



**TGH**

Making Integrations Simpler



# DIFFERENT PROCESS MODES IN BOOMI

Author  
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## Different Process Modes in Boomi

As there are three types of modes in Boomi, In this blog, we will learn about Boomi's new mode, Bridge mode, and the differences between Bridge, General, and Low Latency modes.

**Bridge Mode:** A new process mode called Bridge has been introduced for Integrations. This mode of execution provides low latency-like performance with more granular process logging.

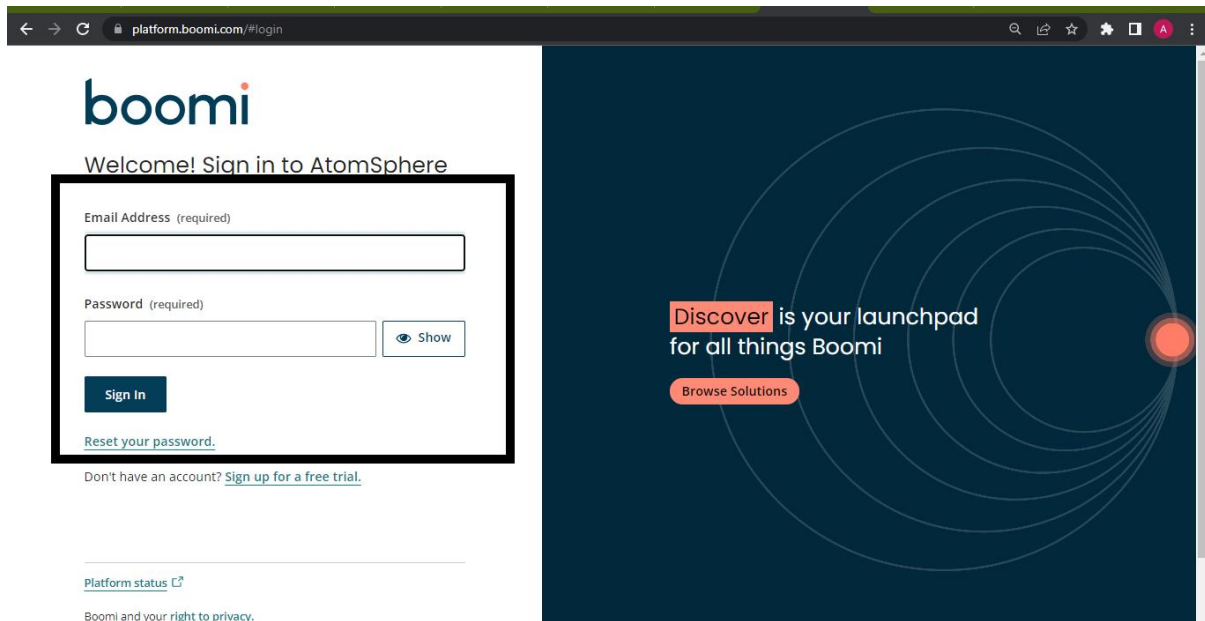
### Difference between General, Low Latency, and Bridge modes.

General Mode	Low Latency Mode	Bridge Mode
This is the default process mode for all new processes. This type of process can also be called a traditional process.	This processing mode is to improve performance for short-lived processes.	This mode of execution provides low latency-like performance with more granular process logging.
Allow simultaneous flag is unchecked by default.	Allow simultaneous flag is checked by default.	Allow simultaneous flag is checked by default.
The inbound and outbound document logs are available and we can view the document.	The inbound and outbound document logs are not available.	The number of inbound and outbound documents can be seen but we cannot view the document.
We can choose any of these options 1.Connector. 2. Data pass through. 3.Nodata. 4. Trading partner.	Here, we get the Start shape of the Connector type only and we will have Listen action only.	Here, we get the Start shape of the Connector type only and we will have Listen action only.
We can see the process in the Process reporting tab.	We cannot see the process in the Process reporting tab until the <b>Only Generate Process Log On Error</b> check box is checked and there is any error in the process.	We can see the process in the Process reporting tab.
We can see the Process State	We cannot see the Process State	We cannot see the Process State
We can view the Documents in the Process Reporting	We cannot view the Documents in the Process Reporting	We cannot view the Documents in the Process Reporting
We can Re-run the documents in Test mode	We cannot Re-run the documents in Test mode	We cannot Re-run the documents in Test mode
We cannot see the Process Report Summary in Real-Time Dashboard	We can see the Process Report Summary in Real-Time Dashboard	We cannot see the Process Report Summary in Real-Time Dashboard

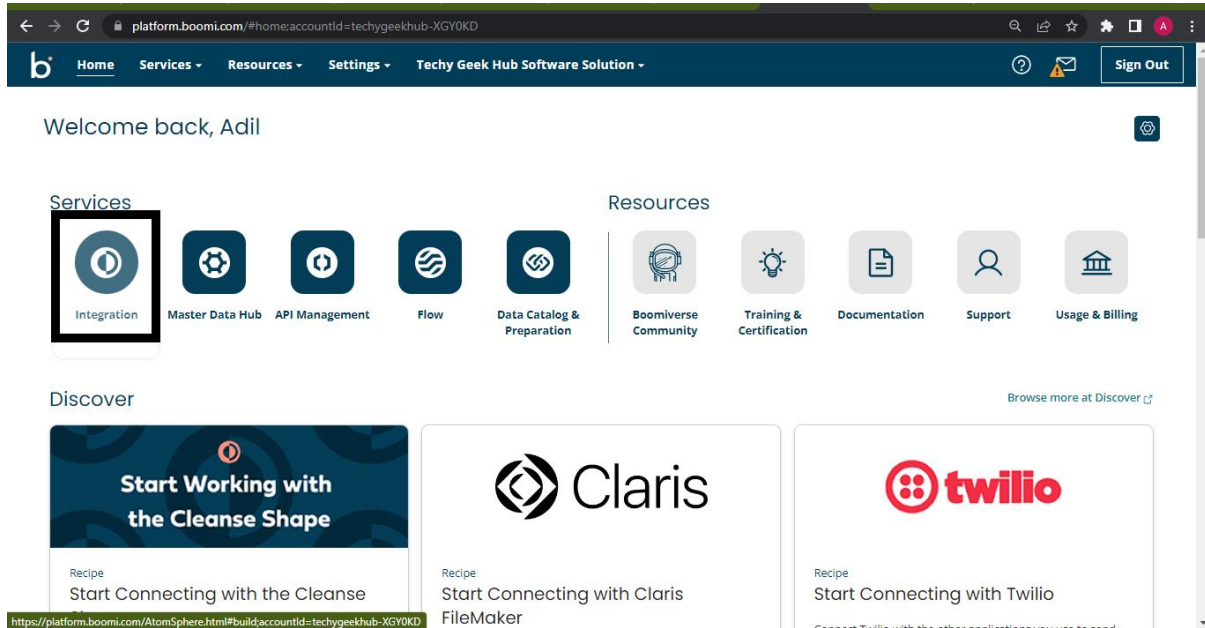
In this use case, we have choose mode as Bridge Mode and taken a Start shape of connector type and used Web Services Server as a connector as we are exposing an API and then we have taken a disk v2 connector as we are getting files from our local directory and then we use branch shape in the first branch we are send the data in Database using flow control shape to send document one by one and taken map shape to transform the data and send it to Database using Database V2 connector and In second branch we are just combining the document using Data Process shape and the taken Message shape to generate a message as response and taken a Return document shape to return the document

We will see how Bridge Mode works and how it is different from other Modes in Boomi, with the help of this use case.

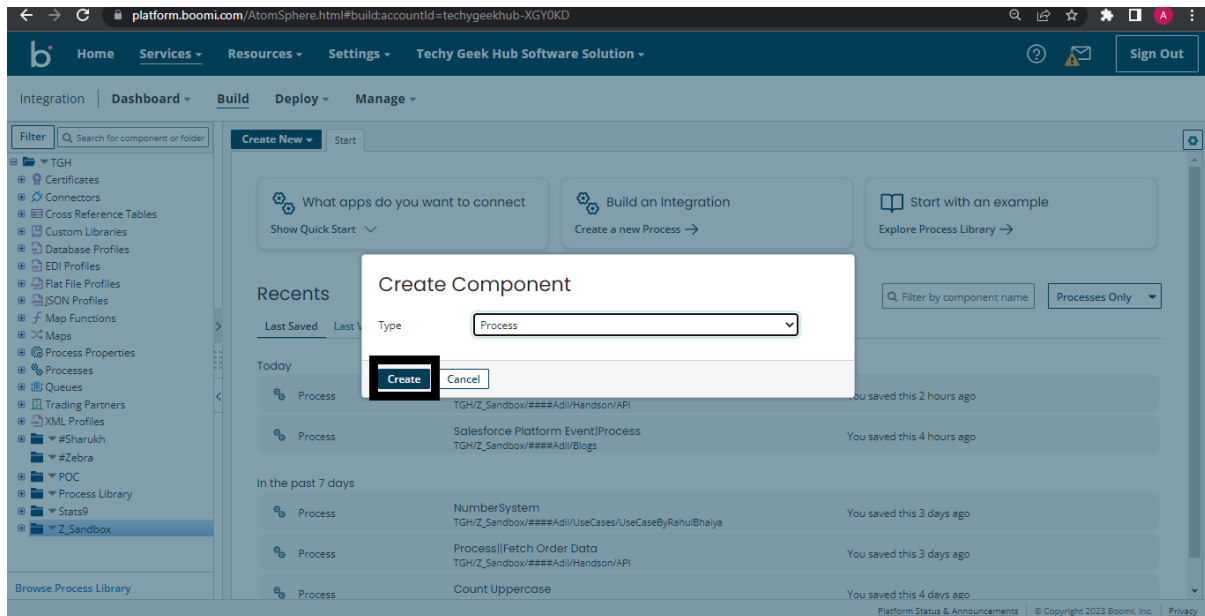
Step 1: Now, log onto the Boomi platform (<https://platform.boomi.com/>) with the required credentials i.e. Email Address and Password.



