

CONFIGURING, DEPLOYING AND MONITORING WEBUI BASED SCENARIO USING SAP CLOUD PLATFORM INTEGRATION

Exercise08: SAP Cloud Platform Integration Components Used:

- SOAP Sender Adapter
- JMS Sender/Receiver Adapter
- SFTP Receiver Adapter
- Iterating Splitter
- Parallel Multicast
- Groovy Script
- Join
- Gather

INTEGRATION SCENARIO

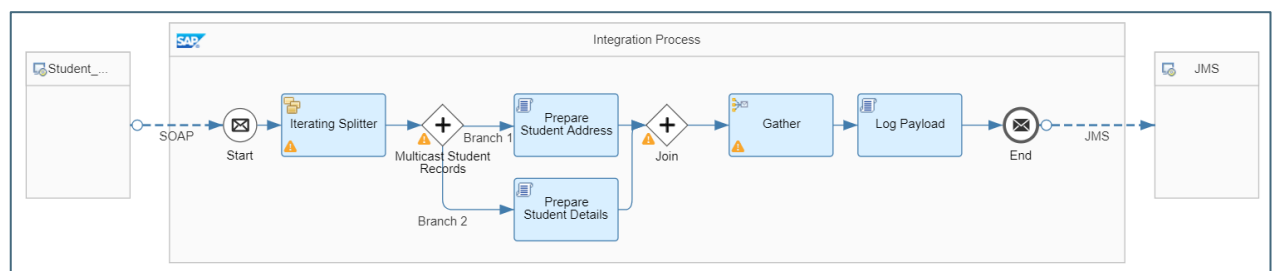
We will showcase the guaranteed delivery or quality of service capability of JMS adapter by processing student records with “Retry” option and moving them from JMS source to SFTP destination directory.

Use Case:

This Integration flow basically showcases simple scenario with 3 use cases:

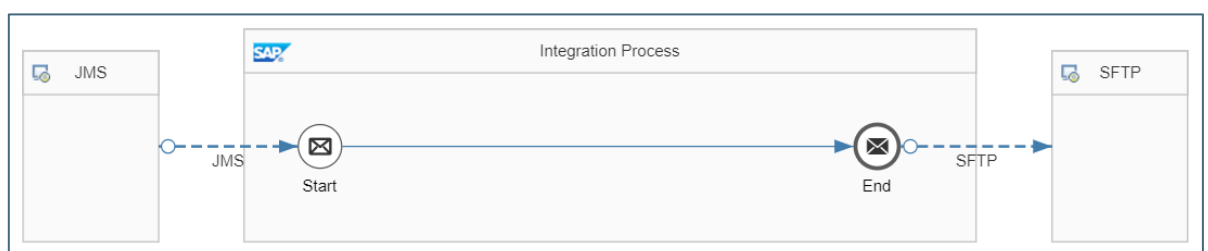
1. Processing Student records with Iterating Splitter, Parallel Multicast, Join, Gather and moving records to JMS queue.

Here we persist records in to JMS queue with “Waiting” state, which may be queried later for further processing.



2. Moving Student records from JMS queue to SFTP destination:

1. With wrong SFTP credentials.
All records in JMS queue with “Waiting” state will be turned in to “Failed” state.
2. Try “Retry” option on JMS queue with correct SFTP credentials.
All records in JMS queue with “Failed” state will be changed to “Waiting” state.
Records will be processed again from JMS queue and will be moved to SFTP destination directory.

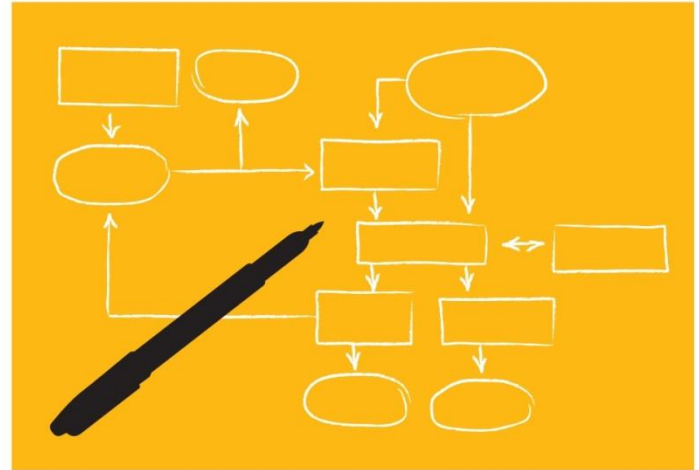


Welcome to the Integration Flow challenge!

In this exercise, your aim is to create an integration flow that solves a challenge (*described in the Integration scenario*).

And when you work your way through the exercise, our aim is that you learn:

1. How to access and work with the Cloud Platform Integration Web tooling
2. How to speed up your integration project by leveraging reference integration flows
3. How to customize a reference integration flow by configuring its connectivity and flow steps
4. Basic monitoring of an integration flow
5. Using Open-source tools to test your integration flow



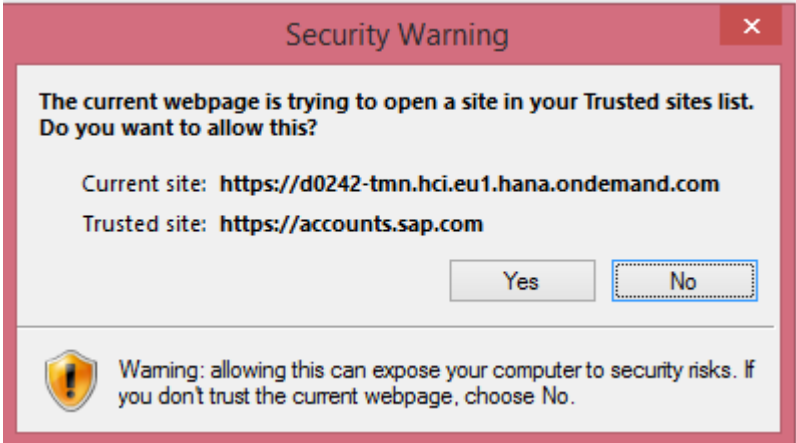
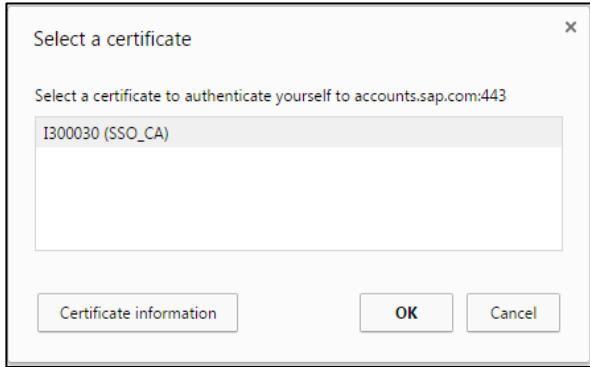
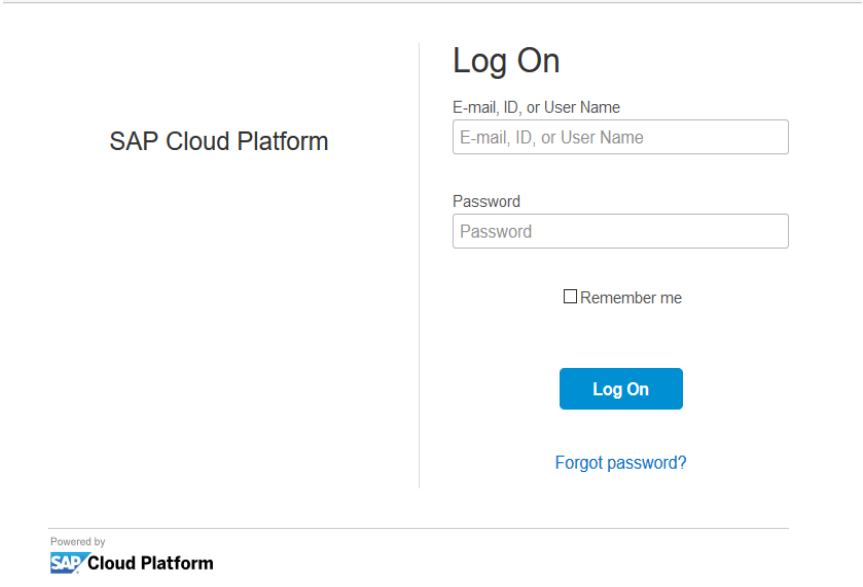
Exercise Files

Exercise Files are provided by the session moderator. Download and Extract them into one of your local folders for use later in your exercises and setup:

Note

1. In the exercise, we have used the notation XX to refer to the content created by you or your group uniquely. The session moderator shall assist you with assigning you/group the unique ID that you can use to replace XX.
2. In the exercise, we have used **d0242/d0243** as the example tenants. The final tenant details shall be provided by the session moderator.
3. Please note that colours and other visual appearance might differ slightly from the screenshot screens, as the CPI editor might have received feature upgrades since production of this content.

EXERCISE 8A

Explanation	Screenshot
<p>Follow these steps for integration flow creation in Web UI.</p>	
<p>1) Access the Web application using Google Chrome (or IE10 Browser)</p> <ol style="list-style-type: none"> Open Google Chrome Copy the application URL or The URL that you can use will be assigned to you by the instructor. You will get a security warning if you want to open this site in your trusted sites list. <p>Accept it with 'Yes'.</p>	 <p>A 'Security Warning' dialog box with a red border and a close button (X) in the top right corner. The text inside reads: 'The current webpage is trying to open a site in your Trusted sites list. Do you want to allow this?'. Below this, it shows 'Current site: https://d0242-tmn.hci.eu1.hana.ondemand.com' and 'Trusted site: https://accounts.sap.com'. At the bottom right are 'Yes' and 'No' buttons, with 'No' being highlighted with a dashed border. At the bottom left is a warning icon (exclamation mark in a shield) and the text: 'Warning: allowing this can expose your computer to security risks. If you don't trust the current webpage, choose No.'</p>
<p>2) If you get displayed your Certificate List, click on 'Cancel'</p>	 <p>A 'Select a certificate' dialog box with a close button (X) in the top right corner. The text inside reads: 'Select a certificate to authenticate yourself to accounts.sap.com:443'. Below this is a list box containing 'I300030 (SSO_CA)'. At the bottom are three buttons: 'Certificate information', 'OK', and 'Cancel'.</p>
<p>3) You will now see the log-on screen for the SAP ID Service/SAP Cloud Platform. Enter the following credentials:</p> <p><i>User:</i> <Provided by instructor> <i>Password:</i> <Provided by instructor></p>	 <p>The SAP Cloud Platform 'Log On' screen. On the left, it says 'SAP Cloud Platform'. On the right, under the heading 'Log On', there are two input fields: 'E-mail, ID, or User Name' and 'Password'. Below these is a checkbox labeled 'Remember me'. A blue 'Log On' button is at the bottom right, with a link 'Forgot password?' below it. At the very bottom, it says 'Powered by SAP Cloud Platform' with the SAP logo.</p>

