



TGH

Making Integrations Simpler



Connect with FTP and Read File from FTP in OIC

Author

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Connect with FTP and read files from FTP in OIC

- **What is FTP?**

➔ FTP stands for *File Transfer Protocol*.

FTP (File Transfer Protocol) is a network protocol for transmitting files between computers over Transmission Control Protocol/Internet Protocol (TCP/IP) connections. Within the TCP/IP suite, FTP is considered an application layer protocol.

The end user's computer is typically called the local host in an FTP transaction. The second computer involved in FTP is a remote host, which is usually a server. Both computers must be connected via a network and configured properly to transfer files via FTP. Servers must be set up to run FTP services, and the client must have FTP software installed to access these services.

Although many file transfers can be conducted using Hypertext Transfer Protocol (HTTP) -- another TCP/IP suite protocol -- FTP is still commonly used to transfer files behind the scenes for other applications, such as banking services. It is also sometimes used to download new applications via web browsers.

Before configuring the FTP connector, we need to install the FileZilla application in our system to access the directories.

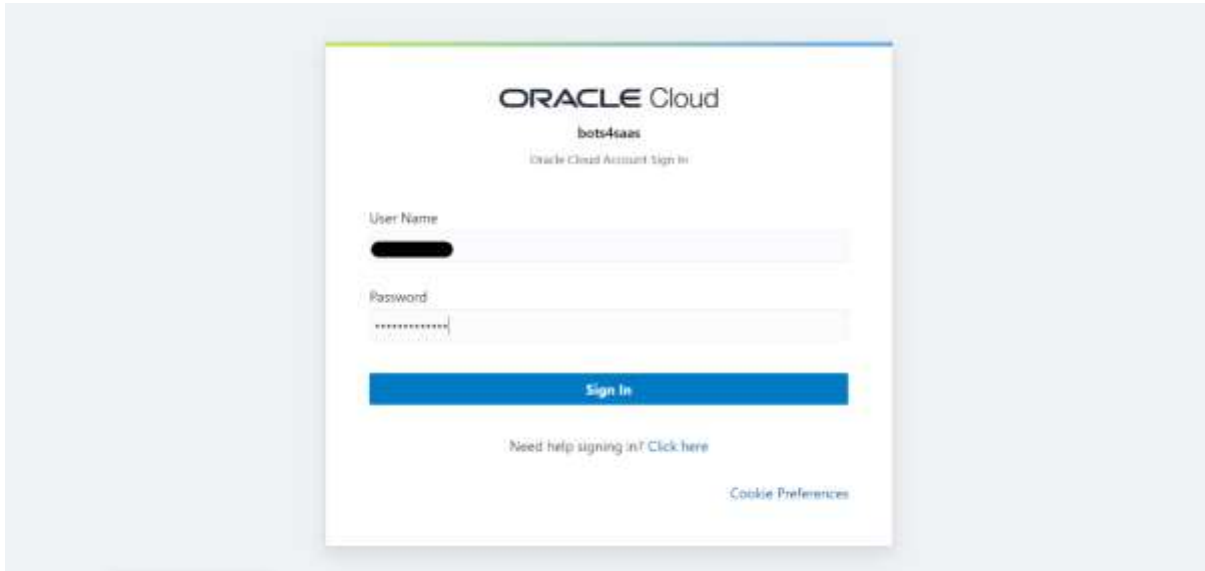
Download link: <https://filezilla-project.org/download.php?platform=win64>

NOTE: That is not mandatory to install FileZilla in your system, if you have the right directory and file name then no need to install that.

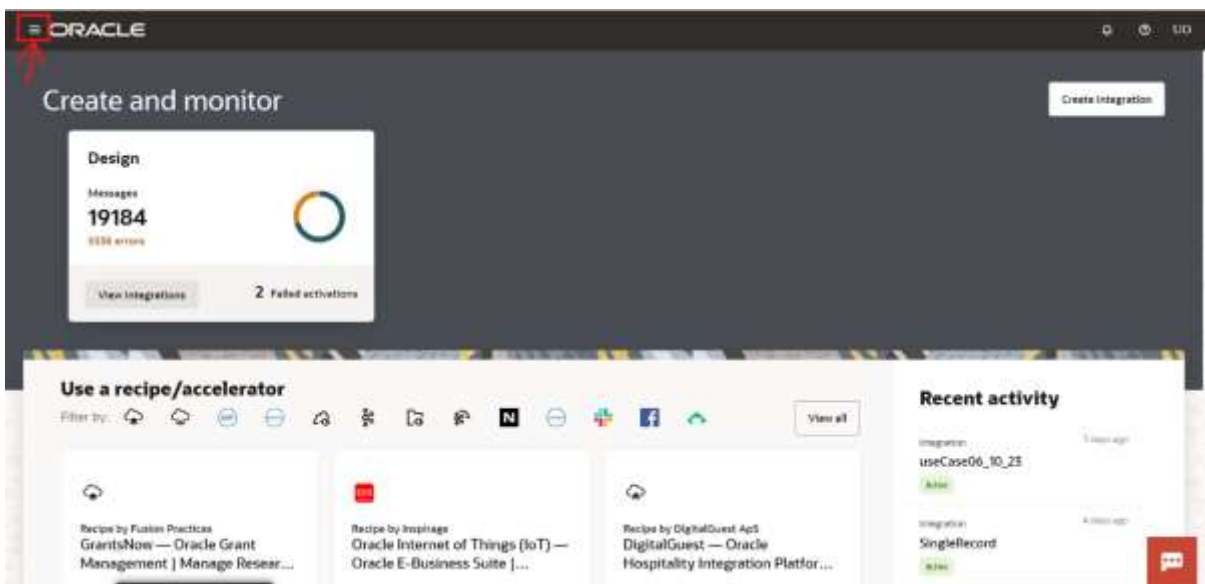
Now go to the **OIC Integration Platform** to start reading the files from FTP

Step 1: Go to the Sign in page

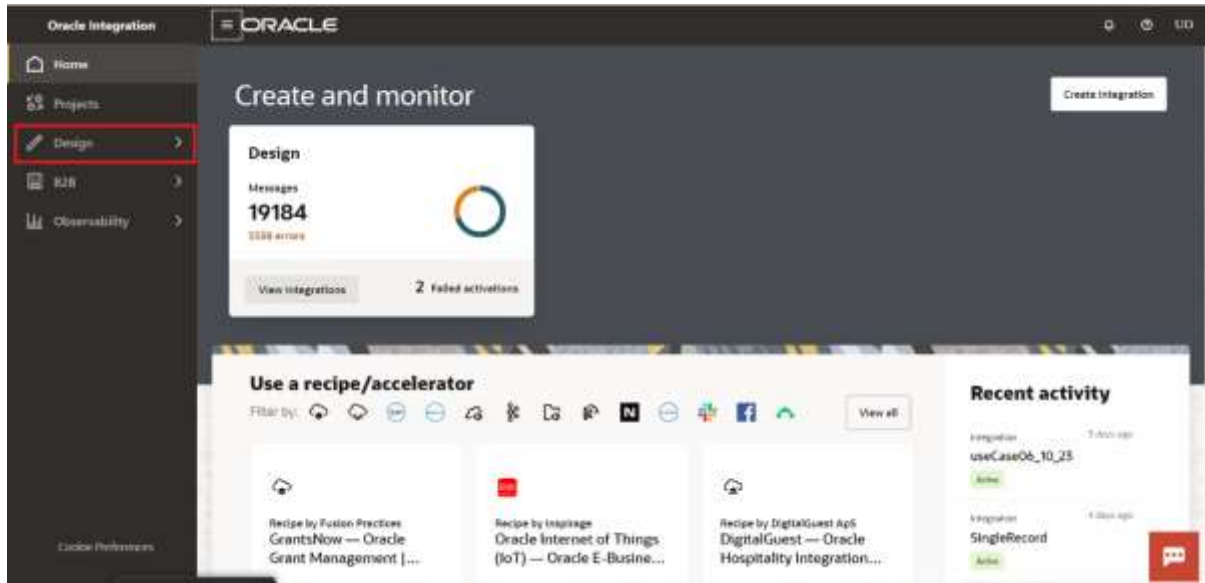
Use Username and Password to log into the OIC Instance