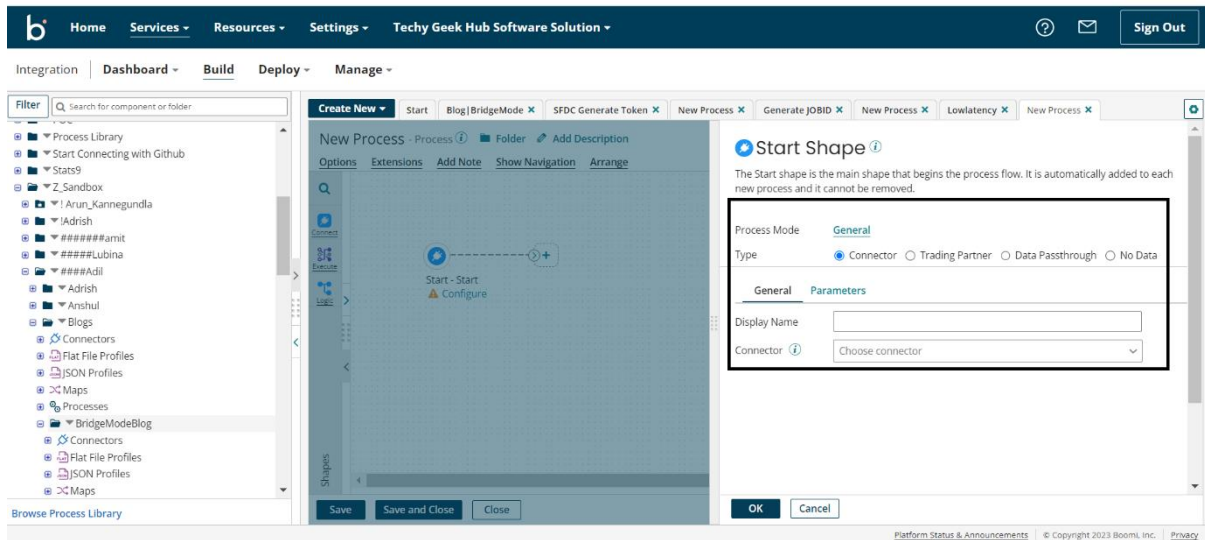
## Step 2: Now Click on Integration



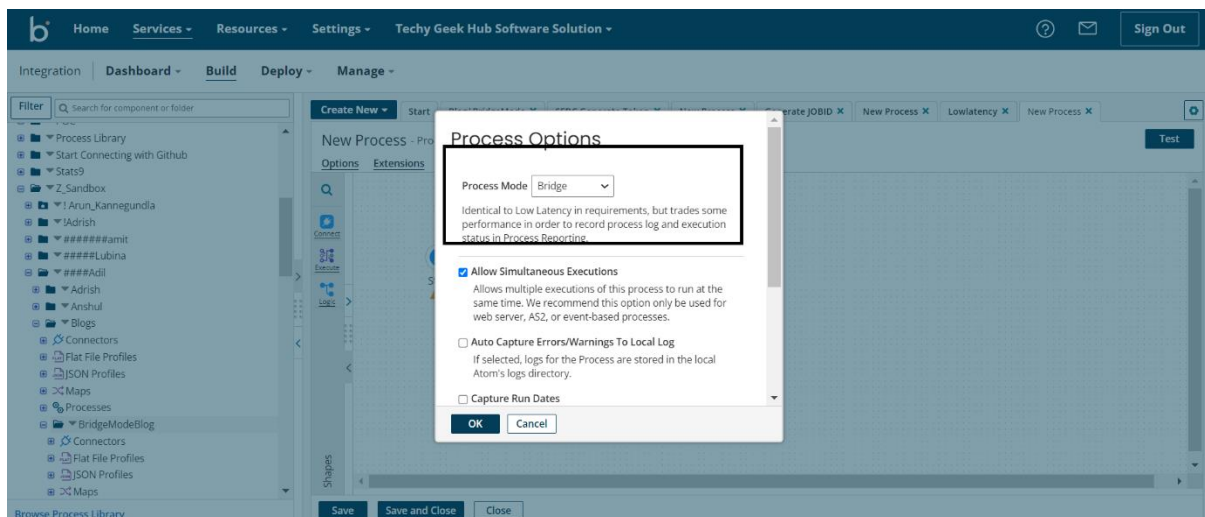
## Step 3: Create a Component



#### Step 4: Choose a start shape of connector type.

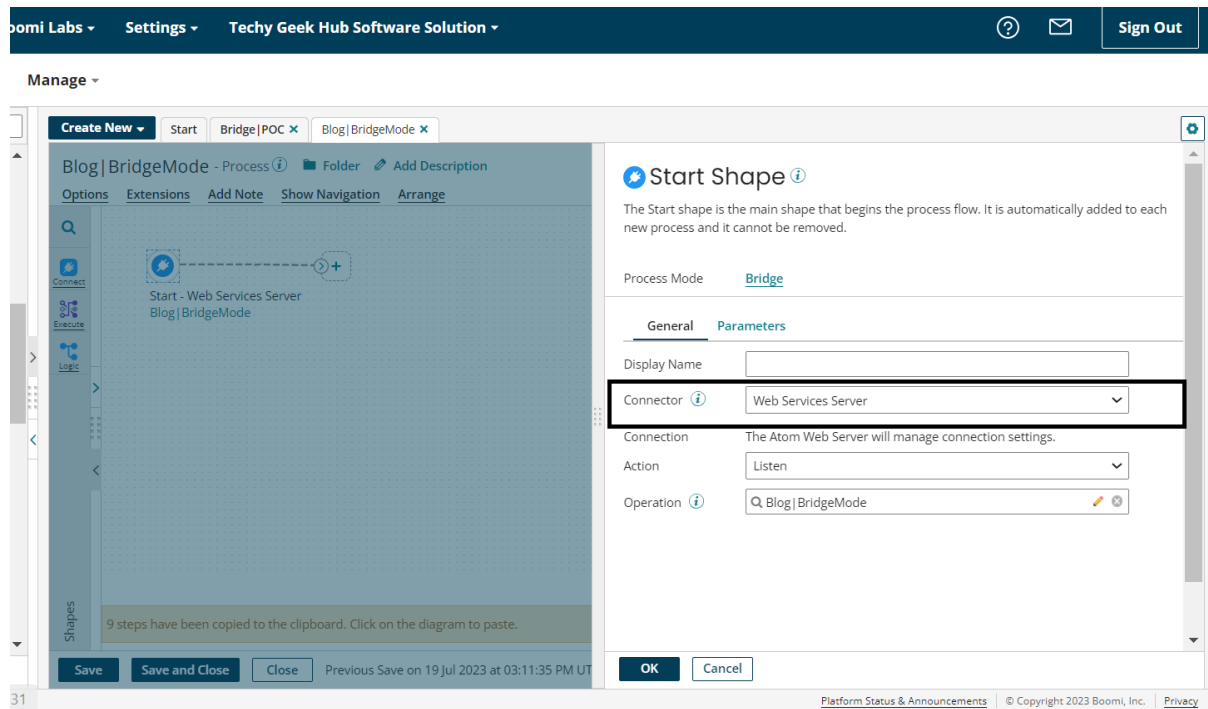


#### Step 5: Choose Mode as Bridge Mode by clicking on the Options Tab.

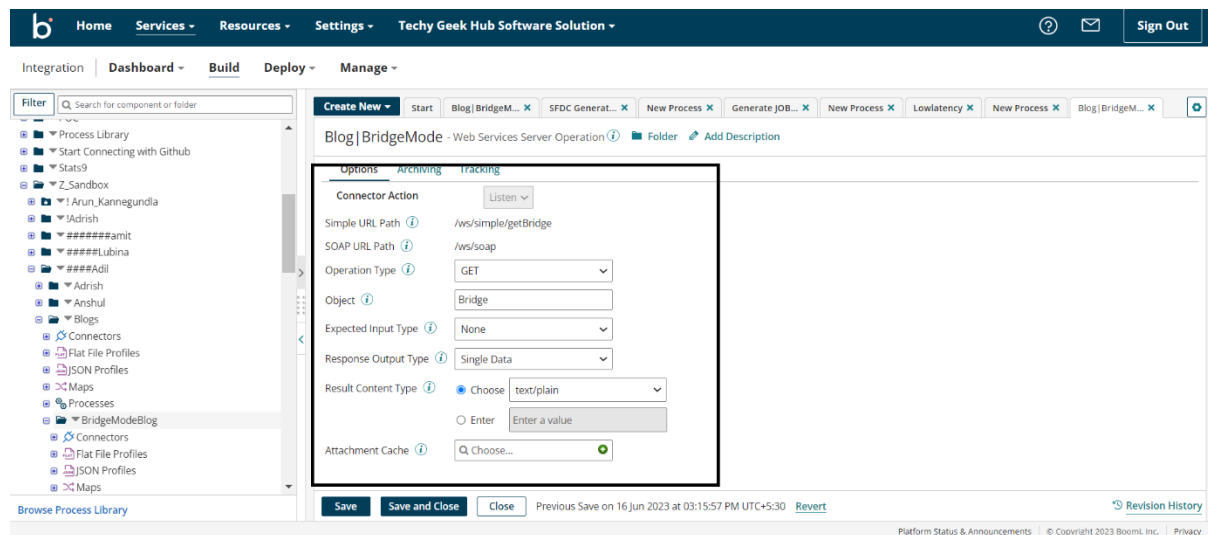




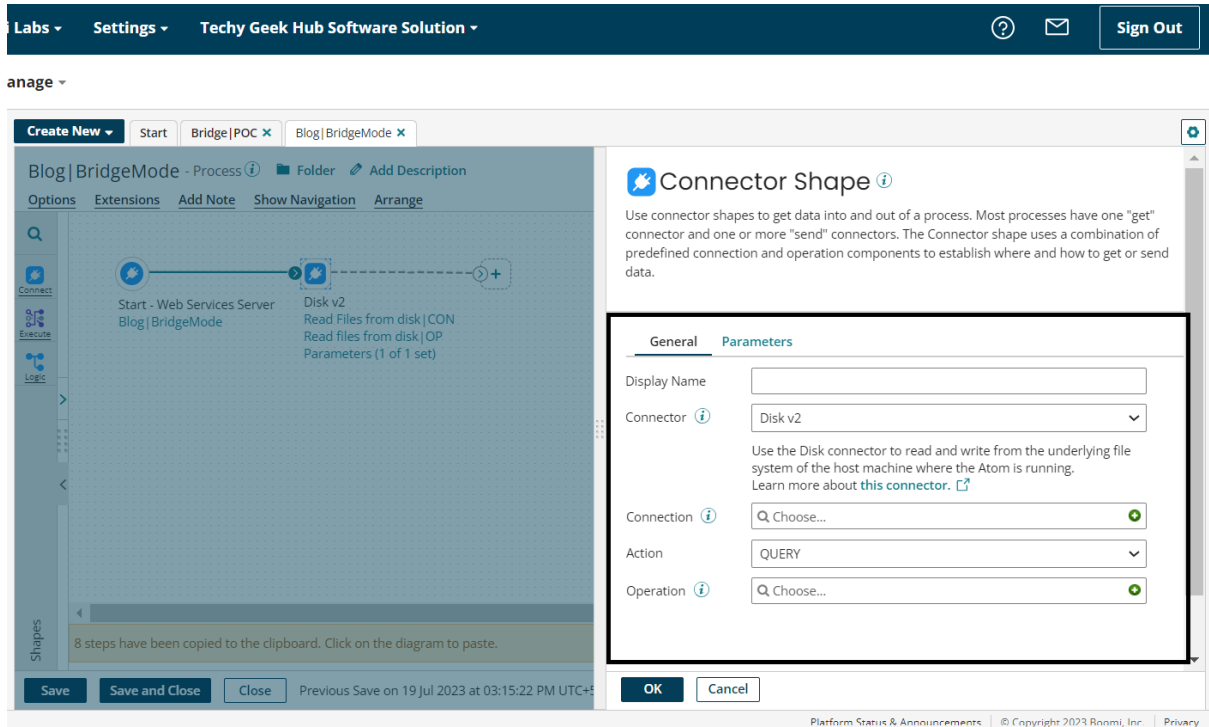
Step 6: Here I have exposed An API by using Web Services Server Connector.



Step 7: Here is the operation for this API, We will get a single data as a response, so we will response output type as Single Data and will choose operation type as get and give object name as Bridge

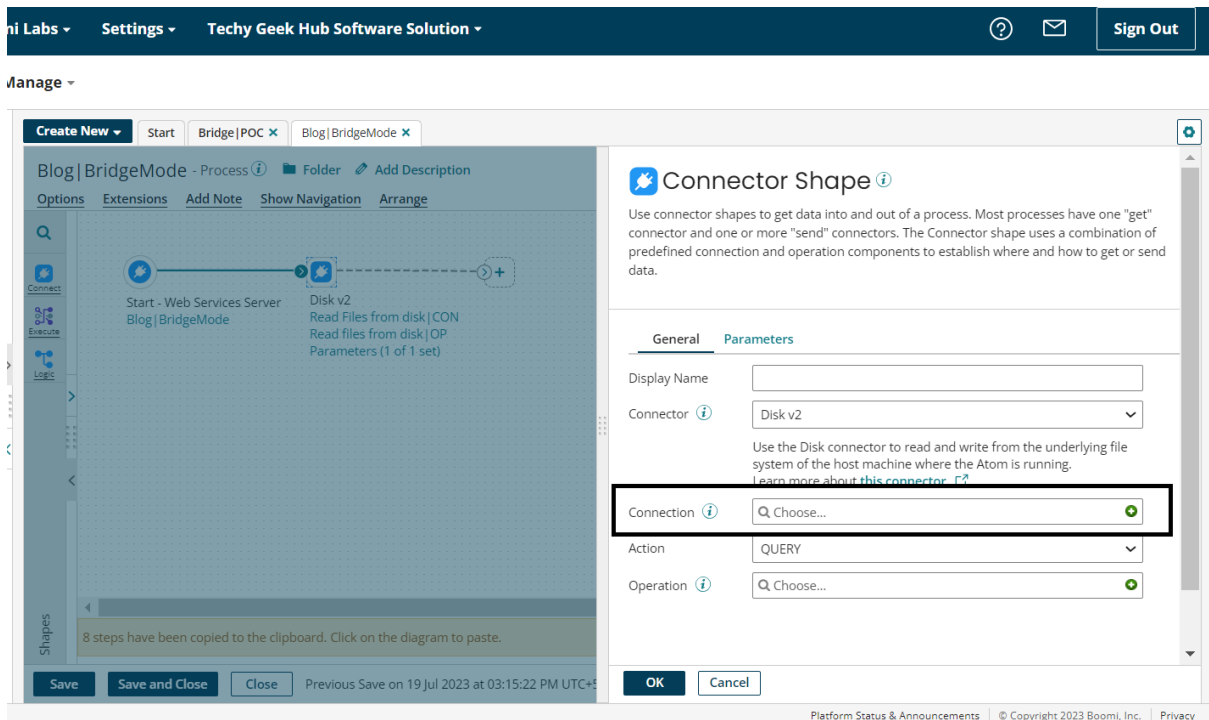


Step 8: Here we have taken Disk V2 connector with Action as Query and we are getting 1000 documents of Employee having fields ID, Name, PhoneNumber, Country



Step 8.1: Here, We will configure Disk V2 Connection.

For configuring Disk V2 connection we have to click on the plus symbol.

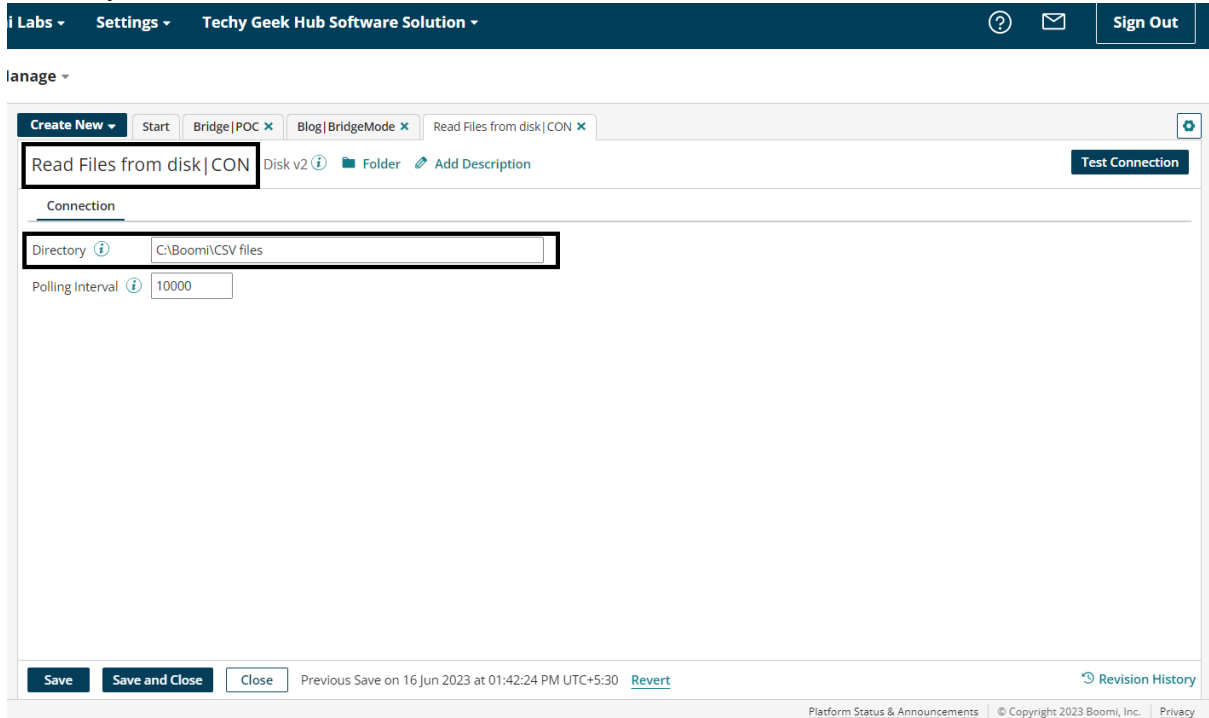


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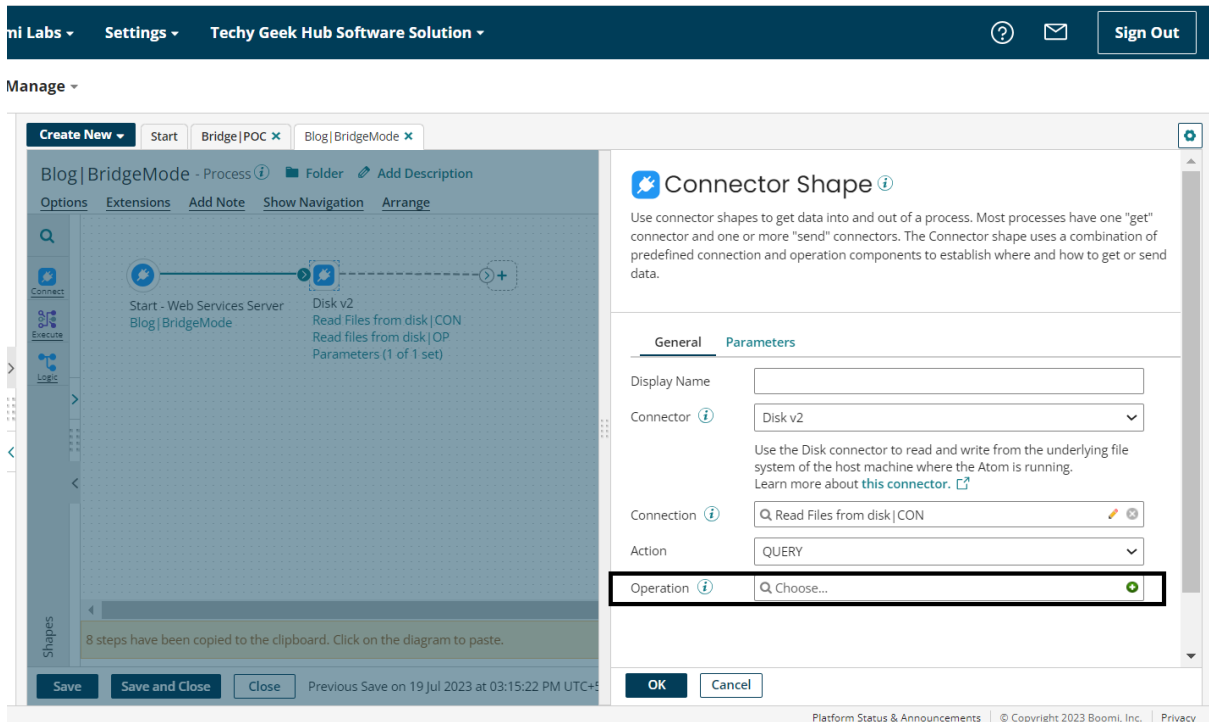


Now we have to give the connection name and path where the file resides in our local directory



Step 8.2: Here, We will configure Disk V2 Operation.

