



TGH

Making Integrations Simpler

boomi
Partner



Extensions in Boomi



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Extensions in Boomi

In this blog, let us see how to set an atom and environment level extensions.

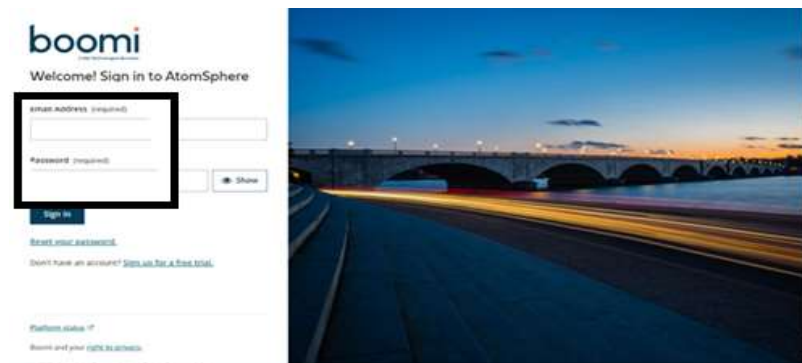
What are Extensions?

If we want to override value for a field, we can make use of extensions. In the same process, we can extend different properties like dynamic process properties, process properties, connection details, so on and can set these values at runtime. We can set the extensions at environment level. If we want to run the process in test mode, we can set the extensions at atom level.

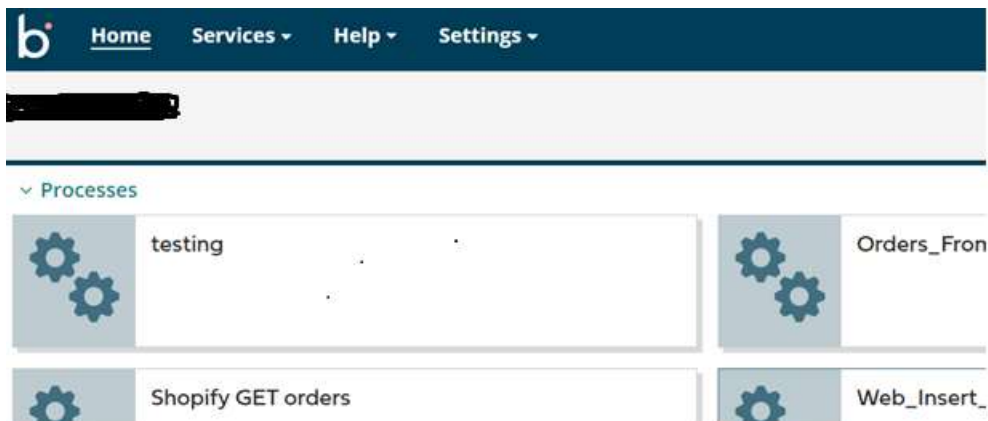
- In this use case, we will first see how to set extensions at atom level.
- Here, we will create static data in message shape and send that data in the form of a csv file and save it to a disk location.

Let us begin with the steps.

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



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

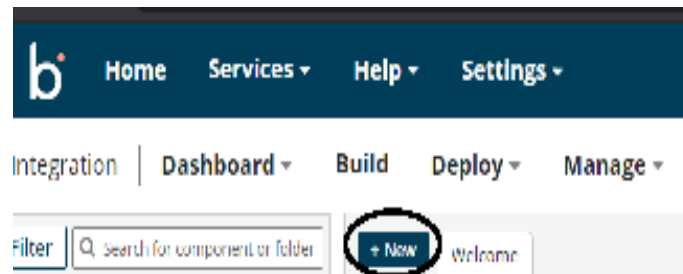
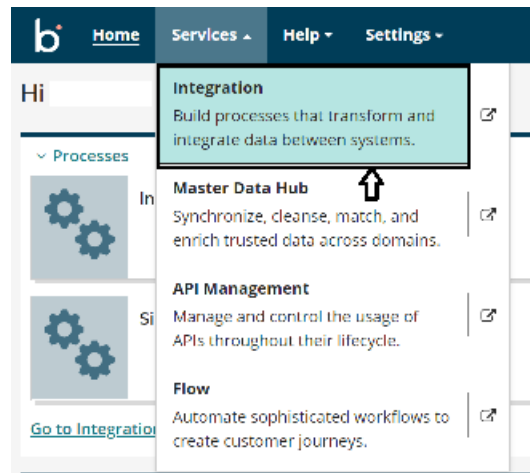


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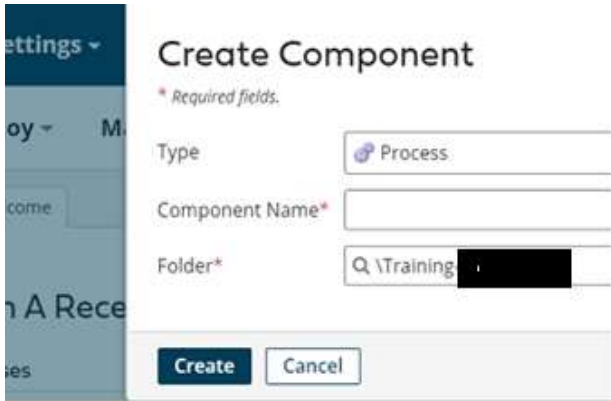
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Step 3: Now, click on Services followed by Integration. We will see the Build page. Click on New.

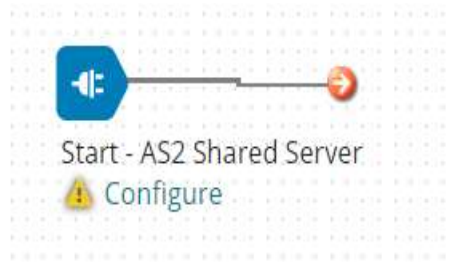


Step 4: Once, clicked on New, we will be able to see three fields i.e., Type, Component Name and Folder.



