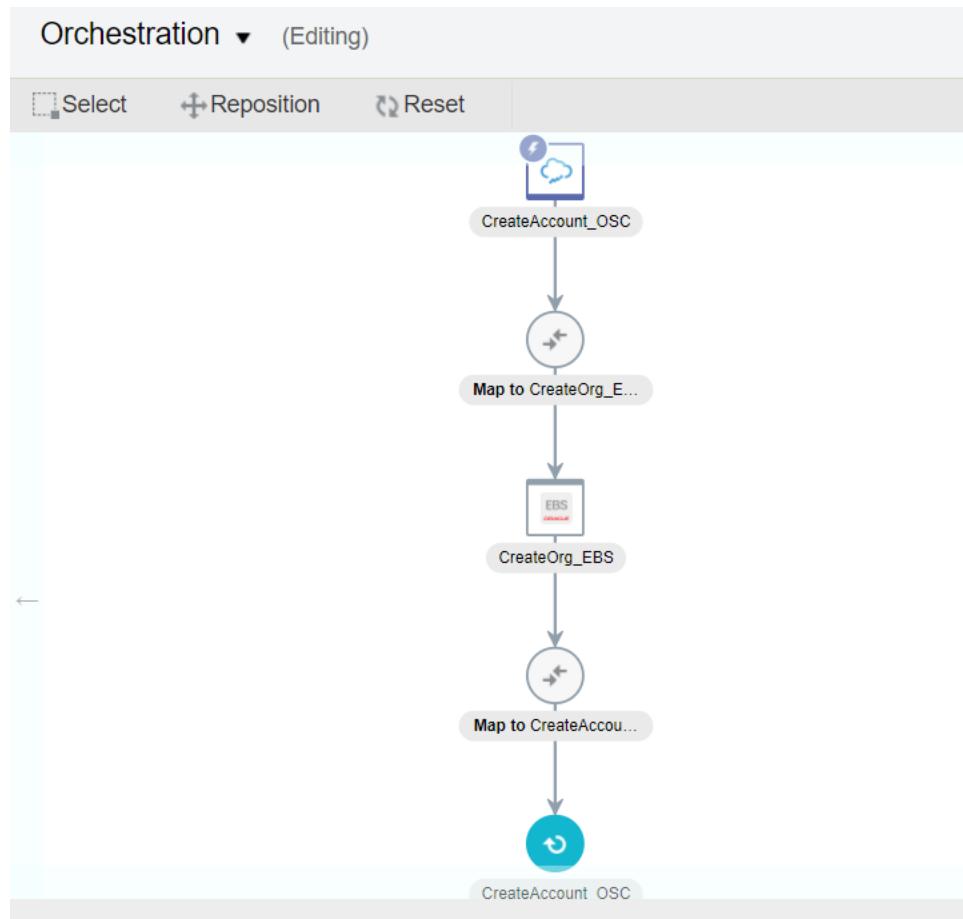
- Select method called "Create Customer Account(For Person party)_1" and click Next.



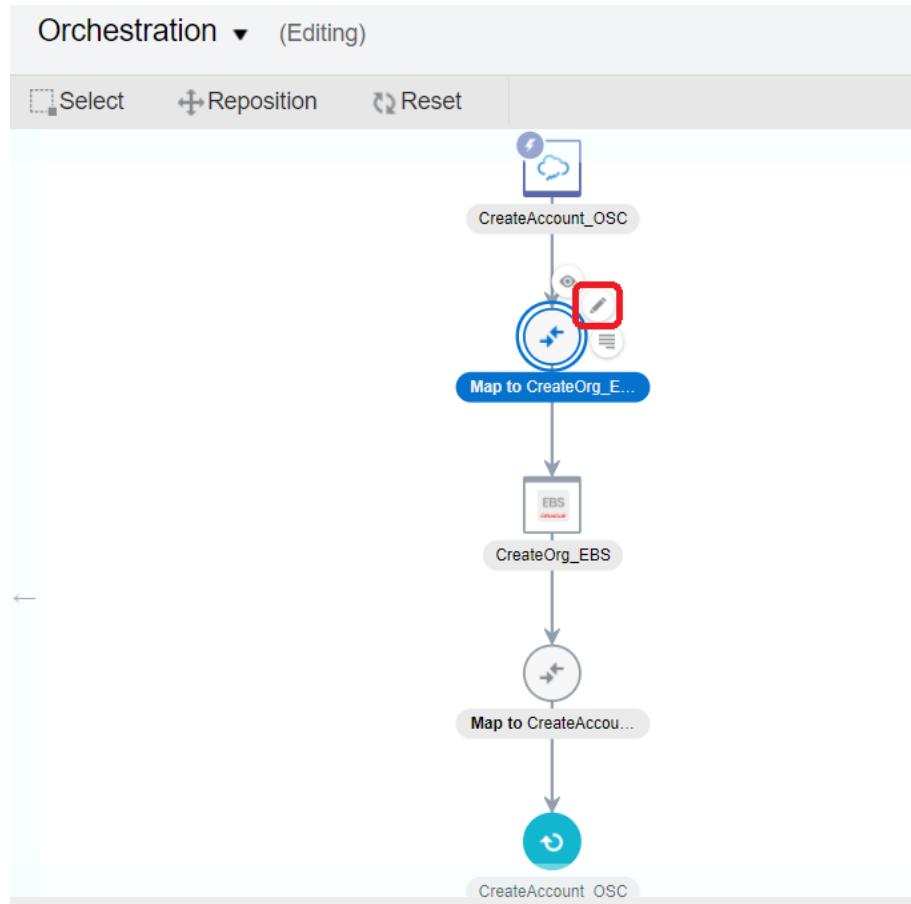
- Review the summary of the options being selected in the wizard. Click Done.