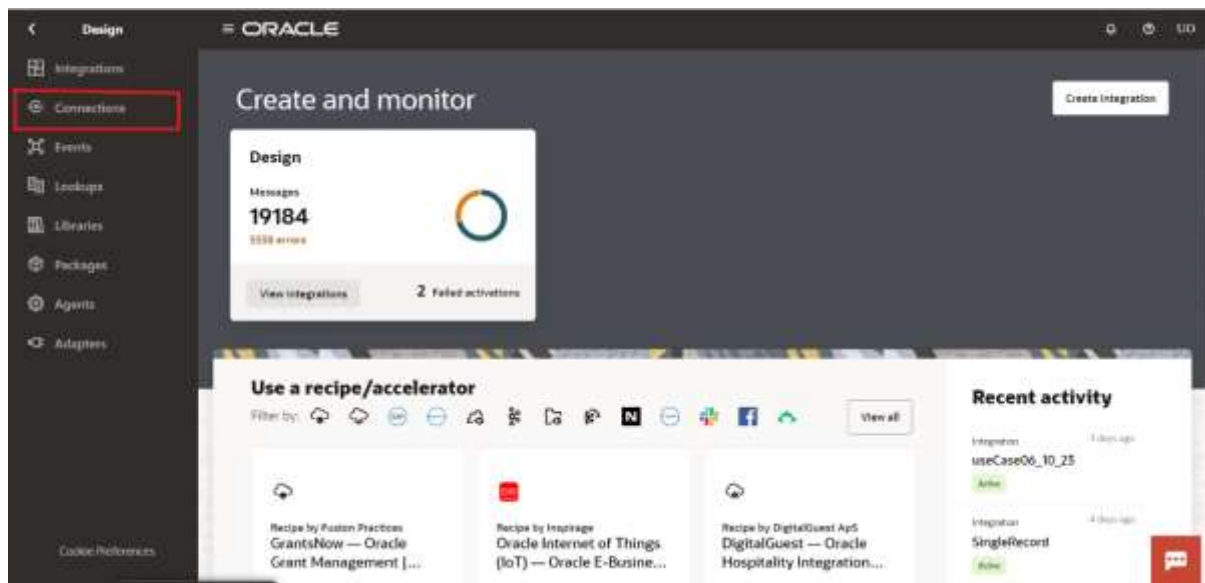
Step 2: Click on the three lines to create a connection



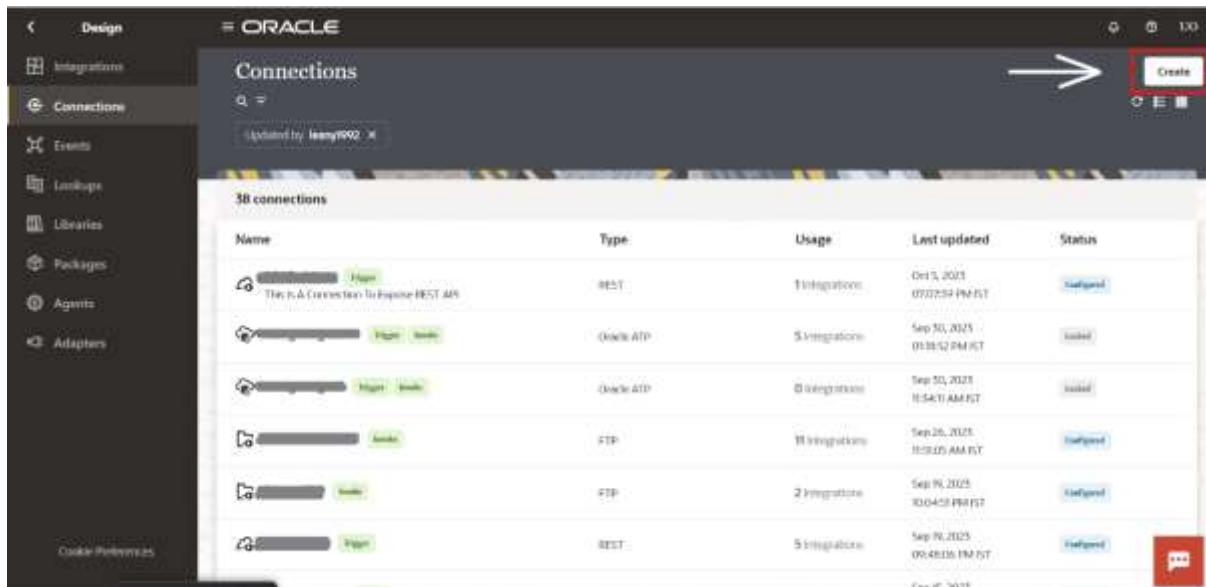
Step 3: Click on the Design tab to create a connection



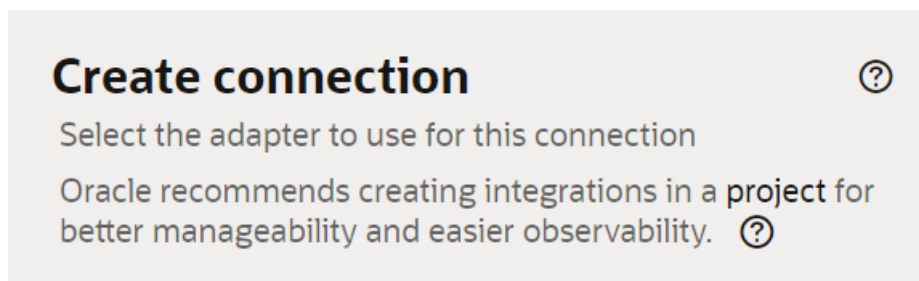
Step 4: Click on the Connections tab to create an FTP Connector



Step 5: Click on the Create button to configure an FTP Connector



Step 6: Search FTP in the search box and select the FTP Adapter



Step 7: Give a suitable name to the FTP Connector and click on the Create

Create connection

FTP adapter

Name
sample_FTP

Identifier
SAMPLE_FTP

Role
Invoke

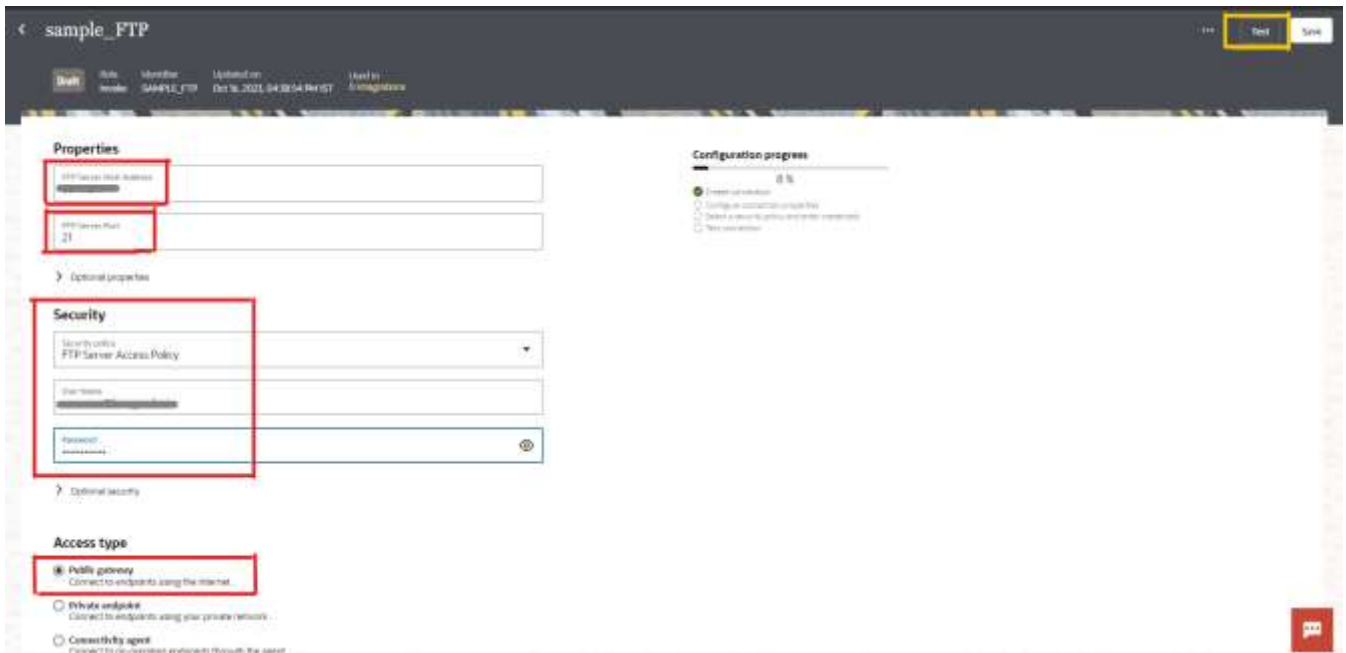
Keywords

Description

< Create

NOTE: Identifier should populate automatically but we can change this and need to give any unique name. And the role should always be Invoke in the FTP adapter.