- 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.

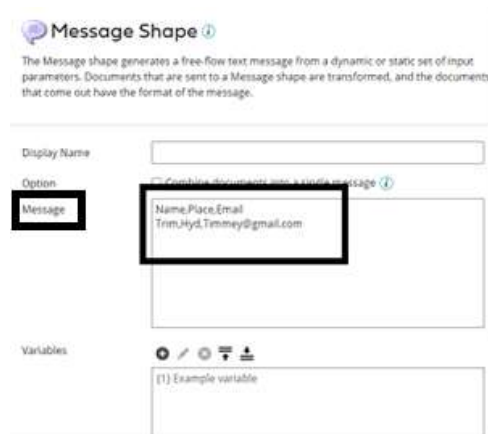
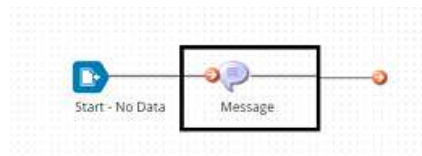
Step 5: We see that the process gets created with a start shape which is configured with AS2 Shared Server by default.



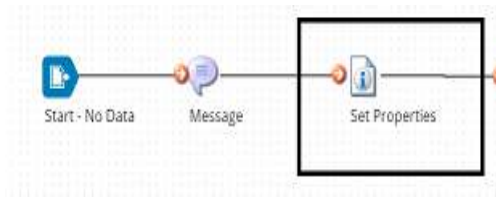
Step 6: Select the start shape and choose No Data. Click ok.



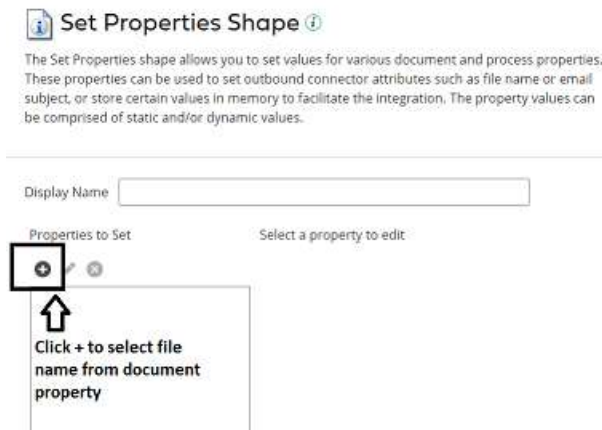
Step 7: Drag and drop message shape onto the process canvas. Click on message shape and data should be written in message box. We have created 3 fields i.e., Name, Place and Email and have set values as Hary, Hyd, Timmey@gmail.com. Click Ok.



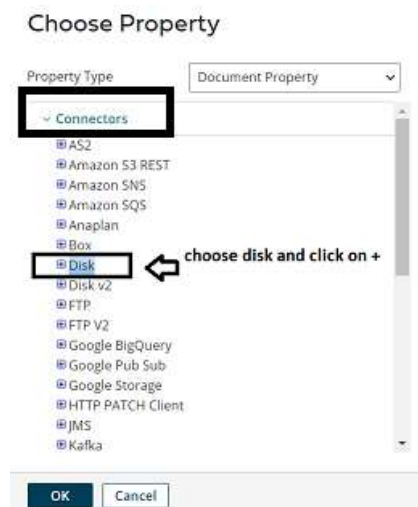
Step 8: Next, drag and drop set properties shape onto the process canvas.



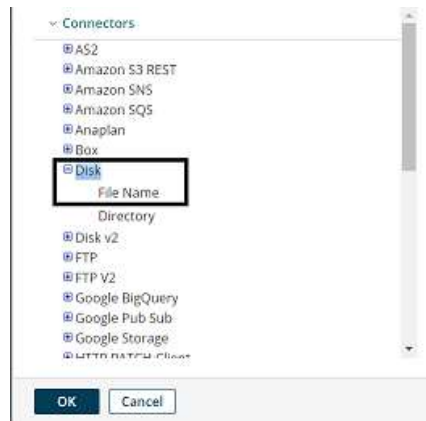
- Here, we want to set the file name of a file which we are going to save it in the disk location.
- That file name comes from dynamic process property which we will set in extensions.
- Select set properties shape and to set the file name, click + as shown in the below screenshot.



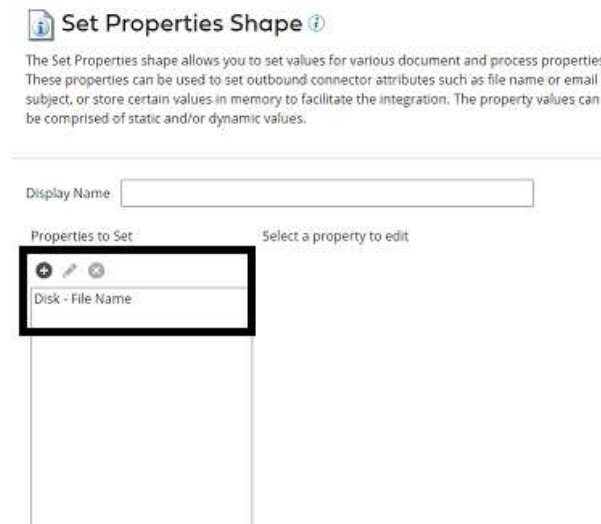
- Now, we need to select **Disk** from **connectors** as we are going to save the file in disk location. Click + beside Disk.



