



TGH

Making Integrations Simpler

boomi
Partner



XML TO PDF Conversion



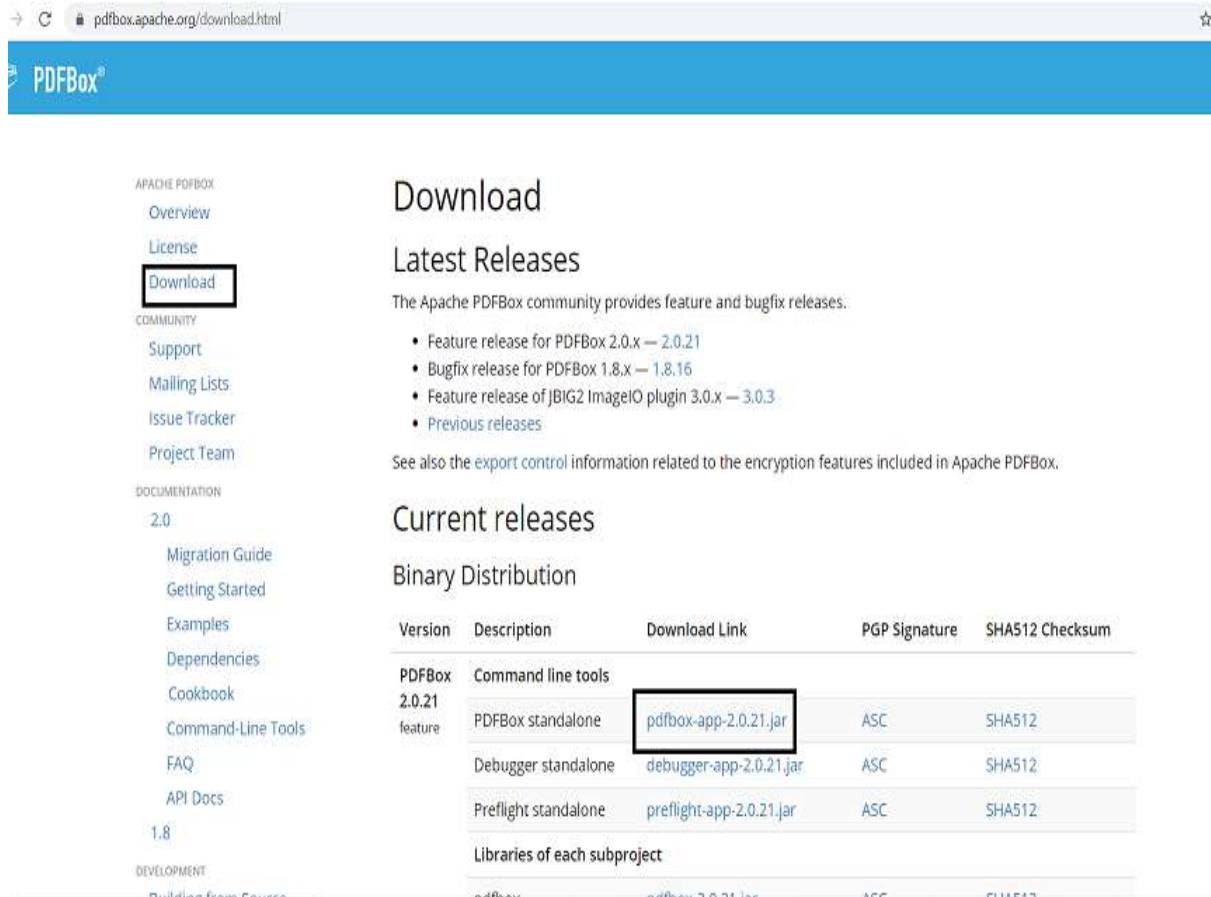
XML to PDF Conversion

In this blog, we will develop a process which will convert XML into PDF in Dell Boomi.

Boomi does not support PDF conversion directly, but we can do it by importing PDF libraries and using custom scripting to convert documents into PDF Format.

First, let us see how to import PDF Libraries and deploy them to the atom. In this Use Case, we are importing two PDF libraries i.e. Apache PDFBox and iText.

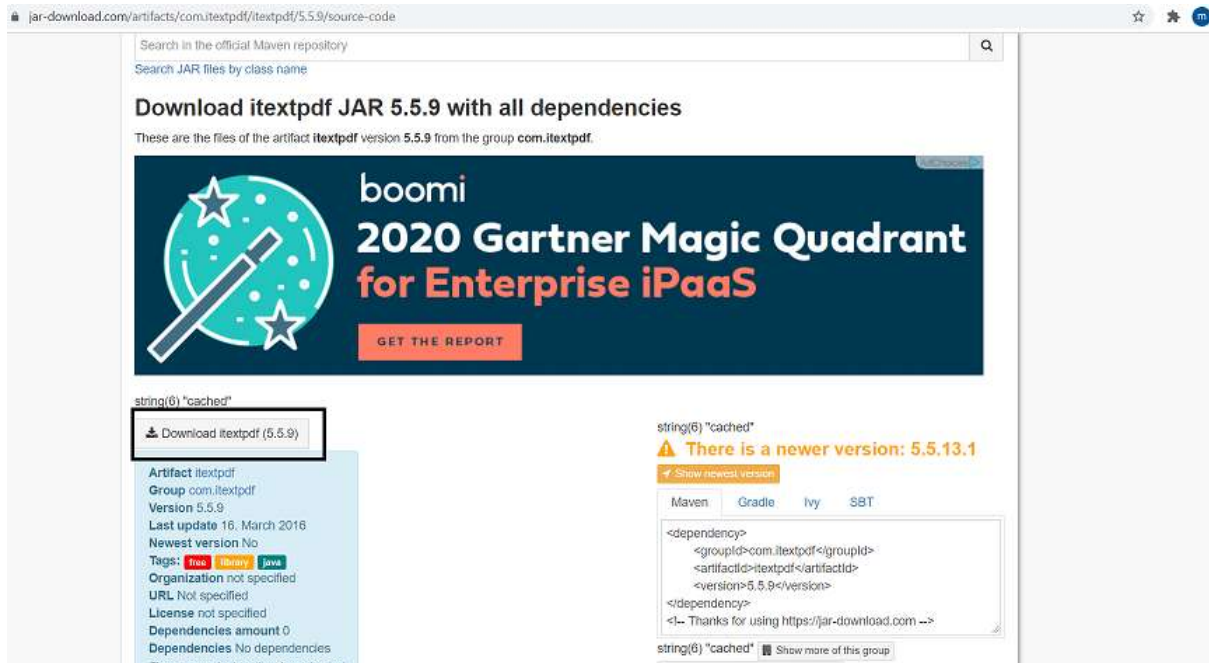
Step 1: To import the Apache PDFBox library, go to <https://pdfbox.apache.org/> > Download and choose the jar as shown. The jar gets downloaded.