Step 8: Fill the required credentials and click on Test



Properties

1. Host
2. Port (21/22)

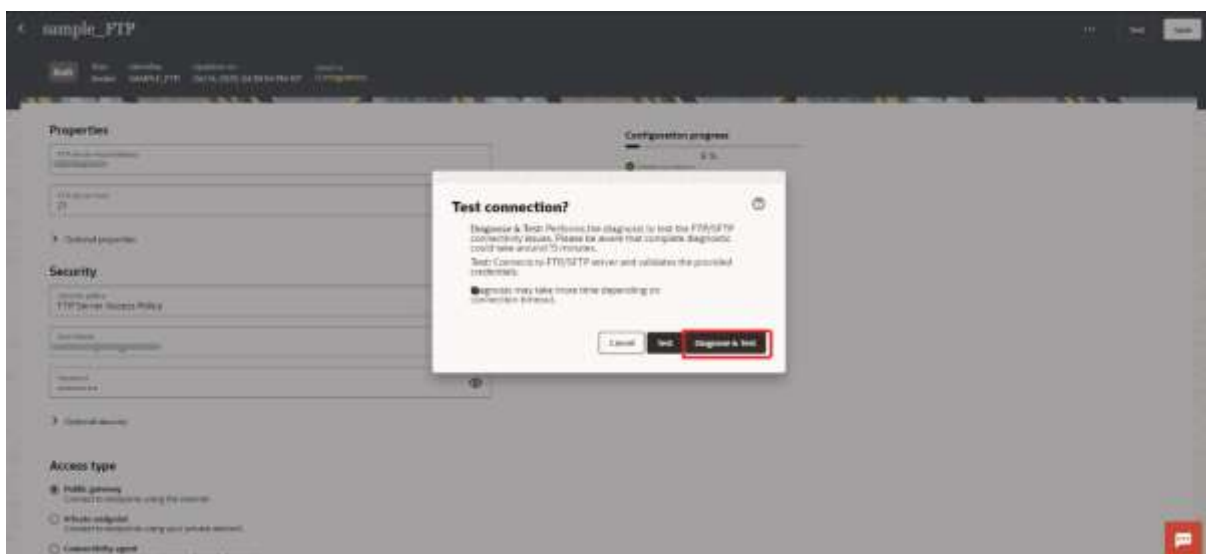
Security

1. Security policy: FTP Server Access Policy
2. User Name
3. Password

Access type

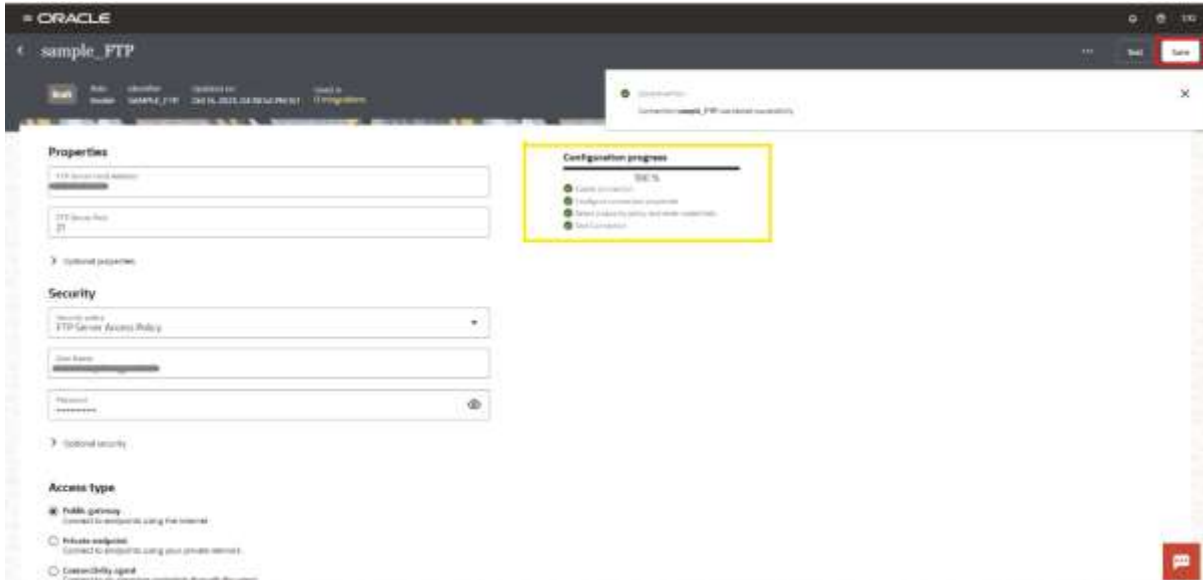
1. Public gateway

Step 9: Click on Diagnose & Test



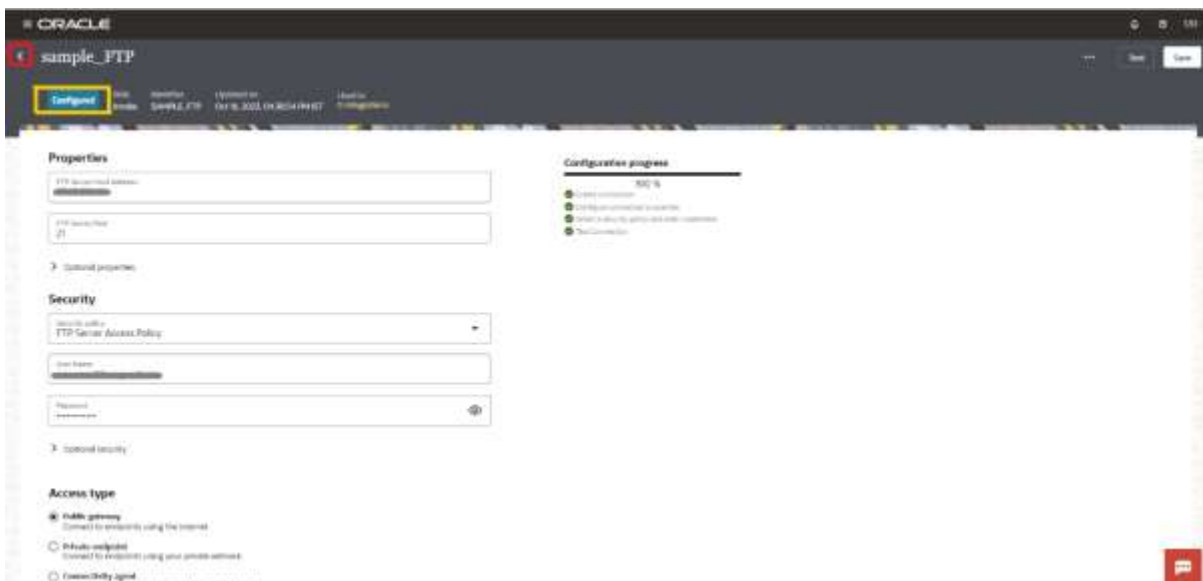
NOTE: The difference between Test and Diagnose & Test is that Test will just test your connection it will not validate the credentials but Diagnose & Test will first validate your all credentials and it will test the connectivity with the actual FTP server.

Step 10: Click the Save button after the successful test



NOTE: If the Configuration progress bar reaches 100% then only you can ensure the successful connectivity with the FTP server.

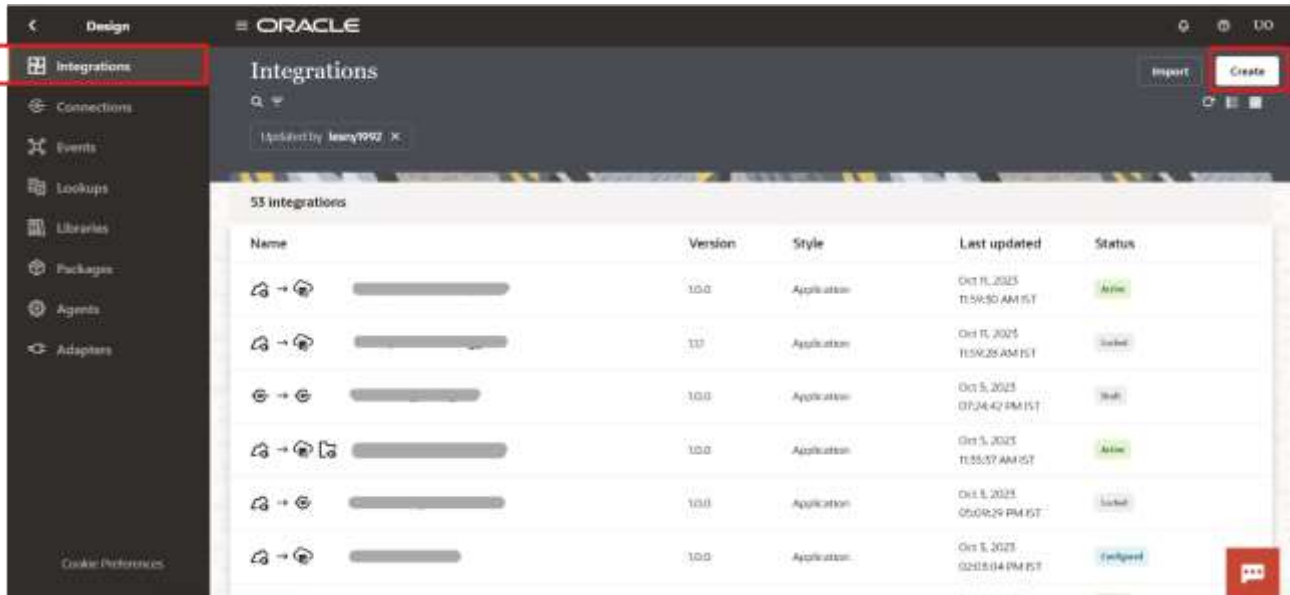
Step 11: Click on the left arrow if that is showing Configured



