

# **API Management Plus**

**Activity Guide** 

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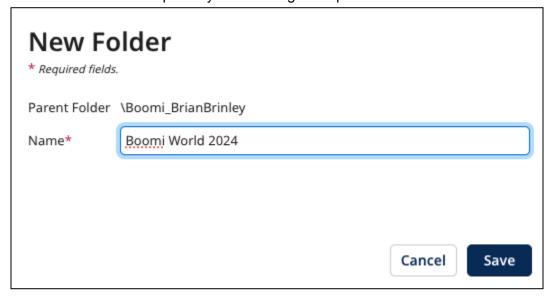
## **APIM Training - Create a Sample API**

Welcome to API Management Plus Boomi World Training, where you'll build a working basic API Hosted in the Boomi Public Cloud and accessible from any device connected to the internet.

In this activity you'll create a basic Web Service that will acknowledge the users request and generate a random number in order to affirm that a successful execution has been completed.

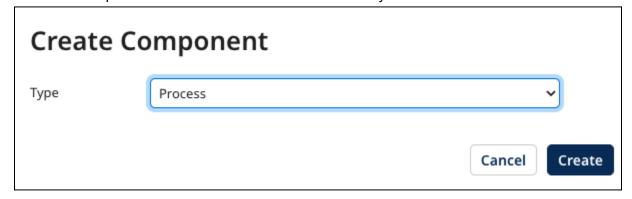
Step 1 - Create a new Folder in the Build Tab

This folder will be the repository for the integration processes we create.

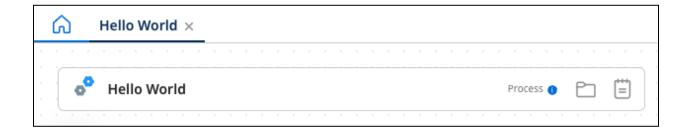


**Step 2 - Create a new Integration Process** 

2.a - The new process should be created inside the newly created Boomi World folder.

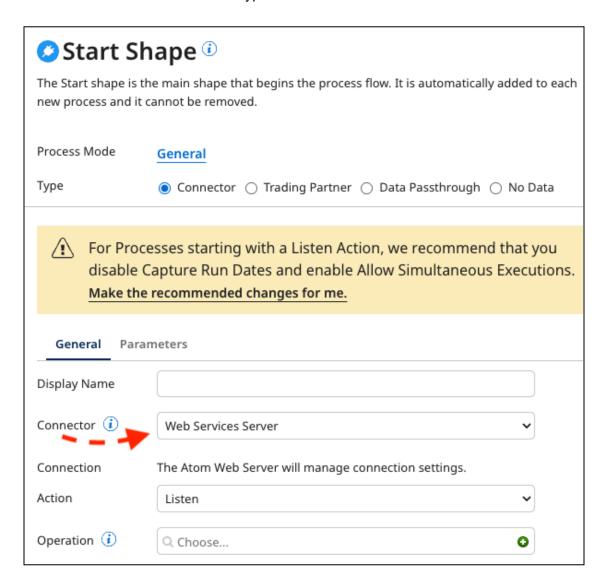


#### 2.b Name the new Process Hello World



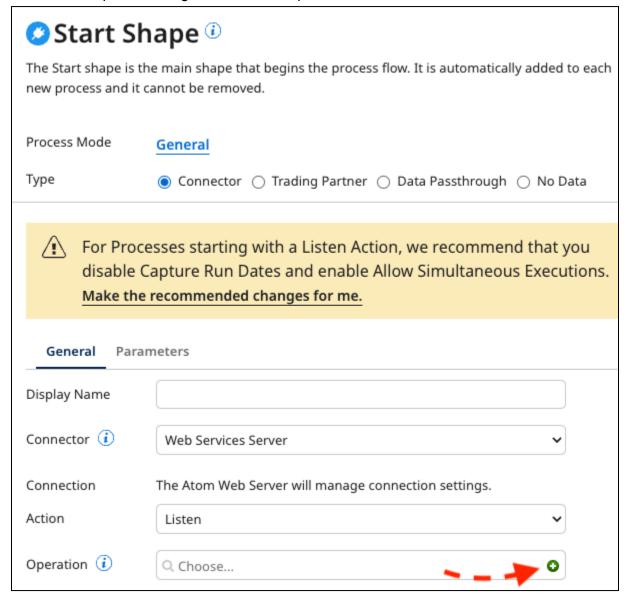
#### **Step 3 - Configure the Start Shape**

Configure the Start shape to use a Web Services Server Connector by selecting the Web Service Server as the Connector Type.