- 4) Now you will have access to the Web application. Familiarize yourself with the environment and choose the “Design” area. Here, you will create an Integration Package to store your iFlows for different Exercises

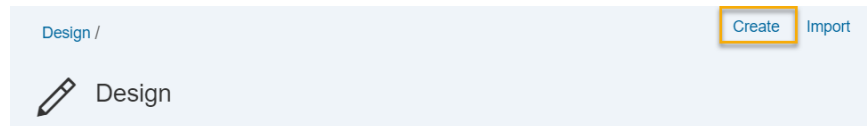
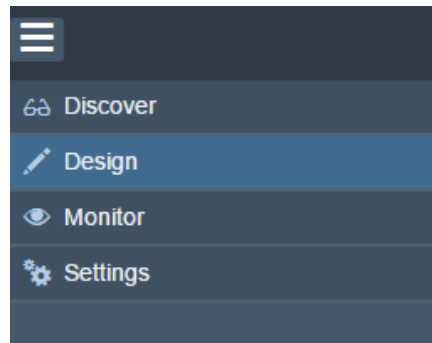
Click on **Create**

Enter Details

- a) **Name:** Cloud Platform, Integration Service Workshop (Exercises) Group_XX

NOTE: Replace XX with the group number provided by the instructor

- b) **Short Description:** EKT Cloud Platform, Integration Service
- c) **Version:** 1.0.0
- d) **Vendor:** SAP



Design / New Package /

Cloud Platform, Integration Service Workshop (Exercises) Group_00

Header Overview Artifacts Documents Tags

*Name: Cloud Platform, Integration Service Workshop (Exercises) Group_00

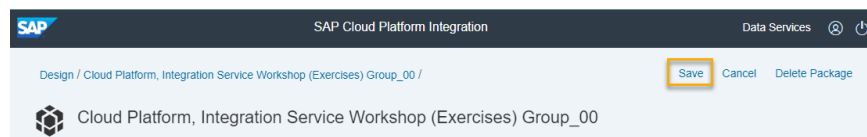
*Technical Name: CloudPlatformIntegrationServiceWorkshopExercisesGroup00 ⓘ

*Short Description: EKT Cloud Platform, Integration Service

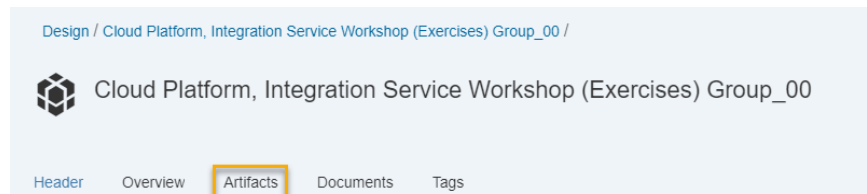
Version: 1.0.0

Vendor: SAP

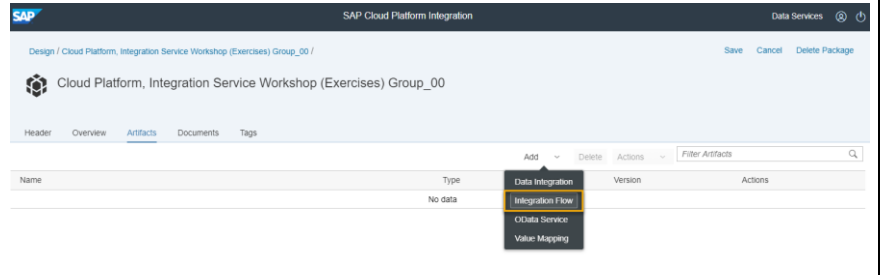
- 5) Click on Save



- 6) Navigate to **Artifacts** Tab



7) Click on **Add-> Integration Flow**



- 8) Select **Create** and enter the following details:
- a. Name: **Exercise08a_XX**
 - b. Description: **Exercise08a_WebUI_SOAP_JMS_IteratingSplitter_ParallelMulticast_Join_Gather**
 - c. Sender: **SOAP**
 - d. Receiver: **JMS**
 - e. Click on **OK**

Note: Please remember to save after every action

Add integration flow artifact

☒ Create ☐ Upload

*Name: Exercise08a_00

*ID: Exercise08a_00

Product Profile: SAP Cloud Platform Integration

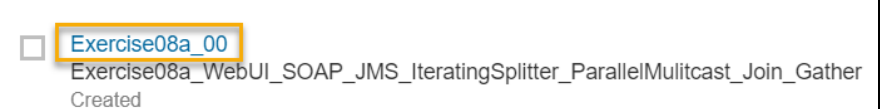
Description: Exercise08a_WebUI_SOAP_JMS_IteratingSplitter_ParallelMulticast_Join_Gather

Sender: SOAP Receiver: JMS

OK Cancel

Save Cancel Delete Package

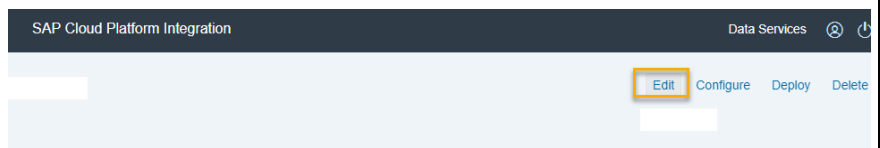
9) Click on **Exercise08a_XX**



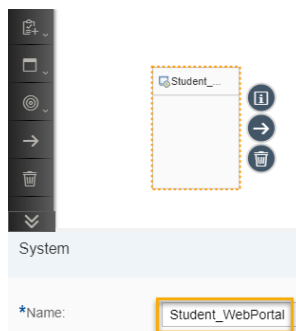
Define and edit integration flow

Follow steps to edit the integration flow

10) Click on **Edit** button on the upper corner on right hand side.



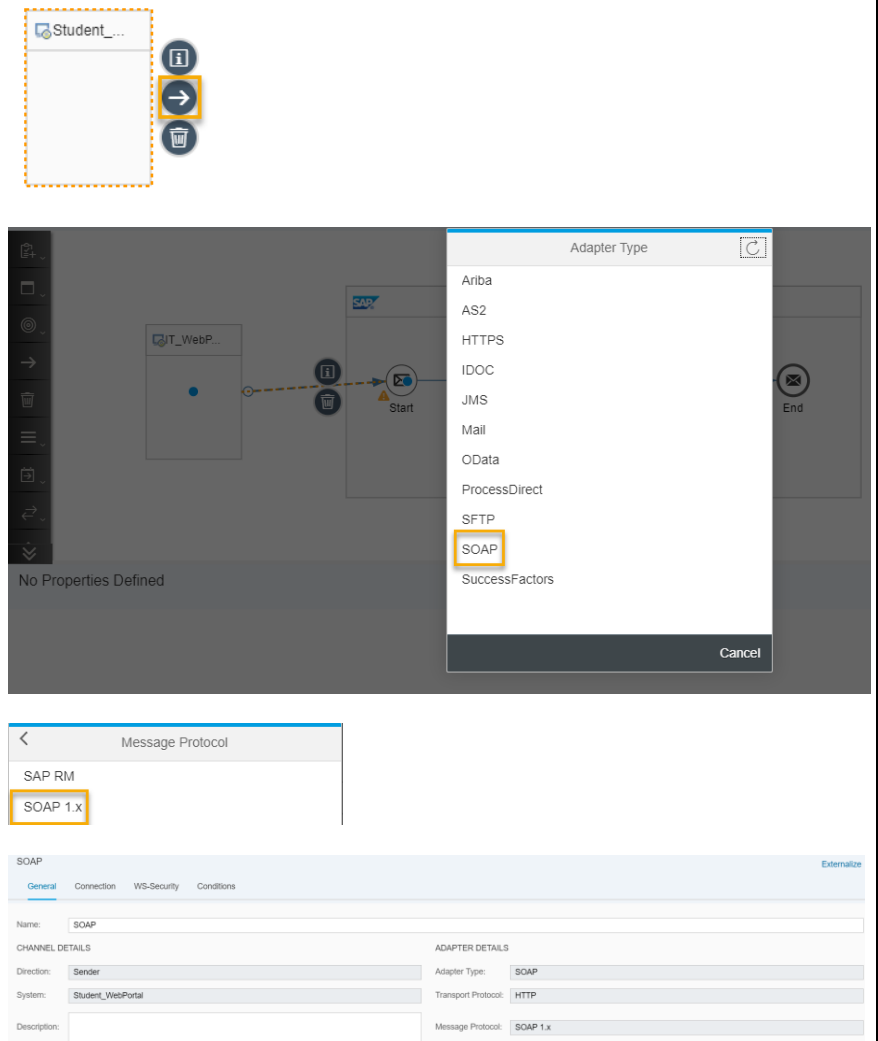
11) Click on Sender and set Name as **Student_WebPortal**



- 12) Click on **Student_WebPortal** sender system, select **Connector** and drag it to **Start** message step. This would open the sender adapter list.

