



**TGH**

Making Integrations Simpler



# How to configure Advanced Scheduling

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# How to configure Advanced Scheduling

## What is Scheduling?

Process execution schedules are standardized schedules that control when a process should run. You can add multiple schedules to a process for different execution requirements.

A process must be deployed to an Atom, Molecule, or Atom Cloud to run on a schedule. A schedule starts as soon as you deploy the process and add the schedule. If you deploy the same process to multiple Atoms, Molecules, or Atom Clouds, you must add a separate schedule for the process on each one of them.

It is important to understand that the local system time of the Atom, Molecule, or Atom Cloud determines when the process schedule is executed. The schedule executes according to the system time of the machine on which the Atom, Molecule, or Atom Cloud is installed, not of the machine from which you set the schedule through Atom Management.

The minimum time interval to schedule one process is 1 minute.

## What is Advanced Scheduling?

You can use advanced syntax to set your schedule to run periodically at certain times or dates. Access Advanced mode by selecting it from the Type drop-down list.

Placing an asterisk [\*] in a field indicates that the schedule should run every minute, hour, day of the week, day of the month, month or year. Hyphens [-] are used to specify ranges of values, and commas [,] are used as delimiters between values and ranges. The time specification of a range, whether it be years, months, days of the month or week, hours or minutes, can optionally be followed by a slash [/] and an interval of that unit of time. For example:

- In the Minutes field, a value 0-59/15, specifies 0, 15, 30 and 45 minutes after the hour.
- In the Days of Month field, a value of 3-30/3 specifies every third day beginning with the third day of the month.

### I. Minutes (0-59):

0 is the first minute of the hour — for example, 1:00 A.M.  
59 is the last minute of the hour — for example, 1:59 A.M.

### II. Hours (0-23):

A 24-hour clock is used.  
0 is 12:00 A.M. or midnight and 12 is 12:00 P.M. or noon.

### III. Days of Week (1-7):

1 is Sunday and 7 is Saturday.

### IV. Days of Month (1-31):

1 is the first day of the month and 31 is the last day of the month.

### V. Months (1-12):

1 is January and 12 is December. In most cases this is set to an asterisk [\*].

### VI. Years:

Standard year format. In most cases, this is set to an asterisk [\*].

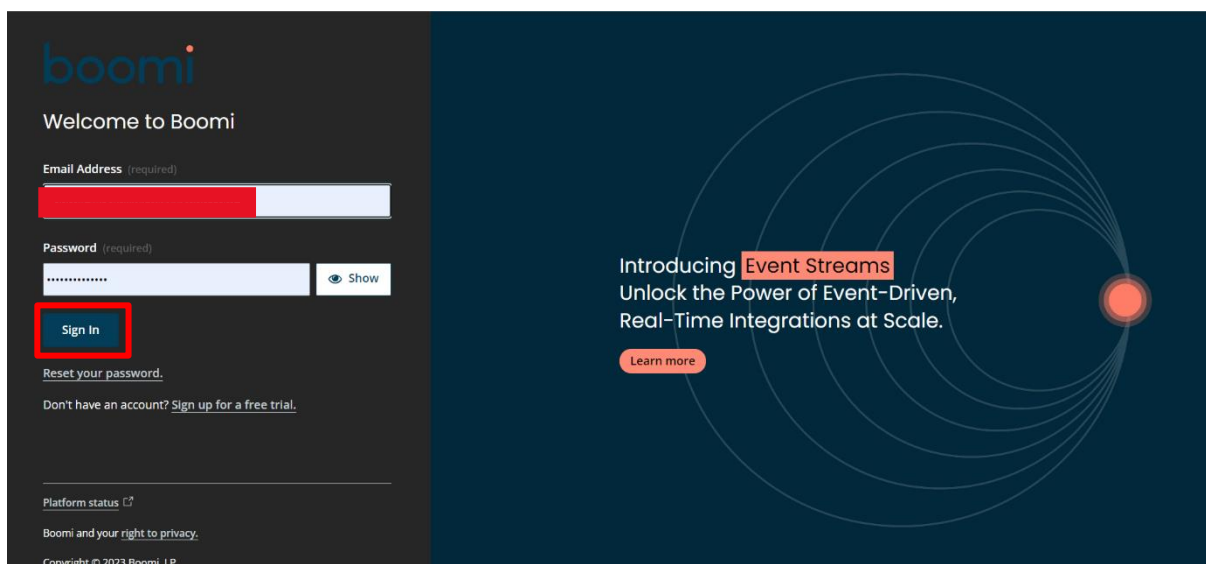
Now we will understand Advanced Scheduling by a simple use case:

## Overview of the use case

1. We will prepare one process in Boomi to perform Advanced Scheduling.
2. We will configure the scheduling in such a way the process will run every 45 minutes.