For configuring Disk V2 operation we have to click on the plus symbol.



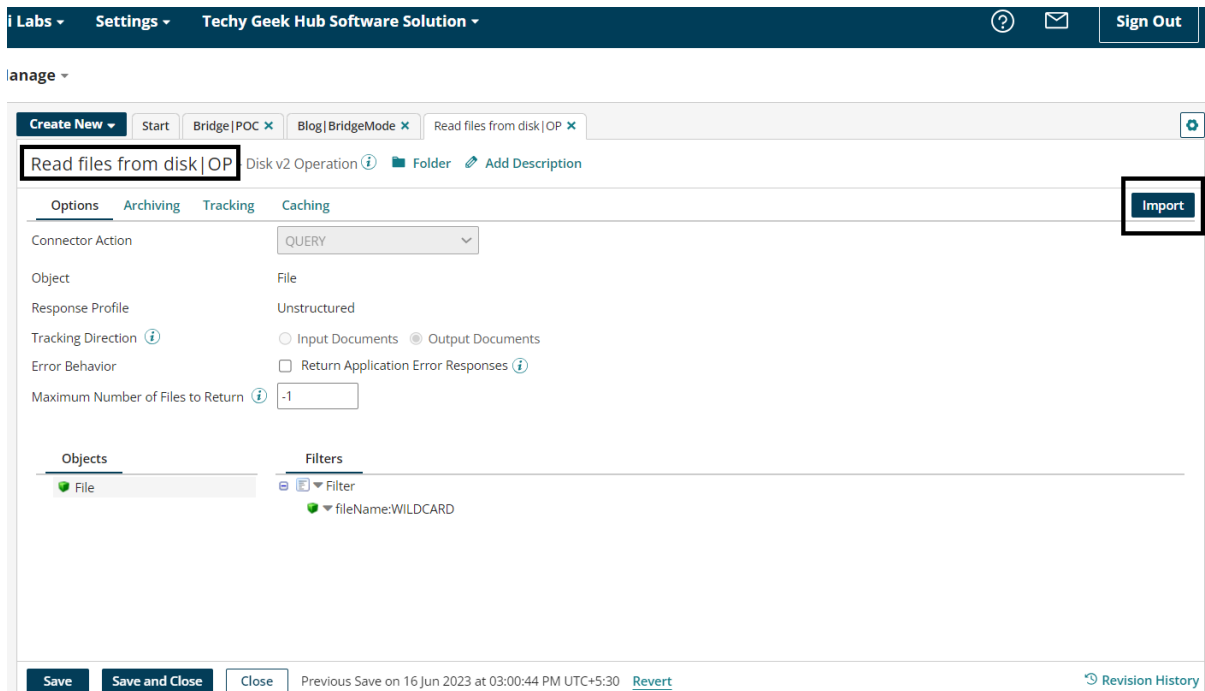
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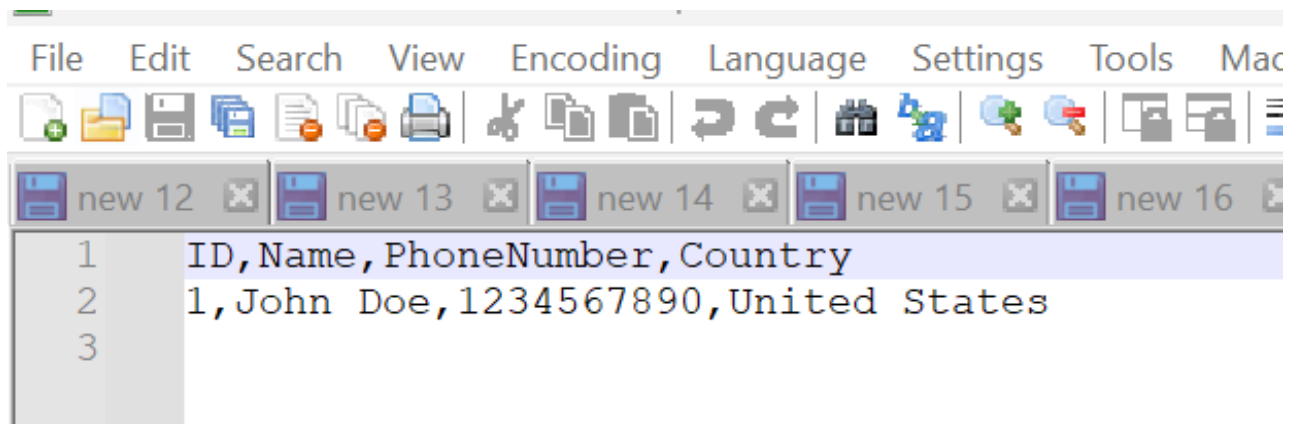




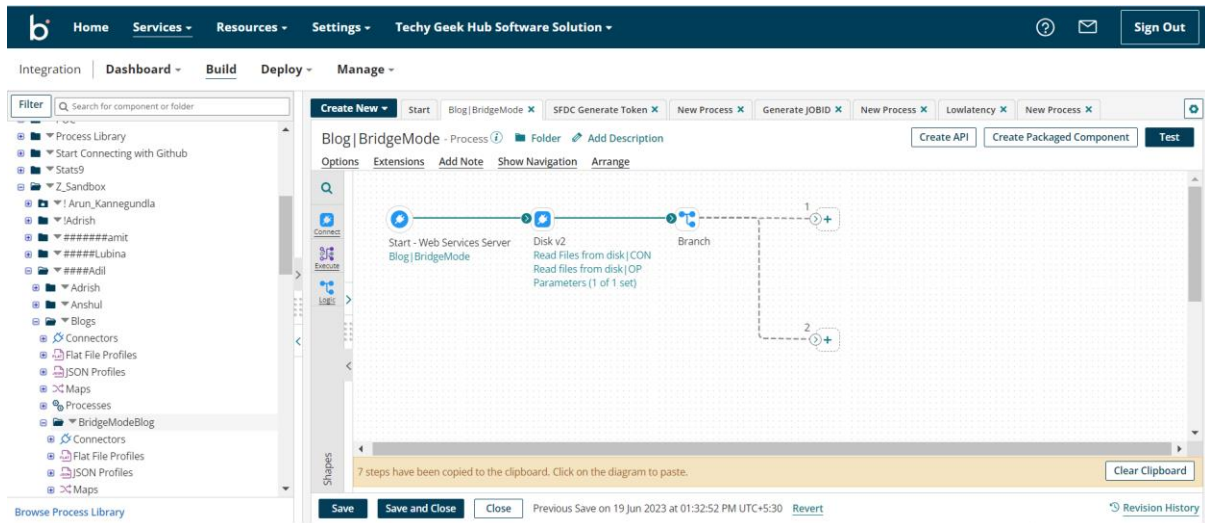
Now we have to give the operation name and import the file after clicking on Import



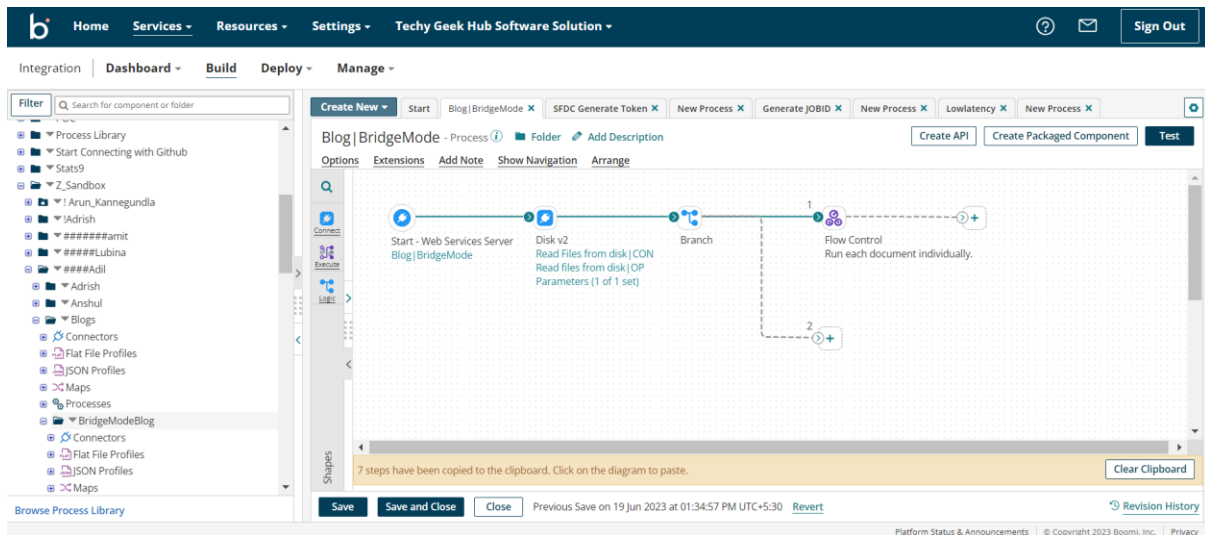
This is the sample of file we are getting from our disk connector



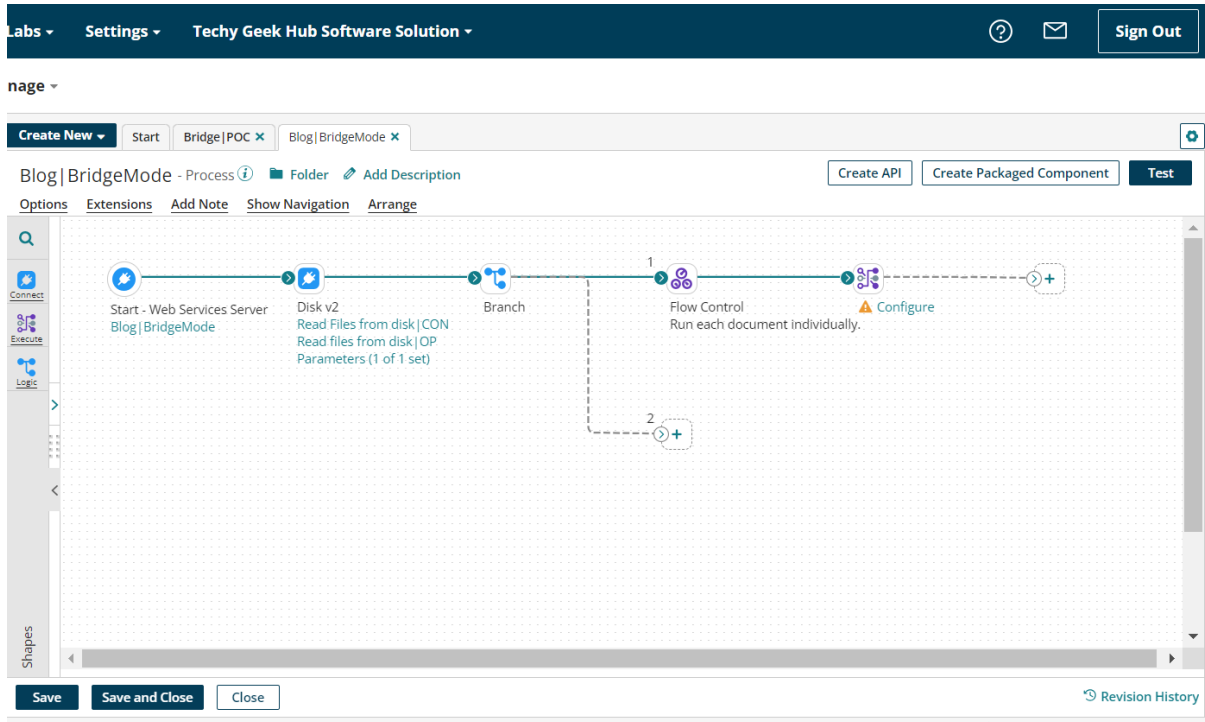
Step 9: Now, we have taken a branch shape.



Step 10: Now, we have taken a flow control shape and configured it to run each document individually

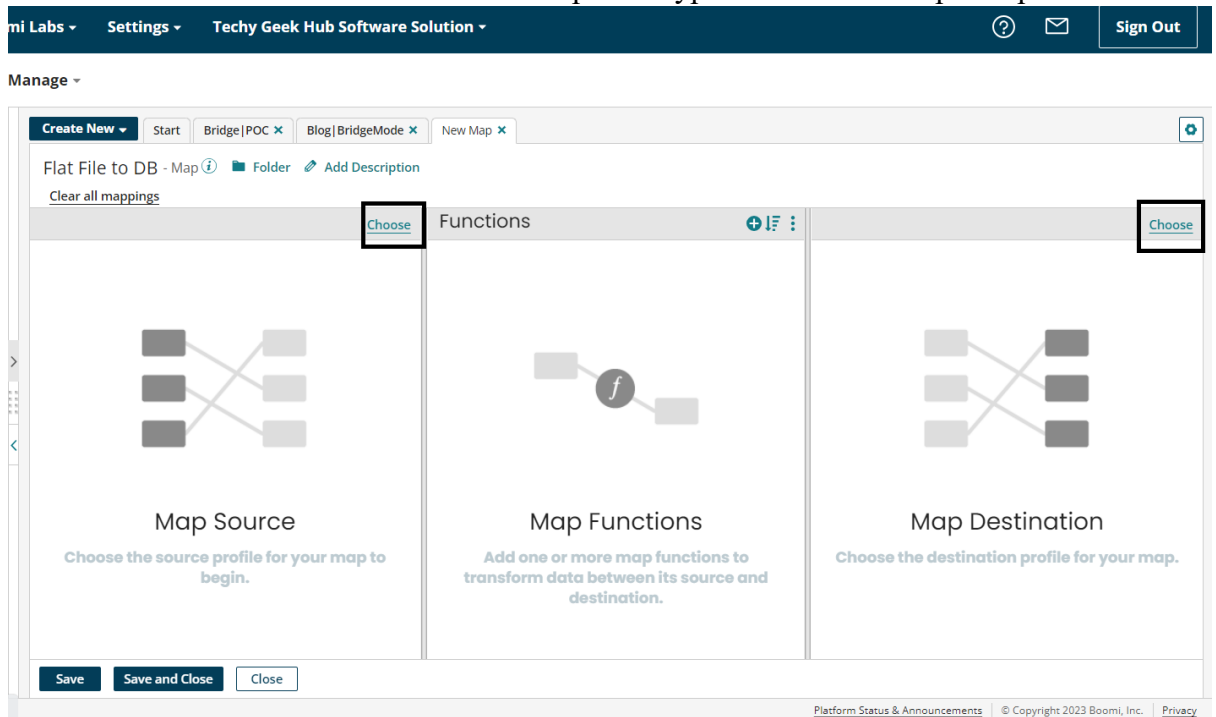


Step 11: Now, We have taken a MAP shape to mapped the values and sent it to DataBase Using the Database V2 connector