Select **SOAP** adapter

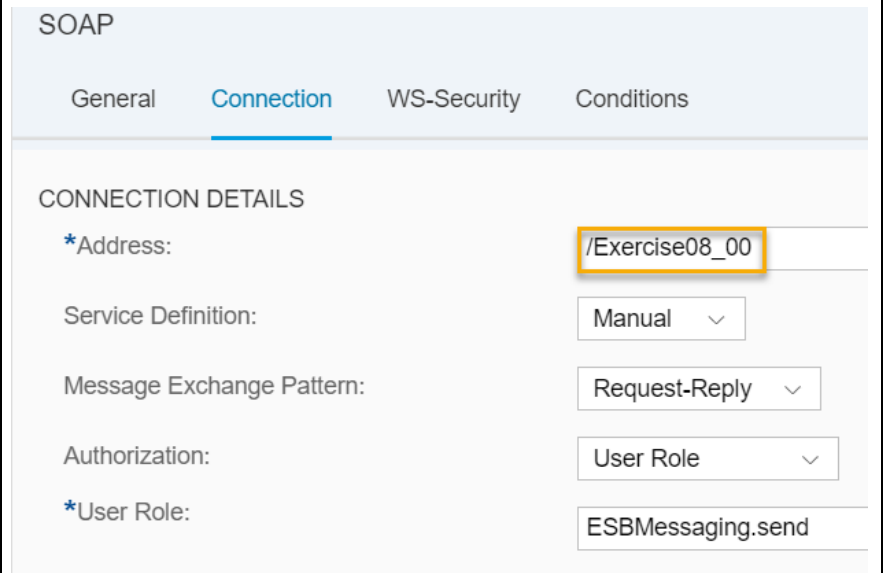
Select **SOAP 1.x** as Message protocol



- 13) Switch to **Connection** tab, enter the following details:

- a. Address: **/Exercise08_XX**
(make sure this address is unique on tenant)

Keep rest of the parameters as it is and Save

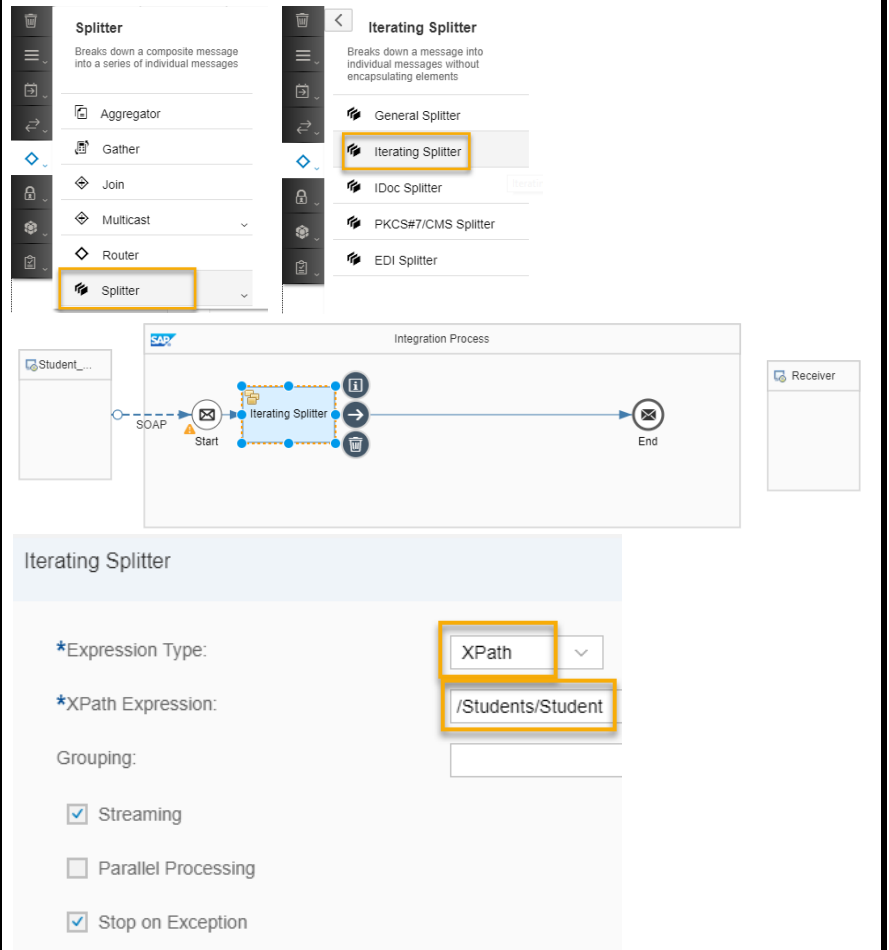


- 14) From the palette, select **Message Routing -> Splitter -> Iterating Splitter** and drop it on the connection between **Start** message and **End** message in the Integration flow. This would automatically create connections.

Provide the following properties:

- Expression Type: **XPath**
- XPath Expression: **/Students/Student**

Keep rest of the parameters as it is and Save

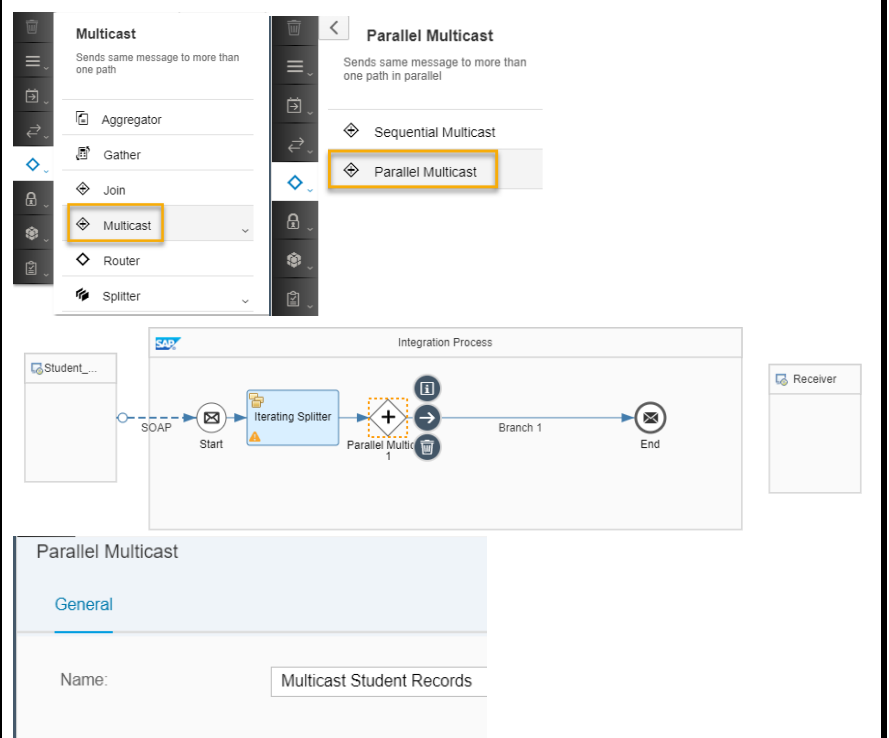


- 15) From the palette, select **Message Routing -> Multicast -> Parallel Multicast** and drop it on the connection between **Iterating Splitter** and **End** message in the Integration flow.


Provide following properties:

- Name: **Multicast Student Records**

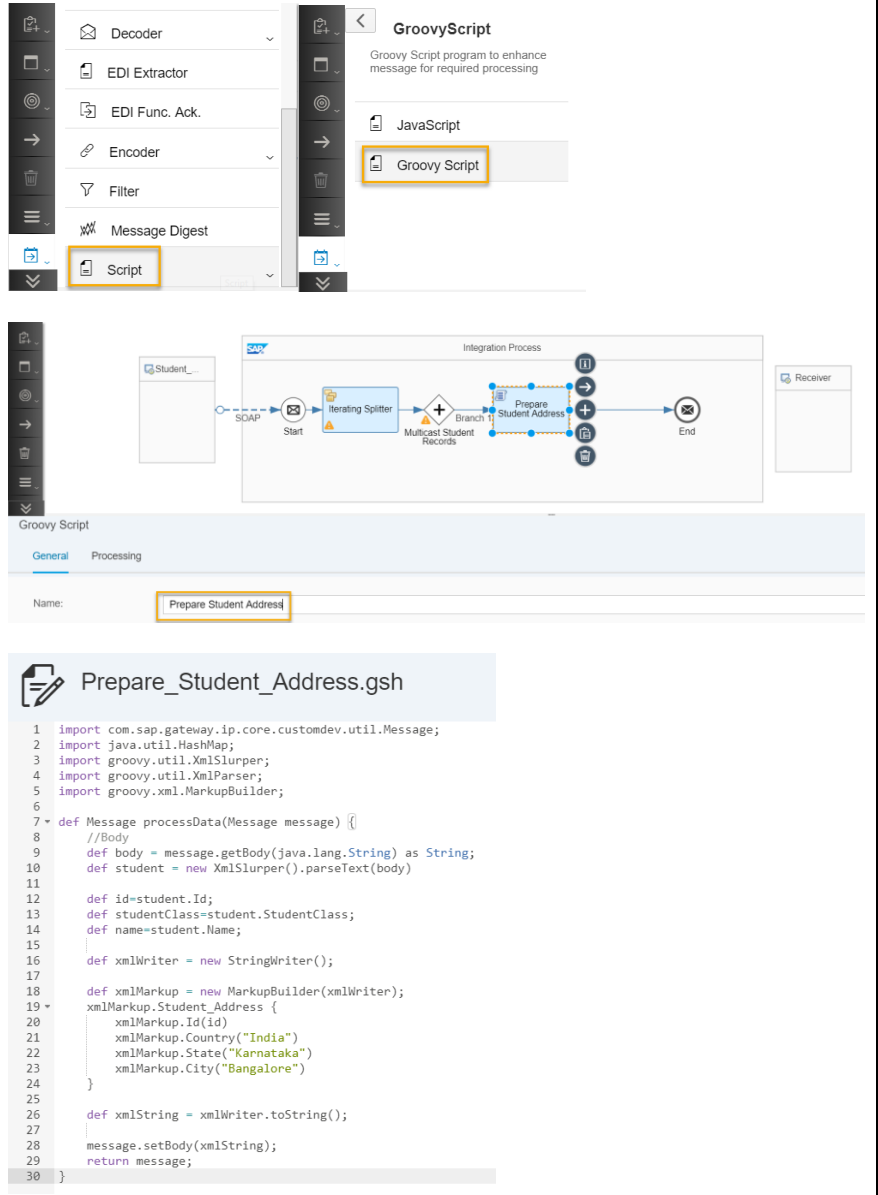
Save



16) A groovy script is provided which prepare student address. It need to be added on **Multicast Branch 1** in iFlow using the following steps:

- From palette, select **Message Transformers -> Script -> Groovy Script** and drop it on the connection between **Multicast** flow step and **End** message in the Integration flow.
- Click on **Assign** icon .
- Upload **Prepare_Student_Address.gsh** file from file system provided by the instructor.
- Rename the script as **Prepare Student Address**

Save




The screenshot displays the SAP iFlow Studio interface. On the left, the 'Script' component is selected from the 'Message Transformers' palette. The main canvas shows an integration process with a 'Multicast Branch' and a 'Prepare Student Address' script component. Below the canvas, the 'GroovyScript' configuration panel is visible, showing the script name 'Prepare Student Address'. The script code is displayed in a text editor:

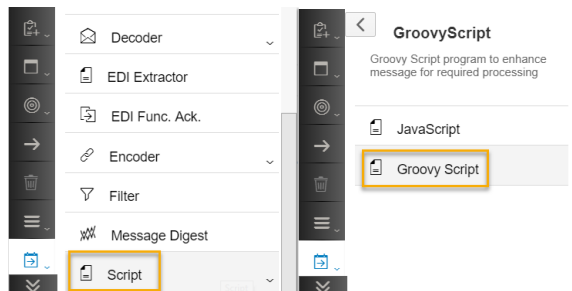
```

1 import com.sap.gateway.ip.core.customdev.util.Message;
2 import java.util.HashMap;
3 import groovy.util.XmlSlurper;
4 import groovy.util.XmlParser;
5 import groovy.xml.MarkupBuilder;
6
7 def Message processData(Message message) {
8     //Body
9     def body = message.getBody(java.lang.String) as String;
10    def student = new XmlSlurper().parseText(body)
11
12    def id=student.Id;
13    def studentClass=student.StudentClass;
14    def name=student.Name;
15
16    def xmlWriter = new StringWriter();
17
18    def xmlMarkup = new MarkupBuilder(xmlWriter);
19    xmlMarkup.Student_Address {
20        xmlMarkup.Id(id)
21        xmlMarkup.Country("India")
22        xmlMarkup.State("Karnataka")
23        xmlMarkup.City("Bangalore")
24    }
25
26    def xmlString = xmlWriter.toString();
27    message.setBody(xmlString);
28    return message;
29 }
30

```

17) A groovy script is provided which prepare student other details like name and class. It need to be added on **Multicast Branch 2** in iFlow using following steps:

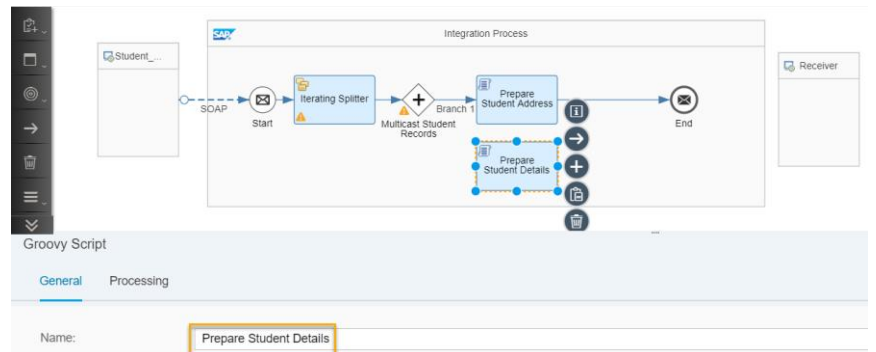
- From palette, select **Message Transformers -> Script -> Groovy Script** and drop it inside the **Integration Process**.
- Click on **Assign** icon .
- Upload **Prepare_Student_Details.gsh** file from file system provided by the instructor.



The screenshot displays the SAP iFlow Studio interface, showing the 'Script' component selected from the 'Message Transformers' palette. The main canvas shows an integration process with a 'Multicast Branch' and a 'Prepare Student Address' script component. Below the canvas, the 'GroovyScript' configuration panel is visible, showing the script name 'Prepare Student Address'.

- d. Rename the script as **Prepare Student Details**
- e. Draw the connection from **Multicast Student Records** to **Prepare Student Details** script step.

Save

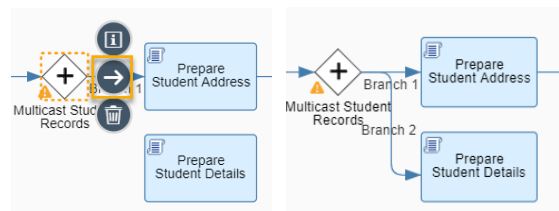


Prepare_Student_Details.gsh

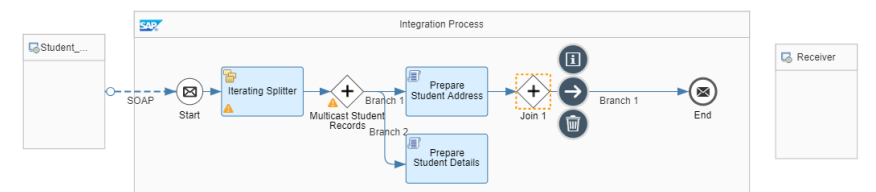
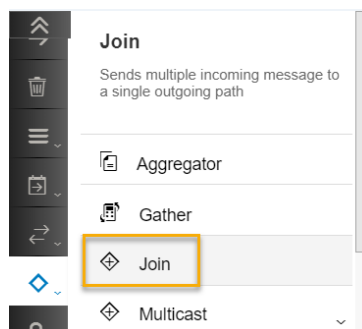
```

1 import com.sap.gateway.ip.core.customdev.util.Message;
2 import java.util.HashMap;
3 import groovy.util.XmlSlurper;
4 import groovy.util.XmlParser;
5 import groovy.xml.MarkupBuilder;
6
7 def Message processData(Message message) {
8     //Body
9     def body = message.getBody(java.lang.String) as String;
10    def student = new XmlSlurper().parseText(body)
11
12    def id=student.Id;
13    def studentClass=student.StudentClass;
14    def name=student.Name;
15
16    def xmlWriter = new StringWriter();
17
18    def xmlMarkup = new MarkupBuilder(xmlWriter);
19    xmlMarkup.Student_Details {
20        xmlMarkup.Id(id)
21        xmlMarkup.Name(name)
22        xmlMarkup.StudentClass(studentClass)
23    }
24
25    def xmlString = xmlWriter.toString();
26
27    message.setBody(xmlString);
28    return message;
29 }

```

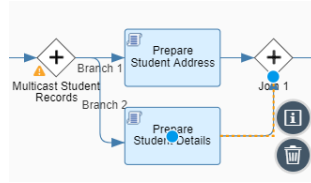


- 18) From the palette, select **Message Routing -> Join** and drop it on the connection between **Prepare Student Address** script step and **End** message in the Integration flow.



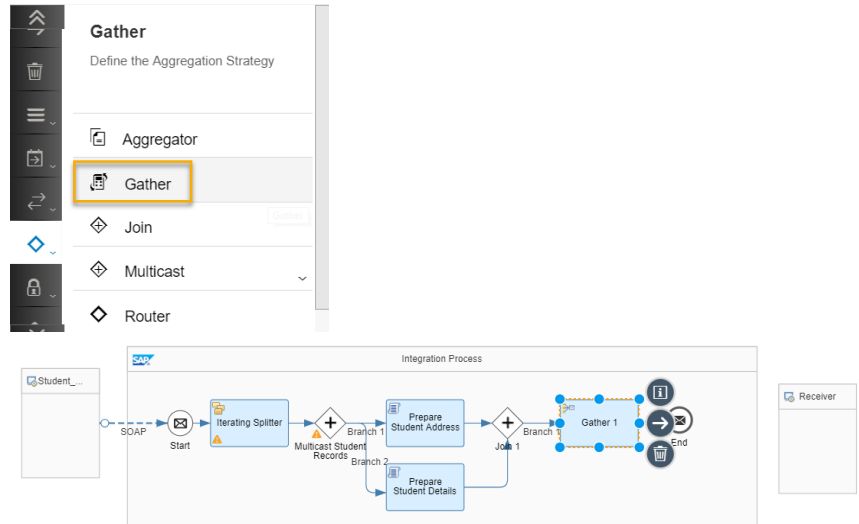
Also draw the connection from **Prepare Student Details** script step to **Join** flow step.

Save



19) From the palette, select **Message Routing -> Gather** and drop it on the connection between **Join** flow step and **End** message in the Integration flow.

Save



20) A groovy script is provided which writes payload in MPL which is quite useful for debugging purpose. It need to be added after **Gather** flow step in iFlow using the following steps:

- From palette, select **Message Transformers -> Script -> Groovy Script** and drop it on the connection after the **Gather** flow step in the Integration flow.
- Click on **Assign** icon.
- Upload **Log_Payload.gsh** file from file system provided by the instructor.
- Rename the script as **Log Payload**

Save

The diagram shows the 'GroovyScript' step added to the integration flow. The flow starts with 'Student...' and 'SOAP' input, goes through an 'Iterating Splitter', then a 'Multicast Student Records' step. It then branches into 'Branch 1' (Prepare Student Address) and 'Branch 2' (Prepare Student Details). Both branches join at 'Join 1', which then connects to 'Gather 1', followed by 'Log Payload' and finally to 'End'.

GroovyScript
Groovy Script program to enhance message for required processing

JavaScript
Groovy Script

Script

Name: Log Payload

Log_Payload.gsh

```

1 import com.sap.gateway.ip.core.customdev.util.Message;
2 import java.util.HashMap;
3
4 def Message processData(Message message) {
5     def body = message.getBody(java.lang.String) as String;
6     def messageLog = messageLogFactory.getMessageLog(message);
7     messageLog.addAttachmentAsString("Payload", body, "text/plain");
8
9     return message;
10 }

```

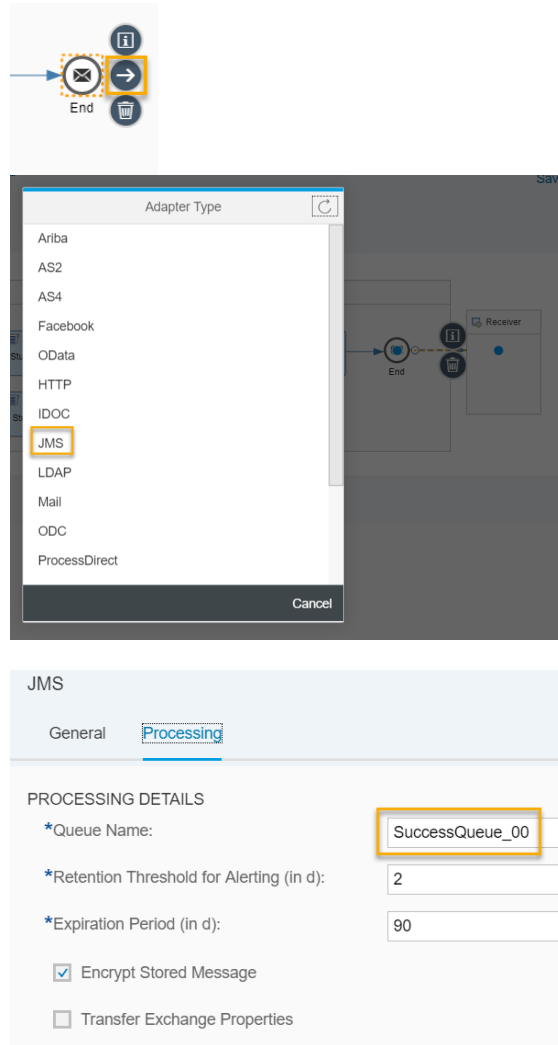
21) Click on **End** message step, select **Connector** and drag it to **Receiver** system. This would open the receiver adapter list.