- Integration now looks like this. Mapping step **Map** to CreateOrg_EBS gets added as shown here.



- Hover over the Mapping icon and click on the pencil to open the screen to configure the mapping between the request data coming from OSC to input parameters of API in EBS for account creation.



- Map the data as shown here.

Enter the following parameters under RESTHeader for Target:

Target RestHeader	
Responsibility	RECEIVABLES_VISION_OPERATIONS
RespApplication	AR
SecurityGroup	STANDARD
NLSLanguage	AMERICAN
Org_Id	204

Enter the following parameters for Target InputParameters.

Note: Click on the little arrow to the left of <>P_CUST_ACCOUNT_REC and <>P_ORGANIZATION_REC to expand the list and scroll down to find the parameters requiring mapping.

Target InputParameters	
P_INIT_MSG_LIST	T
P_CUST_ACCOUNT_REC/<>CREATED_BY_MODULE	TCS_V1_API
P_ORGANIZATION_REC/<>CREATED_BY_MODULE	TCA_V1_API

Expand <result> on the left **Source** pane, and expand <P_ORGANIZATION_REC> under Input parameters on the right **Target** pane. Map the OrganizationName of OSC with the ORGANIZATION_NAME in EBS by dragging and dropping it from the source to target.

Map to CreateOrg_EBS

Map Action in "OSC_to_EBS_Account_create_AV (1.0)" (Editing)

Source Target

Drag and drop source to target to create a mapping.

Click a checkmark on source or target to see mappings.

Source	Target	
<> *onEvent	<> *CREATE_CUST_ACCOUNT__1_Input	
<> *getAccountResponse	<> RESTHeader	
<> result	<> Responsibility	"RECEIVABLES_VISION_OPERATIONS"
<> PartyId	<> RespApplication	"AR"
<> PartyNumber	<> SecurityGroup	"STANDARD"
<> SourceSystem	<> NLSLanguage	"AMERICAN"
<> SourceSystemReferenceValue	<> Language	
<> OrganizationName	<> Org_Id	"204"
<> UniqueNameSuffix	<> InputParameters	
<> PartyUniqueName	<> P_INIT_MSG_LIST	"T"
<> Type	<> P_CUST_ACCOUNT_REC	
<> OwnerPartyId	<> P_ORGANIZATION_REC	
<> OwnerPartyNumber	<> ORGANIZATION_NAME	OrganizationName
<> OwnerEmailAddress	<> DUNS_NUMBER_C	
<> OwnerName	<> ENQUIRY_DUNS	

ORGANIZATION_NAME

Data Type: string360

Repeating: false

Required: false

Nillable: true

Custom: false

Path: /CREATE_CUST_ACCOUNT__1_Input /inputParameters/p_ORGANIZATION_REC /ORGANIZATION_NAME

EBS

create_AV (1.0)" (Editing)

Target

Drag and drop source to target to create a mapping.