## Steps:

Step 1. Go to [platform.boomi.com](https://platform.boomi.com)



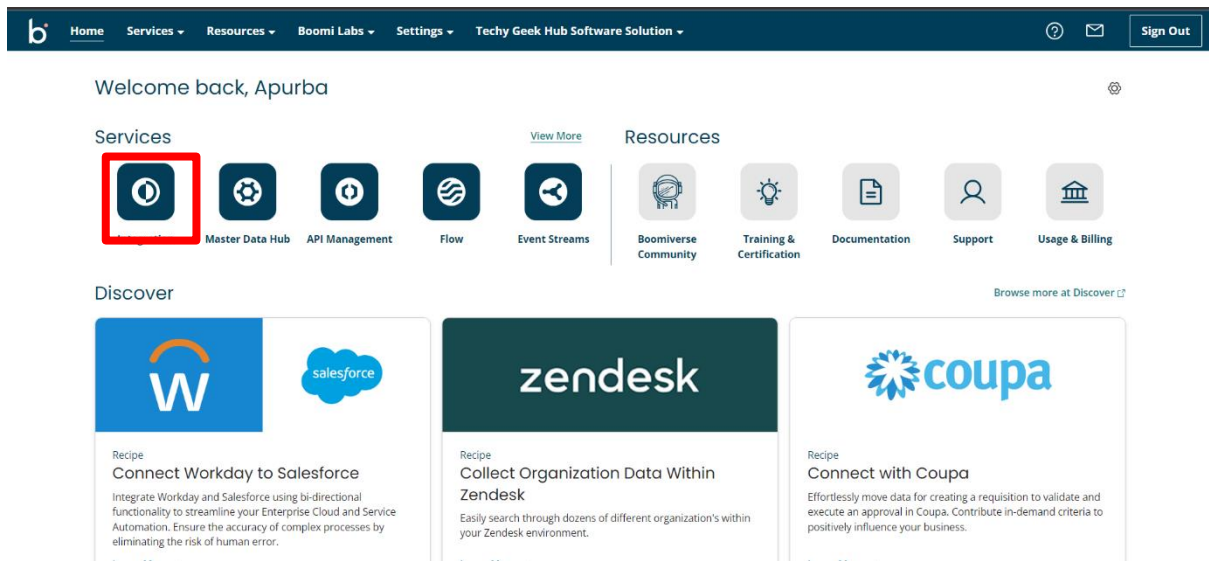
Step 2. Login by giving your valid credentials (Username and Password).

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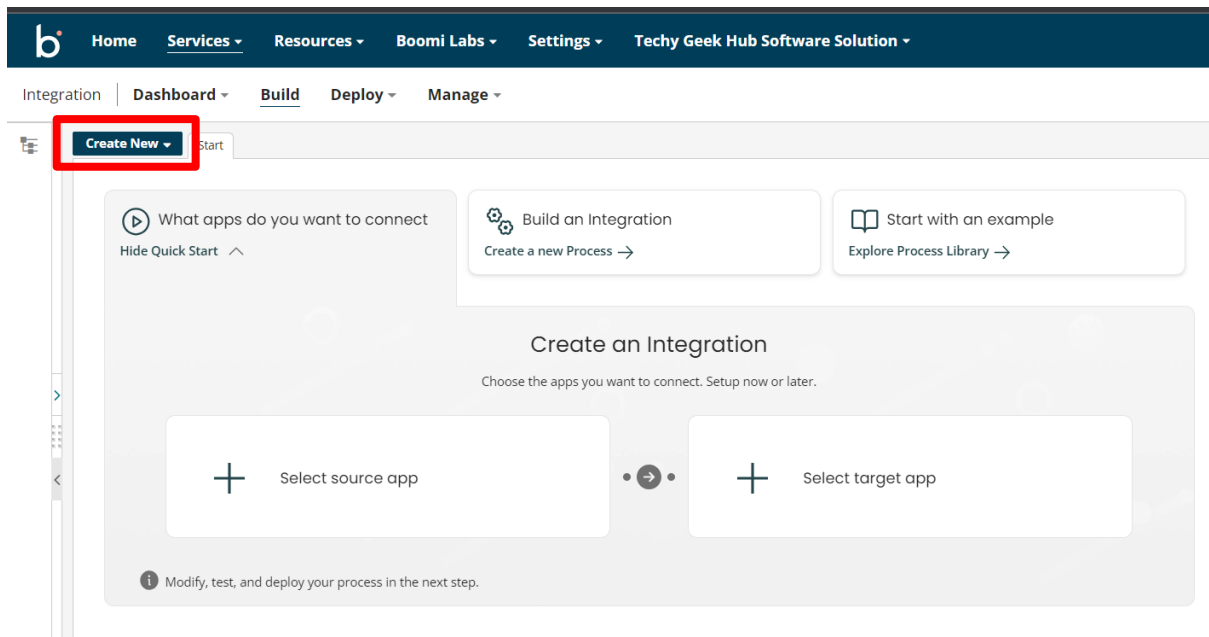
No part of this document may be copied, reproduced, republished, uploaded, posted, publicly displayed, encoded, translated, transmitted or distributed in any way to any other computer, server, website or other medium for publication or distribution, without TGH's prior written consent