The screenshot shows the Apache PDFBox download page. The 'Download' link in the left sidebar is highlighted with a red box. The main content area shows the 'Download' section with 'Latest Releases' and 'Current releases' sections. The 'Binary Distribution' table is visible, with the 'pdfbox-app-2.0.21.jar' link highlighted by a red box.

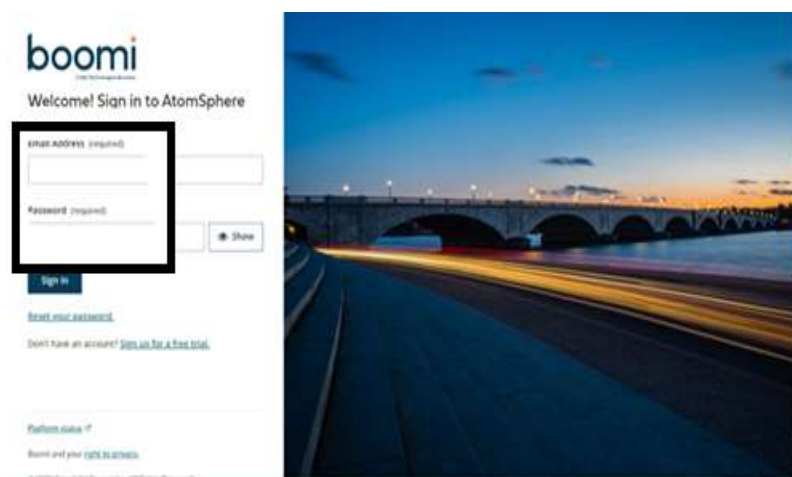
Version	Description	Download Link	PGP Signature	SHA512 Checksum
PDFBox 2.0.21 feature	Command line tools			
	PDFBox standalone	pdfbox-app-2.0.21.jar	ASC	SHA512
	Debugger standalone	debugger-app-2.0.21.jar	ASC	SHA512
	Preflight standalone	preflight-app-2.0.21.jar	ASC	SHA512
Libraries of each subproject				
	pdfbox	pdfbox-2.0.21.jar	ASC	SHA512

Step 2: To import the iText library, go to <https://jardownload.com/artifacts/com.itextpdf/itextpdf/5.5.9/source-code> and choose the jar as shown. Once we choose it, the jar gets downloaded.

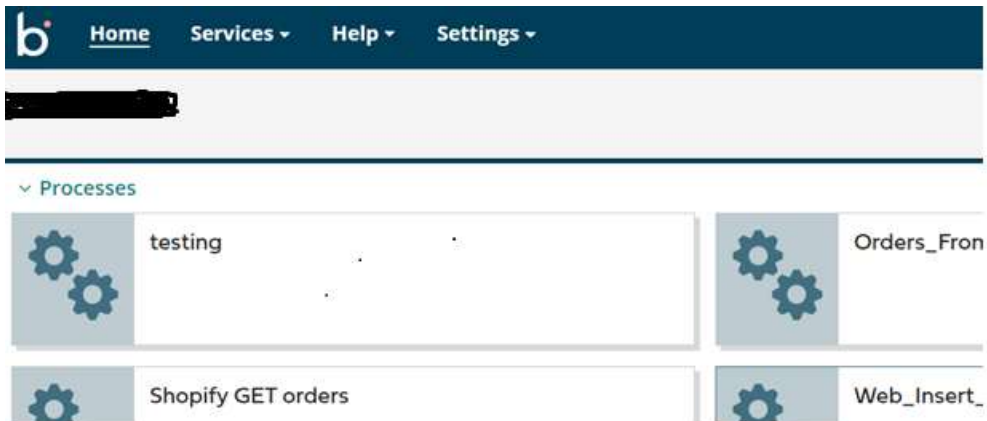


Now, we will upload the downloaded jar files in the Account Library to the Boomi Account.

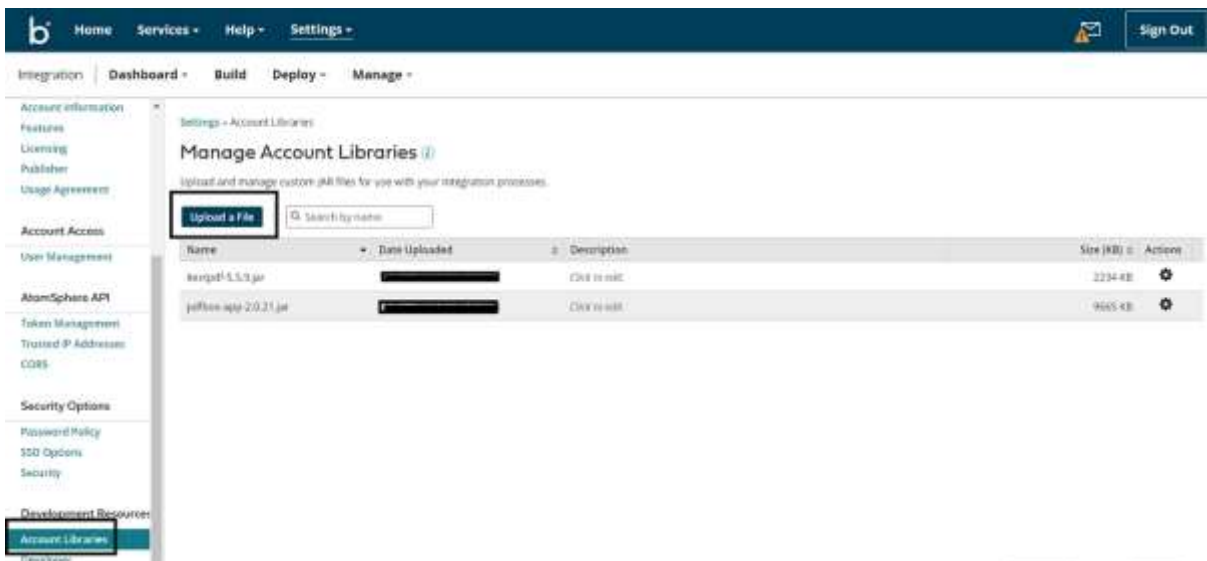
Step 1: Log on to the Boomi platform (<https://platform.boomi.com/>) with the required credentials i.e. Email Address and Password.



