



#### ORACLE INTEGRATED CLOUD SOLUTION ON-PREM TO CLOUD

Candid Source 2019 | Oracle Cloud Partner

### Scope/Requirement



Move Files from Onpremise (SQL Server) to Cloud System

Files are stored in SQL
Server image/pdf format



□.pdf / image file format will be picked from on premise to Cloud This will be achieved using Oracle Integrated **Cloud Service** 

#### **Proposed Solution**



It can be achieved using Oracle Integrated Cloud Service (OIC)  OIC allows us to achieve this using below

- Create a MS SQL Server
   Adapter connection
- Create a Rest Adapter
   Connection
- Map the data using integration

#### Prerequisite



You must satisfy the following prerequisites to create a connection with the Microsoft SQL Server Adapter:

□ Ensure that you have write permissions on the database.

- Ensure that you have the required permissions to run stored procedures and packages and SQL statements against the SQL Server.
- □ Know the database hostname or IP address and the port number.
- □ Know the database or instance name.
- □ Know the username and password for connecting to the database.
- □ Know the agent group to associate with the Oracle SQL Server Cloud adapter.
- □ You select the agent group during connection configuration in Configuring an agent Group.

Microsoft SQLServer (18.4.3.1)



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**MSSQL Server Connection Setup** 

1	D New Con	nection - Information	
intais, n	* Connection Name * Westfler	Enter information that describes the connection. Use a meaningful name and description find your connection when they create their own integrations. The lawrither must be uno act only when the connection is created. OnPhemiseeri-RDB ONPHEMISEEHIEDB	ja nacometer (10). Ta
T for primer	Description	Contraction to on premises HR achema	

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# Setup Connection Continuation **MSSQL Server**

#### **Connection Properties**

Enter information so we can connect to your application/endpoint and process requests.

Property Name	Property Value	
Host	127.0.0.1	
Port	1521	
SID	orci	
Service Name	orcl.oracie.com	

OK Cancel

#### Credentials

You can configure the Security Policy for this connection. Please select the Security Policy.

Security Policy Username Password Token

Your application/endpoint requires that users and services provide security credentials for access. Specify the login credentials below.

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Property Name	Property Value
Username	hr
Password	
Confirm Password	

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#### Select an agent group. Available agent groups are listed below. Connection Agent Group CONNECTION\_AGENT\_GROUP 6 Available Execution Agent Group EXECUTION AGENT GROUP 6 Available Use Cancel robert van moken. ORACLE' Integration Cloud Service Onnection "OnPremisesHRDB" was saved successfully. Save CExit Connection Delete OnPren HRDB

Select an Agent group



Create Connection - Select	Adapter	9
All	REST	Q X
Click "Select" for the type of connection to crea	te.	=
Select		

**Connection Properties** 



Property Name	Property Value	
* Connection Type	< Please select an item from the list >	
TLS Version	< Please select an item from the list >	
* Connection URL	Please make sure that this value really corresponds to the type selected above.	
thable two way SSL for outbound connect	< Please select an item from the list >	
Identity keystore alias name (Optional)	Name of allas to use for establishing identity during two way SBL communication	



Add the source and target connection to the flow and do the necessary mappings between source and target.

	Source	Find	Q,	A Mappings	Target	Find	Q. Mapping	
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Basic Routing	# C> *NO	vest-wrapper			0 40	atachmenta		
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		<> "content	0	Drag and drop source to		# <> *attachmentProperties		
$\bigcirc$ $\bigcirc$		O 104		target to create a mapping		<> *contentid		
	source or target	<>> "notebook		CROK a checkmark on	1	<> *contentType	"Image/prig	
Basic App to App Routing with Data		mappings.	N N	<> *transferEncoding				
Mapping.		<> "latitude		8	~ hr	<> *partName	"picture.pm	
		<> "longitude			0	<> "contentDisposition" <>		
	Oper 8	abuOger (5				<> *contentDescription		
		TagNames					CharacterSet	
	<li>O Stracking</li>	_var_1			1	C> *Neinput-ItmFieldName	"жпаде"	
Select	elect <> Stacking_var_2		. 40	*ParameterList				
	<> Stracking	_var_3			0 4	To parameter	guid	
					4	sss name	767	