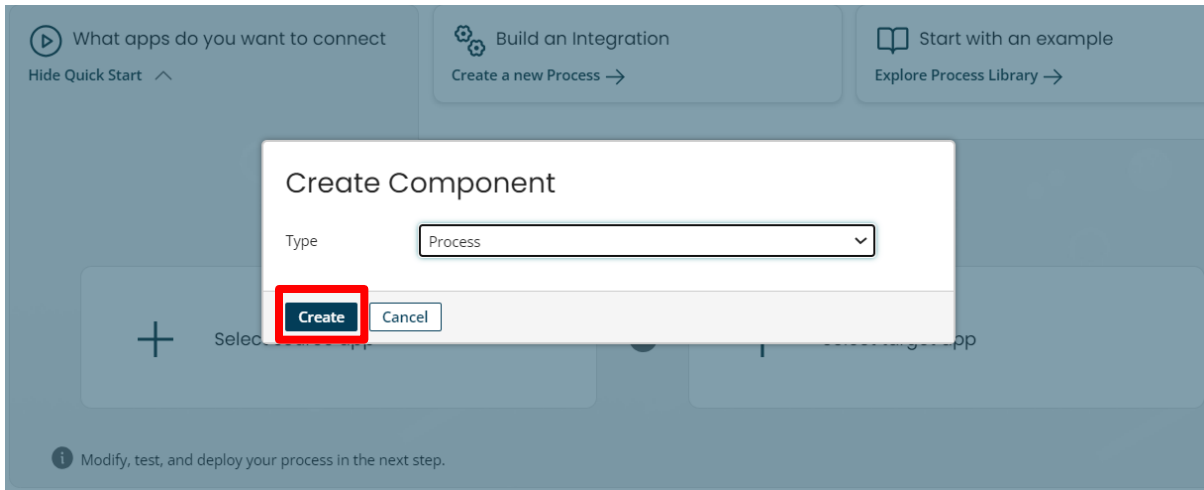
Step 3. Home page will be displayed, now click on “Integration”.



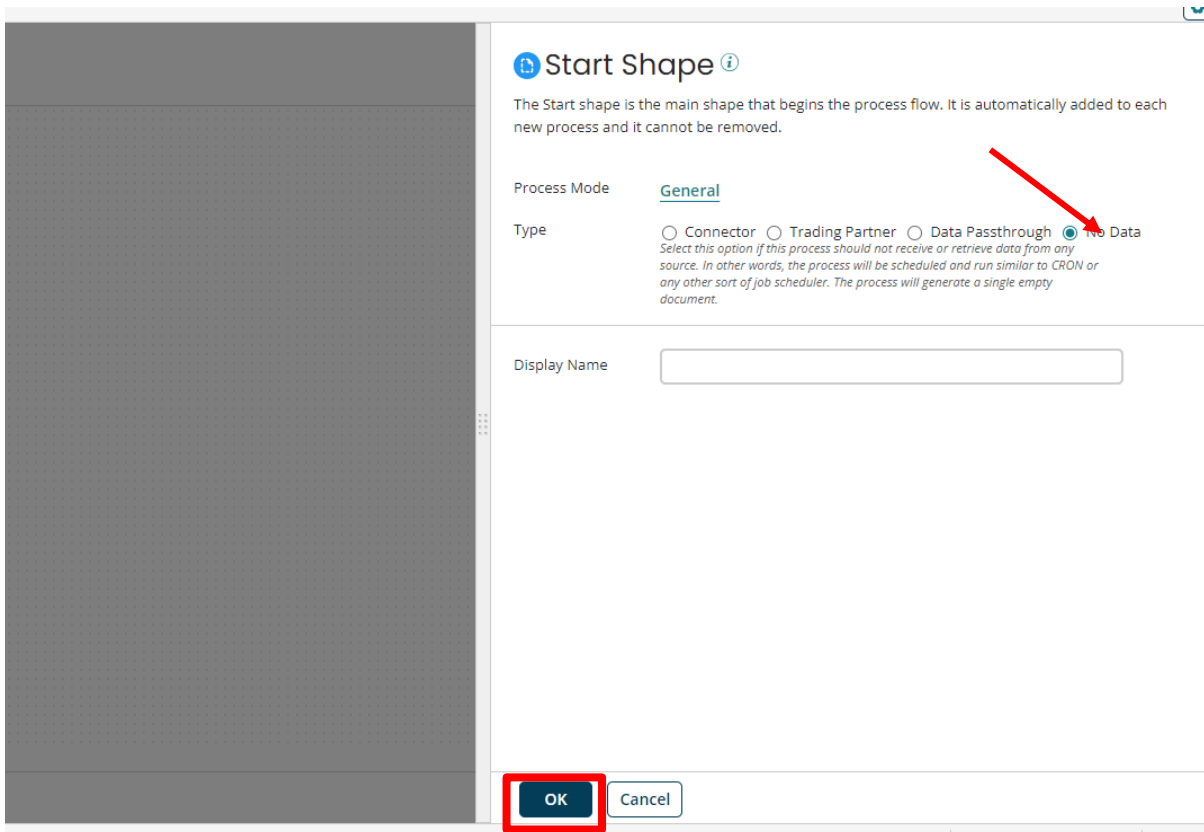
Step 4. Click on the “Create New” button.