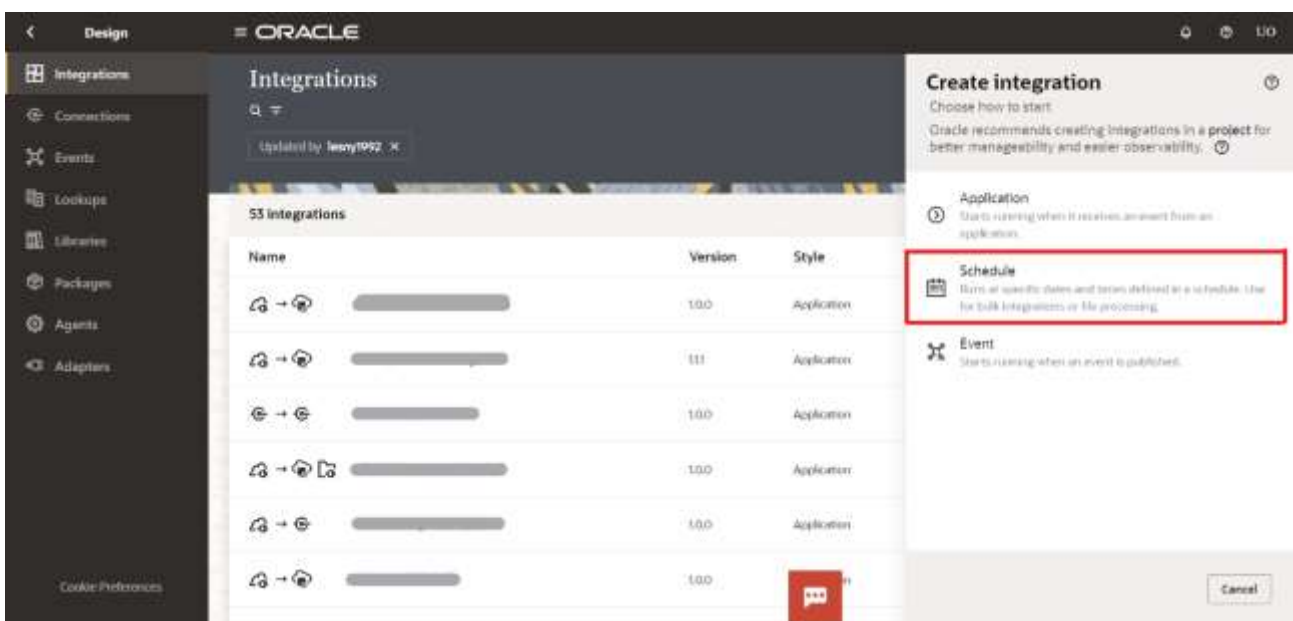
NOTE: Identifier should populate automatically but we can change this and need to give any unique name. And the role should always be Invoke in the FTP adapter.

Connection is established, Now let us start the Integration

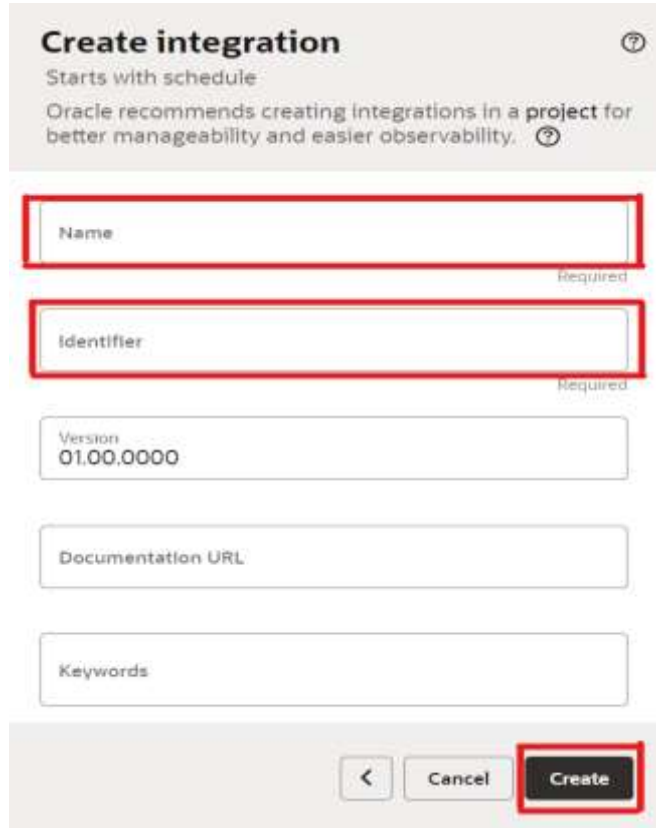
Step 12: Now Click on the Integrations tab and click on the Create button



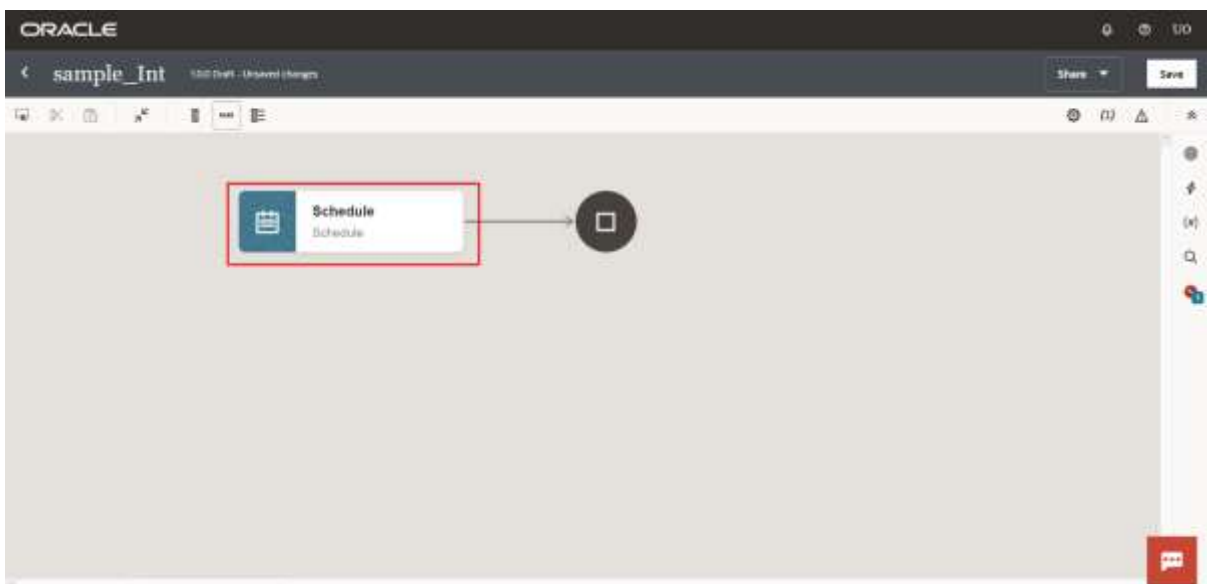
Step 13: Click on the Schedule tab to create a scheduled integration



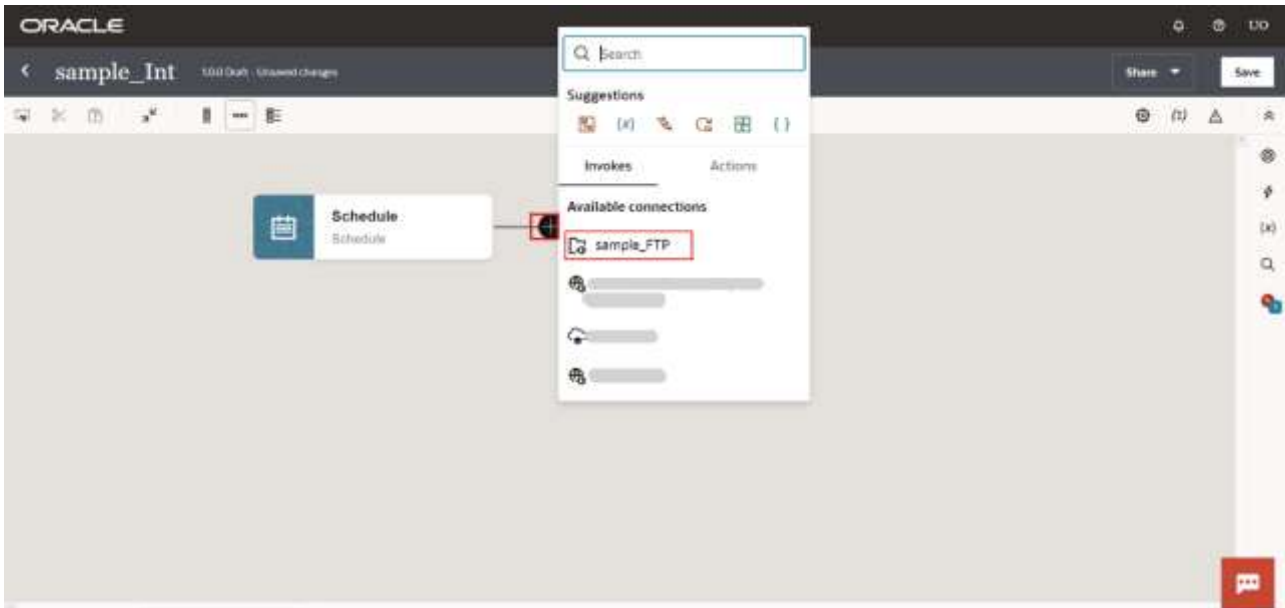
Step 14: In this create integration page give any suitable name and unique Identifier name and click on the create button