#### Additional Possible Solution



It can be achieved using Oracle Integrated Cloud Service (OIC) OIC also allows us to achieve this using two other ways
 Using File Adapter
 Using FTP Adapter



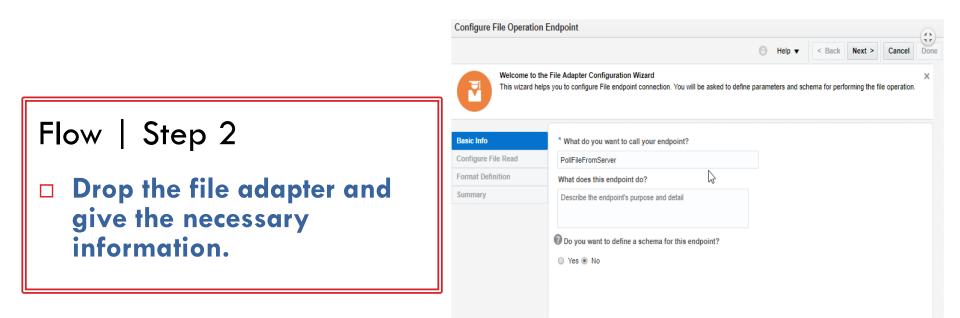
#### Significance of File vs FTP adapter

This table gives you more details about the significance of using File and FTP adapter for our requirement

S. No.	File Adapter	FTP Adapter
1	File can be processed from the server where the connectivity agent is installed	File can be processed from any SFTP server which is publicly accessible
2	The adapter can be used to connect to the server which is having the network restrictions	The adapter cannot be used to connect to FTP and SFTP servers behind company firewalls
3	File adapter is supported for both trigger and invoke connections	FTP Adapter is only supported as an invoke connection
4	Following operations are supported: Read File Write File	Following operations are supported: Read File Write File List File Delete File Move File Download File
5	Doesn't allow to create encrypted file	Allows developer to create encrypted file using <b>Pretty Good Privacy (PGP)</b> cryptography
6	Doesn't allow to decrypt the files	Allow developer to decrypt a file that is being read or downloaded from a remote FTP / SFTP server using Pretty Good Privacy (PGP) cryptography

### Approach A | File Adapter





# Approach A | File Adapter



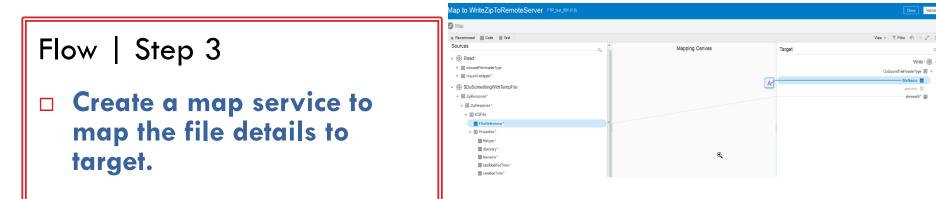
#### **Configure File Operation Endpoint** AL 3.0) Help V < Back Next > Cancel Done Configure the File Operation Parameters for the Source Endpoint X Define the parameters for File Read operation. Basic Info Specify the following parameters for the File Read operation **Configure File Read** Specify an Input Directory /home/PollDir Format Definition Specify a File Name Pattern \*\* Summary Specify how the processing of operation is handled. \* Maximum Files 25 \* Polling Frequency 60 seconds \* Processing Delay 5 seconds Delete Files After Successful Reading

#### Flow | Step 3

Drop the file adapter and give the necessary information [continuation]



### Approach A | File Adapter

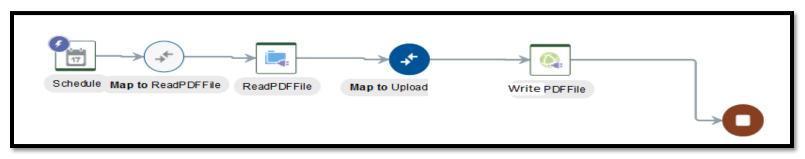


Flow | Step 4 **Create a target file service to write a file.** 

### Approach B | FTP Based



- FTP folder is accessible over internet
- We must follow the similar approach as same as File adapter, but it will be giving additional benefits provided in the above table.



A sample flow will look like this



#### Questions