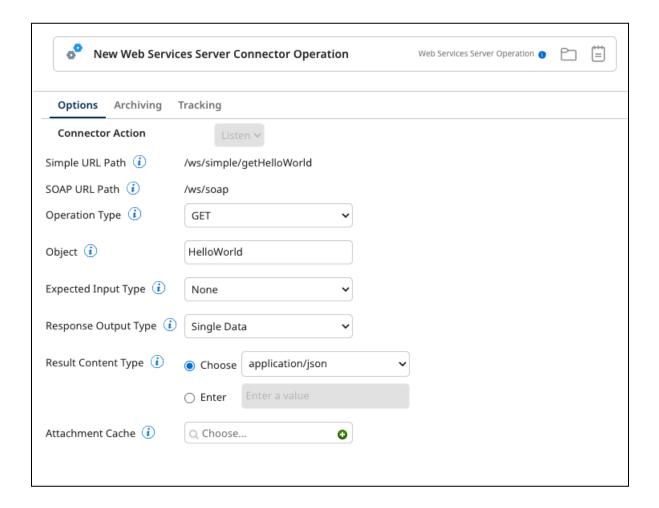


#### **Step 4 - Configure the Start Shape Operation**

#### 4.a - Click the plus icon to generate a new Operation



- 4.b Configure the following Operation Details.
  - 1. Operation Type = Get
  - 2. Object = HelloWorld
  - 3. Expected Input Type = None
  - 4. Response Output Type = Single Data
  - 5. Result Content Type = application/json



- 4.c Click the Save and Close Button to close the operation.
- 4.d Choose the "Make the recommended changes for me" option on the Start Shape popup menu.

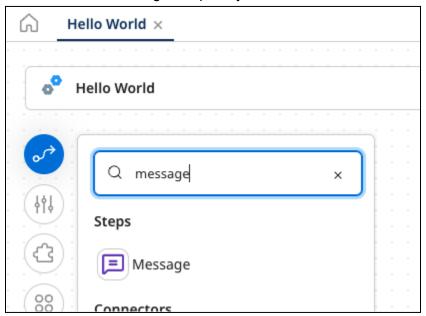


For Processes starting with a Listen Action, we recommend that you disable Capture Run Dates and enable Allow Simultaneous Executions. Make the recommended changes for me.

4.e - Click the OK button on the Start Shape to save the changes.

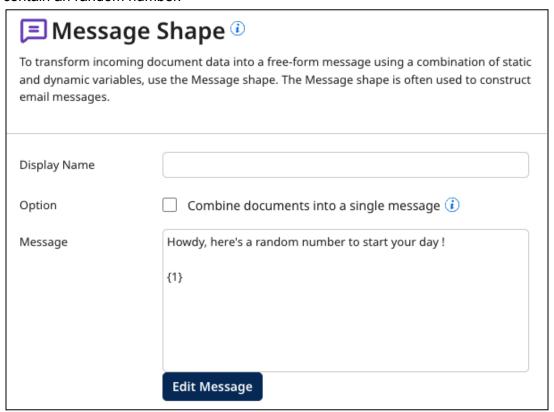
#### **Step 5 - Create a response message.**

5.a - Add a new Message Shape to your Process Canvas.

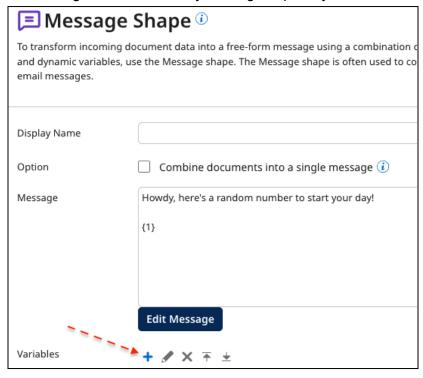


5.b - Connect the Start Shape to the new Message Shape on the Canvas.

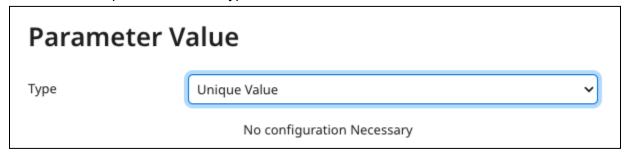
5.c - Configure the message shape to populate a response message, plus a variable that will contain an random number.