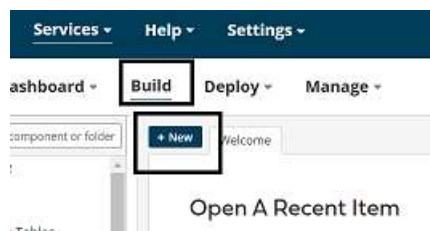
Step 2: Once logged into the Boomi platform, we will be able to view the Home page.



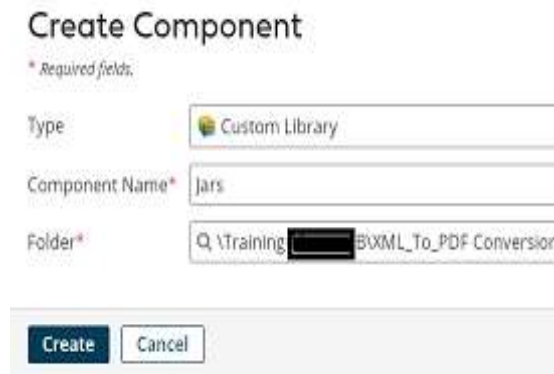
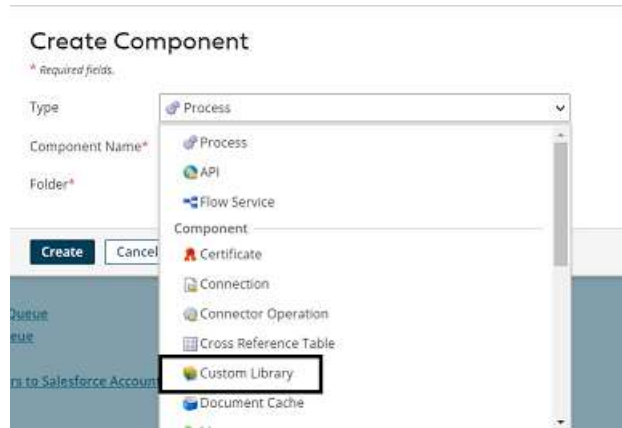
Step 3: Go to Settings > Account Information and Setup > Account Libraries and upload the jar files which we have downloaded by choosing Upload a File.



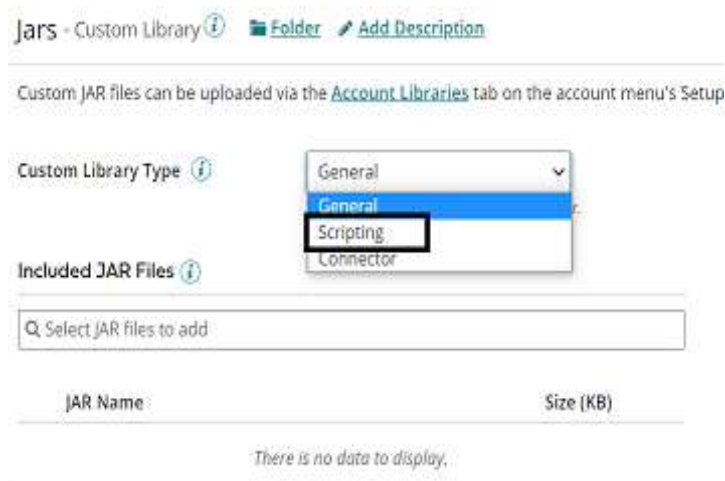
Step 4: Now, create a custom library component and add the uploaded JAR files in the account library to the component. Navigate to the Build tab and click on New as shown.



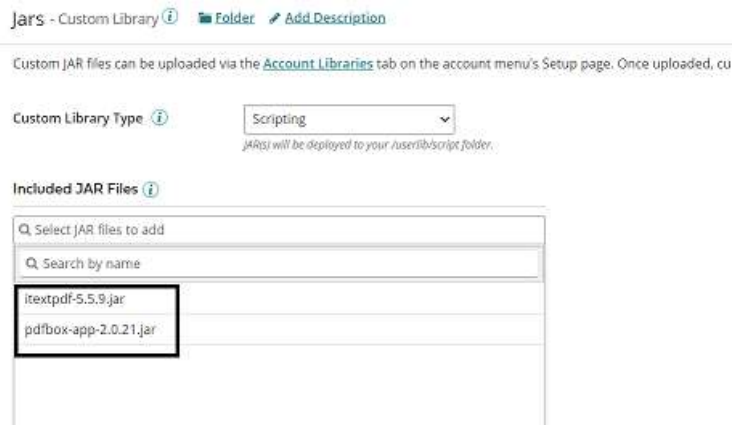
Step 5: Choose Type as Custom Library. Component Name and Folder can be given based on your choice. Click on Create.



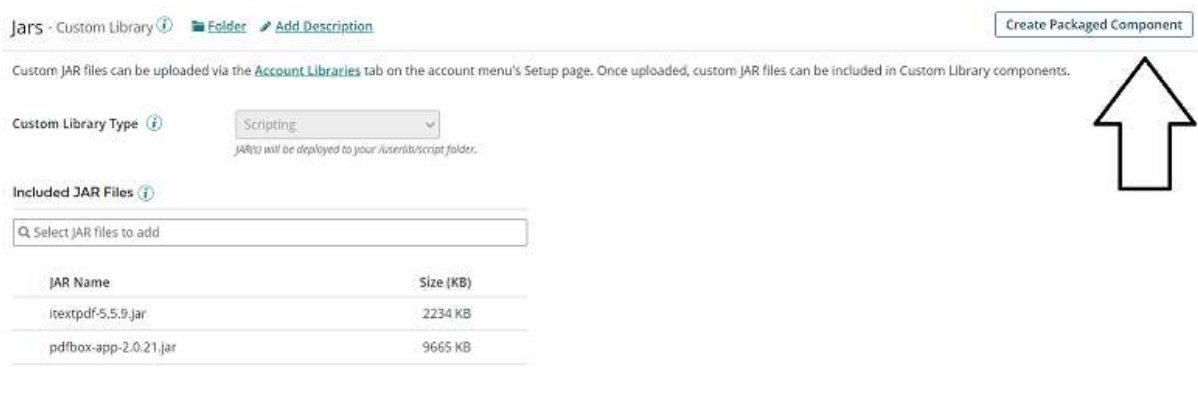
Step 6: Choose Custom Library Type as Scripting from the drop down and these jars will be available for scripting.