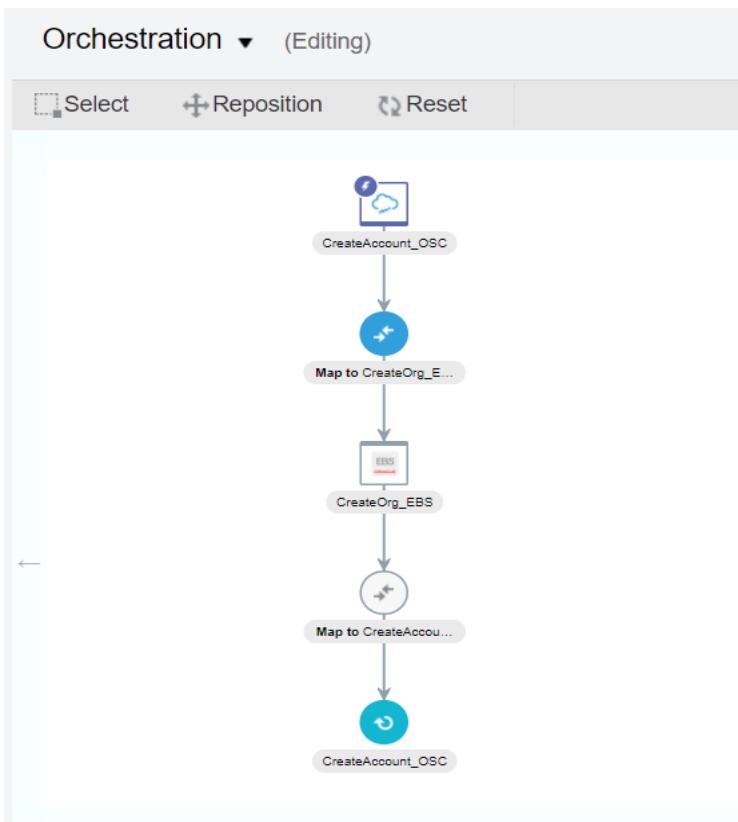
Click a checkmark on source or target to see mappings.

Source	Target	
<> *onEvent	<> *CREATE_CUST_ACCOUNT__1_Input	
<> *getAccountResponse	<> RESTHeader	
<> result	<> Responsibility	
<> PartyId	<> RespApplication	
<> PartyNumber	<> SecurityGroup	
<> SourceSystem	<> NLSLanguage	
<> SourceSystemReferenceValue	<> Language	
<> OrganizationName	<> Org_Id	
<> UniqueNameSuffix	<> InputParameters	
<> PartyUniqueName	<> P_INIT_MSG_LIST	
<> Type	<> P_CUST_ACCOUNT_REC	
<> OwnerPartyId	<> P_ORGANIZATION_REC	
<> OwnerPartyNumber	<> ORGANIZATION_NAME	OrganizationName
<> OwnerEmailAddress	<> DUNS_NUMBER_C	
<> OwnerName	<> ENQUIRY_DUNS	

The screenshot shows the Oracle Integration Cloud Service Mapper interface. The left pane is titled "Source" and lists items: "onEvent", "getAccountResponse", "result", and "OrganizationName". The right pane is titled "Target" and lists items under "CREATE_CUST_ACCOUNT_1_Input": "RESTHeader", "Responsibility", "RespApplication", "SecurityGroup", "NLSLanguage", "OrgId", "InputParameters", "P_INIT_MSG_LIST", "P_CUST_ACCOUNT_REC", "CREATED_BY_MODULE", "P_ORGANIZATION_REC", "ORGANIZATION_NAME", and "CREATED_BY_MODULE". Mappings are shown with checkmarks: RESTHeader to RECEIVABLES_VISION_OPERATIONS, Responsibility to AR, SecurityGroup to STANDARD, NLSLanguage to AMERICAN, OrgId to 204, InputParameters to T, P_INIT_MSG_LIST to TCA_V1_API, P_CUST_ACCOUNT_REC to TCA_V1_API, CREATED_BY_MODULE to OrganizationName, and P_ORGANIZATION_REC to TCA_V1_API.

Click Save and Exit.

- Integration now looks like this.



- In the next step we will configure the mapping for CreateAccount_OSC to assign EBS response attributes as cross reference in OSC.

Hover over the Mapping icon **Map to CreateAccount_OSC** and click on the pencil to open the configuration screen.

Map the data as shown below.

Source	Target
PartyId	OwnerTableId
X_PARTY_ID	OrigSystemReference

Enter the following values for the Target.