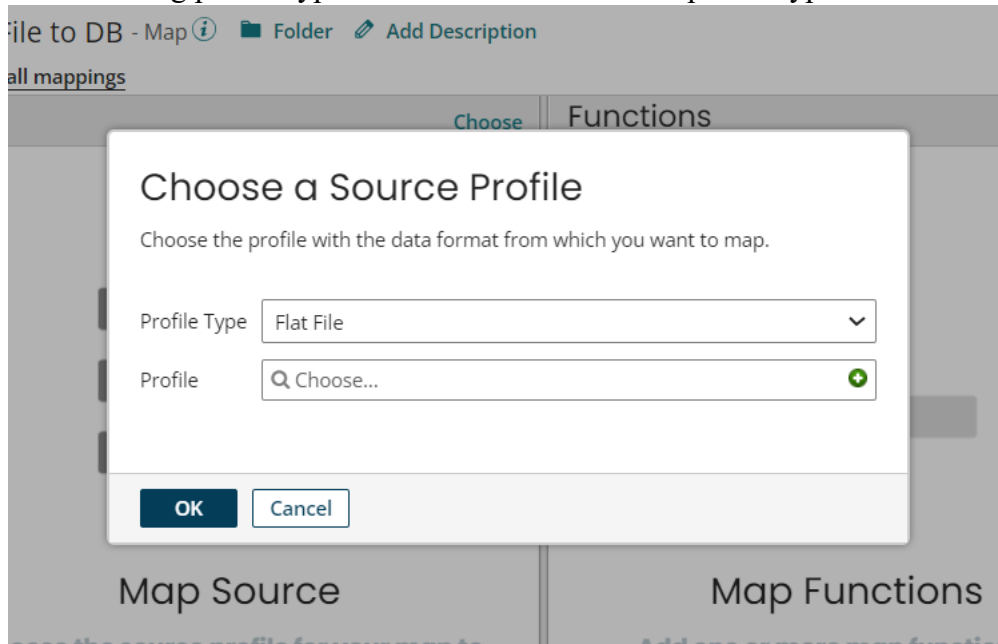


Step 11.1: Now, We configure the MAP shape by getting the source profile and target profile and mapping them

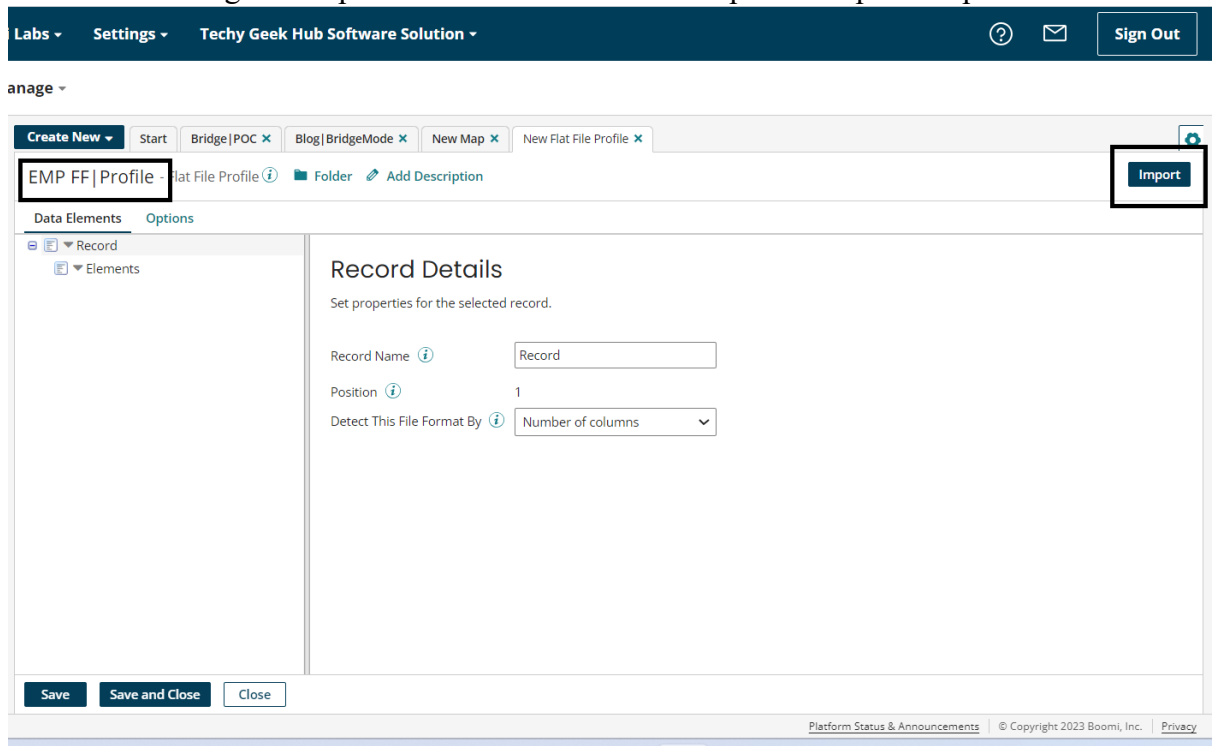
- First we have click on choose to choose the profile type and create or import a profile



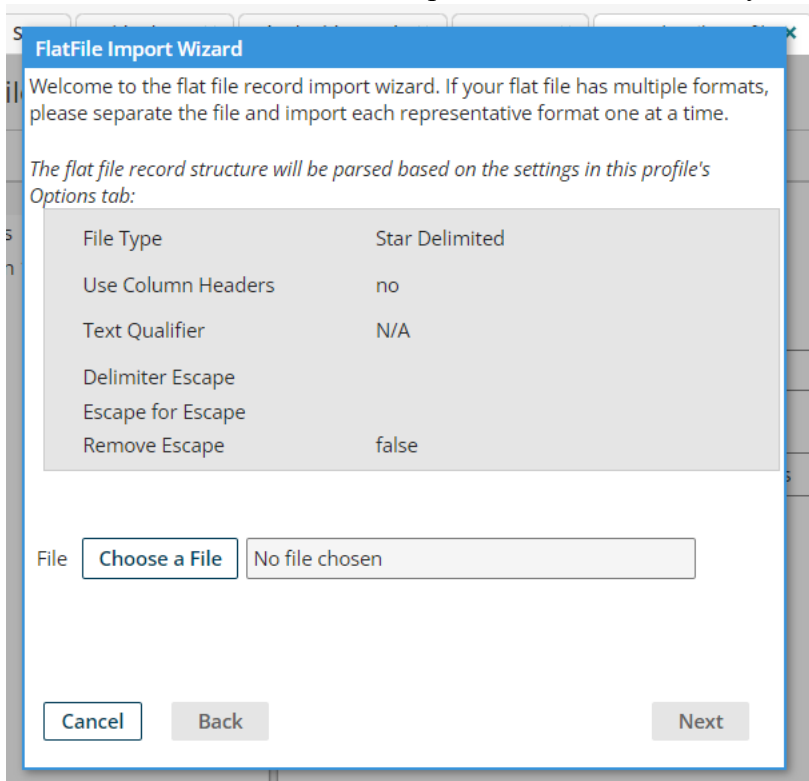
- Now we choose the profile type and click on plus sign to create or import a profile as we are having profile type as flat file we will choose profile type as Flat File



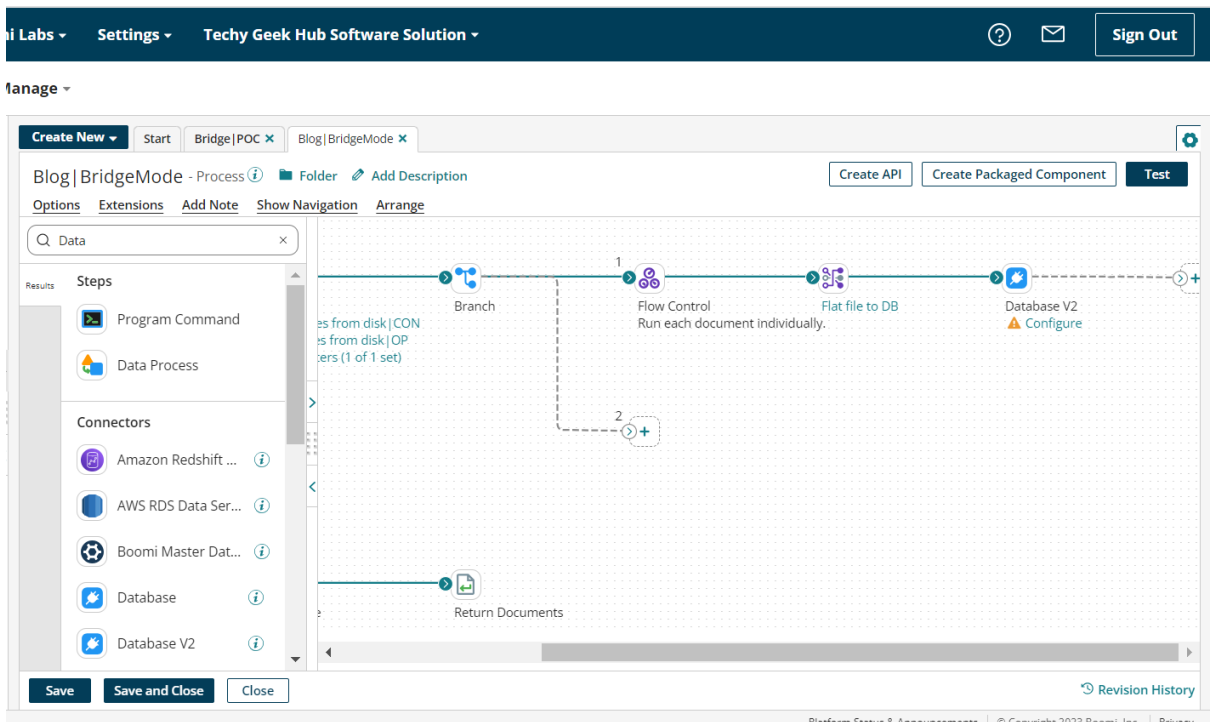
- Now we have to give our profile a name and click on import to import the profile



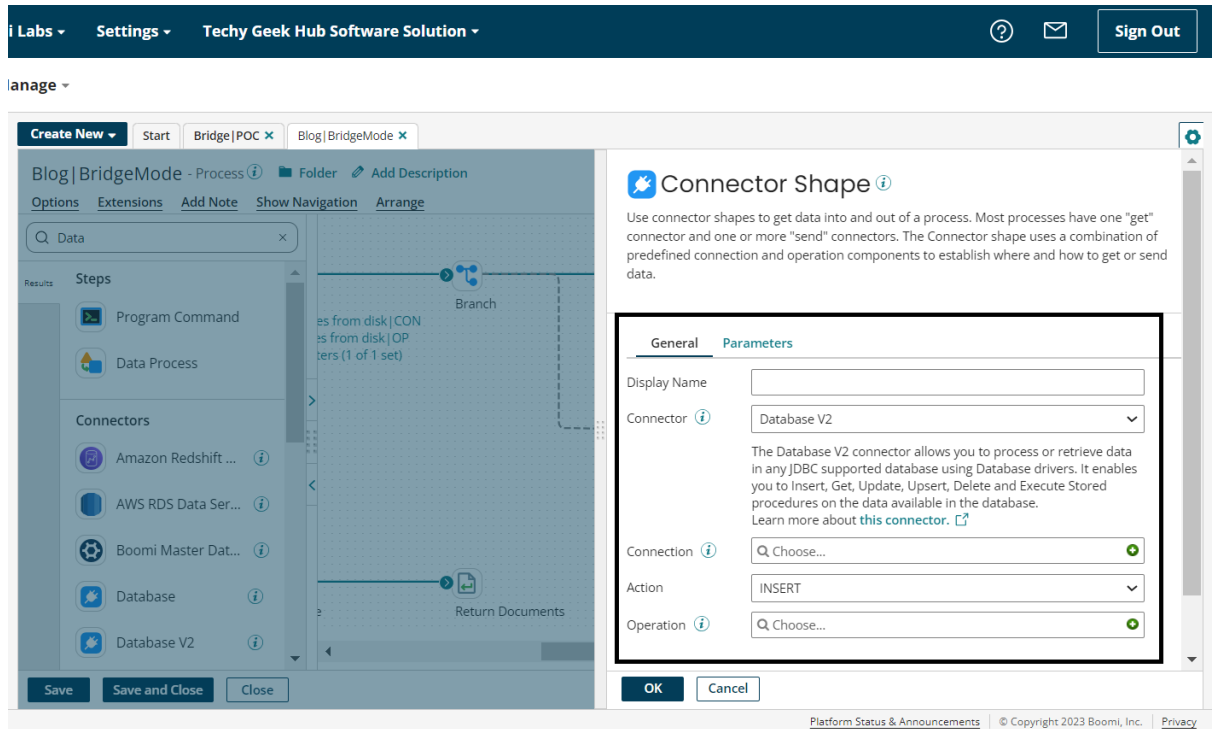
- Now, We have to choose the sample file from our directory which we want to import



- Now, for getting our Target profile we have to configure the Database connector as we are sending data to Database, so we have taken Database V2 as a connector.



- Now, we have chosen Insert as an action and click on connection to connect with the Database.



- In this Process, we are using My Sql as a database so for this we need MySQL Jar file according to the version we are using, for that just download the jar file from this link (<https://mvnrepository.com/artifact/mysql/mysql-connector-java>) and refer to this blog (<https://drive.google.com/file/d/168UmtvVSyIE4sWefqUzkZAmrdnmZnM/view>) and instead of SQL server jar just use MySQL jar file and follow the same steps and after that go to database v2 connection. Here give your connection a name and fill the required fields like class name, user name and password and click on test connection to test the connection.



Labs ▾ Settings ▾ Techy Geek Hub Software Solution ▾ ? ✉ Sign Out

anage ▾

Create New ▾ Start Bridge|POC ✕ Blog|BridgeMode ✕ MySQL|CON ✕ ⚙

MYSQL|CON - Database V2 ⓘ Folder Add Description Test Connection

**Connection**

Connection URL ⓘ jdbc:mysql://localhost:3306/

Class Name ⓘ com.mysql.jdbc.Driver

User Name ⓘ root

Password ⓘ <Encrypted>

Schema Name TONY

Connection Timeout (ms) ⓘ

Read Timeout (ms) ⓘ

Option  Enable Connection Pooling ⓘ

Connection Properties ⓘ

Key	Value	Encrypt Value	Remove
No custom properties are defined.			

+ Add Property

Lock & Edit Close Previous Save on 30 Jun 2023 at 03:43:38 PM UTC+5:30 Revert Revision History

- Now, go to operation, give your operation a name, and import the table where you want to insert the Data.