- Select Jars which we have uploaded in Account Library. Click save.



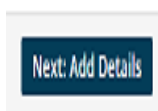
Step 7: Deploy the Custom Library component to an atom because these are not explicitly referenced by a process or any other component, we must deploy them independently. Click on Create Packaged Component.



Step 8: The process gets selected automatically. Click Add Details.

Create Packaged Components: Select Components

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 selection 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.



- Next, select the version and write notes if you have any. Click on Create Packaged Component.

Create Packaged Components: Add Details

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

Version for all 

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

Package Notes for All 

4000 characters remaining.

Sharing  Allow Processes and APIs to be publicly shared to subaccounts.
This setting is ignored for components that cannot be shared.

Create Packaged Component (1)

- Now, we see that the package has been created successfully and click on deploy.



- We will then have to select the environment. Choose production and click select version and review.

Deploy: Select Environment

Select the environment in which to deploy your packaged component(s), and optionally add notes about the deployment.

Deployment Environment

Deployment Notes

4000 characters remaining.

API Production
Test
production

Deploy: Select Environment

Select the environment in which to deploy your packaged component(s), and optionally add notes about the deployment.

Deployment Environment

Deployment Notes **choose production**

4000 characters remaining.

API Production
production

Next: Select Versions

Next: Review

- We will be asked to cross-check the environment which we have configured in the deployment tab.

Deploy: Review

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

Environment: production
 Deployment Notes:

Name	Type	Selected Version	Deployed Version	Duplicate
Jars	Custom Library	1.0	N/A	—

- Once, we click on deploy we will be able to see that deployment is done successfully. Click save and close.

Deployment Successful

Your packaged components were successfully deployed. Click on the View Deployments button to see all deployments for this account.

View Deployments

Close

Now, we will create a process which reads JSON data from the Disk directory and converts it into XML. Then, XML data will be covered in PDF Format using scripting.

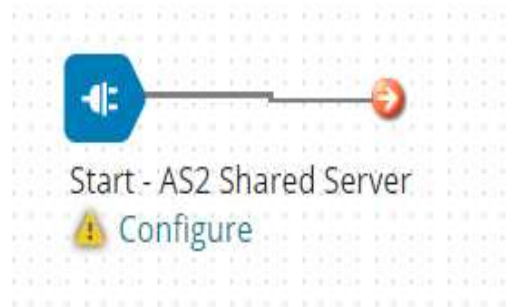
Step 9: Click on New to create a process. we will be able to see three fields i.e. Type, Component Name and Folder.



- Select Type as process as we are building a process. Component Name and Folder can be given based on your choice (i.e. which name to be given and where do we want to create the process). Click on Create.

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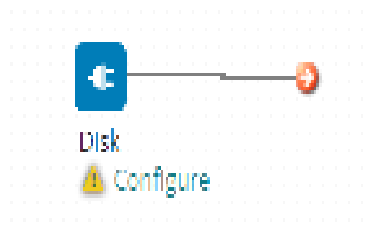
Step 10: We see that the process gets created with a start shape which is configured with AS2 Shared Server by default.



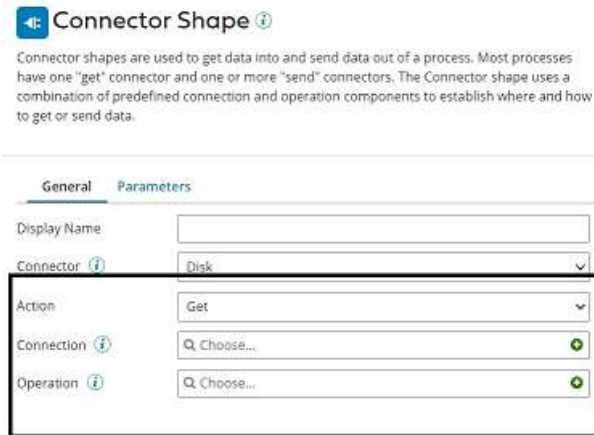
Step 11: Select the start shape and choose No Data. Click ok.



Step 12: Drag and drop the disk connector shape onto the process canvas to read a file from a specific directory.



- We have to configure 3 fields in connector i.e. Action, Connector and Operation.



Connector Shape ⓘ

Connector shapes are used to get data into and send data out of a process. Most processes have one "get" connector and one or more "send" connectors. The Connector shape uses a combination of predefined connection and operation components to establish where and how to get or send data.

General Parameters

Display Name

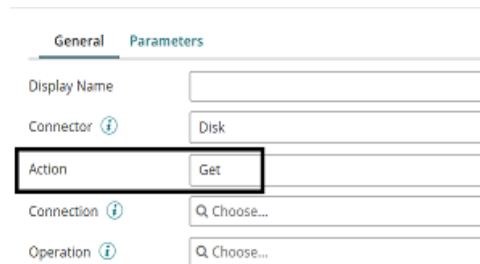
Connector ⓘ

Action

Connection ⓘ

Operation ⓘ

- We see 2 actions i.e. Get and Send in Actions.
Get – To get the data from a disk location.
Send – To send to the disk location.
- Here, we will choose action as **GET** as we are reading the file.



General Parameters

Display Name

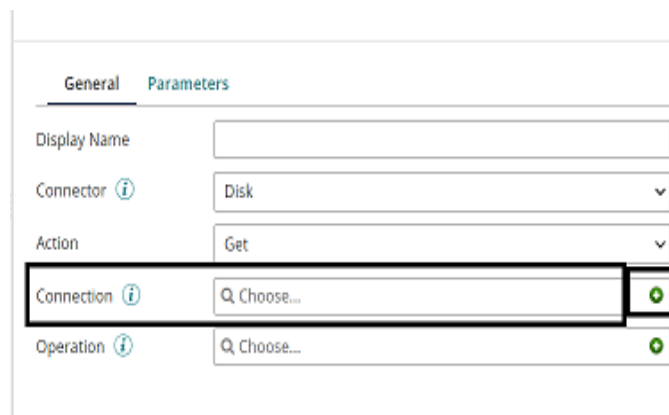
Connector ⓘ

Action

Connection ⓘ

Operation ⓘ

- Click + on connection to create a new one.