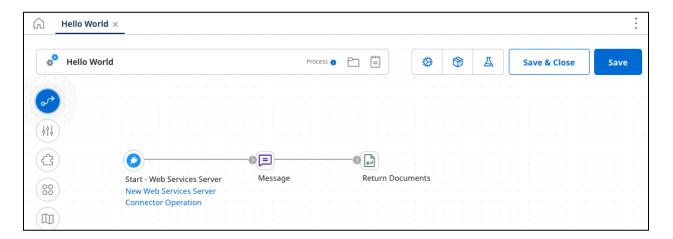
#### 5.d - Configure the Variable by clicking the plus symbol



#### 5.e - Select Unique Value as the Type



5.f - Add a Return Documents shape and connect the message shape to the return documents shape. At this point your integration should look like the following.

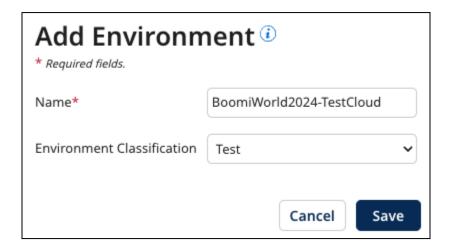


#### Step 6 - Create a new deployment environment

6.a - Create a new test Environment by clicking on the Manage > Atom Management Menu Item. NOTE: If you already have an existing public test atom cloud setup you can skip directly to Step 8.



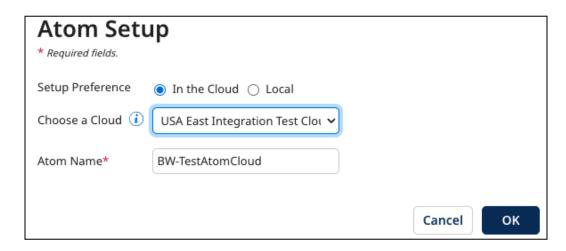
Click the New button and select Environment - Name your new Environment with a unique name. Example Below -



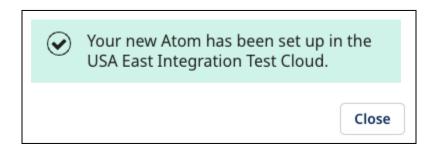
#### Step 7 - Create and Attach a new Atom Cloud

Now that we have created a new Environment, we need to create a new Test Atom Cloud. By default you are provided one test and production atom cloud attachment as part of your atomsphere licensing.

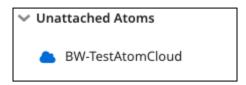
7.a - At the same Atom Management Menu we selected a new environment, we will now again select New and then choose Select Atom. At the popup window we will select the In the Cloud preference and then select an available test cloud. Provide a name for reference, you can also use the same name as the newly created environment.



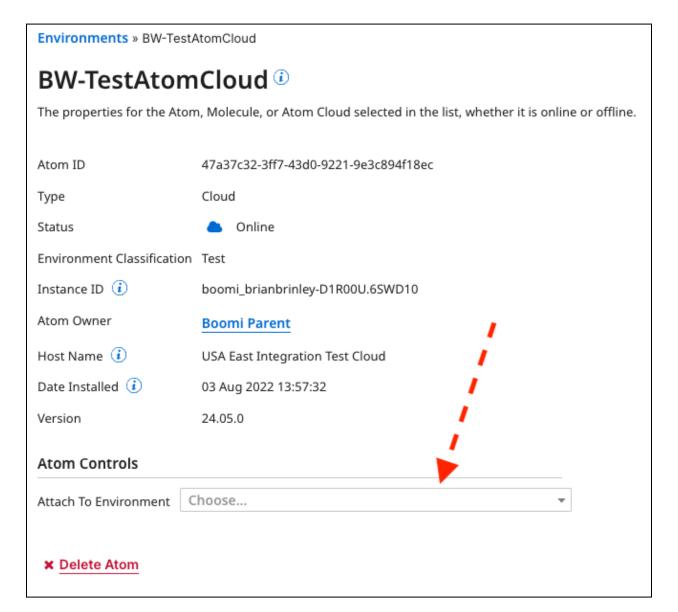
Click the OK button to continue. If all is successful you will receive a confirmation, as noted below.



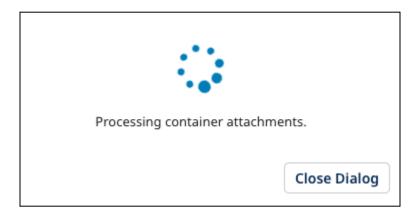
7.b - Next we need to attach the newly created Atom to the newly created environment. Navigate to the Unattached Atoms section of the Atom and Environments list and select the newly created Atom



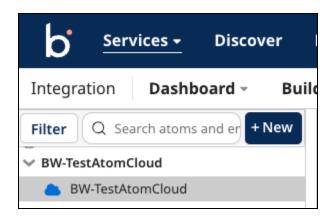
Once selecting the name of the Atom. In the right pane you will now be presented with the option to attach this atom to an environment. Select from the dropdown and choose your newly created environment. NOTE: Upon clicking the environment it will immediately begin the attachment, so be cautious when selecting the correct environment.