Select **JMS** adapter

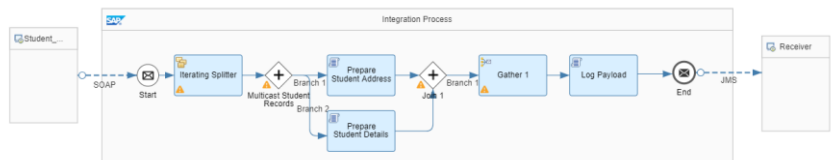
Provide the following properties:

- a. Queue Name:
SuccessQueue_XX

Keep rest of the parameters as it is and Save



22) Your integration flow should look like this.



Deploy Integration Project on tenant:

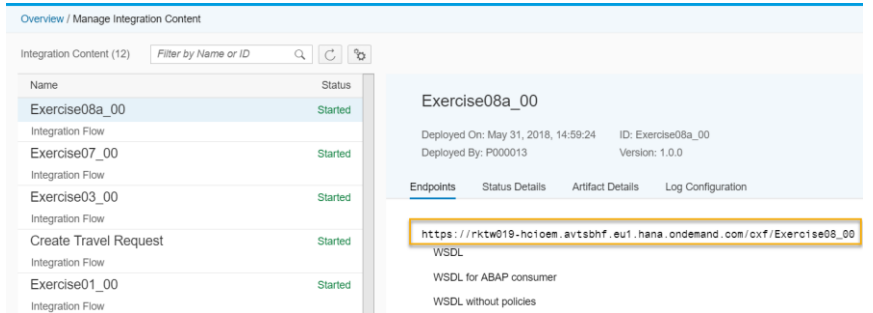
Follow this step to deploy Integration Project on tenant.

23) Press **Deploy** in the Integration Flow Task Bar.

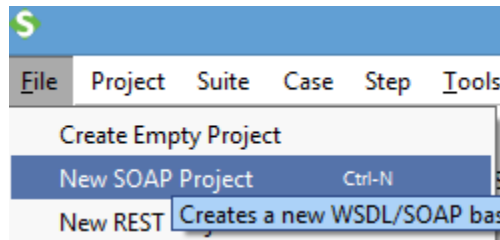
Save Save as version **Deploy** Cancel Delete

<p>24) You will receive a confirmation. Click on Yes.</p> <p>Once the deployment is completed successfully you will receive a 2nd notification.</p>	<div><div><div>?</div>Confirmation</div><div>Do you want to deploy?</div><div>YesNo</div></div> <div><div><div>i</div>Deployment</div><div>'Exercise08a_00' is triggered for deployment.</div><div>OK</div></div>						
<p>25) Verify if the deployment is successful:</p> <p>In the first level Menu Bar switch to Section Monitor and then click on All in Manage Integration Content.</p> <p>You should see an entry with your integration flow.</p>	<div><div><div><div>Discover</div><div>Design</div><div>Monitor</div><div>Operations view</div></div><div><div>Manage Integration Content</div><div><div>All</div><div>All</div><div>1</div><div>All</div><div>1</div><div>Started</div></div></div></div><div><div>Exercise08a_00</div><div>Integration Flow</div><div>Started</div></div></div>						
<p>26) Go to the Operations View → Message Stores → Message Queues. You should see 1 new queue with the name SuccessQueue_XX is created.</p>	<div><div>Overview / Manage Message Queues</div><div><div>i</div>Used Capacity: 0.0 / 5242880 KB</div><div><div>Queues (1)</div><div>Filter by Name</div><div>Q</div><div>Actions</div></div><table><thead><tr><th>Name</th><th>Entries</th><th>Size (in MB)</th></tr></thead><tbody><tr><td>SuccessQueue_00</td><td>0</td><td>0.000</td></tr></tbody></table></div>	Name	Entries	Size (in MB)	SuccessQueue_00	0	0.000
Name	Entries	Size (in MB)					
SuccessQueue_00	0	0.000					
<p>Execute end to end scenario:</p>	<p>Follow steps to execute end to end scenario. You need to configure and run the scenario end to end using SOAP UI which has been installed and configured as a pre-requisite of this training.</p>						
<p>27) Before we test the interface using SOAP UI, we need the End Point URL of the deployed integration flow.</p>							

28) Select your deployed artifact. On the right side, endpoint details are available
Copy the endpoint URL



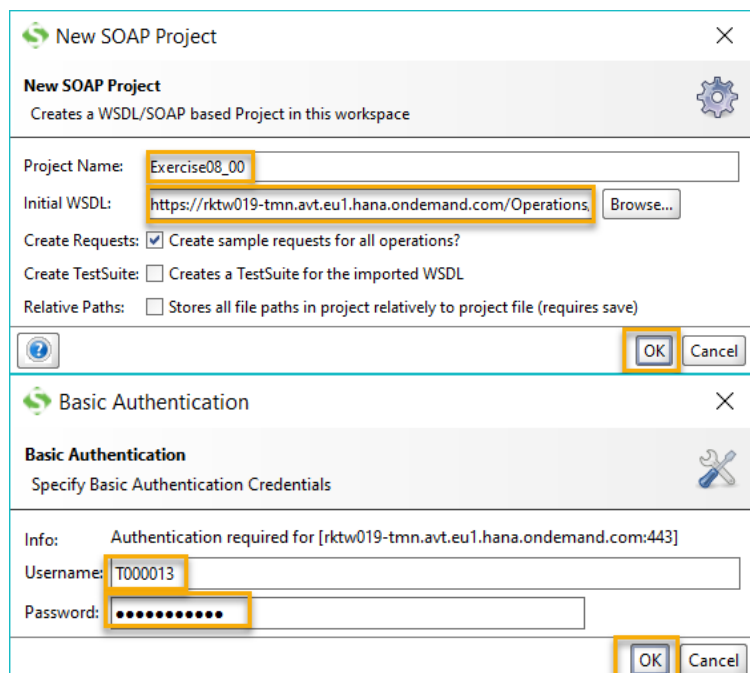
29) Open SOAP UI and create a new **SOAP Project**.



30) In the opened window:

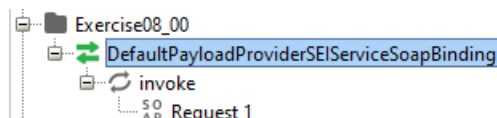
- Enter **Exercise08_XX** as Project Name
- In Initial WSDL copy the WSDL link from the same place from where you copied the endpoint URL in step 28

Provide your CPI tenant username and password



31) Navigate to the WSDL binding and maintain the following information in the **Service Endpoints** Tab

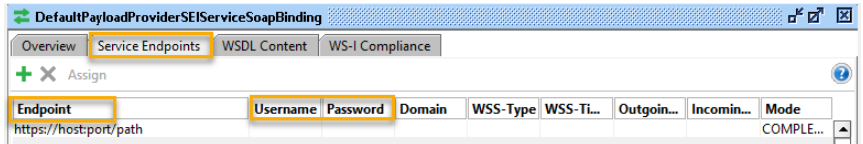
Endpoint:



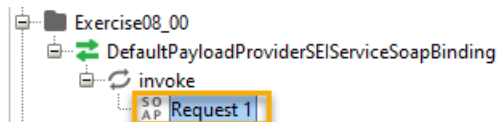
<Deployed Integration Content Endpoint as described in step 28>

User:
<your CPI tenant logon User provided by the Instructor>

Password:
<your CPI tenant logon password provided by the Instructor>




32) Double click the XML Request to open it



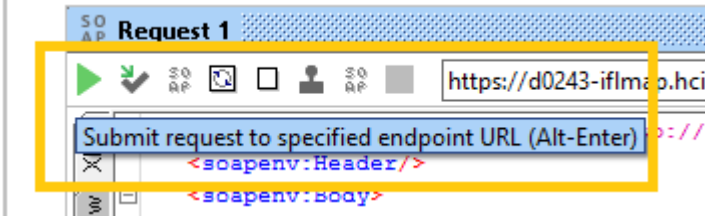
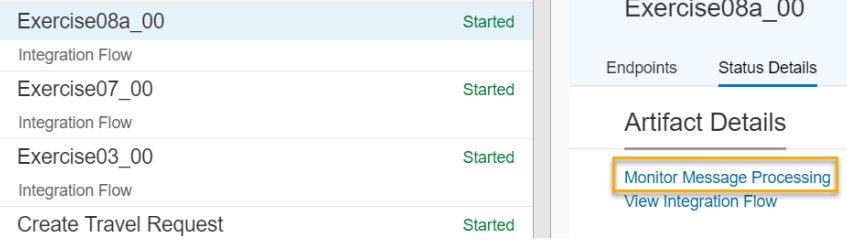
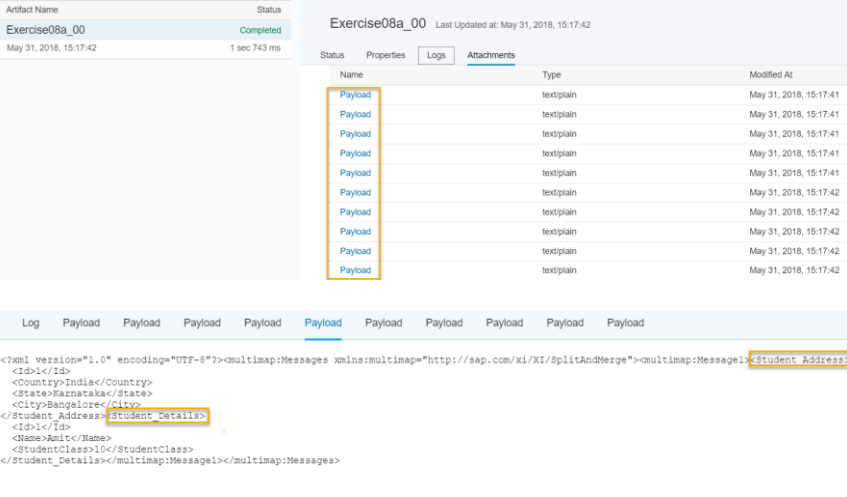
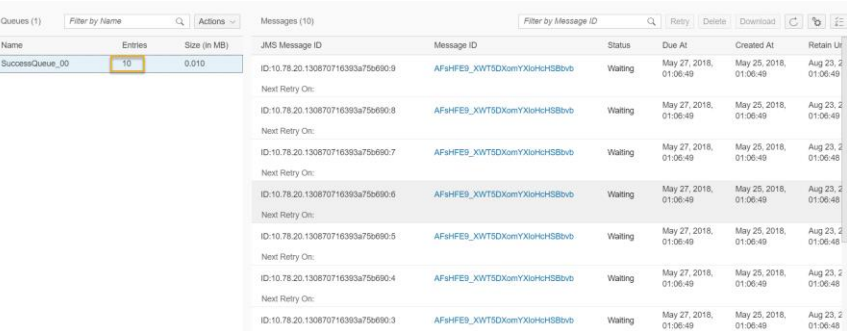
33) Copy and Paste the input text from file