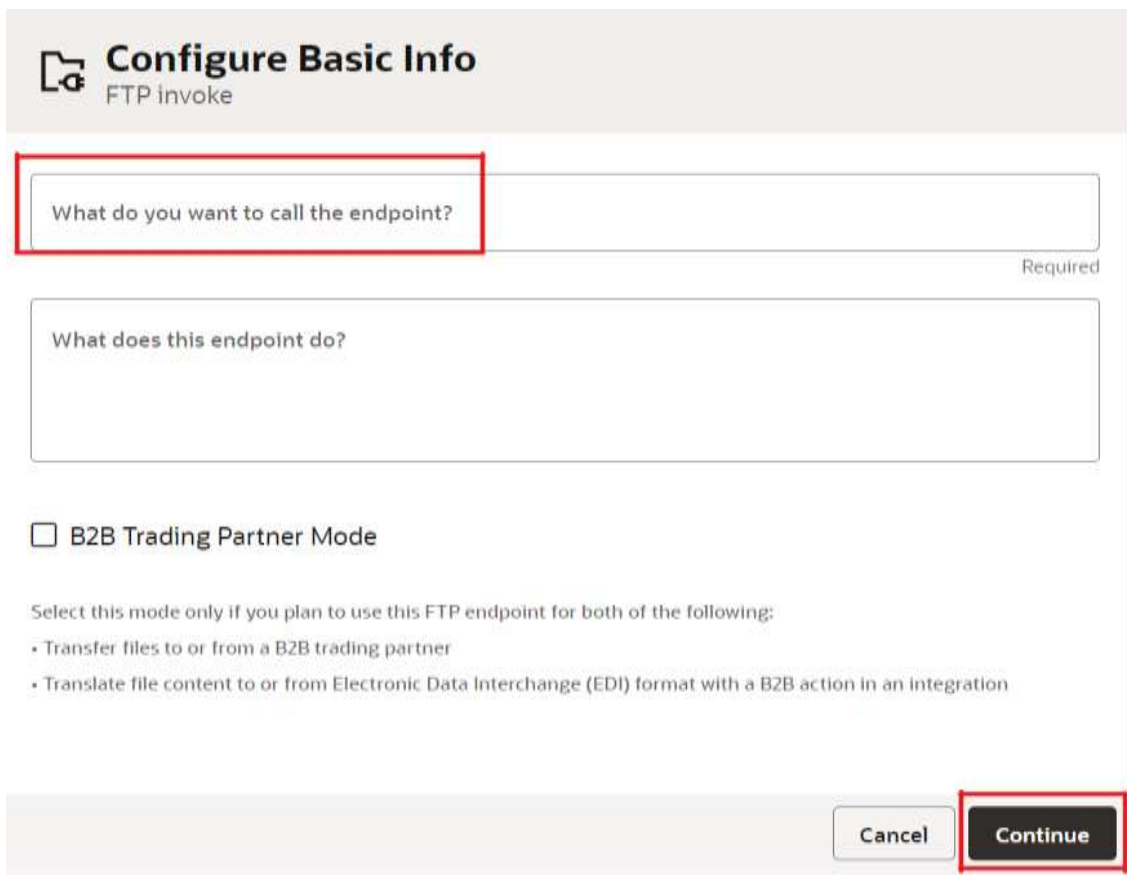
Step 15: After clicking the create button it will jump to the integration canvas



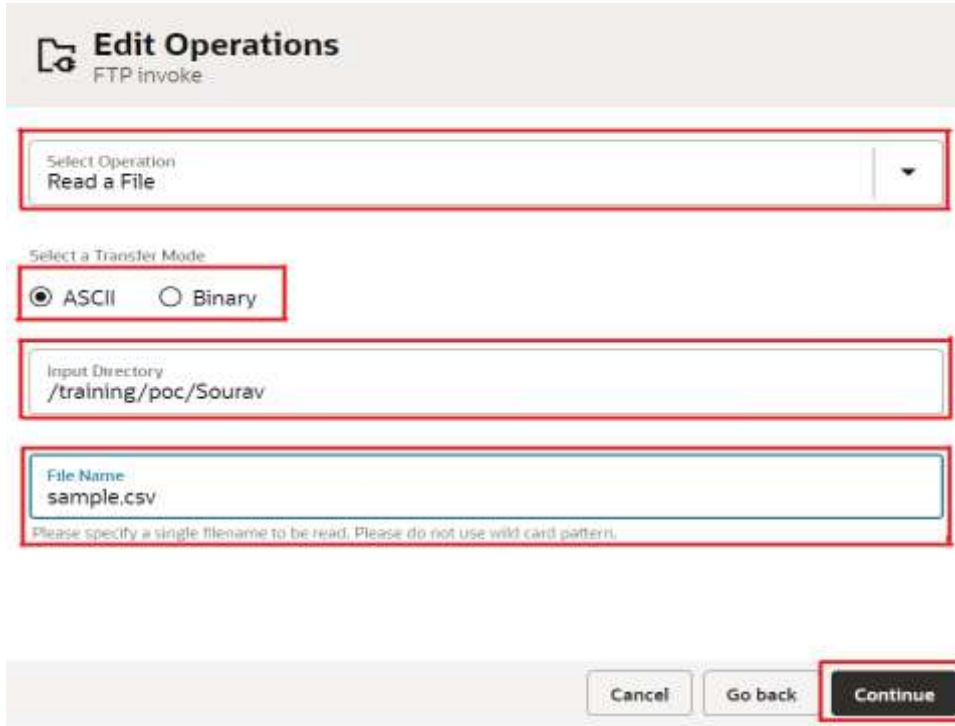
Step 16: Click on the plus icon & search for your FTP connector and select that



Step 17: In this Configure Basic Info page give a suitable action name (e.g., Read_File) that you want to perform and click Continue

A screenshot of the 'Configure Basic Info' page for an 'FTP invoke' action. The page title is 'Configure Basic Info' with a sub-header 'FTP invoke'. There are two text input fields: the first is labeled 'What do you want to call the endpoint?' and is highlighted with a red box; the second is labeled 'What does this endpoint do?'. Below these fields is a checkbox for 'B2B Trading Partner Mode'. A note below the checkbox states: 'Select this mode only if you plan to use this FTP endpoint for both of the following: • Transfer files to or from a B2B trading partner • Translate file content to or from Electronic Data Interchange (EDI) format with a B2B action in an integration'. At the bottom right, there are 'Cancel' and 'Continue' buttons, with the 'Continue' button highlighted by a red box. The 'Required' label is positioned to the right of the first input field.

Step 18: In this Configure Operations page, quickly select the required type of operation (in our case Read File), then select the Transfer Mode as ASCII, then give the Input Directory path, in the File Name field we need to give any specific file name and after that click Continue



Edit Operations
FTP invoke

Select Operation
Read a File

Select a Transfer Mode
 ASCII Binary

Input Directory
/training/poc/Sourav

File Name
sample.csv
Please specify a single filename to be read. Please do not use wild card pattern.

Cancel Go back **Continue**

Step 19: In this Configure Schema page, if we want to define the structure of the file then select Yes or select No, and click Continue

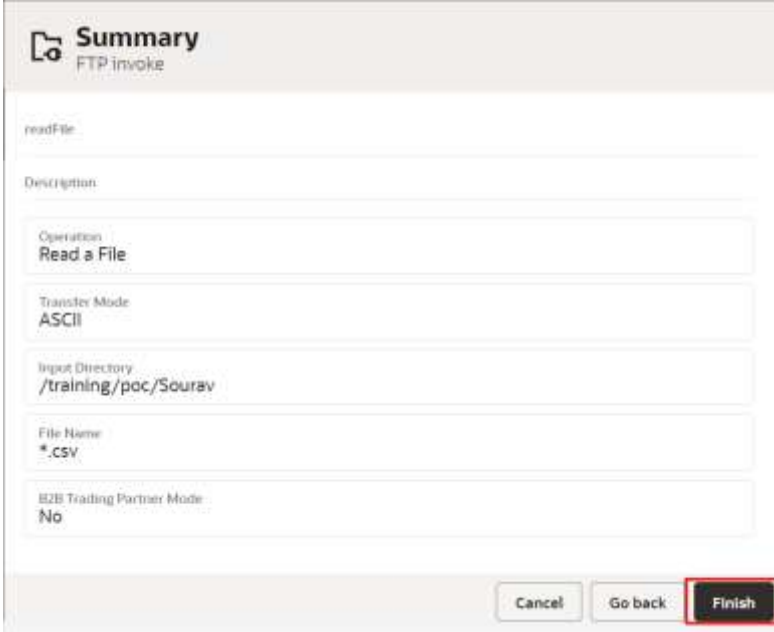


Configure Schema
FTP invoke

Do you want to specify the structure for the contents of the file?
 Yes No

Cancel Go back **Continue**

Step 20: In this Summary page check all the details, if wrong then click Go back and change the details, but if all are good then click Finish