Step 5. Select “Process” and click on “Create”.

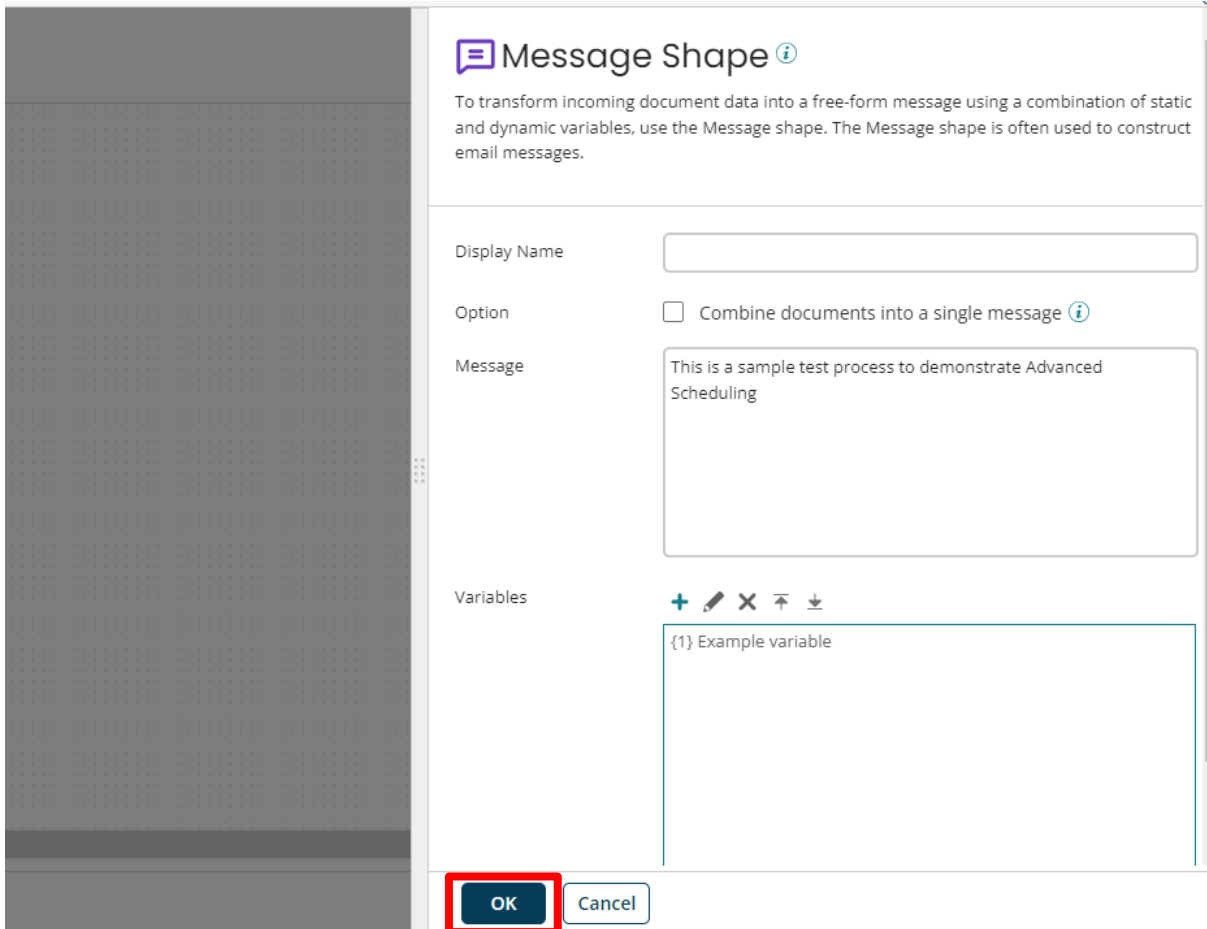


Step 6. Click on “No Data” option and click on “Ok”.



Step 7. Drag and drop one Message shape and type any message.

Click on “Ok”



**Message Shape** ⓘ

To transform incoming document data into a free-form message using a combination of static and dynamic variables, use the Message shape. The Message shape is often used to construct email messages.