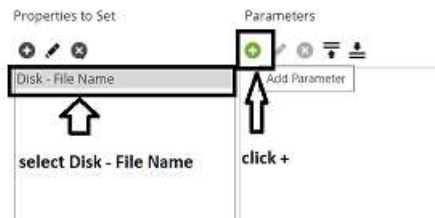
- Select File Name from Disk and click ok.



- We have configured File Name from disk connector in Set Properties Shape and we have to set the value for it.

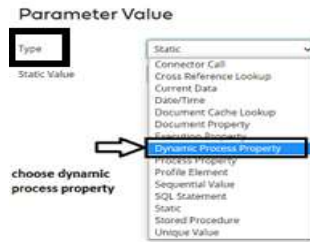


- To set the value, click on Disk – File Name and click + on the parameters section as shown.

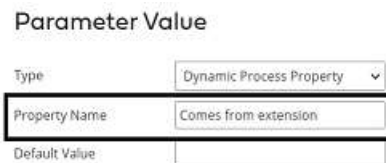


- Select Dynamic Process Property from Type as we are getting the file name from dynamic process property which will be configured in extensions.

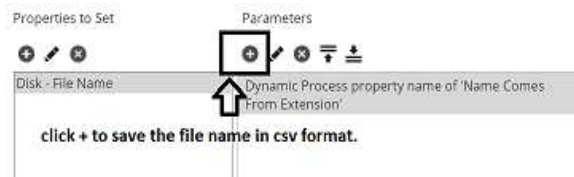
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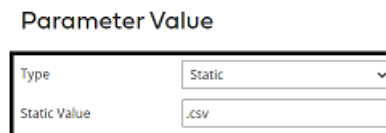
- Now, set the property name as “Comes from extension” as we will configure the file name in extension. Click ok.



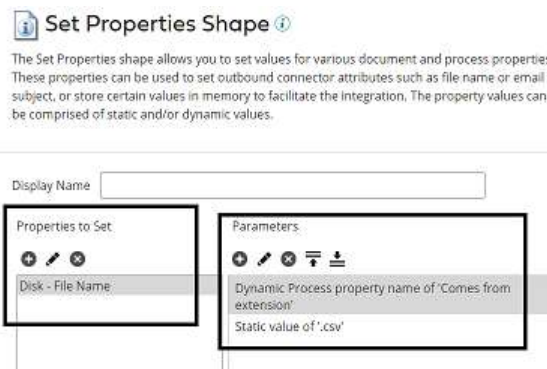
- We want the filename to be saved as CSV file and will have define it in the properties tab. Choose + in the parameter section as shown in the screenshot.



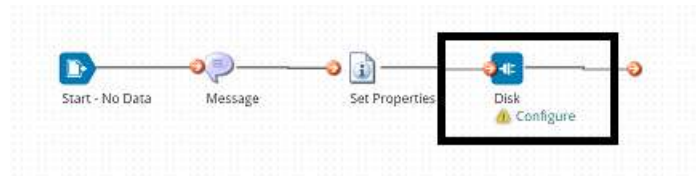
- Select Type as static and give the value as .csv



- After setting the properties in set properties shape, it looks as follows. Click ok.



Step 9: Drag and drop Disk Connector onto the process canvas as we are sending the file to a disk location.



Step 10: Here, we will have to configure Action, Connection and Operation. We have 2 operations in Action i.e., Get and Send. We will choose send as we are sending the file to a disk location.

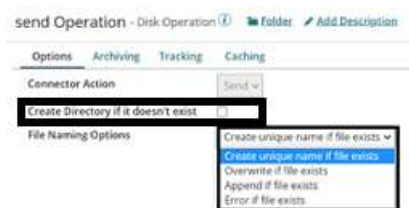
- In Connection, click + to create a new connection.

- Name the connection and in directory, give the location of the file which we want to save. Click save and close.

- In operation, click + to create a new operation. Name the operation and Connector Action will be send as we have configured send in connection.



- Check “Create Directory if it doesn’t exist” box if we don’t specify the directory. We have already specified the directory in connector so let’s not check it. We have different options to name the file as in below screenshot. We will choose default i.e. create unique name if file exist. Click save and close.



Step 11: Drag and drop stop shape onto the process canvas to indicate end of the process. Click save.

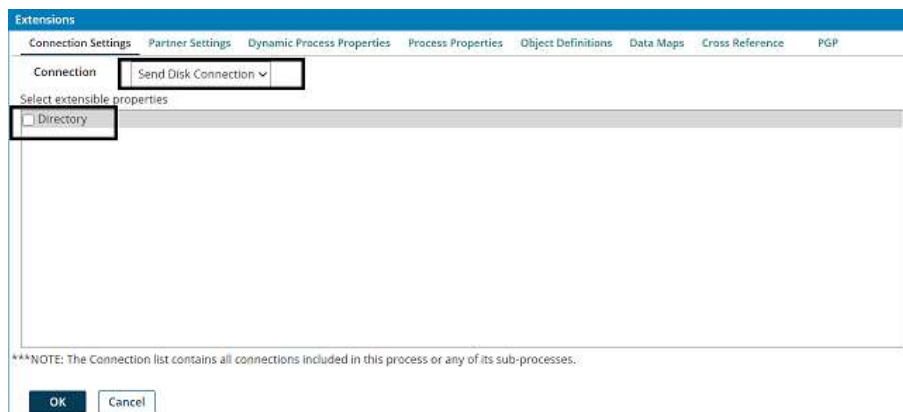


Step 12: Now, click on extensions in build tab.

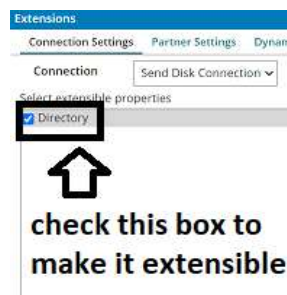


Step 13: We see that in connection settings, we have got the connection as “**Send Disk Connection**” which we have configured in connection tab. Here, we have an option of setting directory as extensible which means we can override the location which we have specified as directory in connection tab.