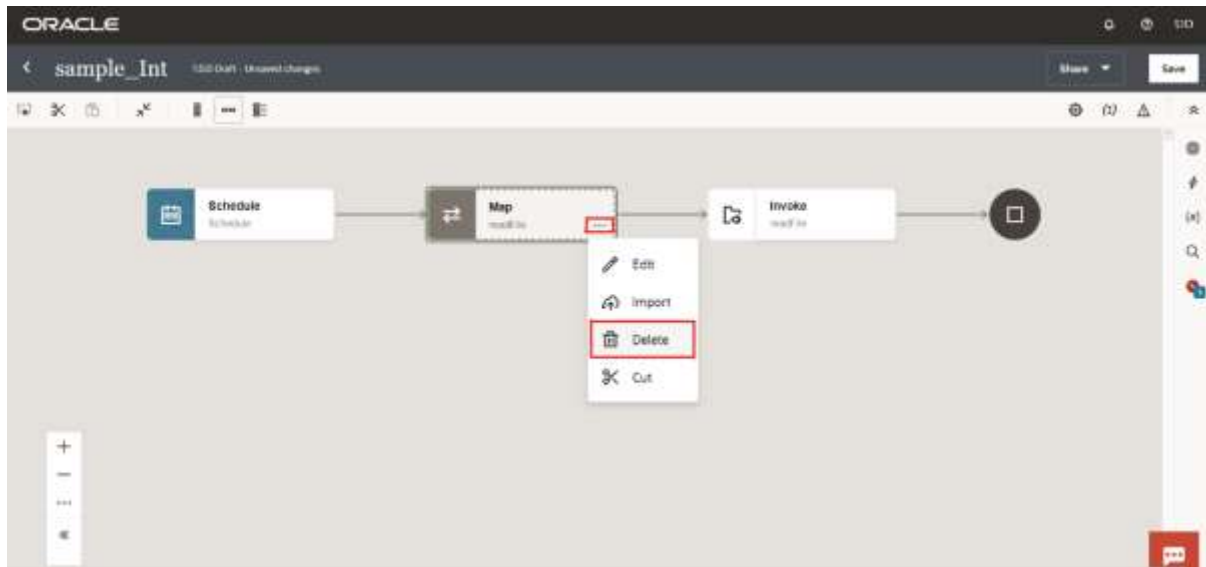


The image shows a 'Summary' page for an 'FTP invoke' connector. The page contains several input fields with the following values: 'readFile', 'Description', 'Operation: Read a File', 'Transfer Mode: ASCII', 'Input Directory: /training/poc/Sourav', 'File Name: *.CSV', and 'B2B Trading Partner Mode: No'. At the bottom right, there are three buttons: 'Cancel', 'Go back', and 'Finish'. The 'Finish' button is highlighted with a red border.

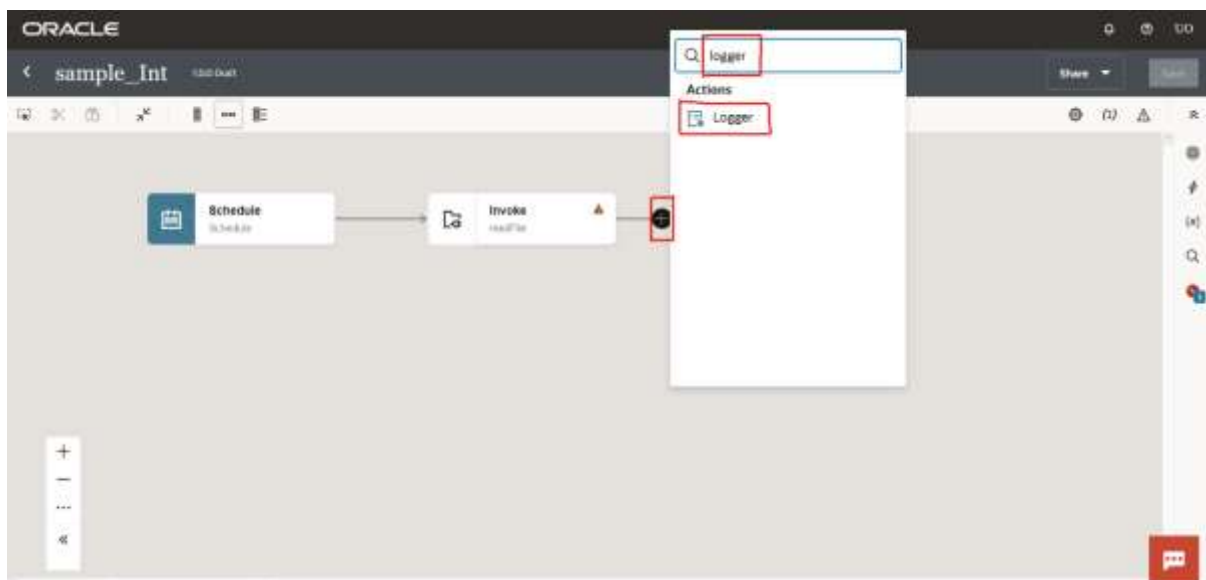
Step 21: After clicking the finish button we will get an FTP connector to invoke type and a Map shape before that, in our case we already give the directory path and file name inside the connector so we don't need that map shape before the FTP connector



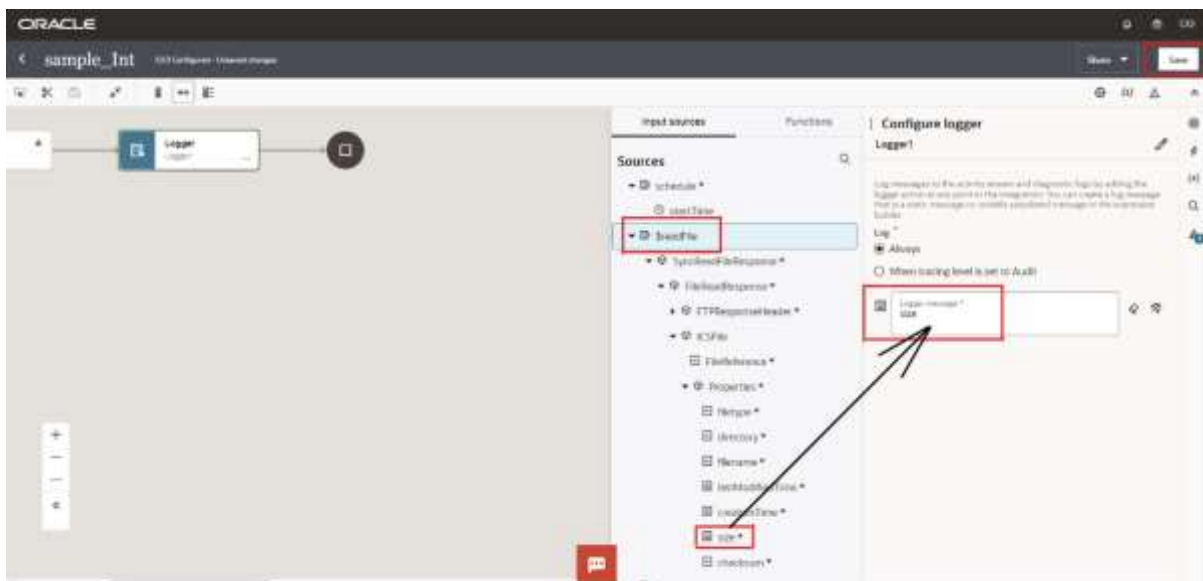
Step 22: After that, we need to click three dots and select the Delete option



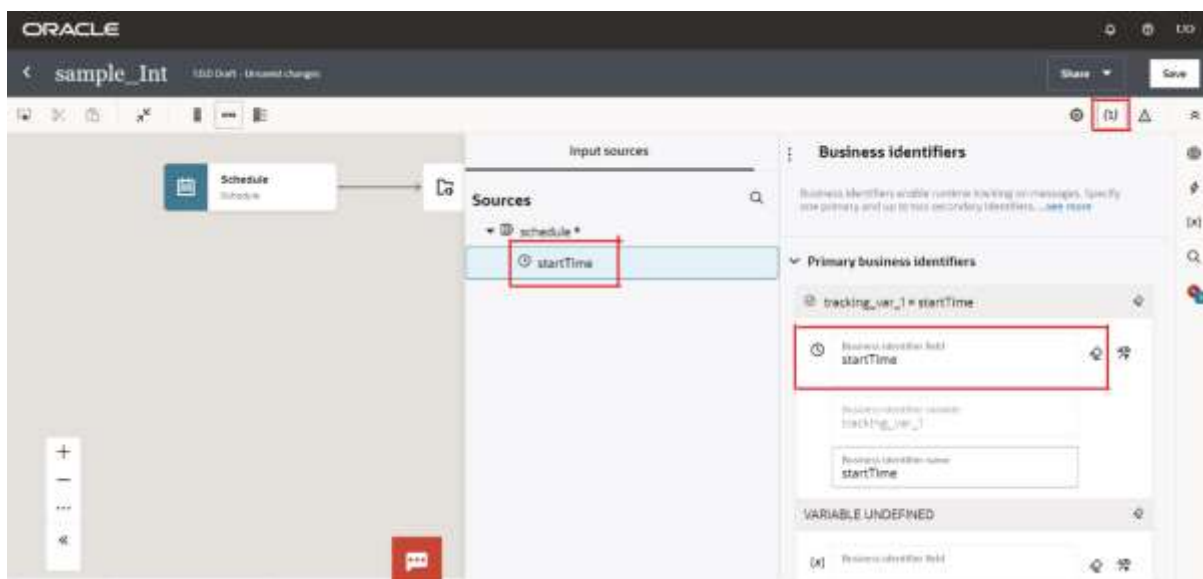
Step 23: After that click that plus icon and search logger and select a Logger shape