Display Name

Option  Combine documents into a single message ⓘ

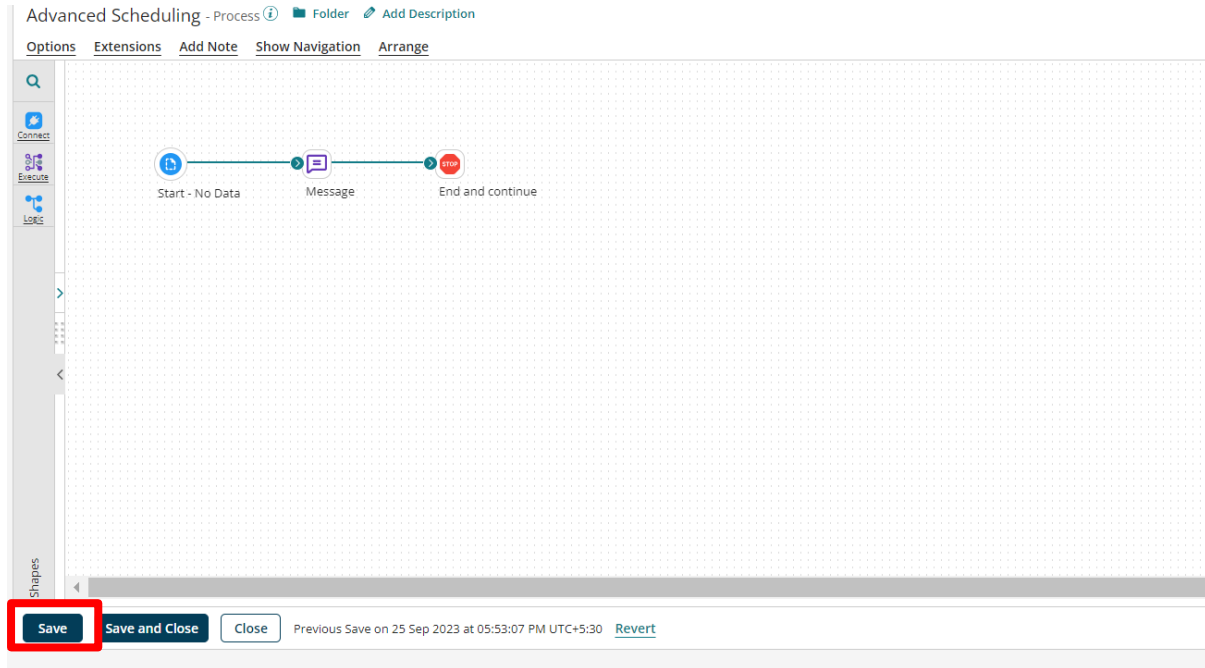
Message

Variables

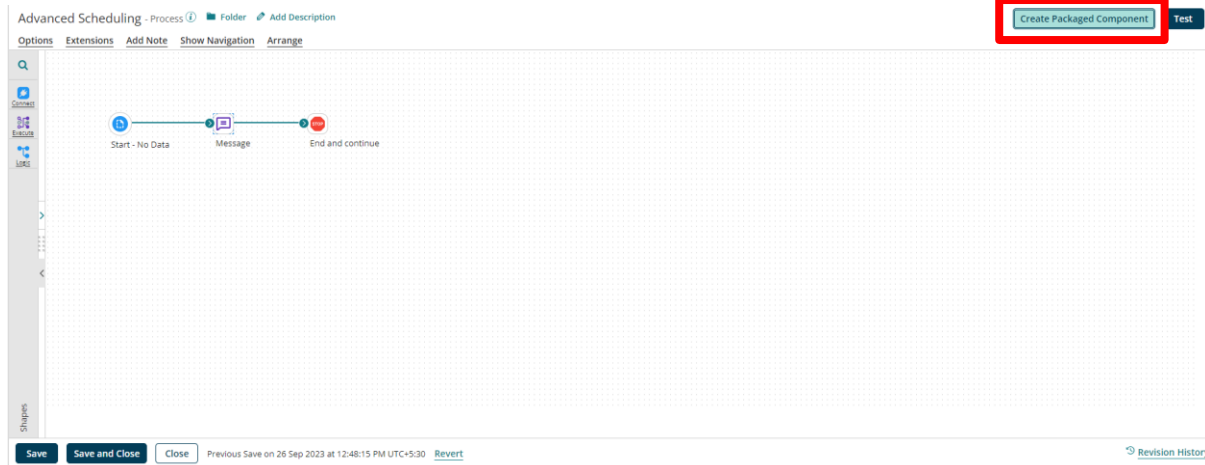
**OK** Cancel

Step 8. Drag and drop one Stop shape at the end of the process.

Click on “Save” to save the process.



Step 9. Click on “Create Packaged Component”



## Step 10. Click on “Next: 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 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
  - ##Apurba
    - Blog
    - Advanced Scheduling

Actions	Component Name	Component Type	Latest Version	Latest Notes
	Advanced Scheduling	Process	1.0	None

Previous 1-1 of 1 Next  
Cancel Next: Add Details

## Step 11. 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 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
Advanced Scheduling	1.0	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.

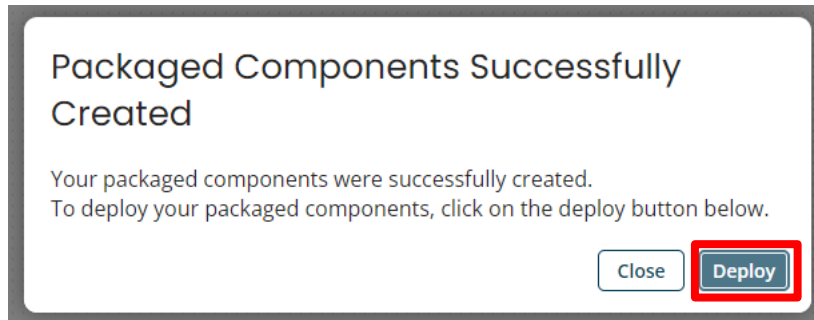
Sharing (i)

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 12. Click on “Deploy”.