Labs ▾ Settings ▾ Techy Geek Hub Software Solution ▾ ? ✉ Sign Out

anage ▾

Create New ▾ Start Bridge|POC ✕ Blog|BridgeMode ✕ Blog|BridgeMode ✕ New Database V2 Connector Operation ✕ ⚙

New Database V2 Connector Operation - Database V2 Operation ⓘ Folder Add Description Import

**Options** Archiving Tracking Caching

Connector Action INSERT

Object

Tracking Direction ⓘ  Input Documents  Output Documents

Error Behavior  Return Application Error Responses ⓘ

Insertion Type ⓘ Dynamic Insert

Schema Name

SQL Query ⓘ

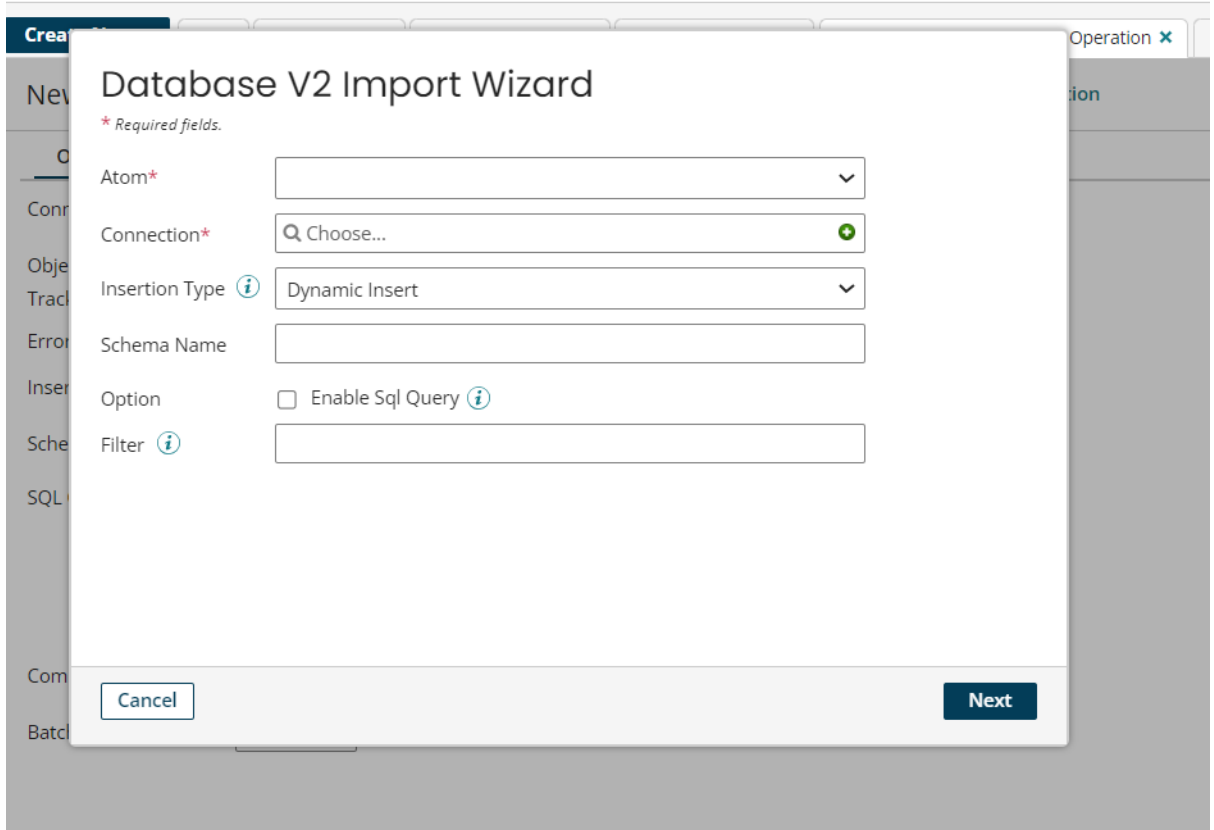
Commit Option ⓘ Commit By Profile

Batch Count ⓘ

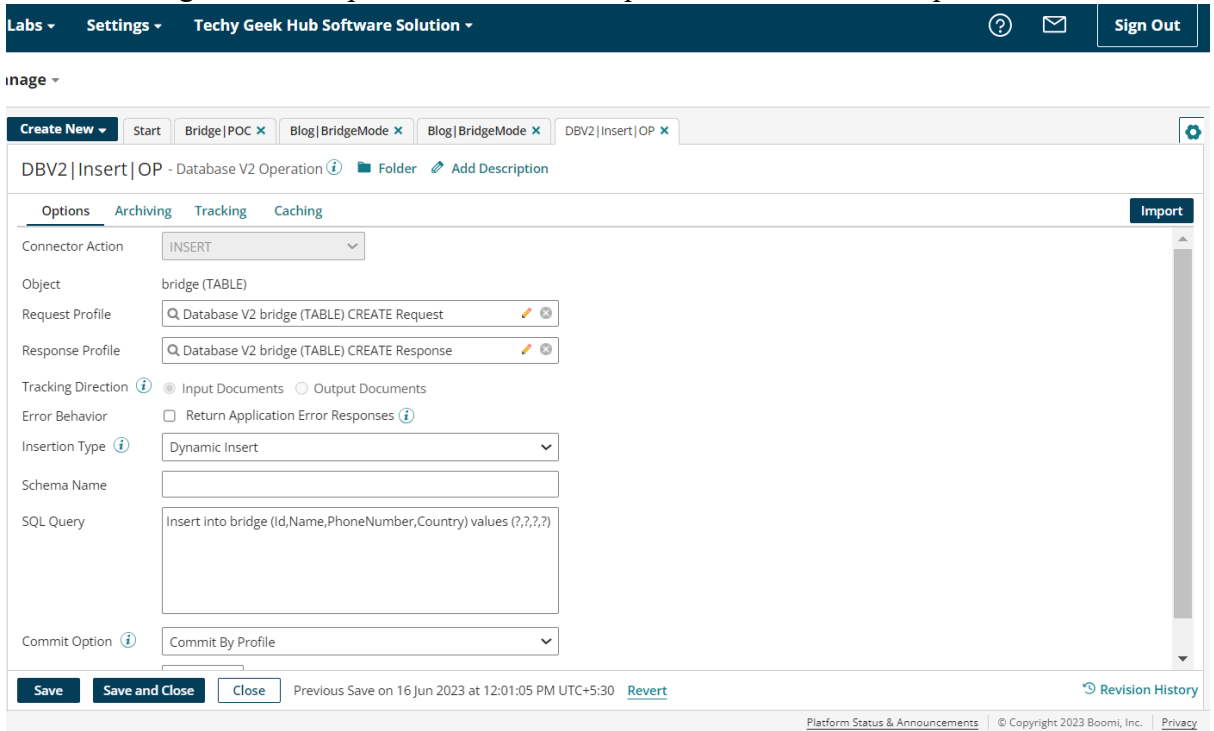
Save Save and Close Close

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- After that choose your Atom and fill the schema name and in filter give the table name and your Import the table and you table will be imported.

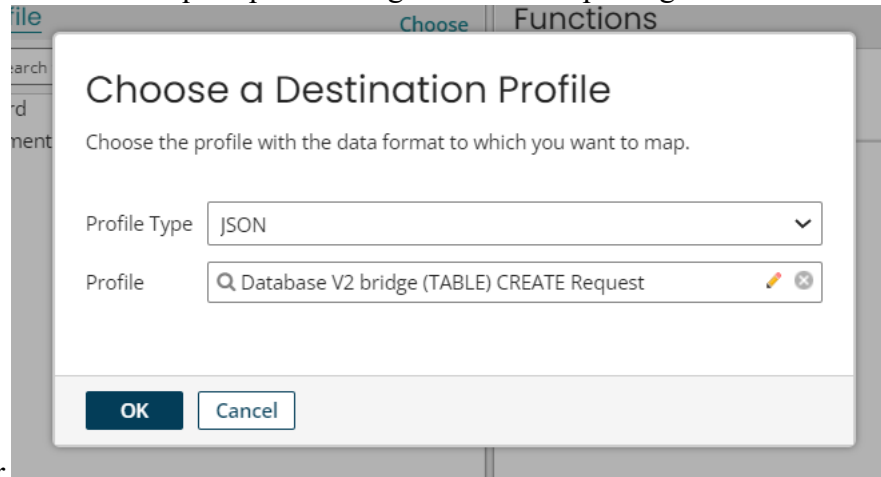


- Now we will get two Json profile one will be request and one will be response



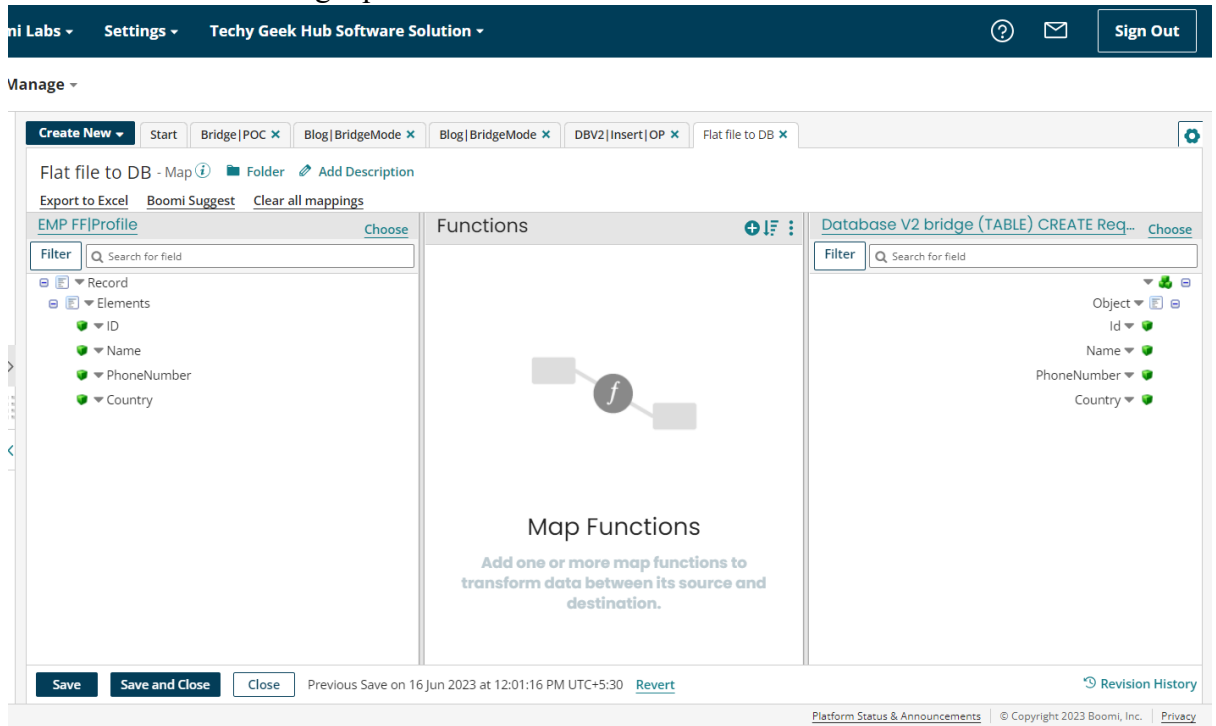
- So the profile that we are getting in request we will choose the same profile in our map in the target profile and now we have to choose profile type as Json and in profile

we have to choose same request profile we got in while importing table in Database

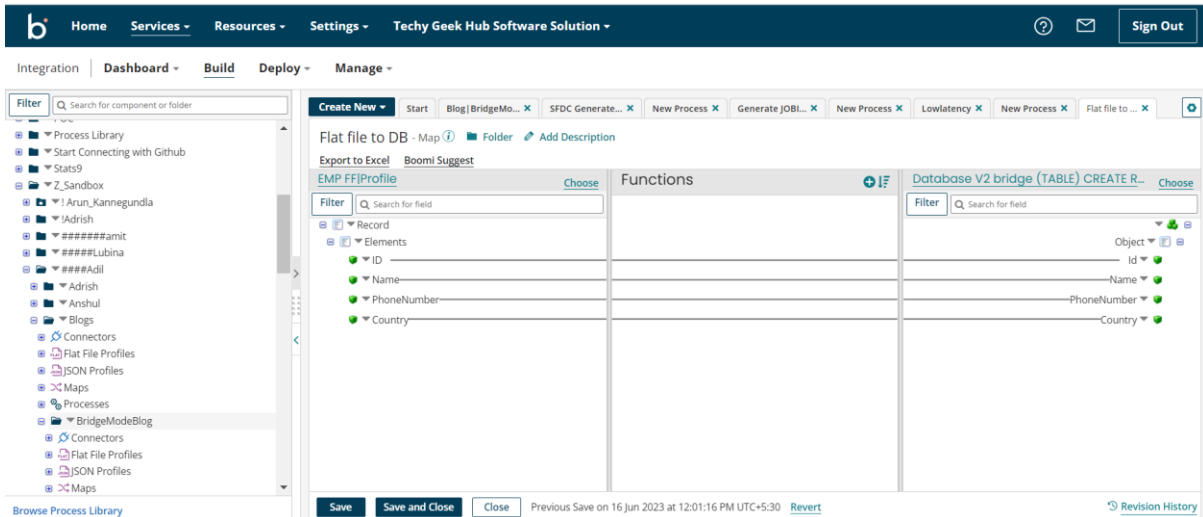


V2 connector.

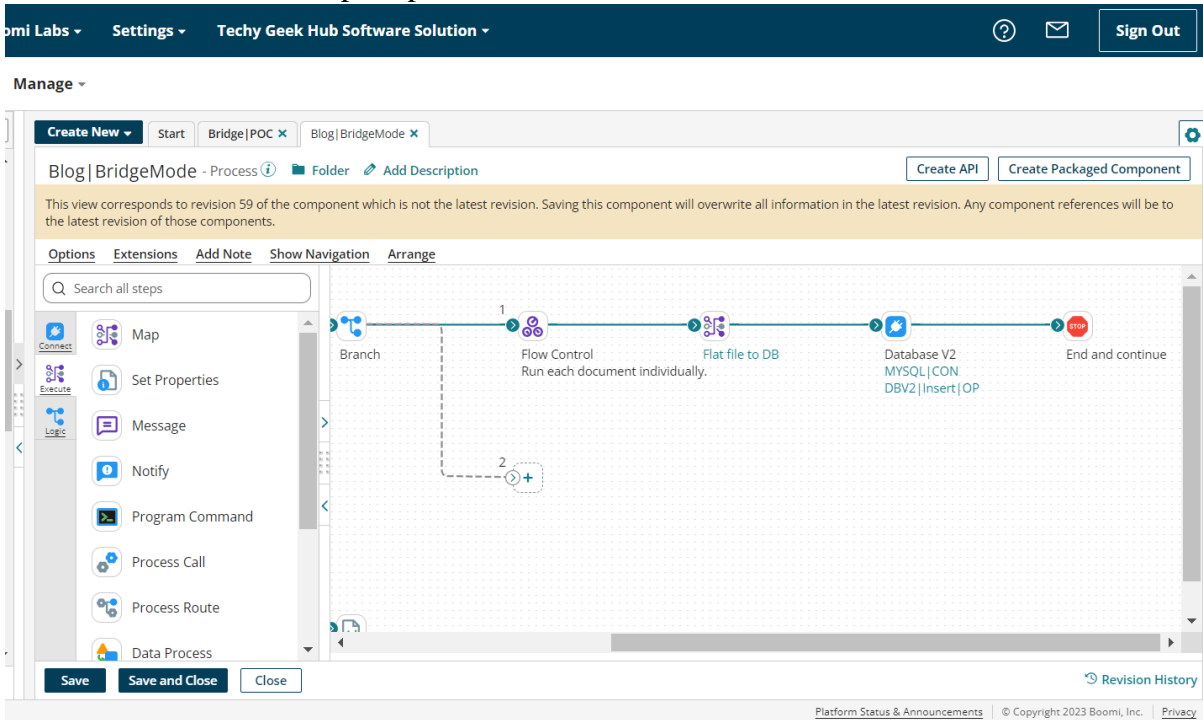
- This our Source and Target profile.