Step 24: After adding the logger shape open that shape, open the read file drop-down, find the size attribute inside the Properties drop-down, drag the size attribute because we want to log the file size coming from FTP, and paste it inside the Logger message text field and click on Save (We are not able to see the actual data because we are not given any structure to the response message, so we are not able to map the actual response data coming from the FTP file, we can see the meta-data about the file like filetype, directory, filename, lastModifiedTime, createdTime, size, checksum, etc)



Step 25: Now go to the Business Identifier (I) symbol and click that icon, it will display the Business Identifiers page and we need to drag the startTime attribute from the Sources, paste it inside the Business Identifier field, and click on Save

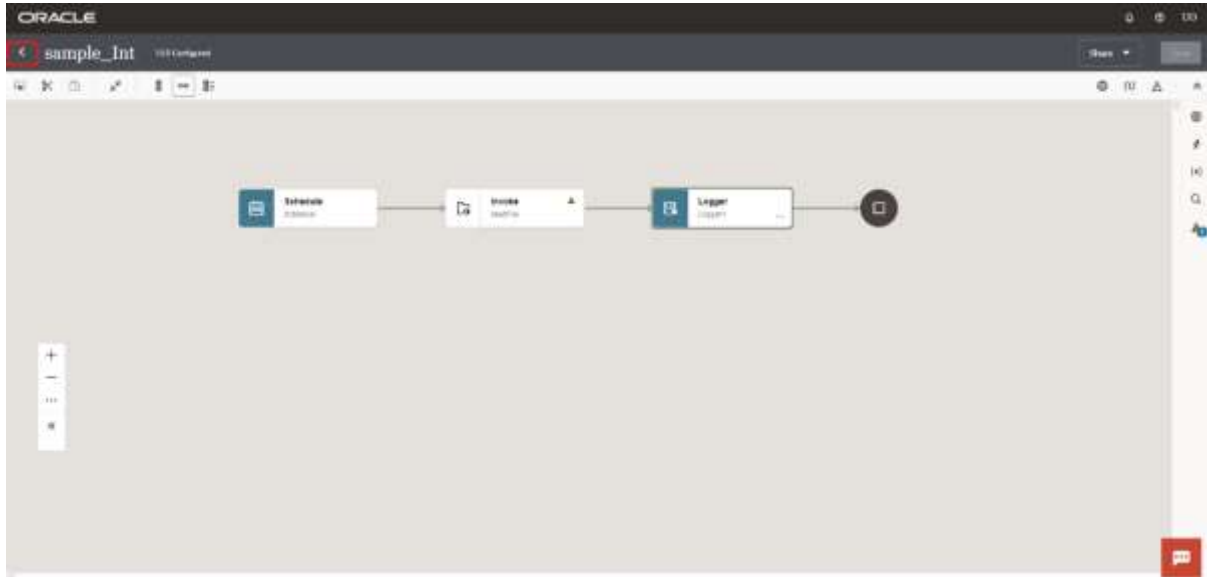


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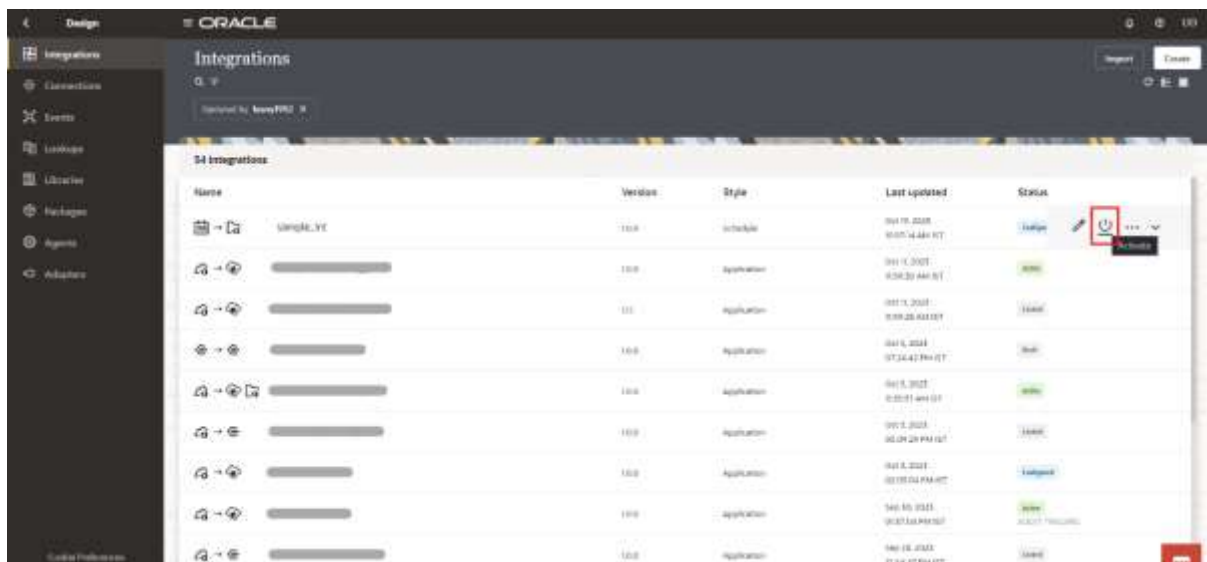
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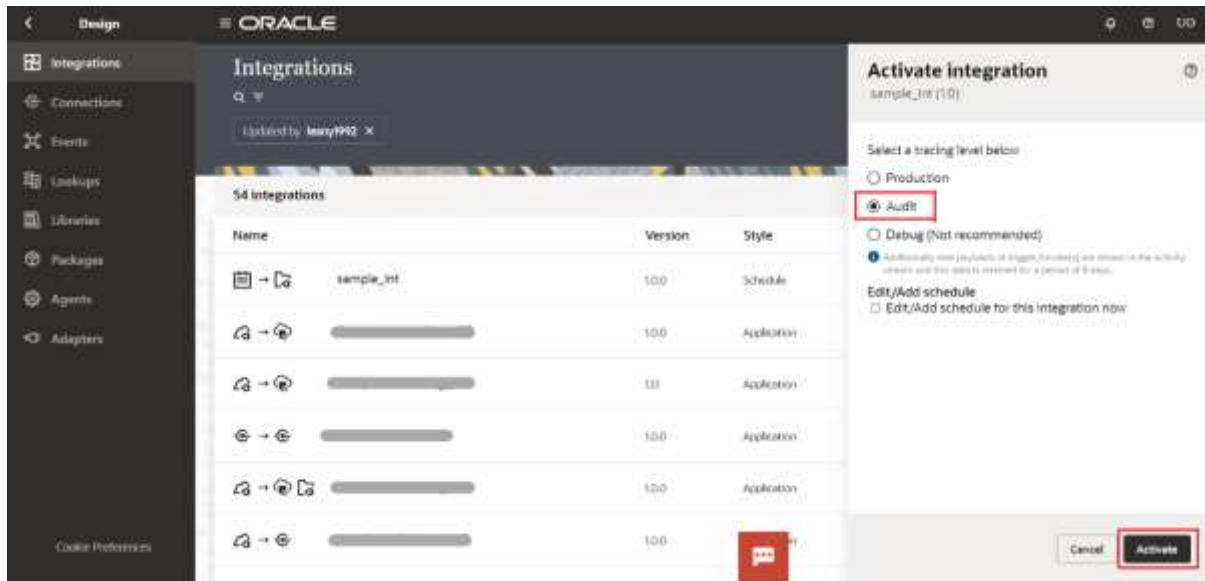
Step 26: Now we need to close that Integration to active that Integration, just click the left arrow to close the Integration