student_data_test_soap_payload.xml provided by the instructor

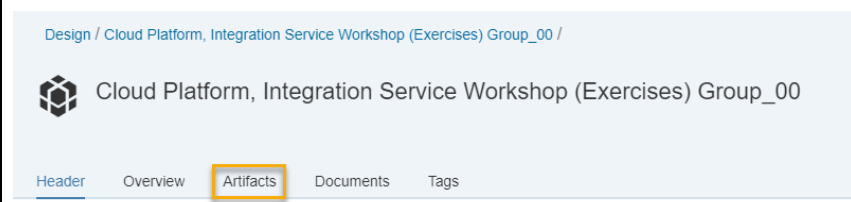
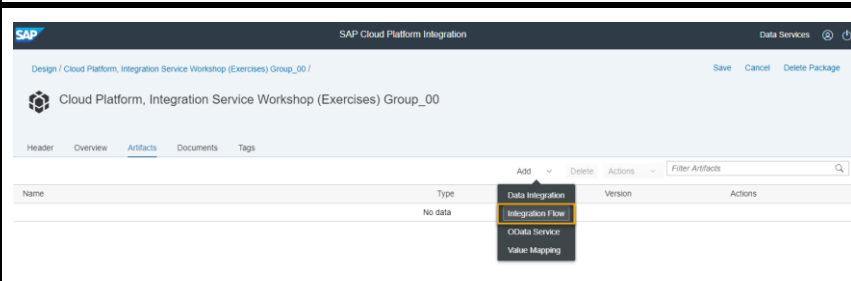
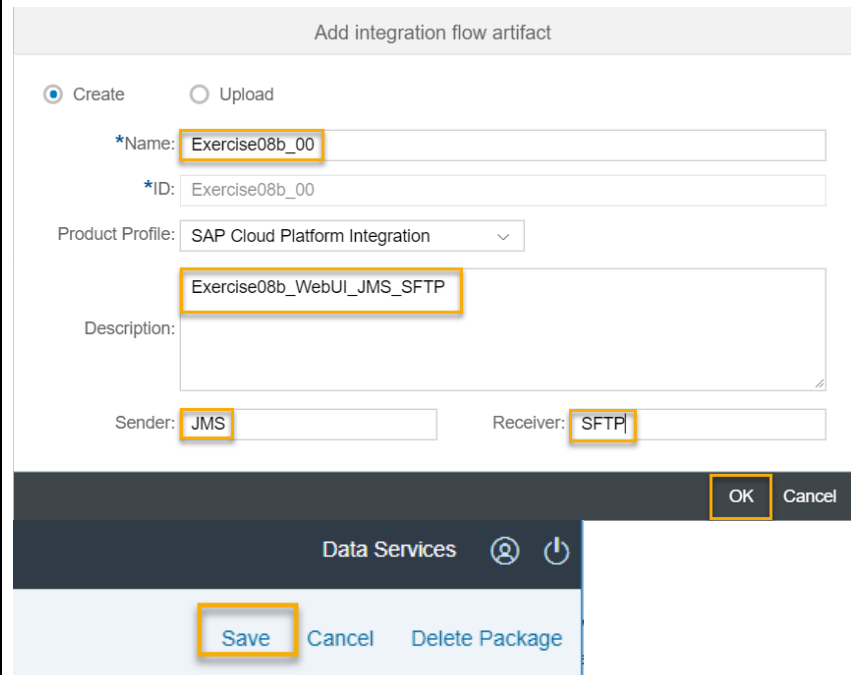

And click on icon  to send request to the server.

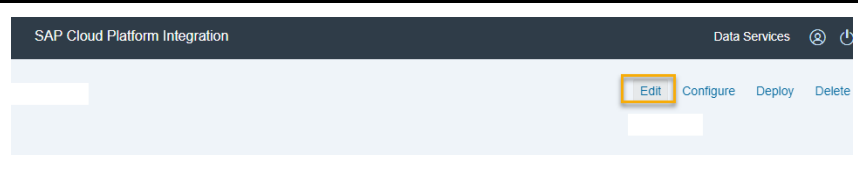
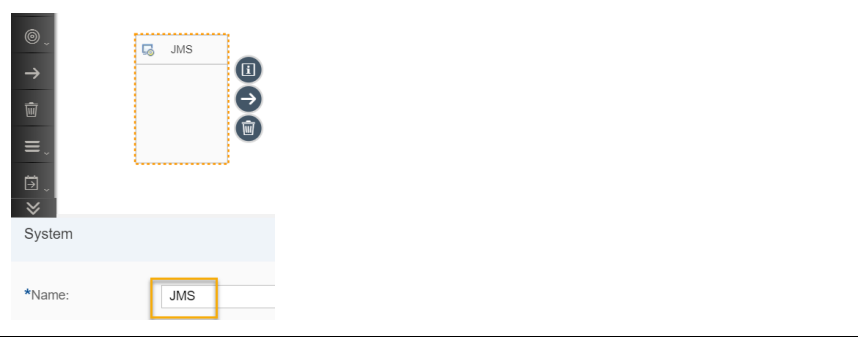
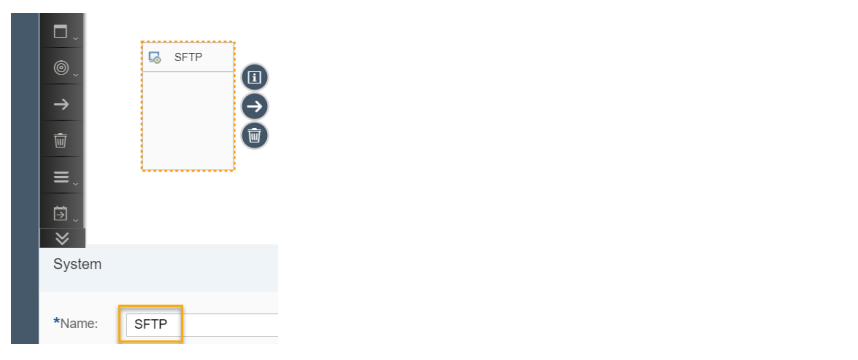
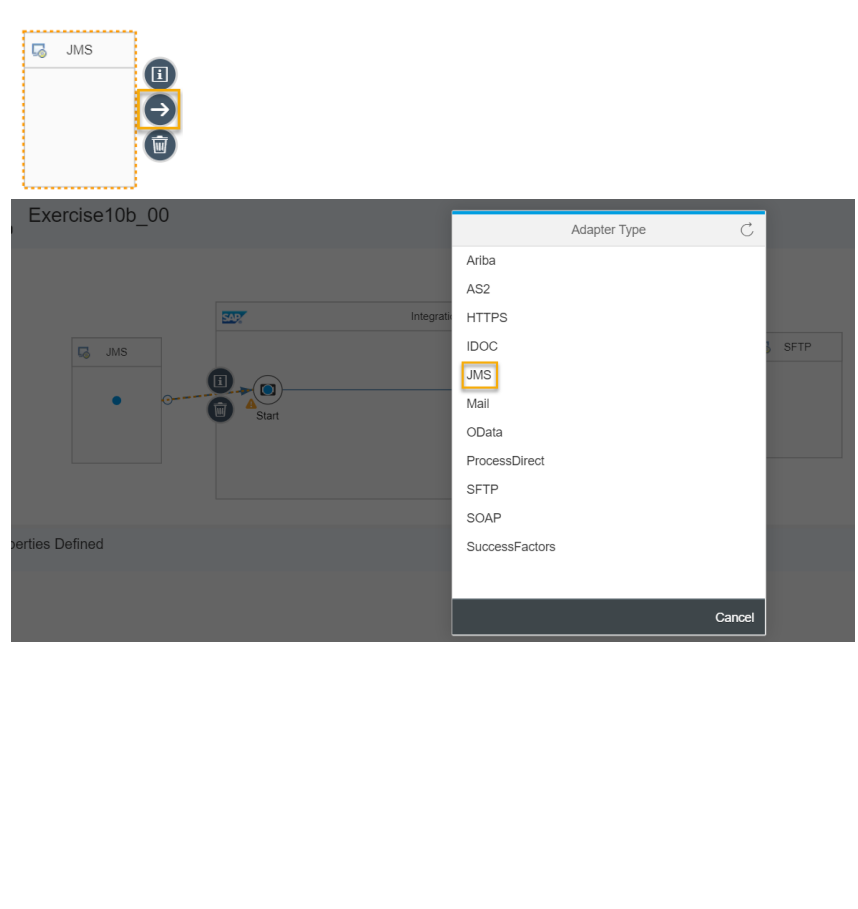
You should get response 200 OK



	
<p>34) Go to the Operations View → Manage Integration Content → Exercise08a_XX.</p> <p>Click on Monitor Message Processing</p>	
<p>35) Deployed Exercise08a_XX integration flow message processing status should be Completed and you can see that 10 attachments added for each student record.</p> <p>In each attachment, you can see Student_Address and Student_Details for each student record using Iterating Splitter, Parallel Multicast, Scripts and Join-Gather flow steps.</p>	
<p>36) Now go to the Operations View → Message Stores → Message Queues → SuccessQueue_XX. You can see 10 new entries in the JMS Queue for each student record.</p>	

EXERCISE 08B

Explanation	Screenshot
Follow these steps for integration flow creation in Web UI.	
1) Navigate to Artifacts Tab	
2) Click on Add-> Integration Flow	
3) Select Create and enter the following details: <ul style="list-style-type: none"> a. Name: Exercise08b_XX b. Description: Exercise08b_WebUI_JMS_SF TP c. Sender: JMS d. Receiver: SFTP e. Click on OK Note: Please remember to save after every action	
4) Click on Exercise08b_XX	
Define and edit integration flow	Follow steps to edit the integration flow

<p>5) Click on Edit button on the upper corner on right hand side.</p>	
<p>6) Click on Sender system and set Name as JMS</p>	
<p>7) Click on Receiver system and set Name as SFTP</p>	
<p>8) Click on JMS sender system, select Connector and drag it to Start message step. This would open the sender adapter list.</p> <p>Select JMS adapter</p>	

Provide the following properties:

- b. Queue Name:
SuccessQueue_XX

Keep rest of the parameters as it is and Save

JMS

General **Connection**

PROCESSING DETAILS

*Queue Name: SuccessQueue_00

*Number of Concurrent Processes: 1

RETRY DETAILS

*Retry Interval (in min): 1

☒ Exponential Backoff

*Maximum Retry Interval (in min): 60

☒ Dead-Letter Queue

- 9) Click on **End** message step, select **Connector** and drag it to **SFTP** receiver system. This would open the receiver adapter list.