Step 13. Choose your Environment and Click on “Next: Select Versions”

*Note:* In the Deployment notes you can mention the comment or one message regarding to that particular deploy.

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.

## Step 14. Click on “Next: Review”.

### Deploy: Select Packaged Components

**Environment:** #Apurba Test | **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

- TGH
- Z\_Sandbox
- ###Apurba
  - Blog
  - Advanced Scheduling

Actions	Name	Type	Selected Version	Deployed Version
	Advanced Scheduling	Process	2.0 <a href="#">View details</a>   <a href="#">Select different package</a>	N/A

Cancel Back: Select Environment Next: Review

## Step 15. Click on “Deploy”.

### Deploy: Review

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

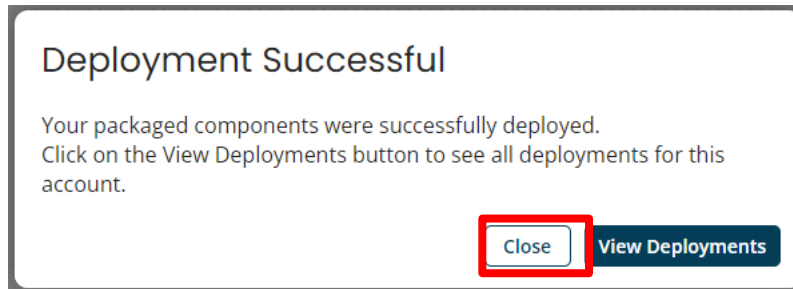
**Environment:** #Apurba Test  
**Deployment Notes:**

Name	Type	Selected Version	Deployed Version	Duplicate <a href="#">i</a>
Advanced Scheduling	Process	2.0	N/A	—