NOTE: We have to set the property as extensible, only then we will be able to set values for extensible properties at runtime. This is applicable at atom and environment level extensions.



- Here, we will check the directory as extensible meaning we can override the value at runtime.



- We see Dynamic Process Properties in extensions and once we select it, click + and we have to add the property name as “comes from extension” which we have configured in set properties shape and we will set the value for this property at runtime. Click ok.

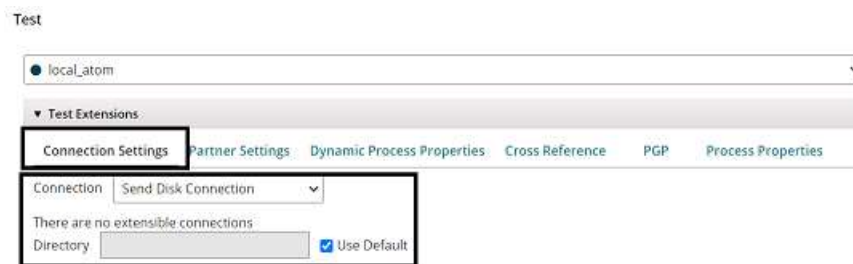




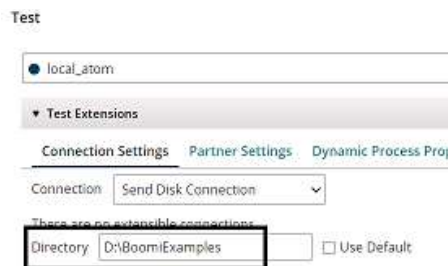
Step 14: Now, test the process by selecting an atom. Below atom, we see there is a drop down called as **Run Test** where we can provide runtime values.



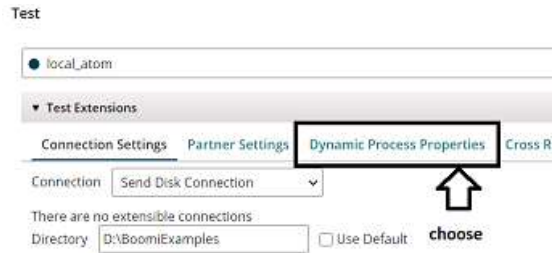
- In Connection Settings, we see there is a connection which we have configured. In Directory, we have a check box called as **“Use Default”**. If we check the box, it will take the default value i.e. **(D:\Demo)** which we have configured in the Connection. If we uncheck the box, we can override the default value by specifying the new value.



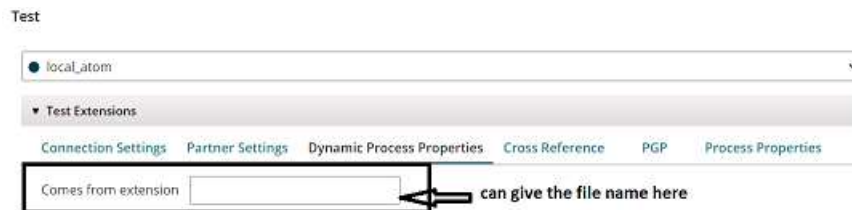
- Here, we will uncheck the box and give different directory location **(D:\Boomi Examples)** so that it will override the directory which we have configured in connection tab.



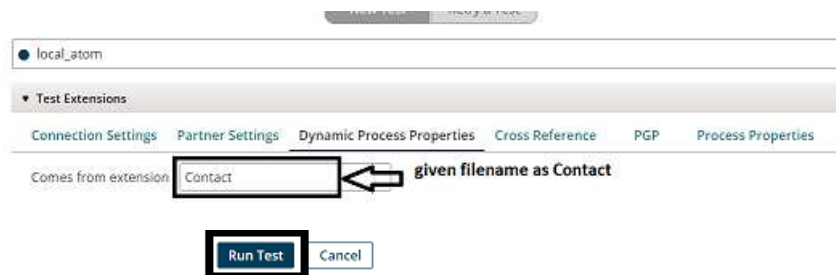
- Now, we will set the value for Dynamic Process Property by choosing Dynamic Process Property.



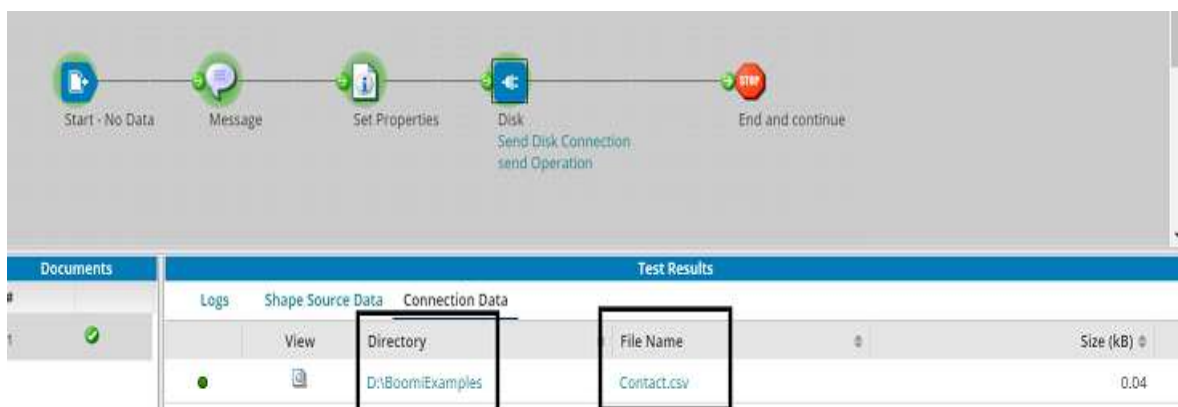
- Once, we choose Dynamic Process Property, we get to see property name as “comes from extension” for which we will give the value as “Contact”.