Select **SFTP** adapter

End

Exercise10b_00

Adapter Type

- HTTP
- IDOC
- JMS
- LDAP
- Mail
- ODC
- ProcessDirect
- RFC
- SFTP**
- SOAP
- SuccessFactors
- Twitter

Cancel

SFTP

General Target Processing Advanced Externalize

Name: SFTP

CHANNEL DETAILS

Direction: Receiver Adapter Type: SFTP

System: SFTP Transport Protocol: SFTP

Description: Message Protocol: File

10) Switch to **Target** tab, enter the following details:

- Directory:**
/CPI_EKT/Group_XX/outbox/Exercise08b/JMS
- Address:**
<provided by the Instructor>
- Authentication:**
User Name/Password
- Credential Name:**
Name of credential object which holds SFTP user and password, deployed on the tenant.
For this use case we deploy the wrong credentials
- Automatically Disconnect:**
checked

Save

SFTP

General **Target** Processing Advanced

FILE ACCESS PARAMETERS

Directory: /CPI_EKT/Group_XX/outbox/Exercise08b/JMS

File Name:

☐ Append Timestamp

CONNECTION PARAMETERS

*Address:

Authentication:

User Name/Password

*Credential Name:

Timeout (in ms):

10000

Maximum Reconnect Attempts:

3

Reconnect Delay (in ms):

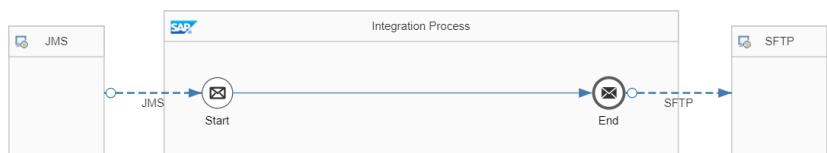
1000

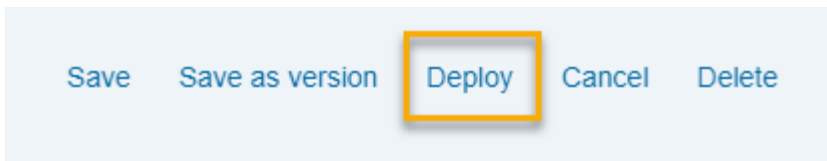
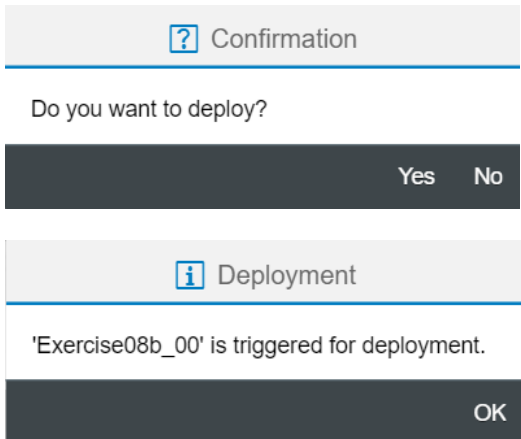
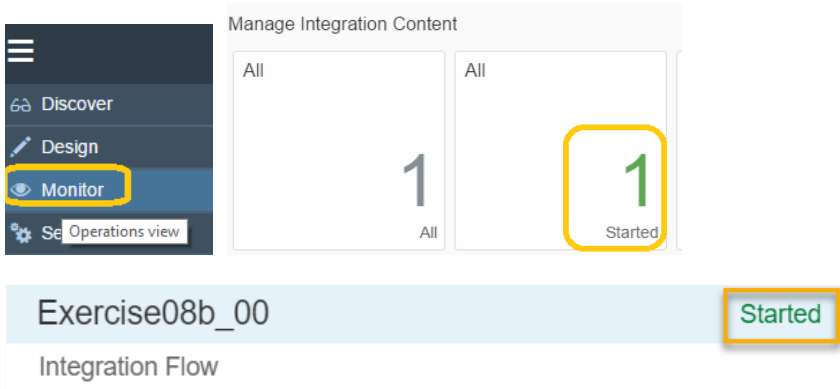
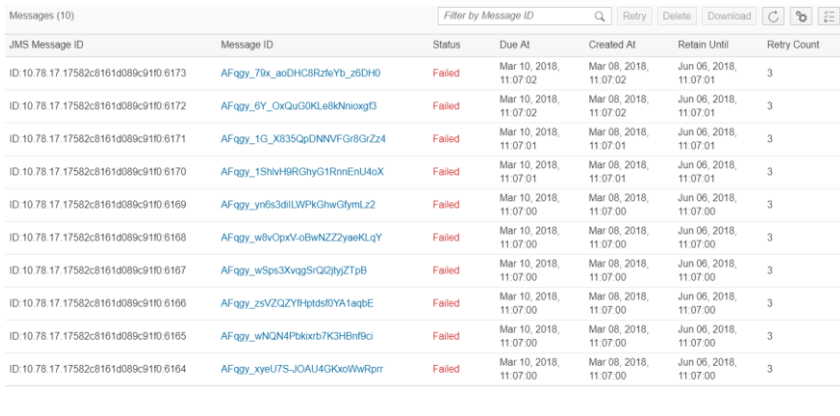
☒ Automatically Disconnect

11) Now go to the **Operations View** → **Message Stores** → **Message Queues** → **SuccessQueue_XX**. You can see 10 entries with status **Waiting** in the JMS Queue for each student record.

JMS Message ID	Message ID	Status
ID:10.120.84.223c39a163965ae1b60:9	AFsHxVejMddVg7vOJirZqCgb_7K1	Waiting
Next Retry On:		
ID:10.120.84.223c39a163965ae1b60:8	AFsHxVejMddVg7vOJirZqCgb_7K1	Waiting
Next Retry On:		
ID:10.120.84.223c39a163965ae1b60:7	AFsHxVejMddVg7vOJirZqCgb_7K1	Waiting
Next Retry On:		
ID:10.120.84.223c39a163965ae1b60:6	AFsHxVejMddVg7vOJirZqCgb_7K1	Waiting
Next Retry On:		
ID:10.120.84.223c39a163965ae1b60:5	AFsHxVejMddVg7vOJirZqCgb_7K1	Waiting
Next Retry On:		
ID:10.120.84.223c39a163965ae1b60:4	AFsHxVejMddVg7vOJirZqCgb_7K1	Waiting
Next Retry On:		
ID:10.120.84.223c39a163965ae1b60:3	AFsHxVejMddVg7vOJirZqCgb_7K1	Waiting

12) Your integration flow should look like this.