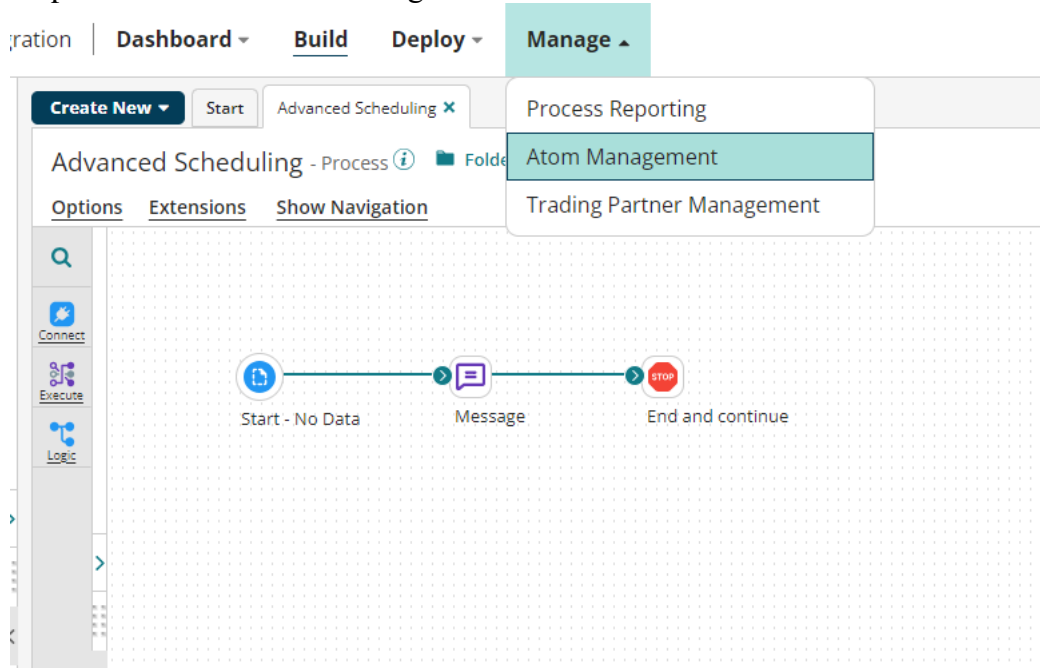
Previous 1-1 of 1 Next

Cancel Back: Select Versions Deploy

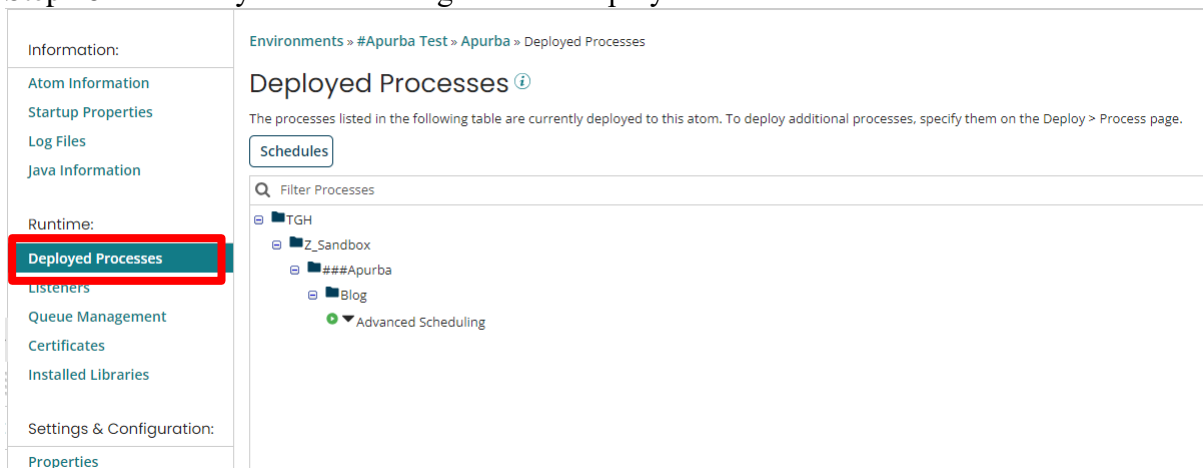
Step 16. Click on “Close”.



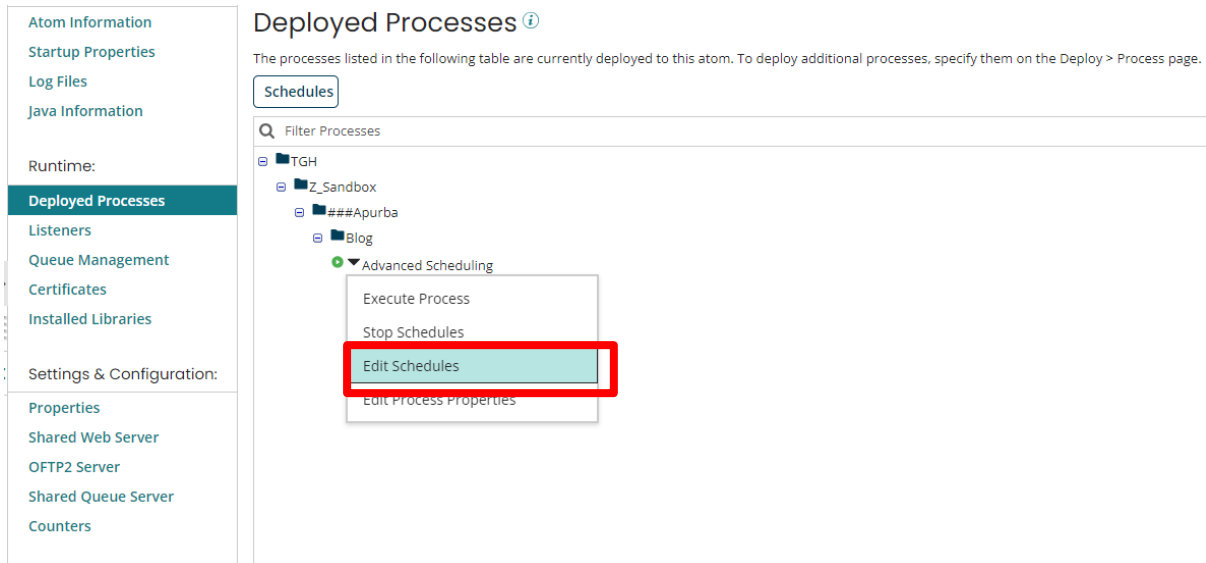
Step 17. Click on “Atom Management”.



Step 18. Click on your Atom and go to the “Deployed Process” tab.



Step 19. Click on the down arrow beside the process name and click on “Edit Schedules”.



Step 20. Click on “Add” button to add a schedule.

## Scheduling

Schedule when this process runs on the Atom. The times scheduled will run based on the Atom's time zone, which is (UTC+05:30) India Standard Time, which may not be the same as the local time zone where the schedule was created.



Step 21. Now from Type choose Advanced.

### Scheduling

Schedule when this process runs on the Atom. The times scheduled will run based on the Atom's time zone, which is (UTC+05:30) India Standard Time, which may not be the same as the local time zone where the schedule was created.

Execution **Retry**

8:00 AM to 6:59 PM every 15 minutes on 5 of 7 days

Type:  (dropdown menu open with options: Minute, Hour, Day, **Advanced**)

Start Time:

End Time:

Interval\*:

Days of the Week:  Monday,  Tuesday,  Wednesday,  Thursday,  Friday,  Saturday,  Sunday

Step 22. First schedule will be used to configure the schedule for hours 0, 3, 6, 9, 12, 15, 18, 21 at the top of the hour.

## Scheduling

Schedule when this process runs on the Atom. The times scheduled will run based on the Atom's time zone, which is (UTC+05:30) India Standard Time, which may not be the same as the local time zone where the schedule was created.