General Parameters

Display Name

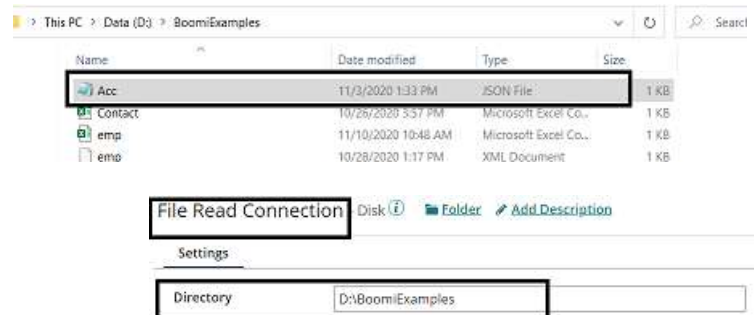
Connector ⓘ

Action

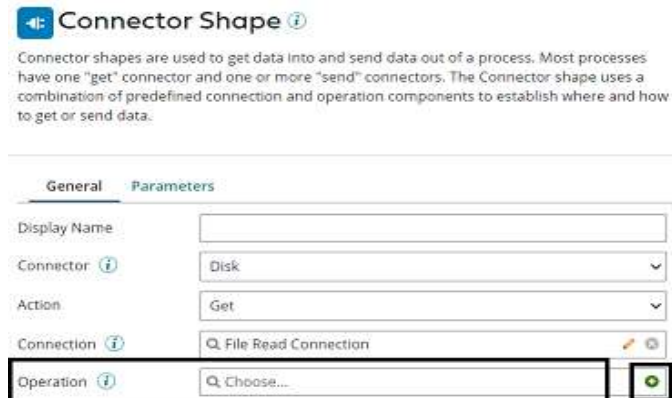
Connection ⓘ

Operation ⓘ

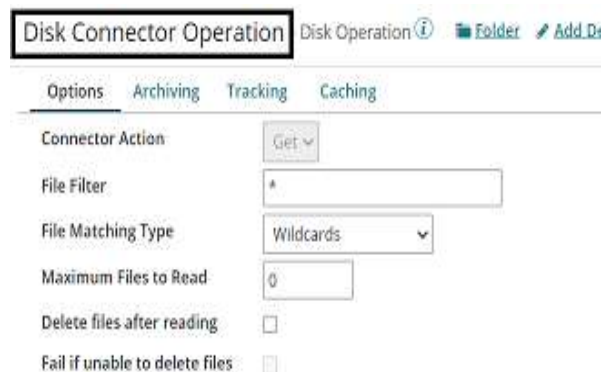
- Name the file and give the directory from where we want to read the file. Here, we are reading JSON files from D drive and Boomi Examples folder as shown in the screenshot.



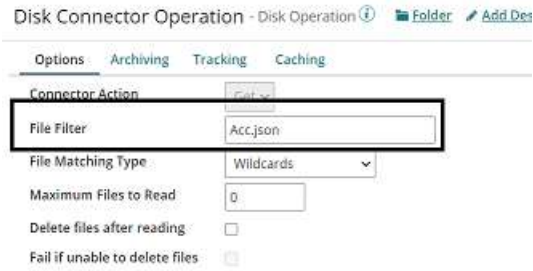
- Click save and close
- Now, we will configure the operation. Click + on operation to create a new one.



- Name the operation and configure the following.

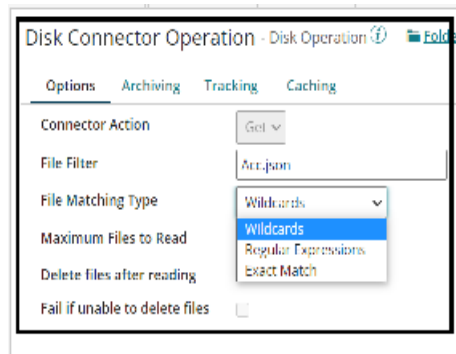


- **File Filter:** Read-only files with a file name that matches the file filter. Here, it will be **Acc.json**

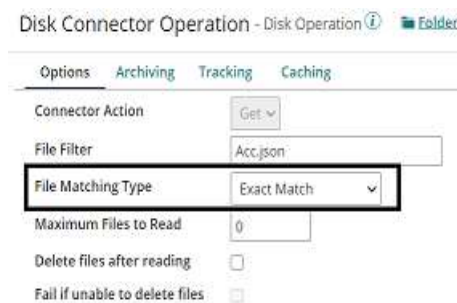


File Matching Type:

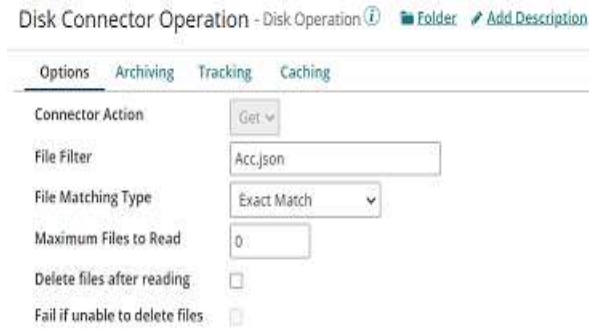
- **Wildcards** uses simple file filters like * and . * represent multiple characters and ? represents a single character.
- **Regular Expressions** can include complex regular expressions.
- **Exact Match** includes the filename that we are reading.



- Here, the file matching type would be **Exact Match** as we are giving the file name.



- **Maximum files to read:** It sets the maximum number of files to be read at one time. Let it be default.
- **Delete files after reading:** If we want the file to be read and deleted, we can check this option. Here, we are leaving it to default. Click save and close
- The complete disk operation looks like this,



Disk Connector Operation - Disk Operation ⓘ Folder Add Description

Options Archiving Tracking Caching

Connector Action: Get ▾

File Filter: Acc.json

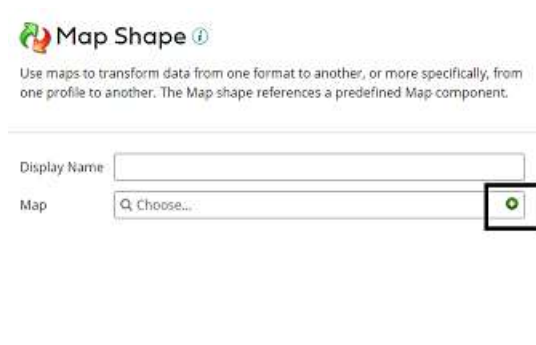
File Matching Type: Exact Match ▾

Maximum Files to Read: 0

Delete files after reading:

Fail if unable to delete files:

Step 13: Drag and drop the Map shape onto the process canvas. Click + and Name the map.