Once selected you will be prompted with the following status update letting you know it is being processed.



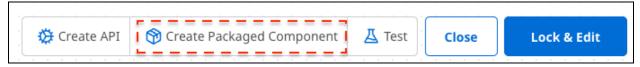
Once completed, you will now see the atom as part of the new environment.



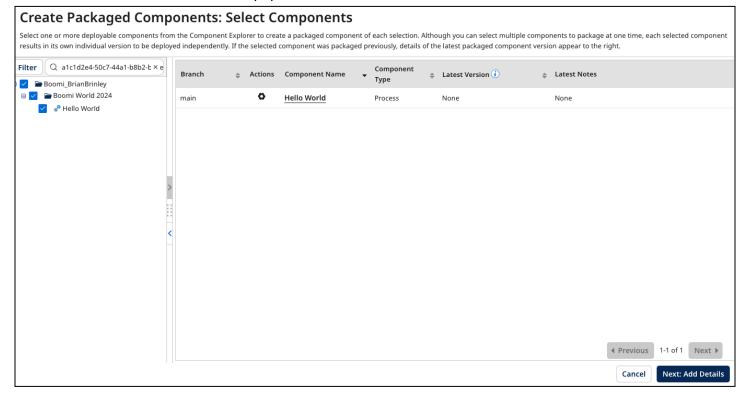
Step 8 - Deploy to the newly Created Public Atom Cloud

Navigate back to the Boomi Build Canvas and open the newly created Hello World Service from Step 2.

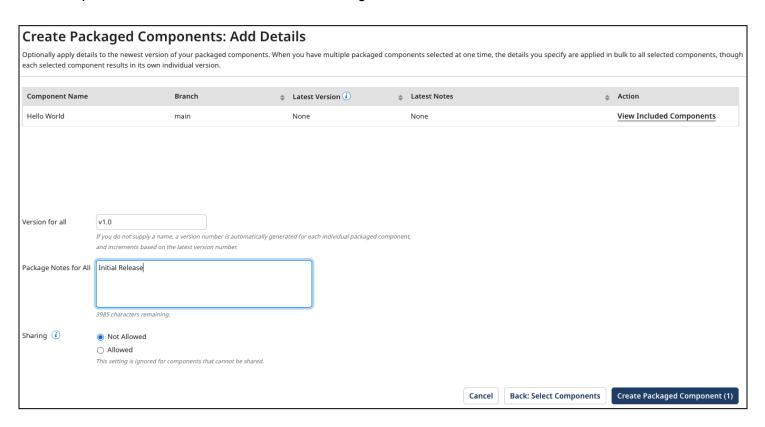
Choose the "Create Packaged Component" Button, do not select the Create API option.



#### Click the Next: Add Details to populate the release details.



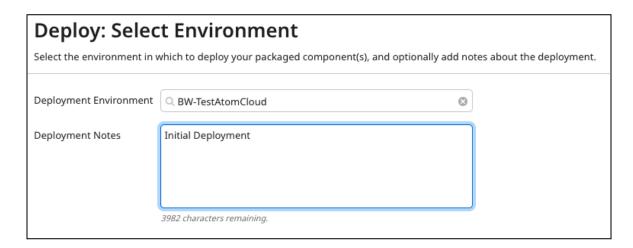
#### Populate an initial version number and Package release notes



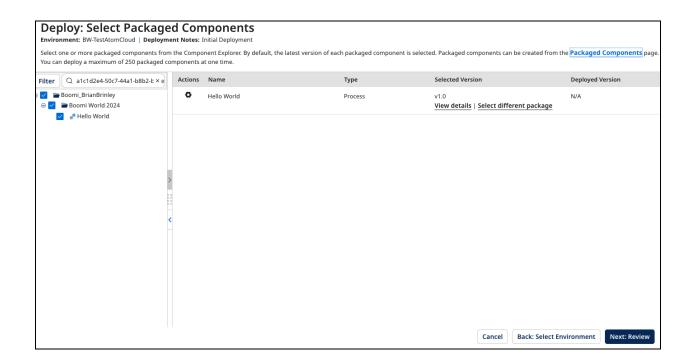
Next, click the Create Packaged Components and you should be prompted with the option to Deploy