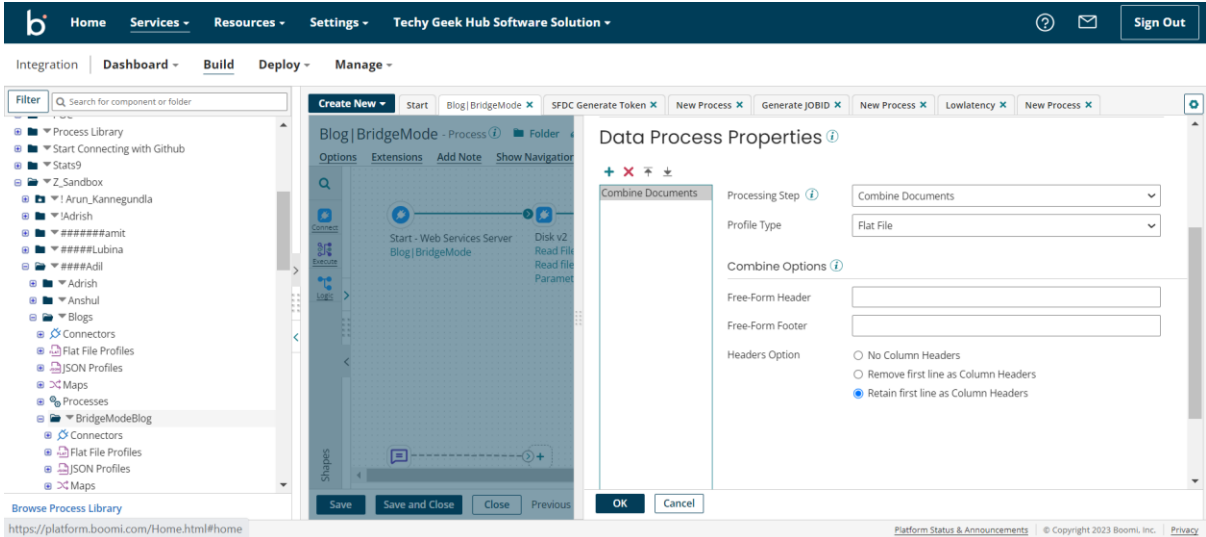
- Now we have to mapping as shown below



Step 12: After the Map shape we have to take the same Database that we have configured and after that we will use a stop shape.

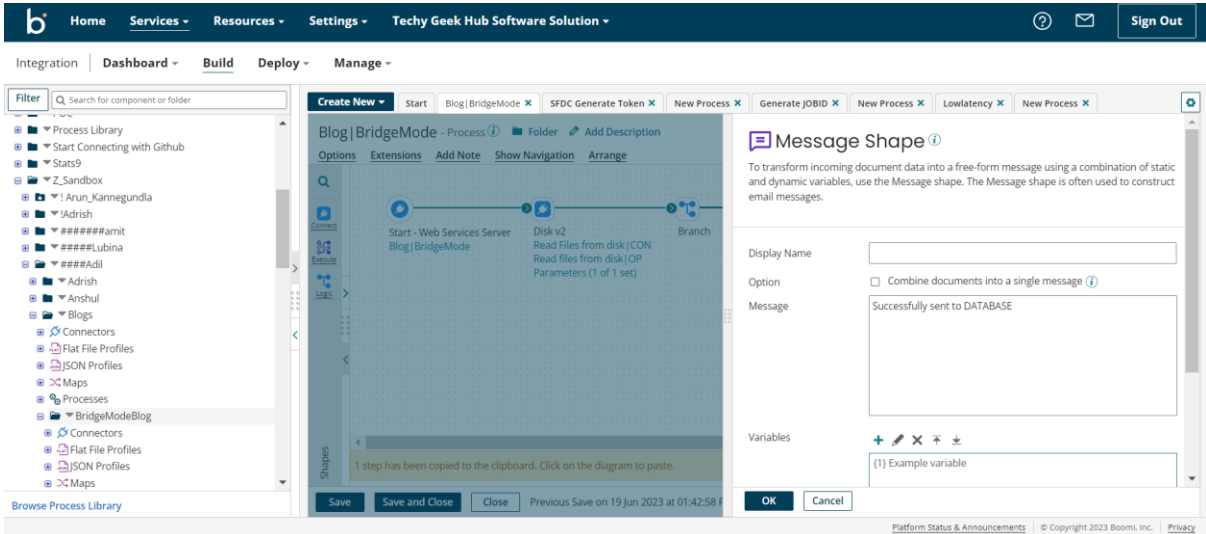


Step 13: In the next Branch we have taken the Data Process shape and combined the document that is coming from the Disk V2.



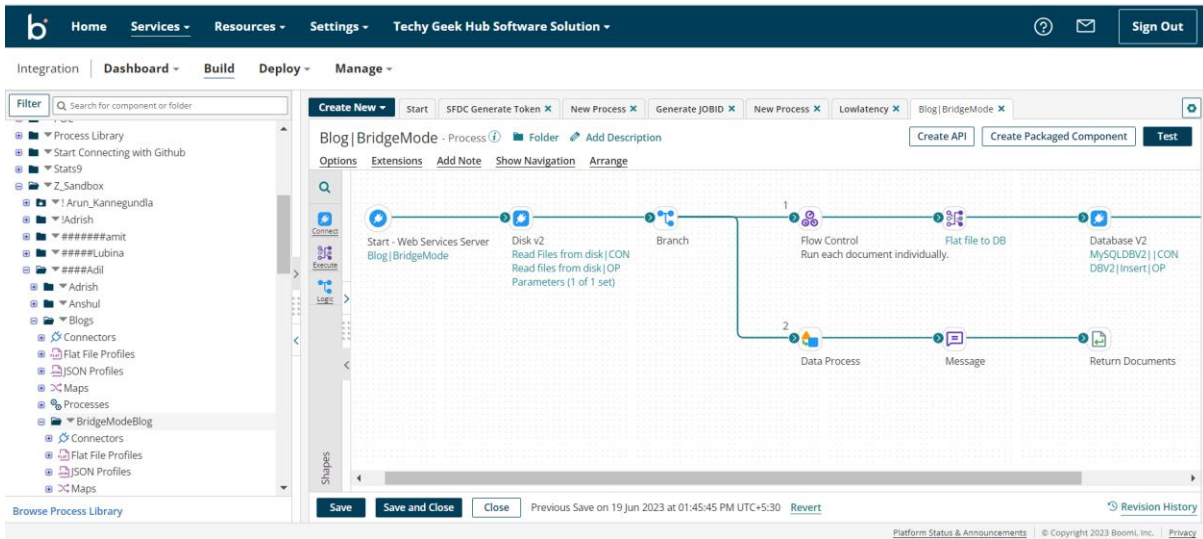
The screenshot shows the 'Data Process Properties' dialog for a 'Combine Documents' step. The 'Processing Step' is set to 'Combine Documents' and the 'Profile Type' is 'Flat File'. Under 'Combine Options', the 'Headers Option' is set to 'Retain first line as Column Headers'. The background shows a process diagram with a 'Start - Web Services Server' shape connected to a 'Disk v2 - Read File' shape.

Step 14: After Data Process Shape we have taken a message shape to generate a response message of the API.



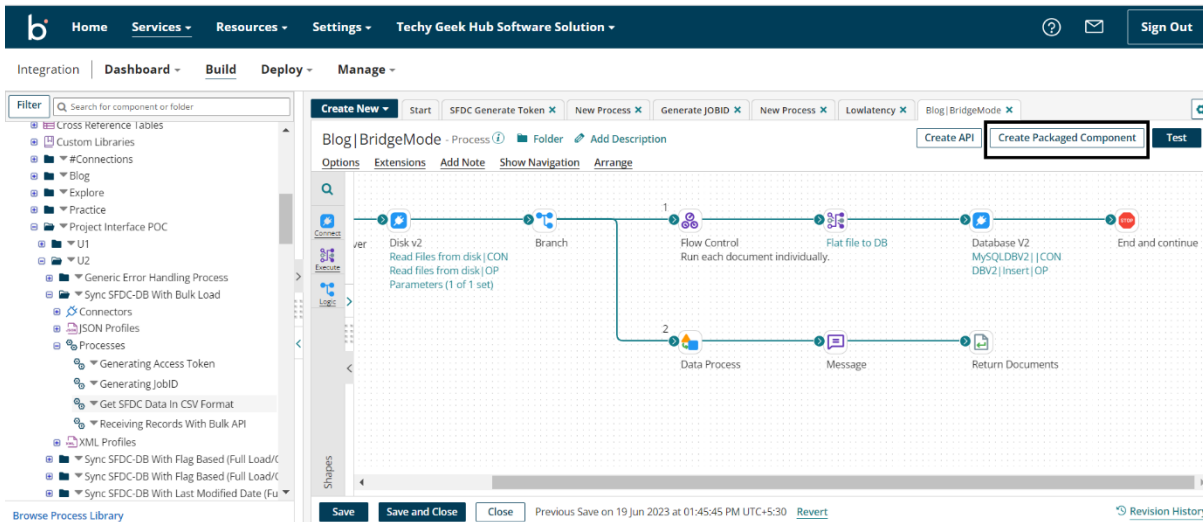
The screenshot shows the 'Message Shape' dialog. The 'Message' field contains the text 'Successfully sent to DATABASE'. The 'Option' section has 'Combine documents into a single message' checked. The 'Variables' section shows an example variable '[1] Example variable'. The background process diagram includes a 'Branch' shape.

Step 15: After the Message shape we used the Return document shape to return the response.



The screenshot shows the TGH interface with a process flow diagram for 'Blog | BridgeMode'. The flow starts with 'Start - Web Services Server', followed by 'Disk v2' (Read Files from disk | CON Read files from disk | OP Parameters (1 of 1 set)), a 'Branch' shape, a 'Flow Control' shape (Run each document individually.), 'Flat file to DB', 'Database V2' (MySQLDBV2 | CON DBV2 | Insert | OP), 'Data Process', 'Message', and finally 'Return Documents'. The 'Return Documents' shape is highlighted, indicating it is the final step in the process.

Step 16: We Created Packaged component by clicking on Create Packaged Component.



The screenshot shows the TGH interface with the same process flow diagram as in Step 15. The 'Create Packaged Component' button is highlighted with a red box, indicating the action taken to create a packaged component. The flow diagram remains the same, but the 'Return Documents' shape is no longer highlighted.



### Step 17: We click on next details.

Select one or more deployable components from the Component Explorer to create a packaged component of each selection. Although you can select multiple components to package at one time, each selected component results in its own individual version to be deployed independently. If the selected component was packaged previously, details of the latest packaged component version appear to the right.

Filter

- TGH
  - Z\_Sandbox
  - ###Adil
    - Blogs
      - BridgeModeBlog
        - Blog | BridgeMode

Actions	Component Name	Component Type	Latest Version	Latest Notes
	Blog   BridgeMode	Process	2.1	None

Previous
1-1 of 1
Next

Cancel
Next: Add Details

### Step 18: We Click on Create Package component.

Optionally apply details to the newest version of your packaged components. When you have multiple packaged components selected at one time, the details you specify are applied in bulk to all selected components, though each selected component results in its own individual version.

Component Name	Latest Version	Latest Notes	Action
Blog   BridgeMode	2.1	None	<a href="#">View Included Components</a>

Version for all

If you do not supply a name, a version number is automatically generated for each individual packaged component, and increments based on the latest version number.

Package Notes for All

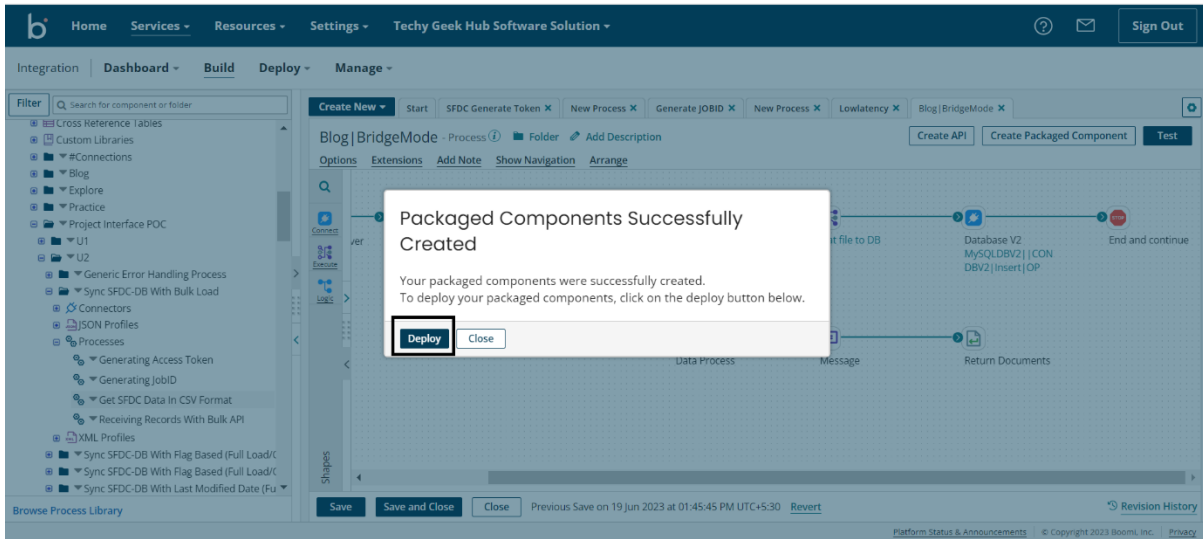
4000 characters remaining.

Sharing (i)

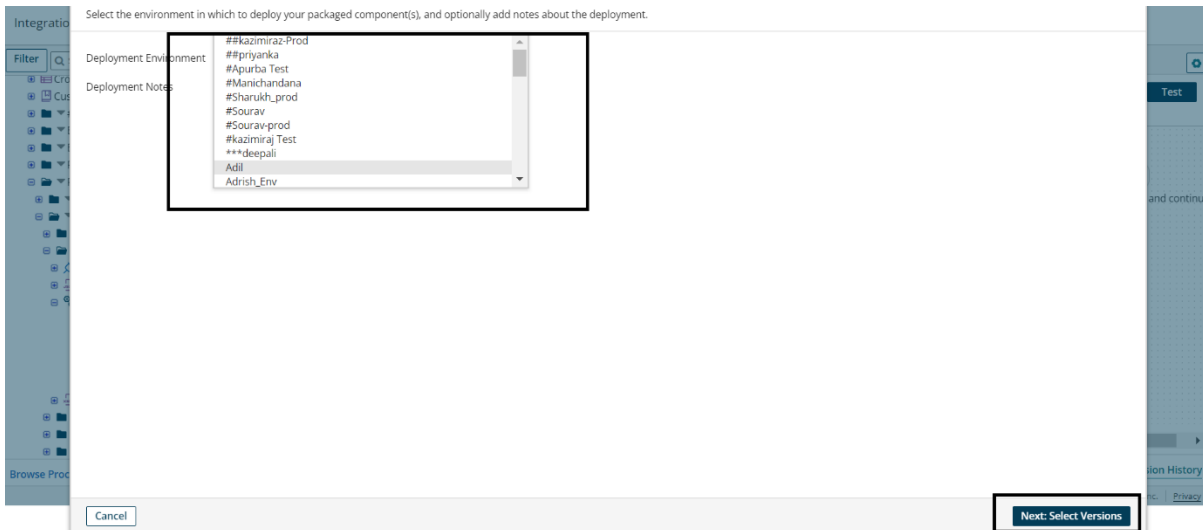
Not Allowed  
 Allowed with Sub-Accounts  
This setting is ignored for components that cannot be shared.