Deploy Integration Project on tenant:	Follow this step to deploy Integration Project on tenant.																																																																													
13) Press Deploy in the Integration Flow Task Bar.																																																																														
14) You will receive a confirmation. Click on Yes . Once the deployment is completed successfully you will receive a 2 nd notification.																																																																														
15) Verify if the deployment is successful: In the first level Menu Bar switch to Section Monitor and then click on All in Manage Integration Content . You should see an entry with your integration flow. Check the 'status'. It should be in status Started .																																																																														
Execute end to end scenario:	Follow steps to execute end to end scenario.																																																																													
16) As and when iFlow is Started, it will start execution. Now go to the Operations View → Message Stores → Message Queues → SuccessQueue_XX . We have deployed wrong SFTP credentials. So, after successive failure in sending messages you can see 10 entries with status Failed in the JMS Queue for each student record.	 <table><thead><tr><th>JMS Message ID</th><th>Message ID</th><th>Status</th><th>Due At</th><th>Created At</th><th>Retain Until</th><th>Retry Count</th></tr></thead><tbody><tr><td>ID: 10.78.17.17582c8161d089c9110.6173</td><td>AFqgy_70x_a0DHC8RzfeYb_z6DH0</td><td>Failed</td><td>Mar 10, 2018, 11:07:02</td><td>Mar 08, 2018, 11:07:02</td><td>Jun 06, 2018, 11:07:01</td><td>3</td></tr><tr><td>ID: 10.78.17.17582c8161d089c9110.6172</td><td>AFqgy_6Y_OxQuG0KLe8kNiovg5</td><td>Failed</td><td>Mar 10, 2018, 11:07:02</td><td>Mar 08, 2018, 11:07:02</td><td>Jun 06, 2018, 11:07:01</td><td>3</td></tr><tr><td>ID: 10.78.17.17582c8161d089c9110.6171</td><td>AFqgy_1G_X835QpDNVNFGr8GrZz4</td><td>Failed</td><td>Mar 10, 2018, 11:07:01</td><td>Mar 08, 2018, 11:07:01</td><td>Jun 06, 2018, 11:07:01</td><td>3</td></tr><tr><td>ID: 10.78.17.17582c8161d089c9110.6170</td><td>AFqgy_1ShwH6R9GhyG1RnnEntU4oX</td><td>Failed</td><td>Mar 10, 2018, 11:07:01</td><td>Mar 08, 2018, 11:07:01</td><td>Jun 06, 2018, 11:07:01</td><td>3</td></tr><tr><td>ID: 10.78.17.17582c8161d089c9110.6169</td><td>AFqgy_yn6s3dlLWPKGhwGhmlL22</td><td>Failed</td><td>Mar 10, 2018, 11:07:00</td><td>Mar 08, 2018, 11:07:00</td><td>Jun 06, 2018, 11:07:00</td><td>3</td></tr><tr><td>ID: 10.78.17.17582c8161d089c9110.6168</td><td>AFqgy_w8VopxV-obWnZZZyaeKLqY</td><td>Failed</td><td>Mar 10, 2018, 11:07:00</td><td>Mar 08, 2018, 11:07:00</td><td>Jun 06, 2018, 11:07:00</td><td>3</td></tr><tr><td>ID: 10.78.17.17582c8161d089c9110.6167</td><td>AFqgy_wSps3XvqgSrQ2lyjZTpB</td><td>Failed</td><td>Mar 10, 2018, 11:07:00</td><td>Mar 08, 2018, 11:07:00</td><td>Jun 06, 2018, 11:07:00</td><td>3</td></tr><tr><td>ID: 10.78.17.17582c8161d089c9110.6166</td><td>AFqgy_zsVZQZYHtptds8YA1aqbE</td><td>Failed</td><td>Mar 10, 2018, 11:07:00</td><td>Mar 08, 2018, 11:07:00</td><td>Jun 06, 2018, 11:07:00</td><td>3</td></tr><tr><td>ID: 10.78.17.17582c8161d089c9110.6165</td><td>AFqgy_wNQ4NPbkxrb7K3HBnf9ci</td><td>Failed</td><td>Mar 10, 2018, 11:07:00</td><td>Mar 08, 2018, 11:07:00</td><td>Jun 06, 2018, 11:07:00</td><td>3</td></tr><tr><td>ID: 10.78.17.17582c8161d089c9110.6164</td><td>AFqgy_xyeUTS-JOAU4GKxoWwRpr</td><td>Failed</td><td>Mar 10, 2018, 11:07:00</td><td>Mar 08, 2018, 11:07:00</td><td>Jun 06, 2018, 11:07:00</td><td>3</td></tr></tbody></table>	JMS Message ID	Message ID	Status	Due At	Created At	Retain Until	Retry Count	ID: 10.78.17.17582c8161d089c9110.6173	AFqgy_70x_a0DHC8RzfeYb_z6DH0	Failed	Mar 10, 2018, 11:07:02	Mar 08, 2018, 11:07:02	Jun 06, 2018, 11:07:01	3	ID: 10.78.17.17582c8161d089c9110.6172	AFqgy_6Y_OxQuG0KLe8kNiovg5	Failed	Mar 10, 2018, 11:07:02	Mar 08, 2018, 11:07:02	Jun 06, 2018, 11:07:01	3	ID: 10.78.17.17582c8161d089c9110.6171	AFqgy_1G_X835QpDNVNFGr8GrZz4	Failed	Mar 10, 2018, 11:07:01	Mar 08, 2018, 11:07:01	Jun 06, 2018, 11:07:01	3	ID: 10.78.17.17582c8161d089c9110.6170	AFqgy_1ShwH6R9GhyG1RnnEntU4oX	Failed	Mar 10, 2018, 11:07:01	Mar 08, 2018, 11:07:01	Jun 06, 2018, 11:07:01	3	ID: 10.78.17.17582c8161d089c9110.6169	AFqgy_yn6s3dlLWPKGhwGhmlL22	Failed	Mar 10, 2018, 11:07:00	Mar 08, 2018, 11:07:00	Jun 06, 2018, 11:07:00	3	ID: 10.78.17.17582c8161d089c9110.6168	AFqgy_w8VopxV-obWnZZZyaeKLqY	Failed	Mar 10, 2018, 11:07:00	Mar 08, 2018, 11:07:00	Jun 06, 2018, 11:07:00	3	ID: 10.78.17.17582c8161d089c9110.6167	AFqgy_wSps3XvqgSrQ2lyjZTpB	Failed	Mar 10, 2018, 11:07:00	Mar 08, 2018, 11:07:00	Jun 06, 2018, 11:07:00	3	ID: 10.78.17.17582c8161d089c9110.6166	AFqgy_zsVZQZYHtptds8YA1aqbE	Failed	Mar 10, 2018, 11:07:00	Mar 08, 2018, 11:07:00	Jun 06, 2018, 11:07:00	3	ID: 10.78.17.17582c8161d089c9110.6165	AFqgy_wNQ4NPbkxrb7K3HBnf9ci	Failed	Mar 10, 2018, 11:07:00	Mar 08, 2018, 11:07:00	Jun 06, 2018, 11:07:00	3	ID: 10.78.17.17582c8161d089c9110.6164	AFqgy_xyeUTS-JOAU4GKxoWwRpr	Failed	Mar 10, 2018, 11:07:00	Mar 08, 2018, 11:07:00	Jun 06, 2018, 11:07:00	3
JMS Message ID	Message ID	Status	Due At	Created At	Retain Until	Retry Count																																																																								
ID: 10.78.17.17582c8161d089c9110.6173	AFqgy_70x_a0DHC8RzfeYb_z6DH0	Failed	Mar 10, 2018, 11:07:02	Mar 08, 2018, 11:07:02	Jun 06, 2018, 11:07:01	3																																																																								
ID: 10.78.17.17582c8161d089c9110.6172	AFqgy_6Y_OxQuG0KLe8kNiovg5	Failed	Mar 10, 2018, 11:07:02	Mar 08, 2018, 11:07:02	Jun 06, 2018, 11:07:01	3																																																																								
ID: 10.78.17.17582c8161d089c9110.6171	AFqgy_1G_X835QpDNVNFGr8GrZz4	Failed	Mar 10, 2018, 11:07:01	Mar 08, 2018, 11:07:01	Jun 06, 2018, 11:07:01	3																																																																								
ID: 10.78.17.17582c8161d089c9110.6170	AFqgy_1ShwH6R9GhyG1RnnEntU4oX	Failed	Mar 10, 2018, 11:07:01	Mar 08, 2018, 11:07:01	Jun 06, 2018, 11:07:01	3																																																																								
ID: 10.78.17.17582c8161d089c9110.6169	AFqgy_yn6s3dlLWPKGhwGhmlL22	Failed	Mar 10, 2018, 11:07:00	Mar 08, 2018, 11:07:00	Jun 06, 2018, 11:07:00	3																																																																								
ID: 10.78.17.17582c8161d089c9110.6168	AFqgy_w8VopxV-obWnZZZyaeKLqY	Failed	Mar 10, 2018, 11:07:00	Mar 08, 2018, 11:07:00	Jun 06, 2018, 11:07:00	3																																																																								
ID: 10.78.17.17582c8161d089c9110.6167	AFqgy_wSps3XvqgSrQ2lyjZTpB	Failed	Mar 10, 2018, 11:07:00	Mar 08, 2018, 11:07:00	Jun 06, 2018, 11:07:00	3																																																																								
ID: 10.78.17.17582c8161d089c9110.6166	AFqgy_zsVZQZYHtptds8YA1aqbE	Failed	Mar 10, 2018, 11:07:00	Mar 08, 2018, 11:07:00	Jun 06, 2018, 11:07:00	3																																																																								
ID: 10.78.17.17582c8161d089c9110.6165	AFqgy_wNQ4NPbkxrb7K3HBnf9ci	Failed	Mar 10, 2018, 11:07:00	Mar 08, 2018, 11:07:00	Jun 06, 2018, 11:07:00	3																																																																								
ID: 10.78.17.17582c8161d089c9110.6164	AFqgy_xyeUTS-JOAU4GKxoWwRpr	Failed	Mar 10, 2018, 11:07:00	Mar 08, 2018, 11:07:00	Jun 06, 2018, 11:07:00	3																																																																								

17) Re-deploy the proper SFTP credentials.

This step will be performed by instructor

Edit User Credentials

*Name:

Description:

*User:

Password:

Repeat Password:

☐ SuccessFactors

[Deploy](#) [Cancel](#)

18) Navigate to the integration flow by **Operations View → Manage Integration Content → Exercise08b_XX**

Click on **Restart** scenario

Exercise08b_00 [Restart](#) [Undeploy](#) [Download](#)

Deployed On: May 31, 2018, 15:57:30 ID: Exercise08b_00
Deployed By: P000013 Version: 1.0.0

[Endpoints](#) [Status Details](#) [Artifact Details](#) [Log Configuration](#)

19) Now go to the **Operations View → Message Stores → Message Queues → SuccessQueue_XX**.

Retry all the messages in JMS queue one by one

You can see all the records getting deleted and moved to SFTP destination system.

Messages (10) [Filter by Message ID](#) [Q](#) [Retry](#) [Delete](#)

JMS Message ID	Message ID	Status	Due At	Created At	Ret
ID: 10.78.17.17582c8161d089c91f0.6213	AFqgy_79x_aoDHC8RzeYb_z6DH0	Failed	Mar 10, 2018, 11:07:02	Mar 08, 2018, 11:07:02	Jun (11:0)
ID: 10.78.17.17582c8161d089c91f0.6212	AFqgy_6Y_OxQuG0KLe8KnioxgT3	Failed	Mar 10, 2018, 11:07:02	Mar 08, 2018, 11:07:02	Jun (11:0)
ID: 10.78.17.17582c8161d089c91f0.6211	AFqgy_1G_X835QpDNNVFG8GrZz4	Failed	Mar 10, 2018, 11:07:01	Mar 08, 2018, 11:07:01	Jun (11:0)
ID: 10.78.17.17582c8161d089c91f0.6210	AFqgy_1ShlvH9RGhyG1RnnEnU4oX	Failed	Mar 10, 2018, 11:07:01	Mar 08, 2018, 11:07:01	Jun (11:0)

20) Deployed **Exercise08b_XX** integration flow message processing status should be **Completed** and you can see the logs

Messages (9) [<<](#) [<](#) [1](#) [1](#) [>](#) [>>](#) [G](#)

Artifact Name	Status
Exercise08b_00	Completed
May 31, 2018, 16:03:47	34 min 44 sec
Exercise08b_00	Completed
May 31, 2018, 16:02:29	36 min 12 sec
Exercise08b_00	Completed
May 31, 2018, 15:59:28	36 min 15 sec
Exercise08b_00	Completed
May 31, 2018, 15:56:15	34 min 43 sec
Exercise08b_00	Completed
May 31, 2018, 15:53:23	32 min 44 sec

Exercise08b_00 Last Updated at: May 31, 2018, 16:03:47

[Status](#) [Properties](#) [Logs](#) [Open Test View](#)

Runs (15)

#	Started At	Duration	Log Level	Process ID	Status
16	May 25, 2018, 16:06:52	279 ms	Info	1bd88a3	Completed
14	May 25, 2018, 15:50:40	14 ms	Info	73e58eb	Retry
13	May 25, 2018, 15:49:52	7 sec 525 ms	Info	73e58eb	Retry
12	May 25, 2018, 15:41:40	24 ms	Info	1bd88a3	Retry
11	May 25, 2018, 15:41:33	7 sec 623 ms	Info	73e58eb	Retry
10	May 25, 2018, 15:41:25	8 sec 187 ms	Info	1bd88a3	Retry
9	May 25, 2018, 15:37:08	7 ms	Info	73e58eb	Retry