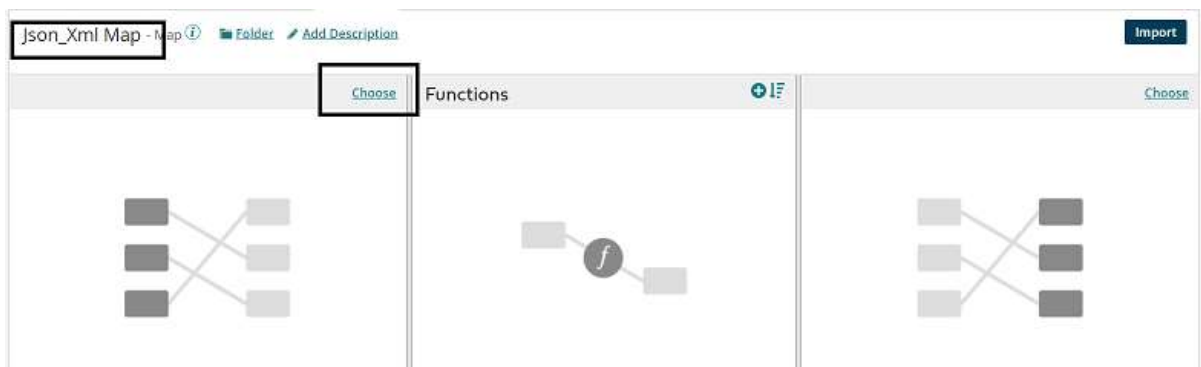
Map Shape ⓘ

Use maps to transform data from one format to another, or more specifically, from one profile to another. The Map shape references a predefined Map component.

Display Name:

Map: +

- Add source side and Destination side profiles to the map. Here, the source side would be the JSON profile and the Destination side would be the XML profile. First, we will add a Source profile. Click choose and select the folder where we saved the profile.



- Here, the Profile Type will be JSON and click on Create New Profile.



- Name the profile and click on import. In this example, we used the below file as an input.



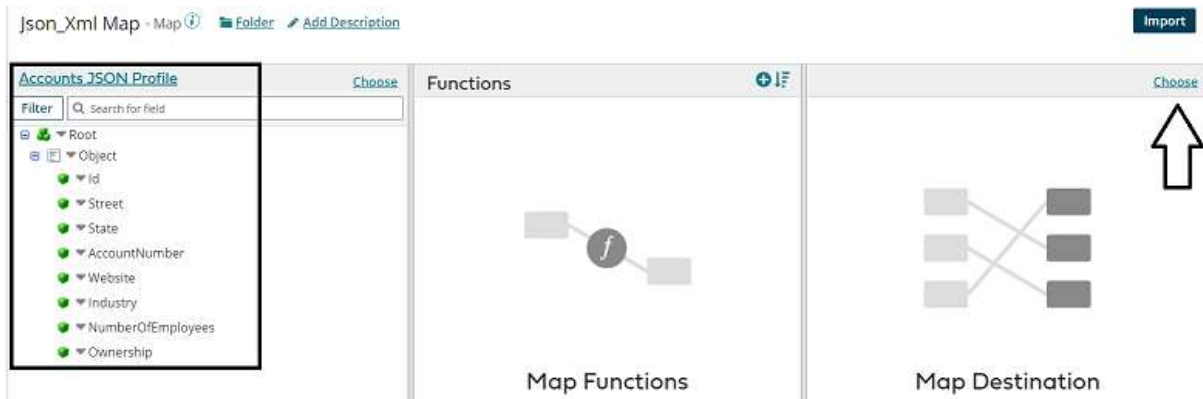
- Choose the file from the directory where we have saved the file. Click on Next.



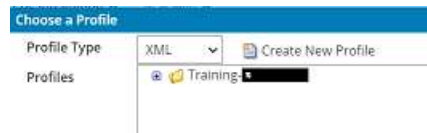
- We see that the profile is imported.



Step 14: Now, add the destination profile. Click choose on the right side as shown.

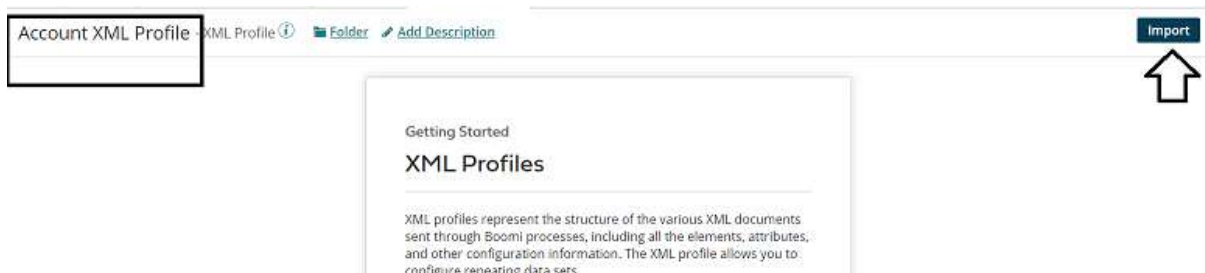


- Select Profile Type as XML and click on Create New Profile.

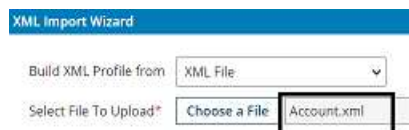


- Name the profile and click on import. In this example, we used the below file as an input.