Cancel
Back: Select Components
Create Packaged Component (1)

Step 19: After that we get a Pop-up to deploy the Process and we have to click on deploy..



Step 20: After that we have to Select an environment where our atom is attached and click on next select version.



### Step 21: After that we have to click on next review.

Environment: Adil | Deployment Notes:  
 Select one or more packaged components from the Component Explorer. By default, the latest version of each packaged component is selected. Packaged components can be created from the [Packaged Components](#) page. You can deploy a maximum of 250 packaged components at one time.

Filter	Actions	Name	Type	Selected Version	Deployed Version
<input checked="" type="checkbox"/> TGH <input checked="" type="checkbox"/> Z_Sandbox <input checked="" type="checkbox"/> ###Adil <input checked="" type="checkbox"/> Blogs <input checked="" type="checkbox"/> BridgeModeBlog <input checked="" type="checkbox"/> Blog   BridgeMode		Blog   BridgeMode	Process	1.11 <a href="#">View details</a>   <a href="#">Select different package</a>	2.1 <a href="#">View details</a>

Buttons: Cancel, Back: Select Environment, **Next: Review**

### Step 22: After that we have to click on next review.

You're almost done! Before deploying this version of your packaged component, confirm that the destination environment you have selected is correct.

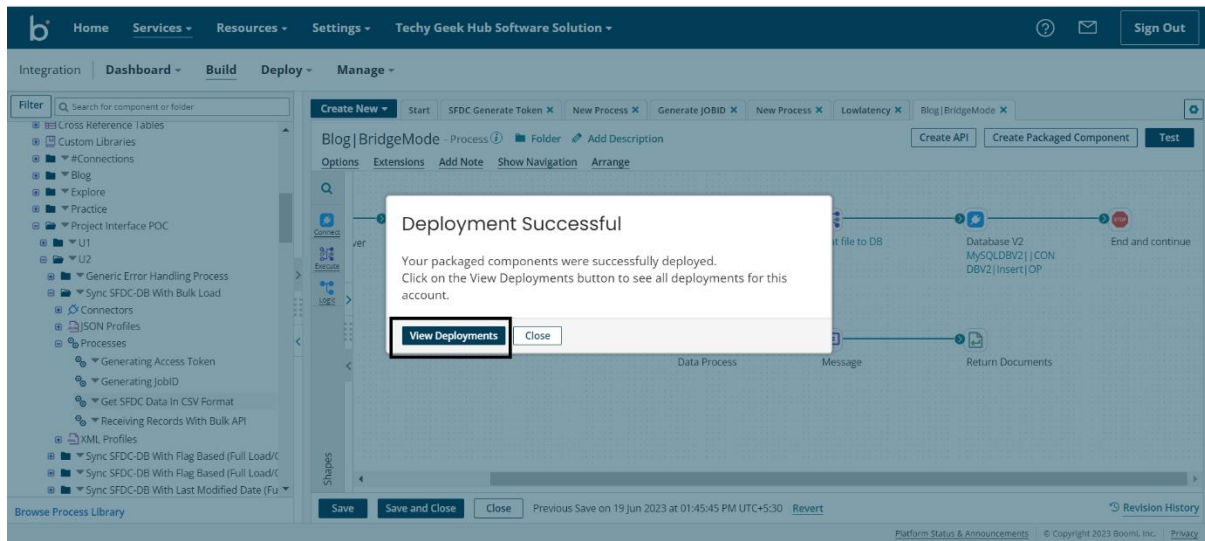
Environment: Adil  
 Deployment Notes:

Name	Type	Selected Version	Deployed Version	Duplicate (i)
Blog   BridgeMode	Process	1.11	2.1	—

Navigation: < Previous, 1-1 of 1, Next >

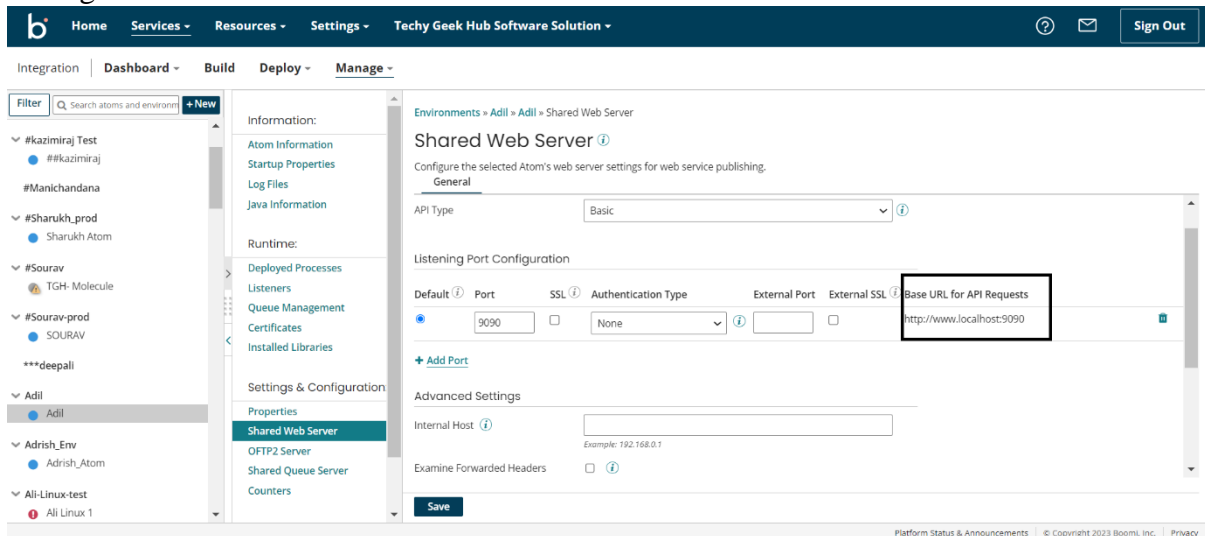
Buttons: Cancel, Back: Select Versions, **Deploy**

Step 23: After clicking on view deployment we can see our deployed process.

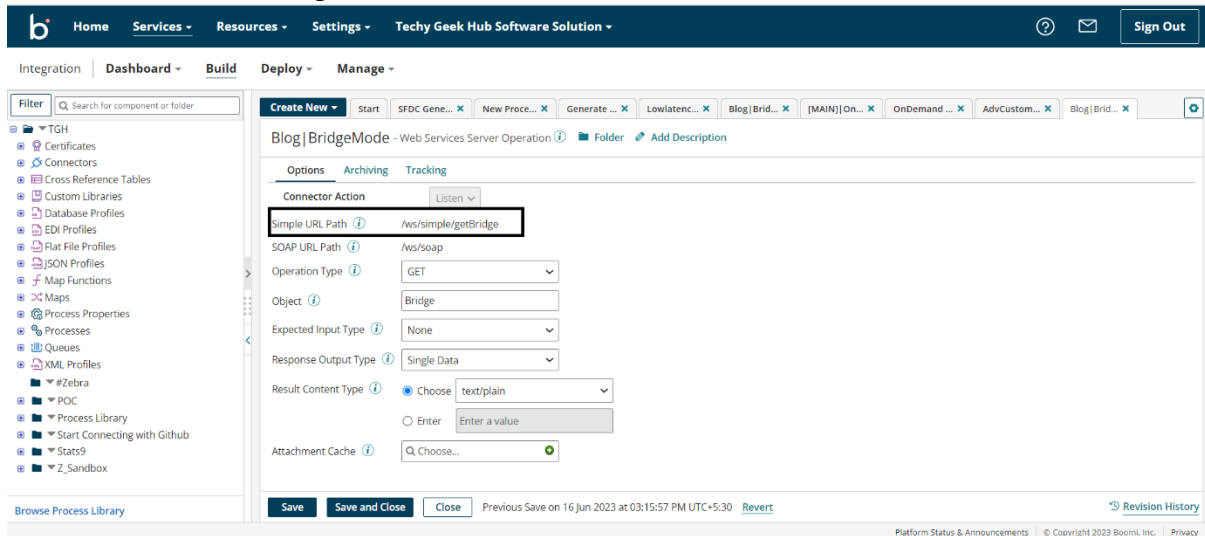


Step 24: As we have exposed an API we have to test it in Postman using.

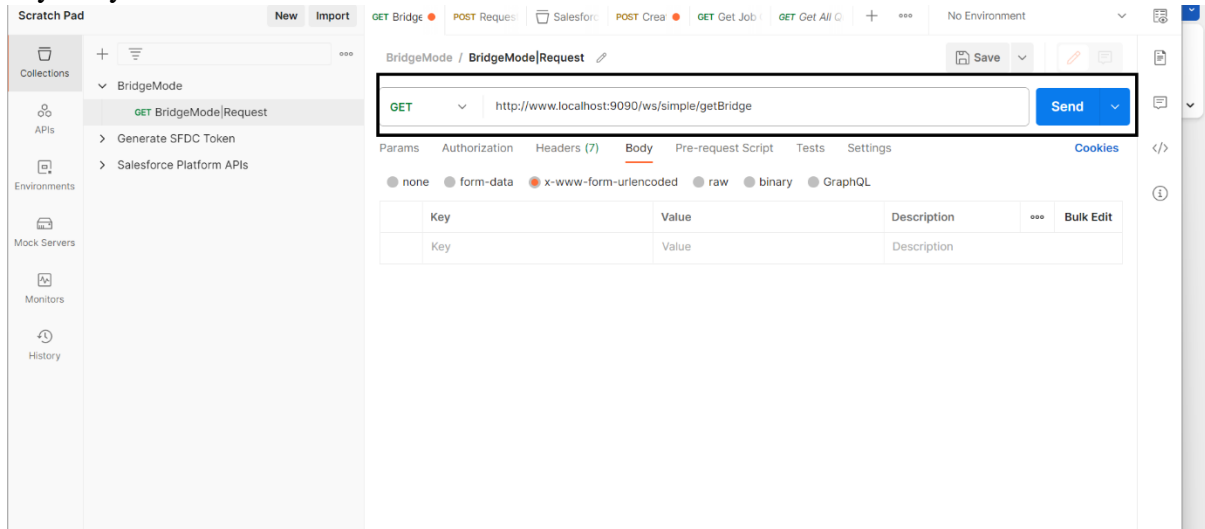
>>For testing it in Postman we need the Base URL, We will get base url from Manage>Atom Management>Shared Web Server



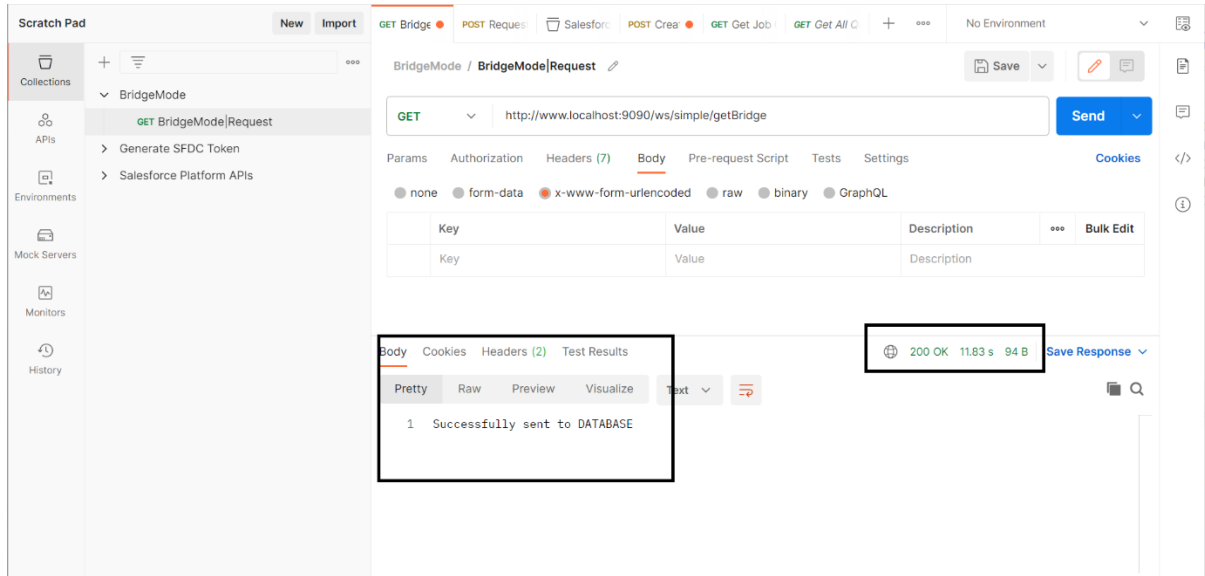
>> Then we have to concat the Base URL with the Simple URL path which we will find in the web service server operation.



>> Now we have to go to Postman to test our API and paste the concatenated URL inside the newly created request and click on Send and As the Http verb is Get we don't have to send any body.



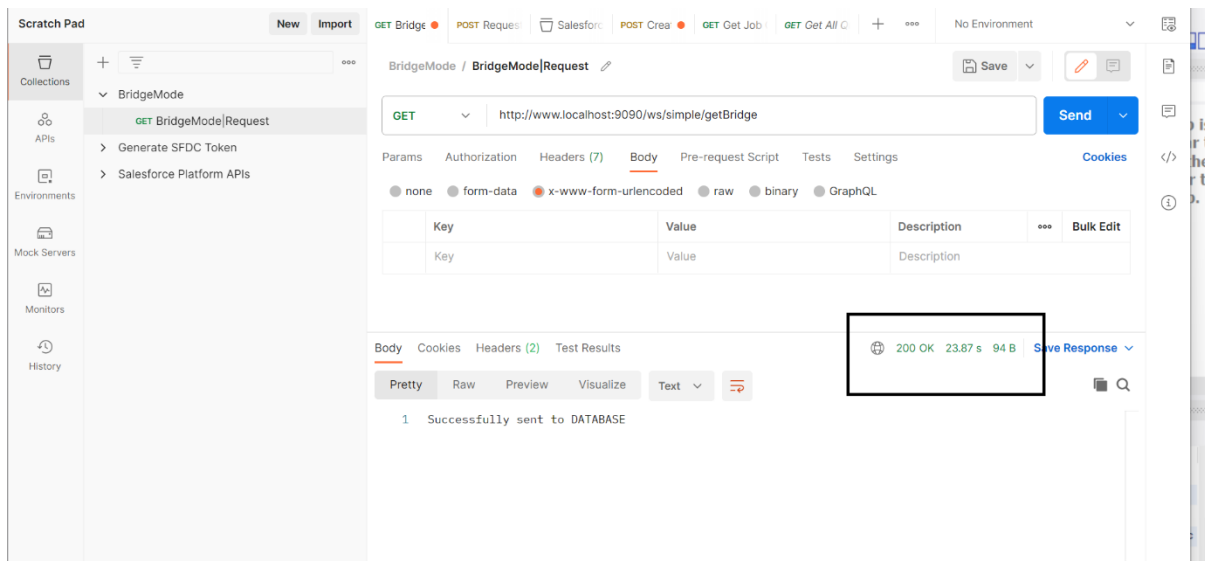
Step 25: We will get the response back in Postman and we can see the Response status code and Response time and the Response message too.