Target	
OrigSystem	EBS1
OwnerTableName	HZ_PARTIES
CreatedByModule	HZ_WS

Map Action in "OSC_EBS_TEST1 (1.0)" (Editing)

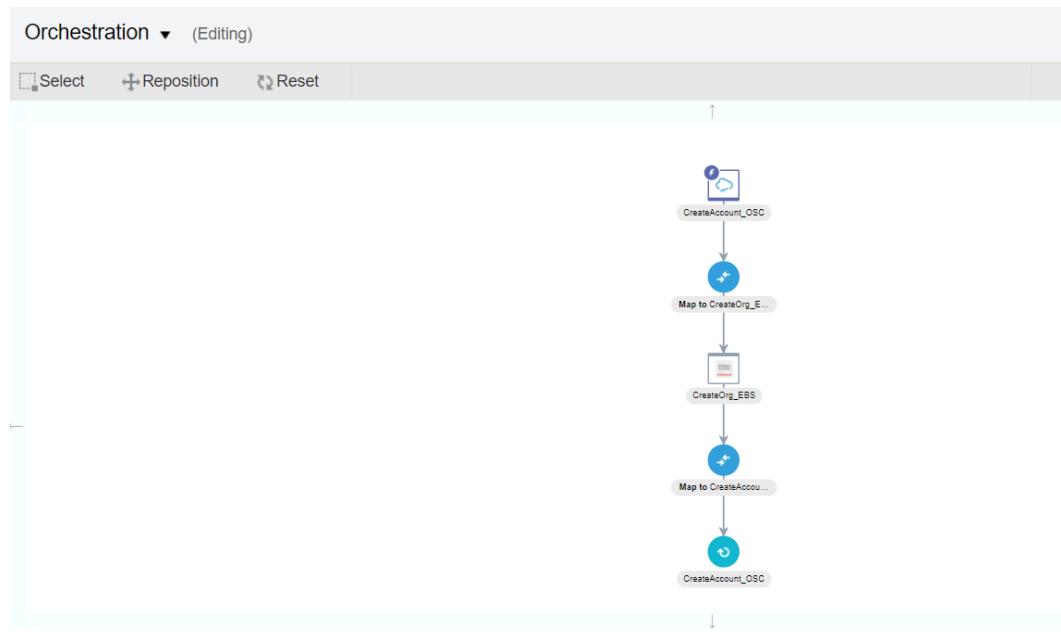
Source	Target
SalesAccountEO_Route_c	*createOriginalSystemReference
Tracking_var_1	originalSystemReferenceId
Tracking_var_2	OrigSystem
Tracking_var_3	OrigSystemReference
\$CreateOrg_EBS	OwnerTableName
CREATE_CUST_ACCOUNT_1Response	OwnerTableId
OutputParameters	Status
X_CUST_ACCOUNT_ID	ReasonCode
X_ACCOUNT_NUMBER	OldOrgSystemReference
X_PARTY_ID	StartDateActive
X_PARTY_NUMBER	EndDateActive
X_PROFILE_ID	CreatedBy
X_RETURN_STATUS	CreationDate
X_MSG_COUNT	LastUpdatedBy
	LastInvalidateDate

The screenshot shows the 'Map to CreateAccount_OSC' interface. On the left, the 'Source' pane lists fields from the 'getAccountResponse' event, including 'PartyId' (selected), 'PartyNumber', 'SourceSystem', 'SourceSystemReferenceValue', 'OrganizationName', 'UniqueNameSuffix', 'PartyUniqueName', 'Type', 'OwnerPartyId', 'OwnerPartyNumber', 'OwnerEmailAddress', and 'OwnerName'. On the right, the 'Target' pane lists fields from the 'createOriginalSystemReference' action, including 'OrigSystemReferenceId', 'OrigSystem', 'OrigSystemReference', 'OwnerTableName', 'OwnerTableId', 'Status', 'ReasonCode', 'OldOrgSystemReference', 'StartDateActive', 'EndDateActive', 'CreatedBy', 'CreationDate', and 'LastUpdatedBy'. A central 'Mappings' section shows a green checkmark next to the mapping between 'PartyId' and 'OrigSystemReference'. A tooltip indicates: 'Drag and drop source to target to create a mapping.' and 'Click a checkbox on source or target to see mappings.'