- Here, file will be saved as Contact in the directory which we have mentioned and run test.



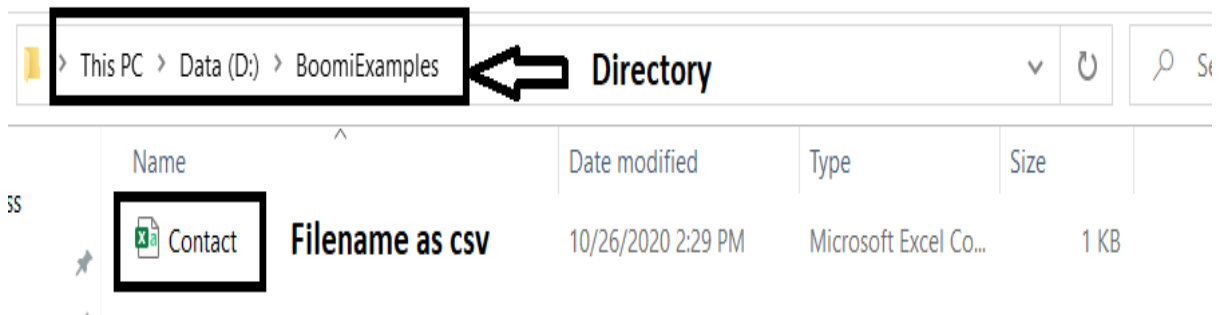
Step 15: Once, we run the test we can see that file with Contact have been created as a csv file in the directory which we have specified in extensions.



- The output looks like as follows in test mode.

Document Viewer

```
Name,Place,Email  
Hary,Hyd,Timmey@gmail.com
```

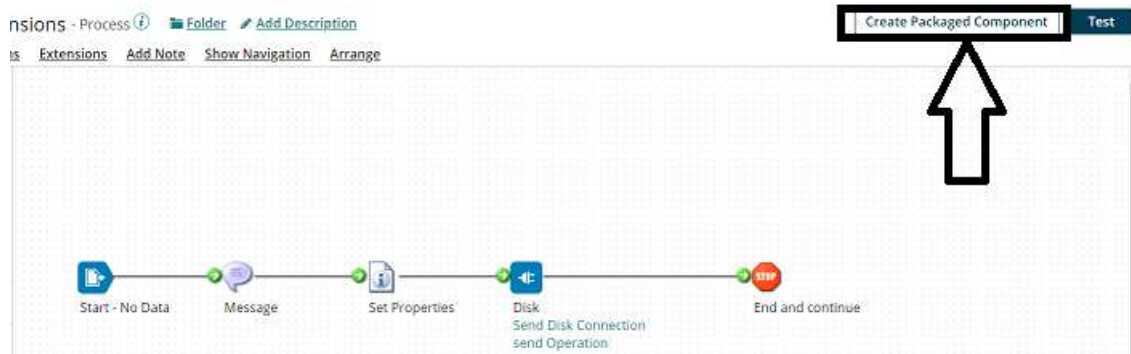


Set Environment level Extensions

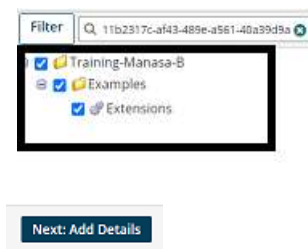
Now, let us see how to set extensions at environment level.

Here, we will consider the same use case but will set the extension at environment level.

Step 1: Firstly, deploy the process which we have created to an environment. Click on create packaged component.



- The process gets selected automatically. Click Add Details.



- Next, select the version and write notes if you have any. Click on create packaged component.



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

- API Production
- Test
- production

4000 characters remaining.

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

- API Production
- production

choose production

4000 characters remaining.

Next: Select Versions

Next: Review

- We will be asked to cross check the environment which we have configured in 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 
Extensions	Process	8.0	N/A	—

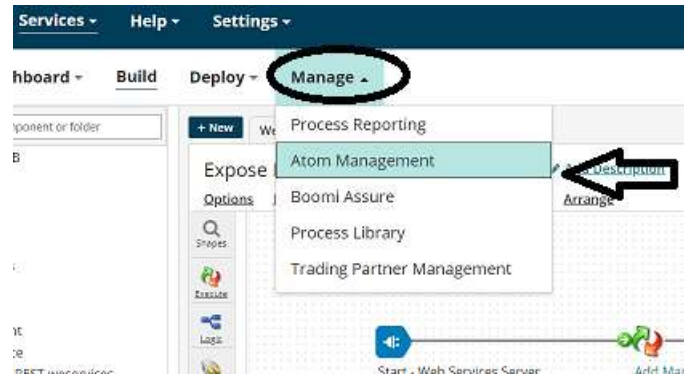
- Once, we click on deploy we will be able to see that deployment is done successfully.

Deployment Successful

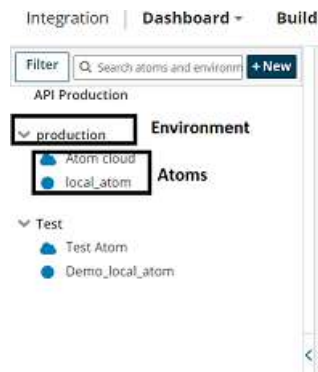
Your packaged components were successfully deployed.
Click on the View Deployments button to see all deployments for this account.