For this process which is deployed in bridge mode we can see the Response time taken to execute this process is 12 seconds.

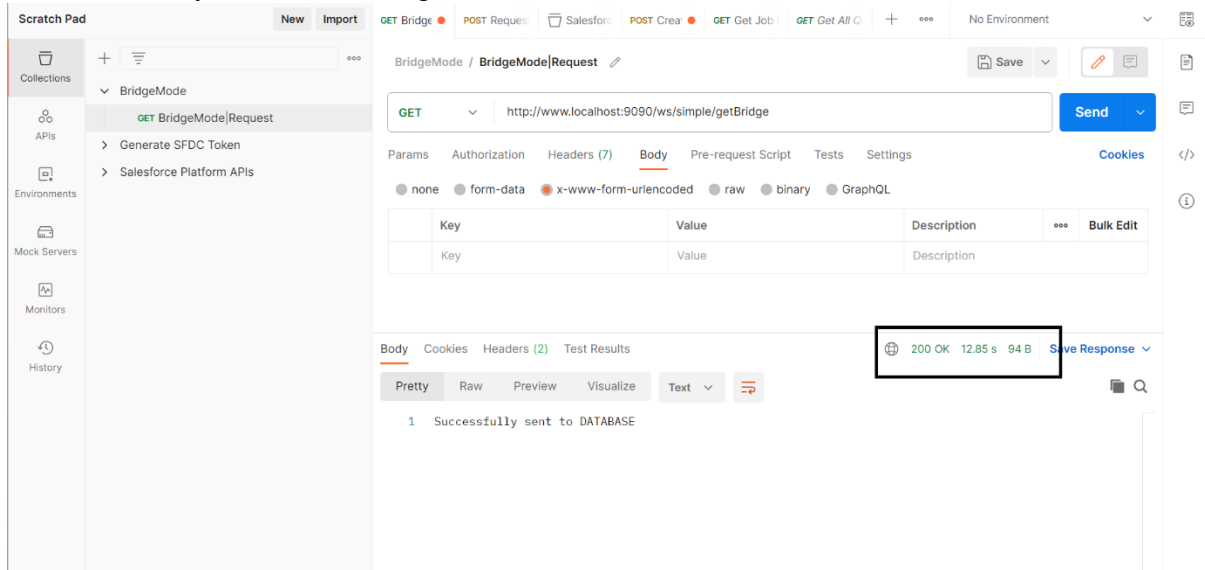
For the same process when it is deployed in general mode and low latency let us see the Response time.

For general mode it is taking around 24 seconds:

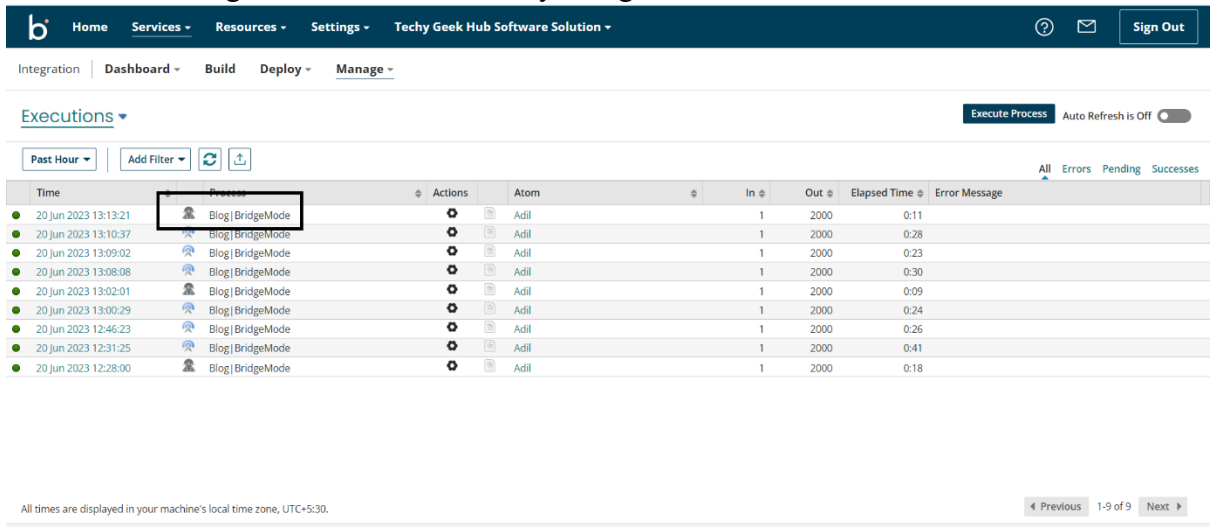




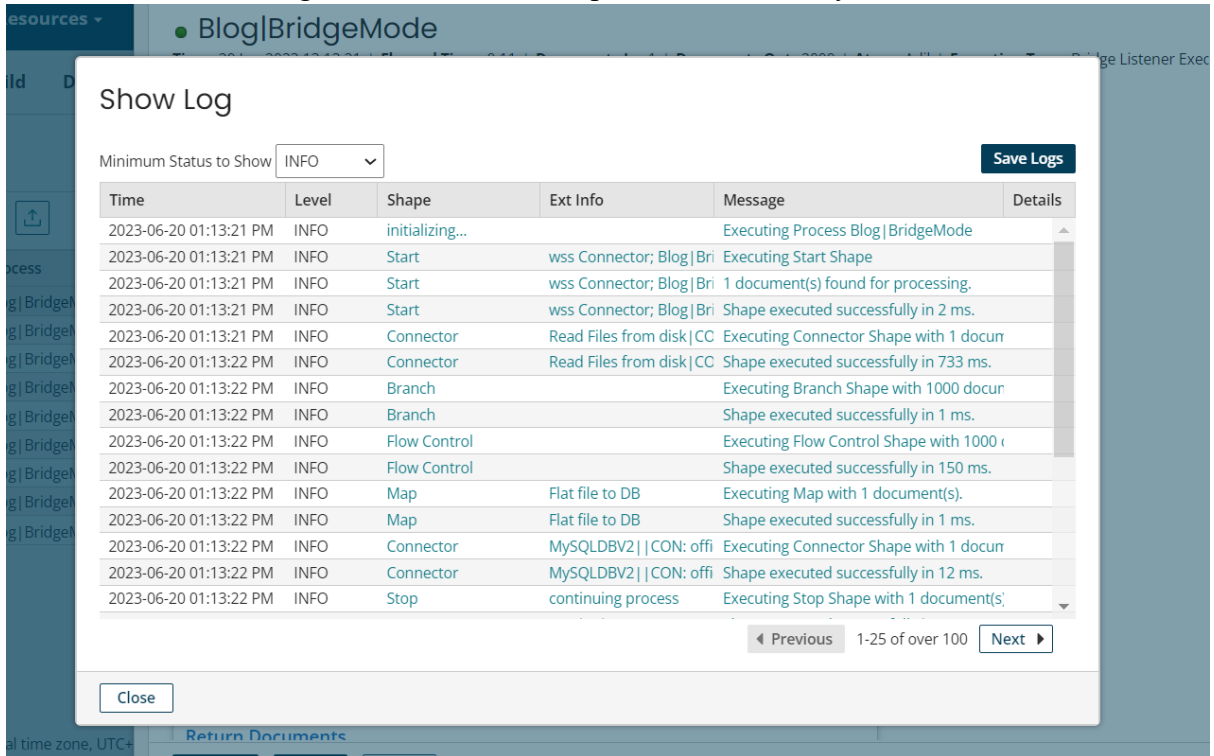
For low-latency mode it is taking around 13 seconds:



- In Bridge Mode we can see the process in Process Reporting and the logo is also different for Bridge Mode so we can easily recognize it



- We can see Process Logs in this mode as compared to low latency mode

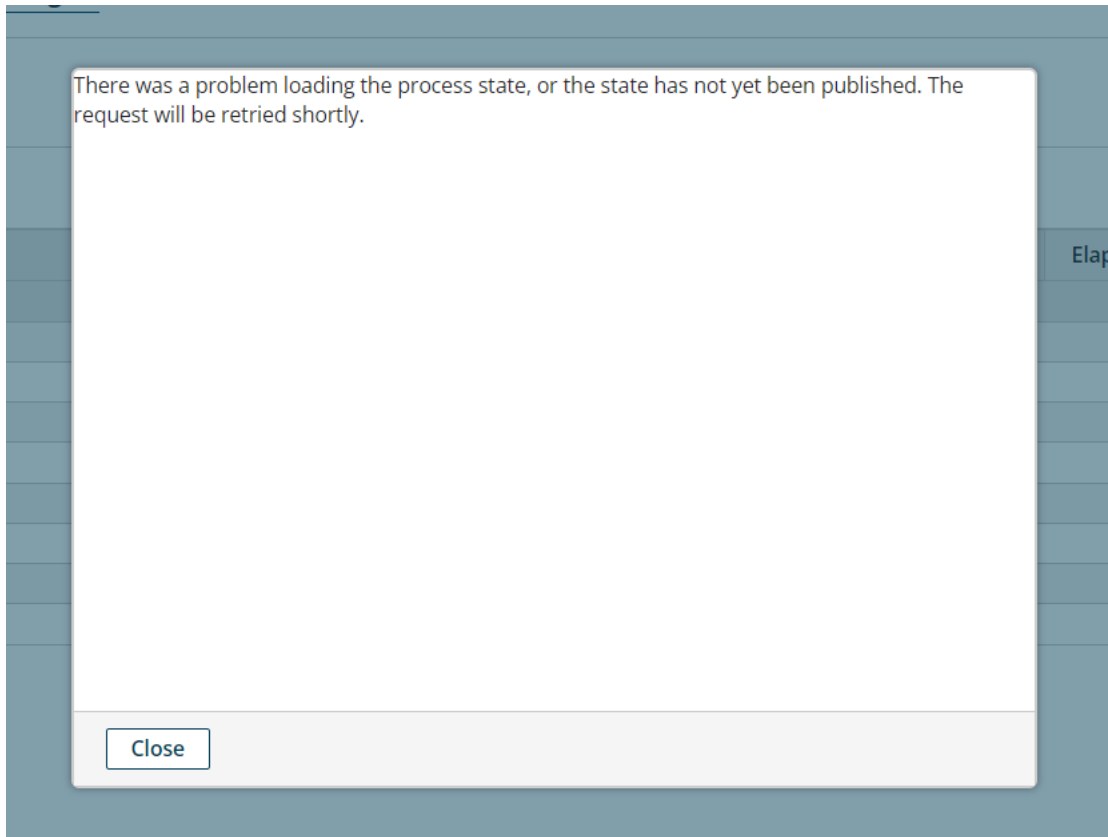


Minimum Status to Show: INFO

Time	Level	Shape	Ext Info	Message	Details
2023-06-20 01:13:21 PM	INFO	initializing...		Executing Process Blog BridgeMode	
2023-06-20 01:13:21 PM	INFO	Start	wss Connector; Blog Bri	Executing Start Shape	
2023-06-20 01:13:21 PM	INFO	Start	wss Connector; Blog Bri	1 document(s) found for processing.	
2023-06-20 01:13:21 PM	INFO	Start	wss Connector; Blog Bri	Shape executed successfully in 2 ms.	
2023-06-20 01:13:21 PM	INFO	Connector	Read Files from disk CC	Executing Connector Shape with 1 docum	
2023-06-20 01:13:22 PM	INFO	Connector	Read Files from disk CC	Shape executed successfully in 733 ms.	
2023-06-20 01:13:22 PM	INFO	Branch		Executing Branch Shape with 1000 docur	
2023-06-20 01:13:22 PM	INFO	Branch		Shape executed successfully in 1 ms.	
2023-06-20 01:13:22 PM	INFO	Flow Control		Executing Flow Control Shape with 1000 c	
2023-06-20 01:13:22 PM	INFO	Flow Control		Shape executed successfully in 150 ms.	
2023-06-20 01:13:22 PM	INFO	Map	Flat file to DB	Executing Map with 1 document(s).	
2023-06-20 01:13:22 PM	INFO	Map	Flat file to DB	Shape executed successfully in 1 ms.	
2023-06-20 01:13:22 PM	INFO	Connector	MySQLDBV2   CON: offi	Executing Connector Shape with 1 docum	
2023-06-20 01:13:22 PM	INFO	Connector	MySQLDBV2   CON: offi	Shape executed successfully in 12 ms.	
2023-06-20 01:13:22 PM	INFO	Stop	continuing process	Executing Stop Shape with 1 document(s)	

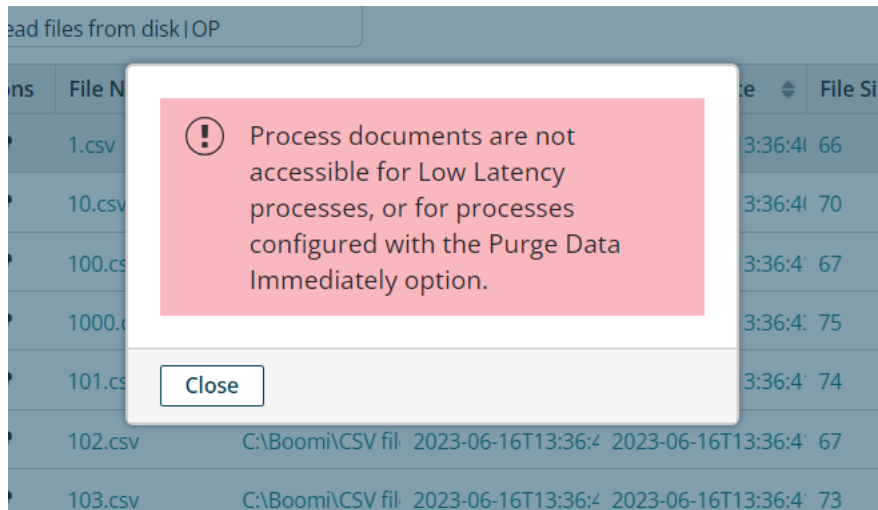
1-25 of over 100

- We cannot see the Process state



There was a problem loading the process state, or the state has not yet been published. The request will be retried shortly.

- We cannot see the in bound and out bound documents it will throw a pop-up like this



- We cannot Re-Run the documents in Test Mode
- We cannot see the Process Report Summary of the Process Deployed in Bridge Mode.



# TGH

Making Integrations Simpler



## TGH Software Solutions Pvt. Ltd.

[www.techygeekhub.com](http://www.techygeekhub.com)

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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