Account.xml



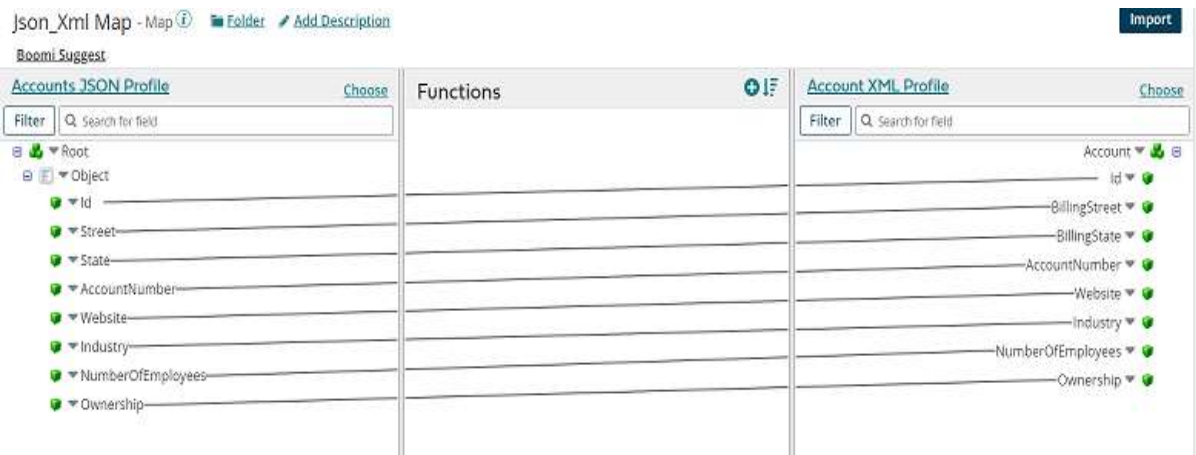
- Choose a file from the directory where we saved it. Click Next.



- We see that the profile has been imported. Click finish, save and close.



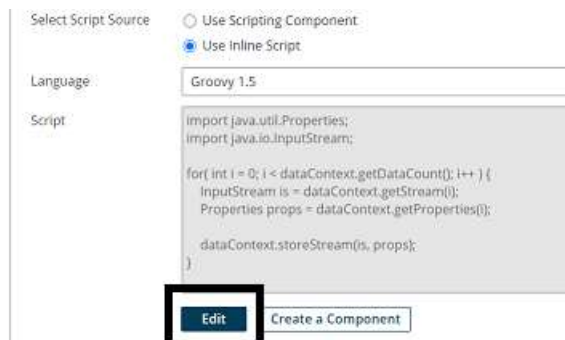
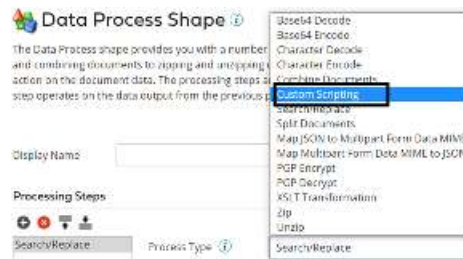
- We see that source and destination profiles have been imported. Provide one-to-one mapping from source to destination. Click save and close.



Step 15: To write a Groovy Script, drag and drop the data process shape onto the process canvas and click on + as shown.



- Choose Process Type as custom scripting from the drop-down. Click on edit.



Step 16: We will be able to see the command prompt as shown in the screenshot.



Step 17: Now, we will write a groovy script to convert XML into PDF Format as shown below.

```

import java.util.Properties;
import java.io.InputStream;
import java.io.FileOutputStream;
import com.itextpdf.text.Document;
import com.itextpdf.text.Paragraph;
import com.itextpdf.text.pdf.PdfWriter;
for( int i = 0; i < dataContext.getDataCount(); i++ )
{
  InputStream is = dataContext.getStream(i);
  Properties props = dataContext.getProperties(i);
  String Data = is.text;
  OutputStream file = new FileOutputStream(new File("D:/BoomiExamples", "sample.pdf"));
  Document document = new Document();
  PdfWriter.getInstance(document, file);
  document.open();
  document.add(new Paragraph(Data));
  // document.add(new Paragraph(is.toString()));
  document.close();
  file.close();
}

```

importing PDF and itext libraries

storing the text in local variable named Data

In this step, we are defining name of the file as "sample.pdf" and saving it in "D:/BoomiExamples" Folder.

These are the steps which converts the data into PDF format by creating an instance of pdf writer class.

- Add the below script in the command prompt and click OK.

```

import java.util.Properties;
import java.io.InputStream;
import java.io.FileOutputStream;
import com.itextpdf.text.Document;
import com.itextpdf.text.Paragraph;
import com.itextpdf.text.pdf.PdfWriter;
for( int i = 0; i < data context.getDataCount(); i++ )
{
  InputStream is = dataContext.getStream(i);
  Properties props = dataContext.getProperties(i);
  String Data = is.text;
  OutputStream file = new FileOutputStream(new
File("D:/BoomiExamples", "sample.pdf"));
  Document document = new Document();
  PdfWriter.getInstance(document, file);
  document.open();
  document.add(new Paragraph(Data));
  // document.add(new Paragraph(is.toString()));
  document.close();
  file.close();
}

```

Language Groovy 1.5

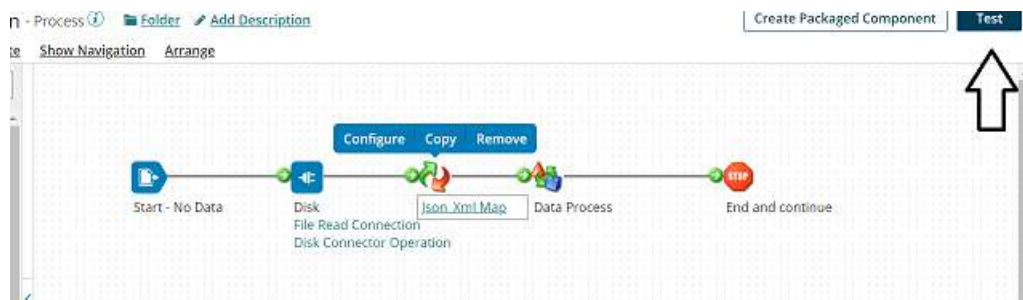
```

1 import java.util.Properties;
2 import java.io.InputStream;
3 import java.io.FileOutputStream;
4 import com.itextpdf.text.Document;
5 import com.itextpdf.text.Paragraph;
6 import com.itextpdf.text.pdf.PdfWriter;
7 for( int i = 0; i < dataContext.getDataCount(); i++ )
8 {
9   InputStream is = dataContext.getStream(i);
10  Properties props = dataContext.getProperties(i);
11  String Data = is.text;
12  OutputStream file = new FileOutputStream(new File("D:/BoomiExamples","sample.pdf"));
13  Document document = new Document();
14  PdfWriter.getInstance(document, file);
15  document.open();
16  document.add(new Paragraph(Data));
17  // document.add(new Paragraph(is.toString()));
18  document.close();
19  file.close();
20
21 }
  