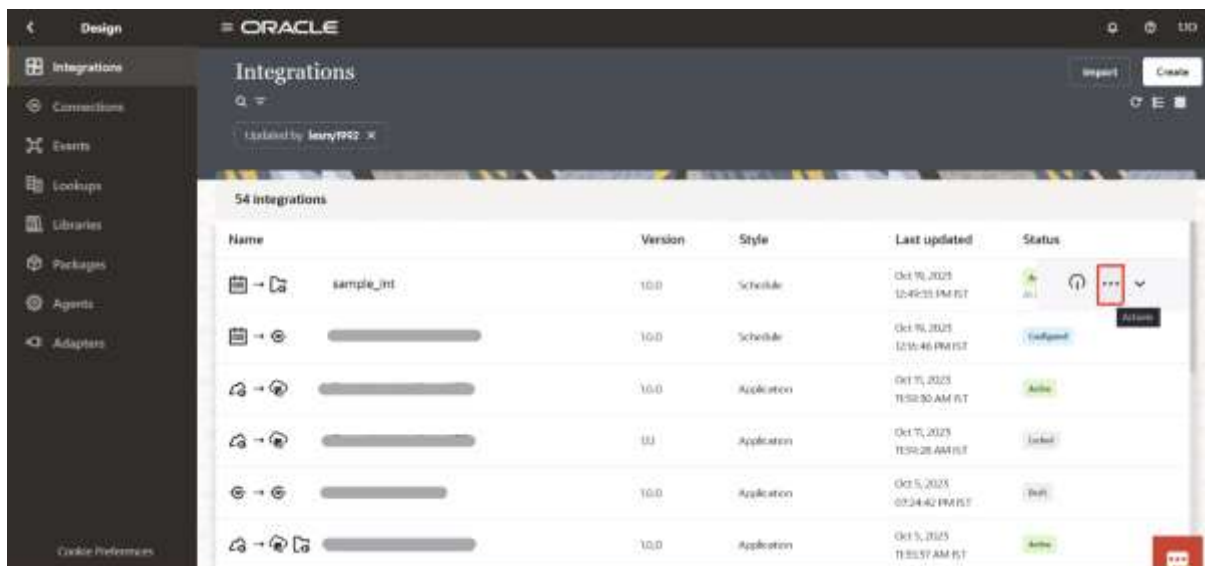
Step 27: After closing the integration we need to active that first to run, so for that we need to hover the integration first and click the Active button



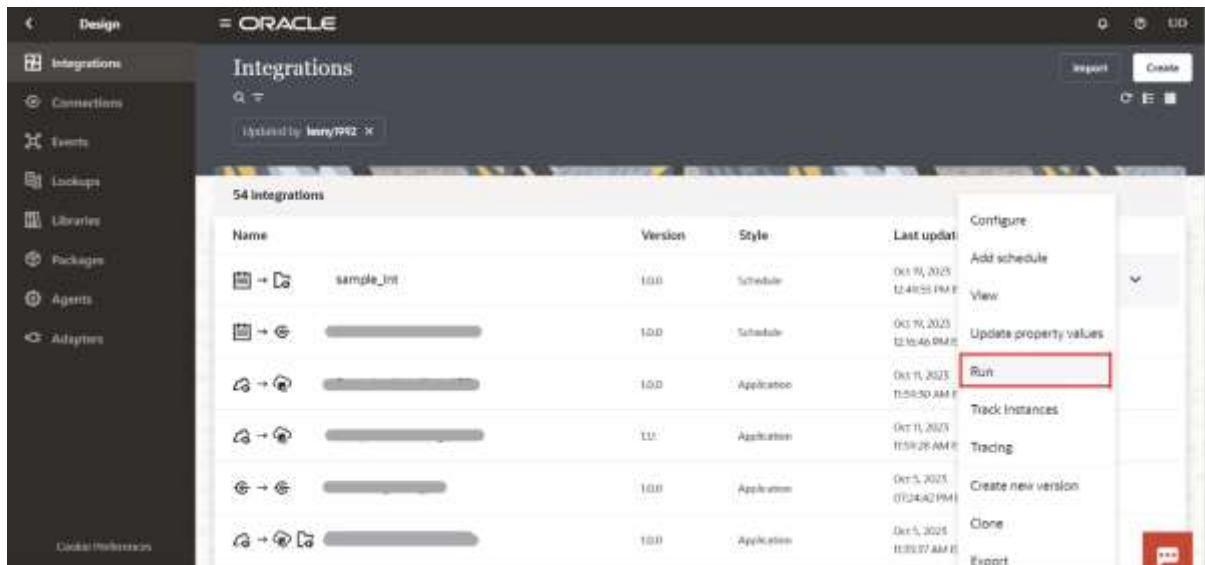
Step 28: Now on the Activate integration page we need to select the Audit option and click on the Activate button



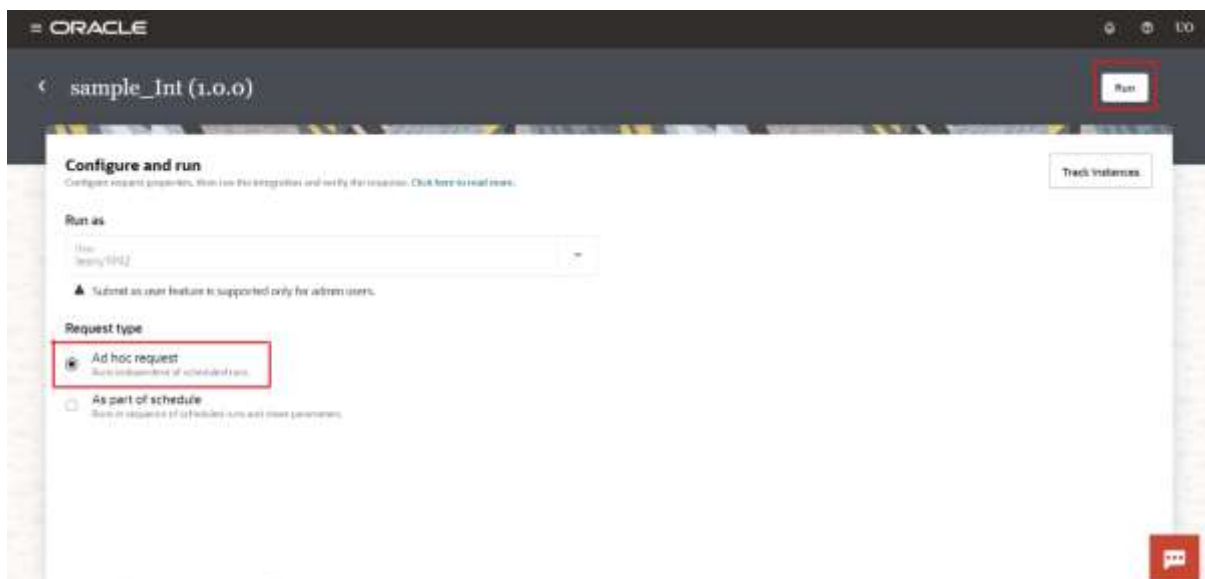
Step 29: After activating the integration quickly refresh the page and you can see your integration is in the Active stage, we need to click on the Action button (...)



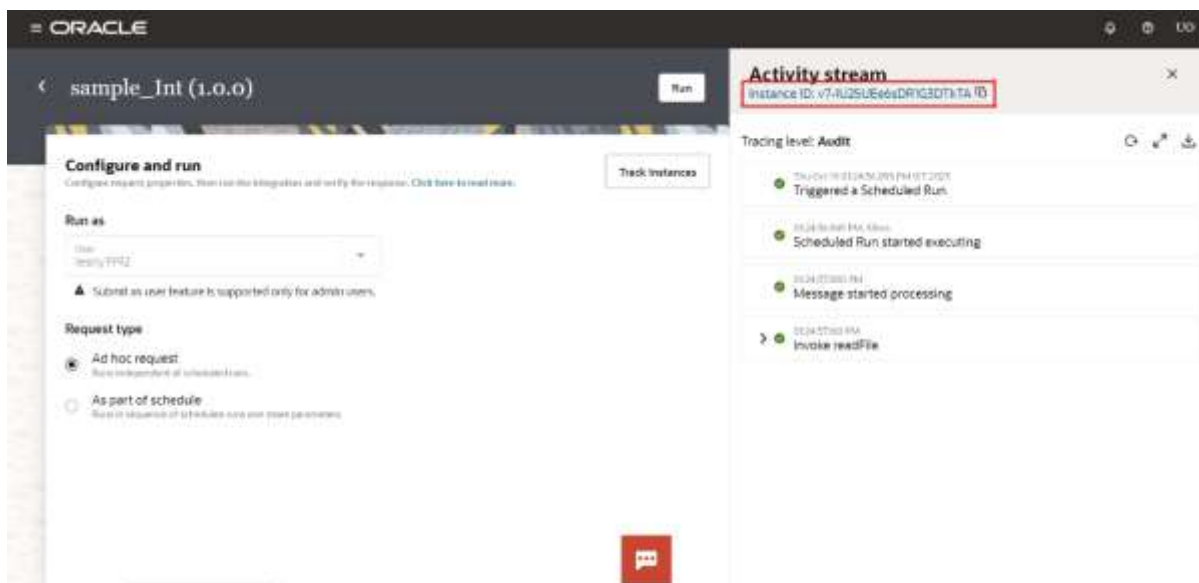
Step 30: After clicking the Action button we need to click on the Run button to run our integration



Step 31: Now we need to select the Ad hoc request option and click on the Run button



Step 32: Now we need to click on the Instance ID link and it will display the complete flow of our integration



Step 33: Now click on the eye button and it will display the size of the particular file read from the FTP



Thank You



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Making Integrations Simpler

TGH Software Solutions Pvt. Ltd.

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At TGH, we specialize in driving digital transformation through seamless Integration Technologies.

Operating as an INTEGRATION FACTORY, we serve as a one-stop shop for all your integration needs. Our expert team is well-versed in enterprise software and legacy system integration, along with leading iPaaS technologies like Boomi, MuleSoft, Workato, OIC, and more.

We're committed to enhancing business processes and solving problems through our integration expertise.



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