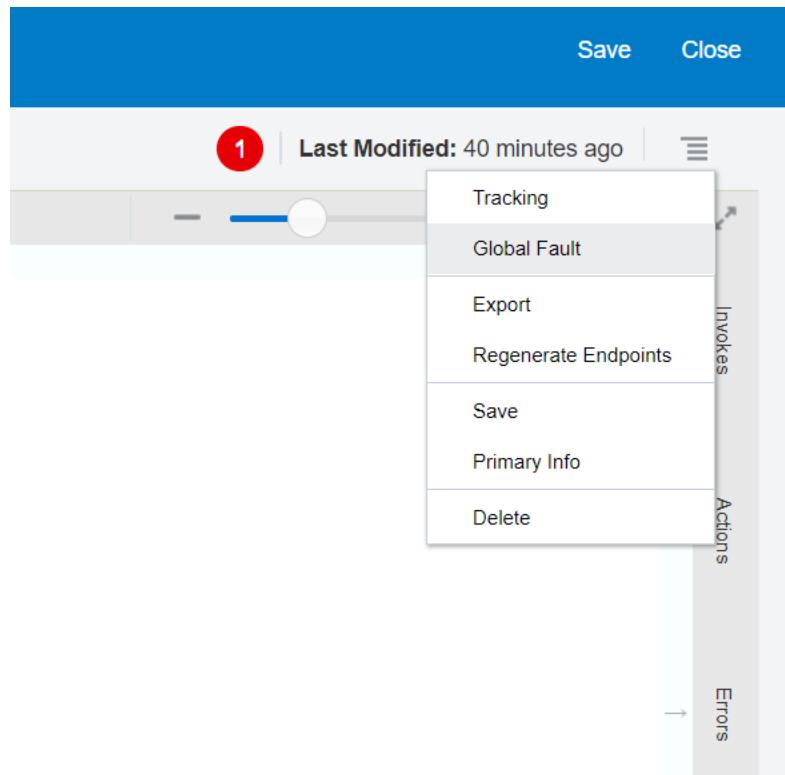
Click on Validate button and make sure you see "Mapping is valid and ready to use" and Close.

The screenshot shows the same interface as above, but with a green header bar indicating 'Mapping is valid and ready to use.' The 'Validate' button is highlighted with a red box. The rest of the interface is identical to the first screenshot.

- Your integration should look like this. Save your work.

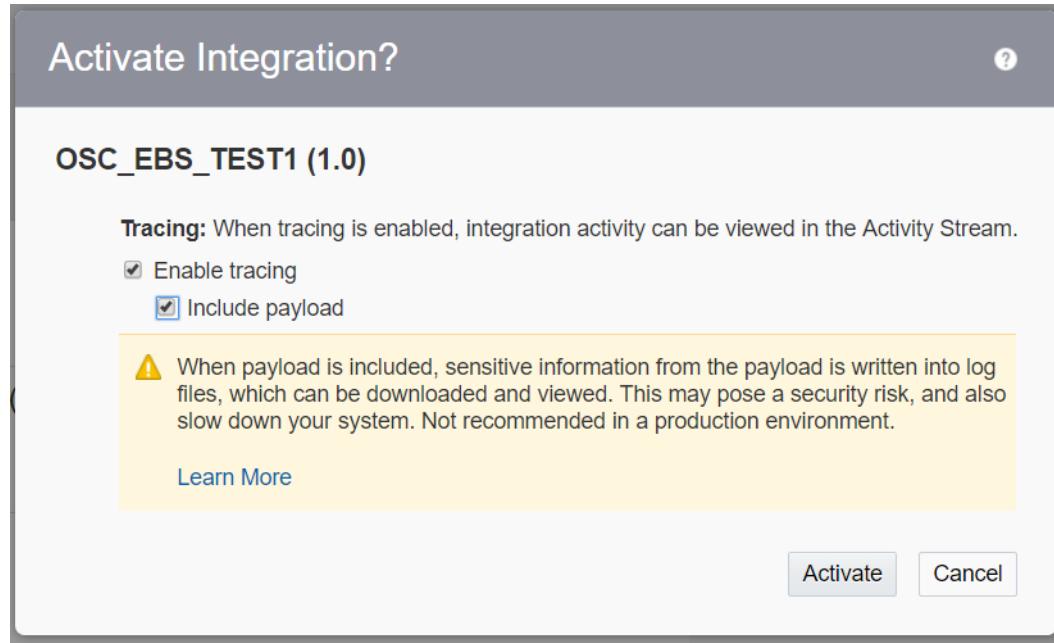


- Now we need to configure Tracking. Click on the menu on the top right corner and select Tracking.



Expand the <result> from the Source pane, and drag and drop OrganizationName to the first row of the Tracking Field on the right pane. Click on Done.

- Now we will activate the Integration. Click on slider icon. Check the option "Enable tracing" including payload into Activity Stream.



Task 4: Test the Integration

- Make sure your integration is activated.
- Your instructor will demonstrate the creation of the account triggered from OSC to test the integration.

This concludes the lab.