View Deployments

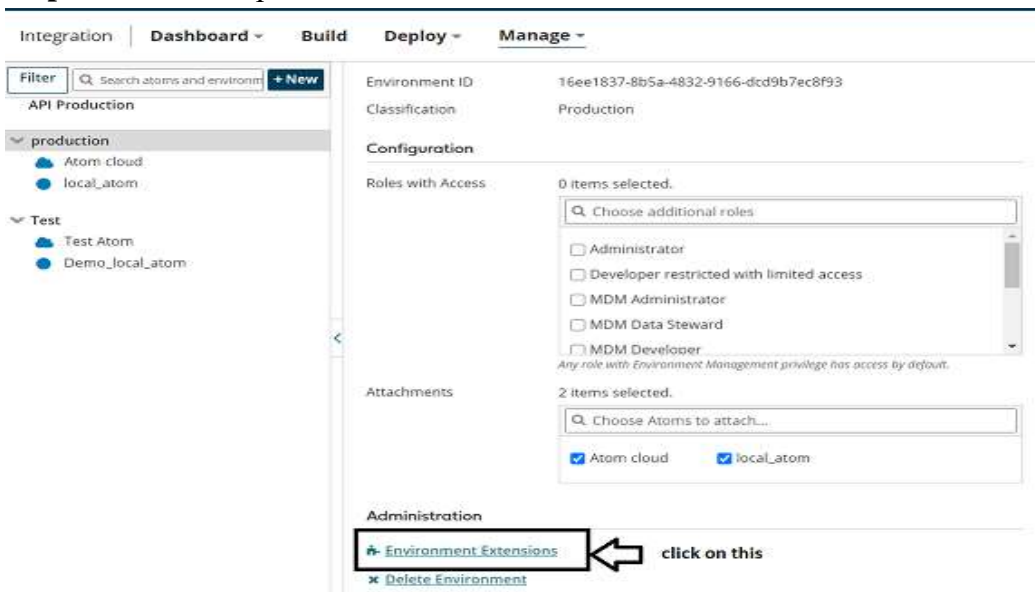
Step 2: Now, close and navigate to build tab and click on manage followed by atom management.



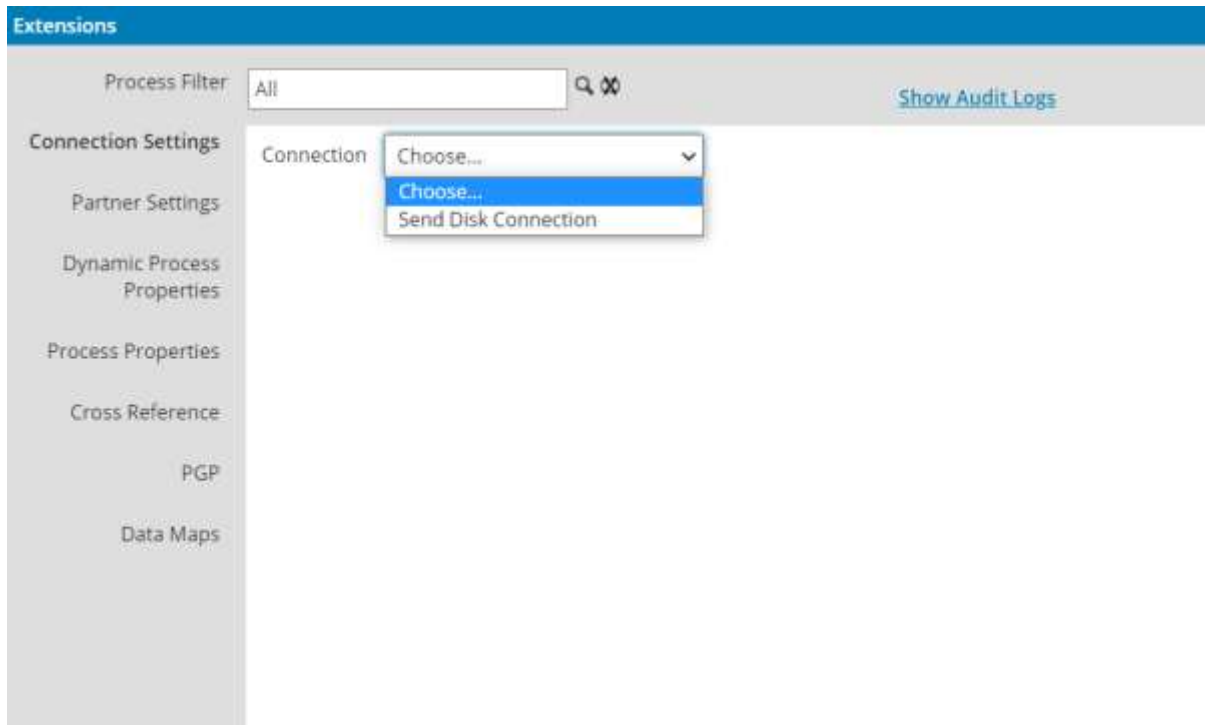
Step 3: Click on the environment i.e.(production) to which we have deployed the process.



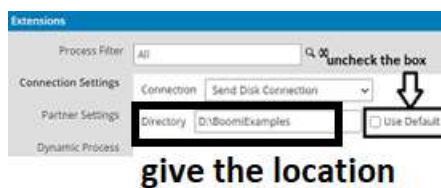
Step 4: we see an option called as “Environment Extensions”. Click on it.