Execution **Retry**

Advanced	Type	Advanced
	Minutes (0-59)	0
	Hours (0-23);	0,3,6,9,12,15,18,21
	Days of Week (1-7)	*
	Days of Month (1-31)	*
	Months (1-12)	*
	Years	*

Step 23. Second schedule will be used to configure the schedule for hours 0, 3, 6, 9, 12, 15, 18, 21 at 45 minutes past the hour

## Scheduling

Schedule when this process runs on the Atom. The times scheduled will run based on the Atom's time zone, which is (UTC+05:30) India Standard Time, which may not be the same as the local time zone where the schedule was created.

Execution [Retry](#)

<input type="button" value="Add"/>	<input type="button" value="Delete"/>	Type	Advanced <input type="button" value="v"/>
<div style="border: 1px solid #ccc; padding: 5px;"><p>Advanced</p><p>Advanced</p></div>		Minutes (0-59)	45
		Hours (0-23);	0,3,6,9,12,15,18,21
		Days of Week (1-7)	*
		Days of Month (1-31)	*
		Months (1-12)	*
		Years	*

Step 24. Third schedule will be used to configure the schedule for the hours 1, 4, 7, 10, 13, 16, 19, 22 at 30 minutes past the hour

## Scheduling

Schedule when this process runs on the Atom. The times scheduled will run based on the Atom's time zone, which is (UTC+05:30) India Standard Time, which may not be the same as the local time zone where the schedule was created.

Execution **Retry**

Advanced	Type	Advanced
Advanced	Minutes (0-59)	30
Advanced	Hours (0-23)	1,4,7,10,13,16,19,22
Advanced	Days of Week (1-7)	*
	Days of Month (1-31)	*
	Months (1-12)	*
	Years	*



Step 25. Fourth schedule will be used to configure the schedule for the hours 2, 5, 8, 11, 14, 17, 20, 23 at 15 minutes past the hour.

## Scheduling

Schedule when this process runs on the Atom. The times scheduled will run based on the Atom's time zone, which is (UTC+05:30) India Standard Time, which may not be the same as the local time zone where the schedule was created.

**Execution**   **Retry**

Advanced	Type	Advanced
Advanced	Minutes (0-59)	15
Advanced	Hours (0-23);	2,5,8,11,14,17,20,23
Advanced	Days of Week (1-7)	*
	Days of Month (1-31)	*
	Months (1-12)	*
	Years	*

Step 26. Now click on “Ok” to save the schedules.

## Scheduling

Schedule when this process runs on the Atom. The times scheduled will run based on the Atom's time zone, which is (UTC+05:30) India Standard Time, which may not be the same as the local time zone where the schedule was created.

Execution
Retry

Add

Delete

<div style="border: 1px solid #ccc; padding: 5px; min-height: 200px;"> <p>Advanced</p> <p>Advanced</p> <p>Advanced</p> <p style="background-color: #e0e0e0;">Advanced</p> </div>	<table border="0" style="width: 100%;"> <tr> <td>Type</td> <td><input type="text" value="Advanced"/></td> </tr> <tr> <td>Minutes (0-59)</td> <td><input type="text" value="15"/></td> </tr> <tr> <td>Hours (0-23);</td> <td><input type="text" value="2,5,8,11,14,17,20,23"/></td> </tr> <tr> <td>Days of Week (1-7)</td> <td><input type="text" value="*"/></td> </tr> <tr> <td>Days of Month (1-31)</td> <td><input type="text" value="*"/></td> </tr> <tr> <td>Months (1-12)</td> <td><input type="text" value="*"/></td> </tr> <tr> <td>Years</td> <td><input type="text" value="*"/></td> </tr> </table>	Type	<input type="text" value="Advanced"/>	Minutes (0-59)	<input type="text" value="15"/>	Hours (0-23);	<input type="text" value="2,5,8,11,14,17,20,23"/>	Days of Week (1-7)	<input type="text" value="*"/>	Days of Month (1-31)	<input type="text" value="*"/>	Months (1-12)	<input type="text" value="*"/>	Years	<input type="text" value="*"/>
Type	<input type="text" value="Advanced"/>														
Minutes (0-59)	<input type="text" value="15"/>														
Hours (0-23);	<input type="text" value="2,5,8,11,14,17,20,23"/>														
Days of Week (1-7)	<input type="text" value="*"/>														
Days of Month (1-31)	<input type="text" value="*"/>														
Months (1-12)	<input type="text" value="*"/>														
Years	<input type="text" value="*"/>														

Cancel

OK

Step 27. This Message will be shown.

Runtime:

**Deployed Processes**

Listeners

Queue Management

Certificates

Installed Libraries

Settings & Configuration:

Properties

Shared Web Server

OFTP2 Server

Shared Queue Server

Counters

Deployment:

Atom & Connector Versions

Runtime Release Scheduling

Filter Processes

- TGH
  - \_z\_Sandbox
    - ###Apurba
      - Blog
        - Advanced Scheduling

ⓘ Schedules saved
×

*Note: All configurations are done, now this process will run every 45 minutes.*

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Partner

## 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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