```

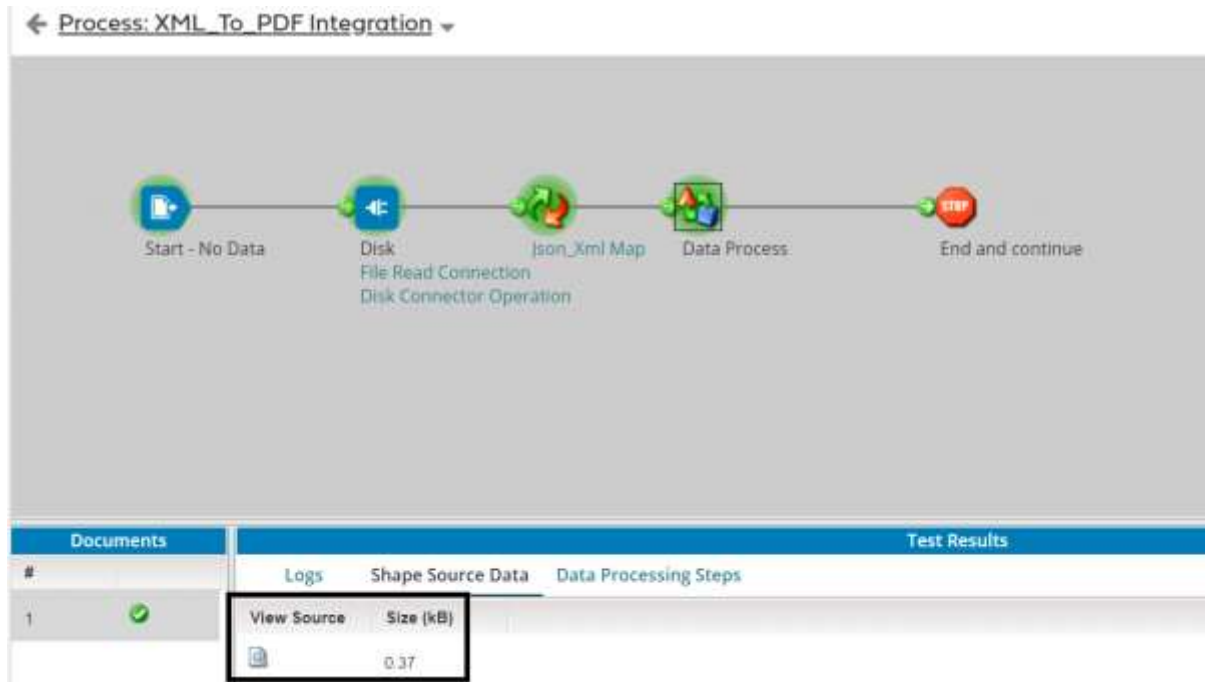
Step 18: Drag and drop the stop shape onto the process canvas to indicate the end of the flow.



Step 19: Arrange all the shapes in order and test them by configuring the local atom as shown below.



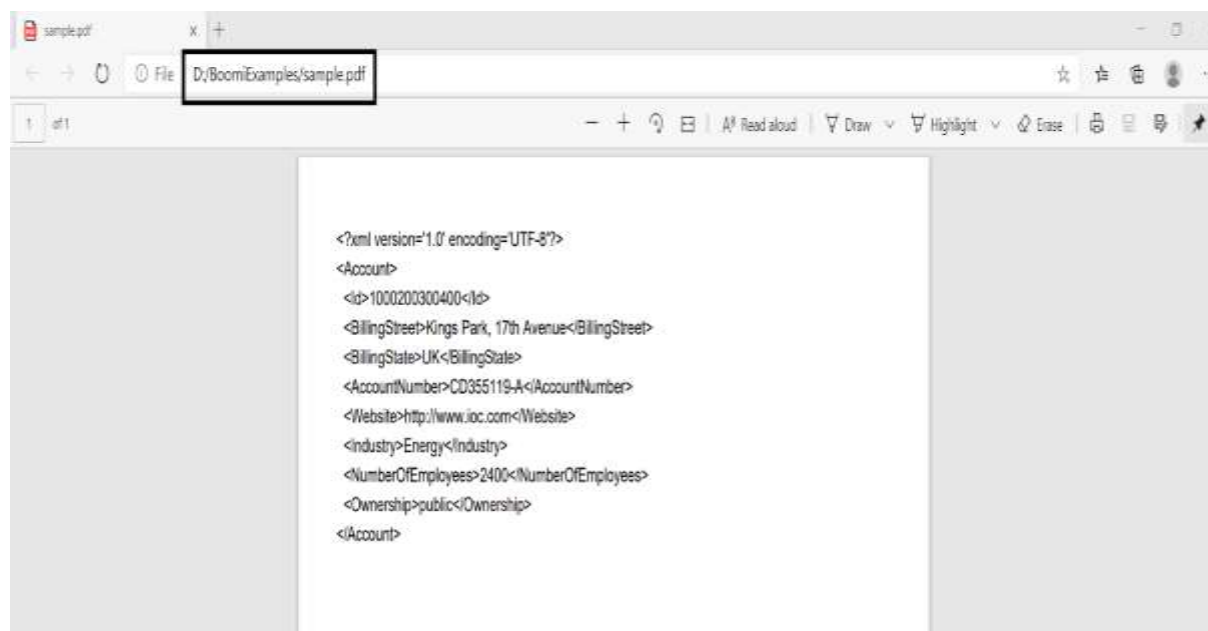
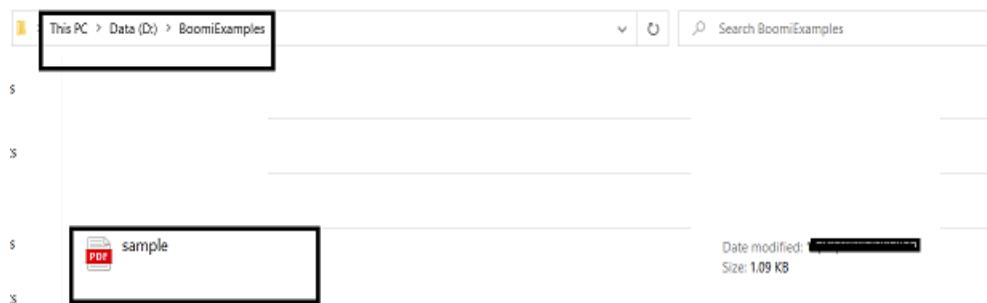
Step 20: We see that the process has been executed. Click on view source to see the output.



- Once, we open the document, it looks like



Step 21: Navigate to the “D:/BoomiExamples” folder and we see that a file has been created with the name “sample” in pdf format.





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



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