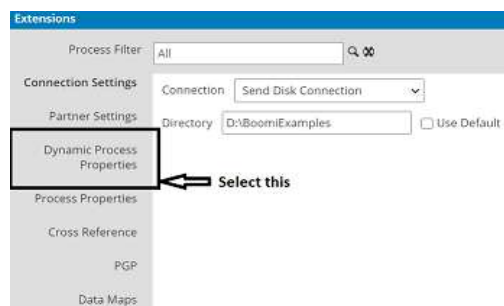
Step 5: We will be able to see connection as extensible as we have set the extensions in build page. Now, choose the connection i.e., Send Disk Connection and In Directory, we have a check box called as “Use Default”. If we check the box, it will take the default value i.e. (D:\Demo) which we have configured in the Connection. If we uncheck the box, we can override the default value by specifying the new value.

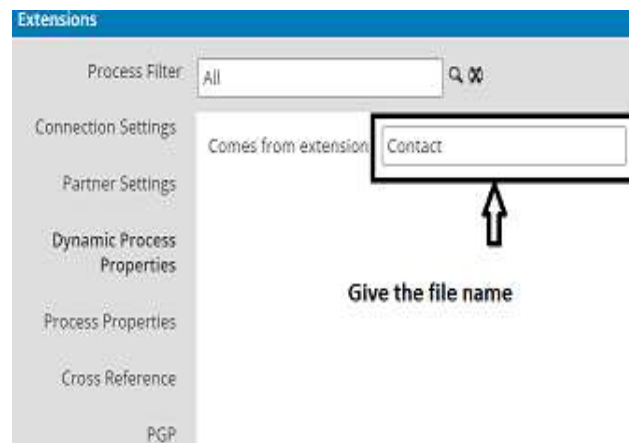
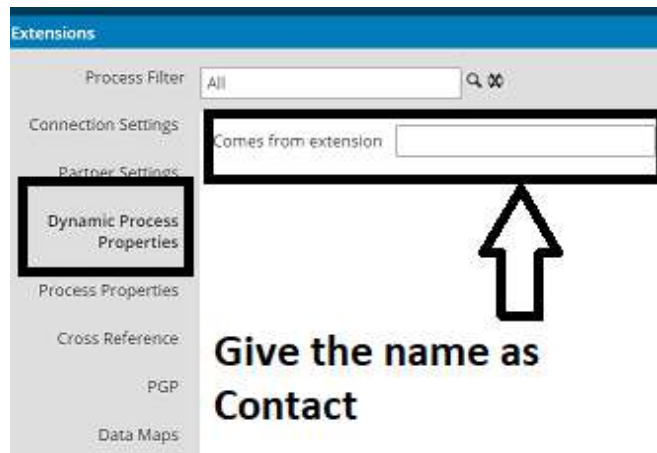


- Here, we will uncheck the box and give different directory location (D:\Boomi Examples) so that it will override the directory which we have configured in connection tab.

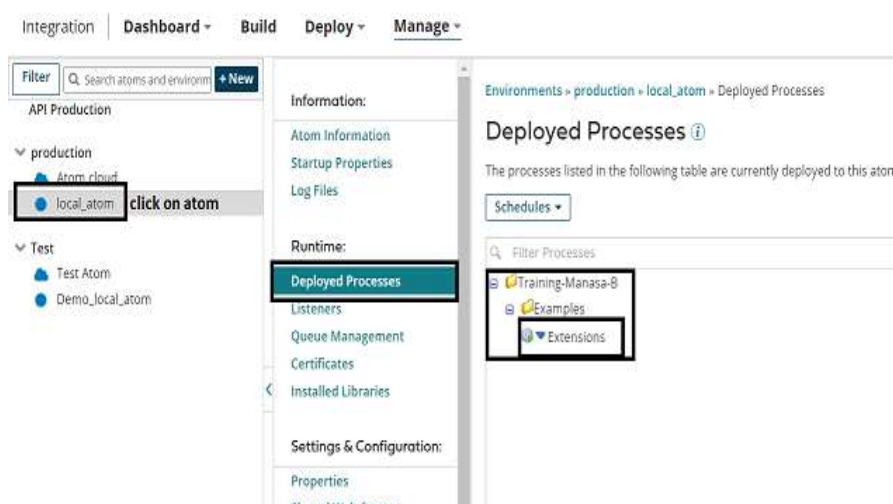


Step 6: Now, select Dynamic Process Properties and give the file name as Contact. Click ok.

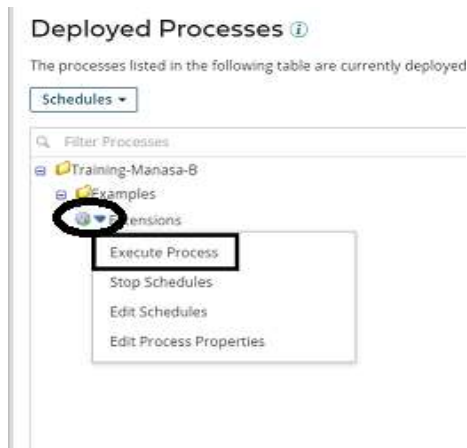




Step 7: Click on the atom where we have deployed the process and select Deployed Processes. We will be able to see the process which we have deployed.



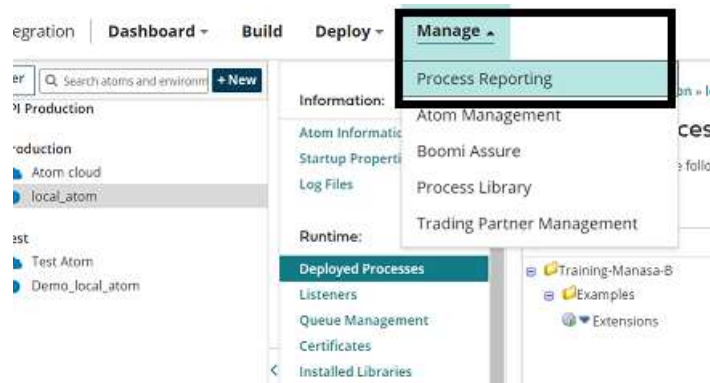
Step 8: Click on the small arrow beside Extensions and select execute the process.



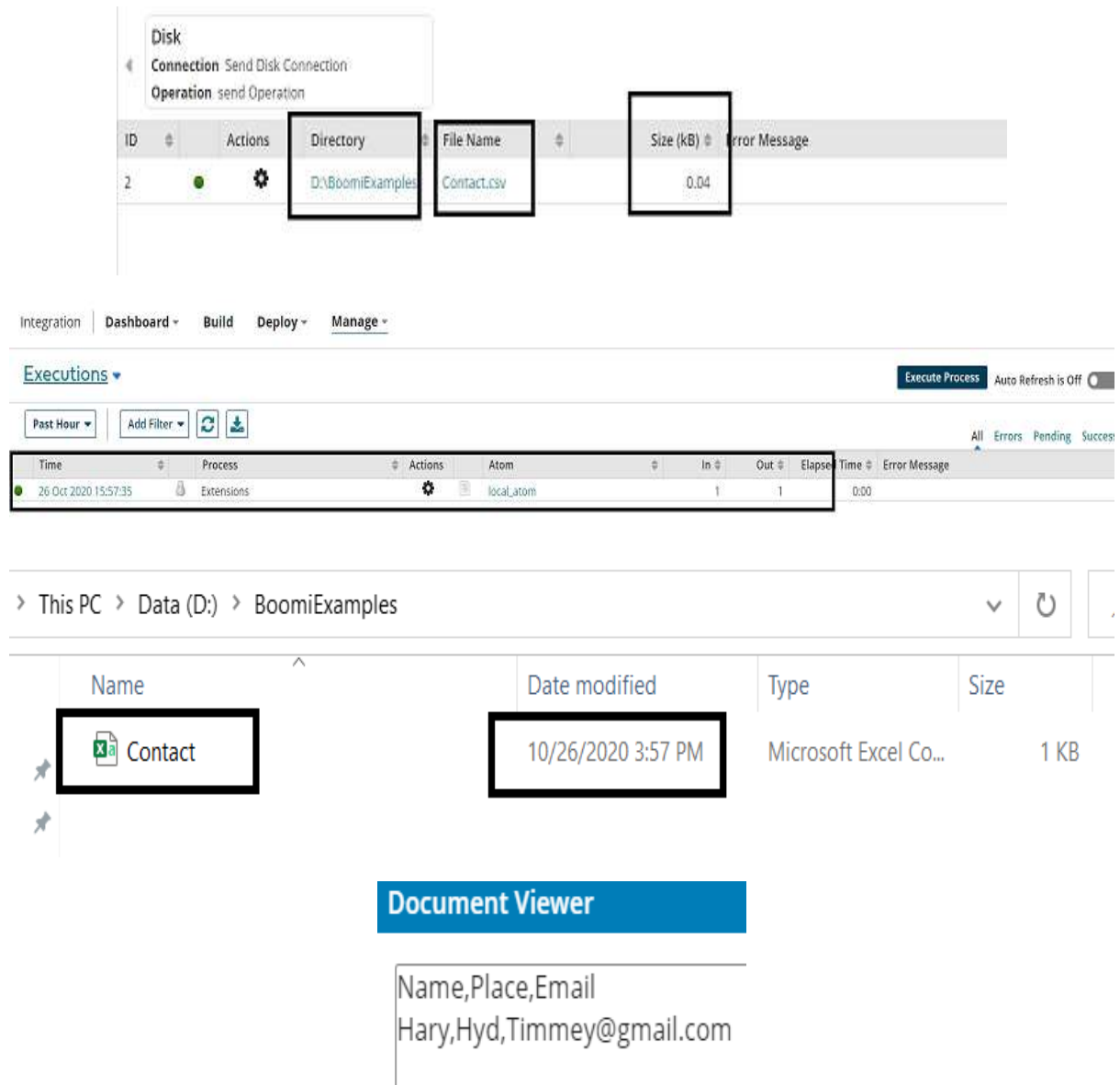
Step 9: Once we execute the process, we will see a message saying “process execution message has been sent” at right corner of the page.



Step 10: Go to Manage processing tab and can view the execution.



Step 11: We see that the process has been executed and a file has been generated in the destination directory.



The screenshot shows the TGH interface with the following components:

- Process Configuration:** A table showing process details with columns: ID, Actions, Directory, File Name, Size (kB), and Error Message.

ID	Actions	Directory	File Name	Size (kB)	Error Message
2		D:\BoomiExamples	Contact.csv	0.04	
- Executions Panel:** A table showing execution logs with columns: Time, Process, Actions, Atom, In, Out, Elapsed Time, and Error Message.

Time	Process	Actions	Atom	In	Out	Elapsed Time	Error Message
26 Oct 2020 15:57:35	Extensions		local_atom	1	1	0:00	
- File Explorer:** A view of the file system showing the path `This PC > Data (D:) > BoomiExamples`. A table lists files:

Name	Date modified	Type	Size
Contact	10/26/2020 3:57 PM	Microsoft Excel Co...	1 KB
- Document Viewer:** A blue header with the text "Document Viewer" and a preview of the generated CSV content:


```
Name,Place,Email
Hary,Hyd,Timmey@gmail.com
```



TGH

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.



Email address

connect@techygeekhub.com



Phone number

+ 011-40071137
+ 91-8810610395



Our offices

Noida Office

iThum
Plot No -40, Tower A,
Office No: 712,
Sector-62, Noida,
Uttar Pradesh, 201301

Hyderabad Office

Plot no: 6/3, 5th Floor,
Techno Pearl Building,
HUDA Techno Enclave,
HITEC City, Hyderabad,
Telangana 500081