# Packaged Components Successfully Created Your packaged components were successfully created. To deploy your packaged components, click on the deploy button below. Close Deploy

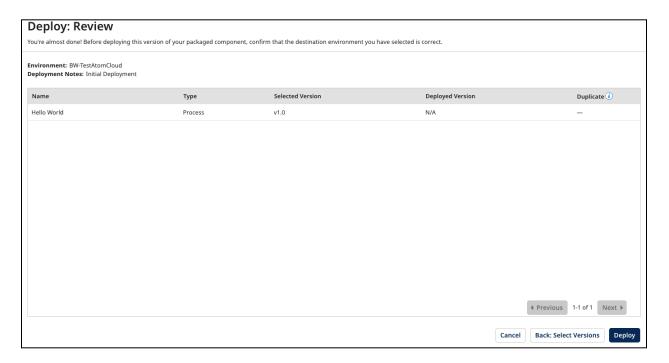
Click the Deploy button to proceed and select the newly created environment and add an initial deployment note.



Choose Select Versions and then click Review



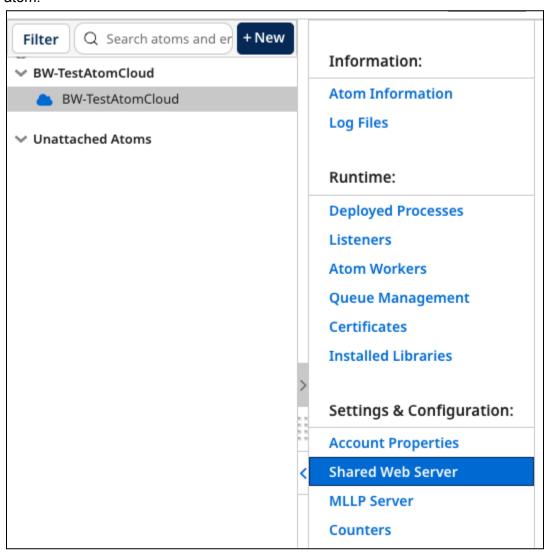
Finally, confirm the selected values are correct and select the Deploy button.



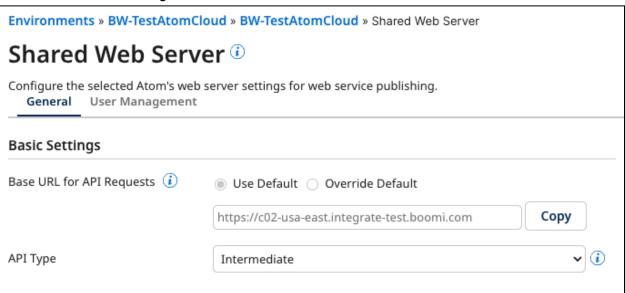
#### Step 9 - Gather URL Details -

Now that we've deployed the service, next we need to determine the published URL.

9.a - Navigate back to the Atom management screen and select the newly created test cloud atom.



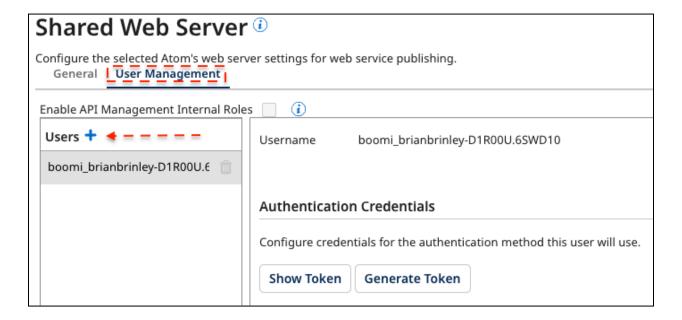
9.b - Once selected, navigate to the Shared Web Server sub menu to determine the base URL.



Save the copied URL for future reference.

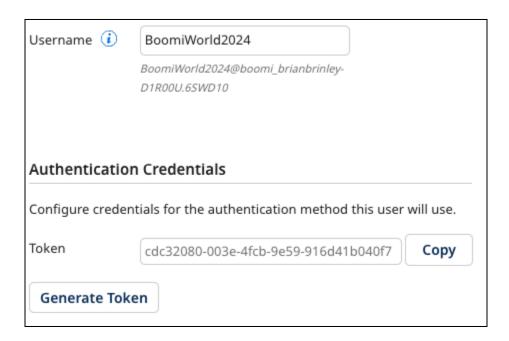
9.c - We will then need to create a new user to pass for authentication.

Navigate to the User Management Tab inside the Shared Web Server Settings, and click the Blue Plus symbol to create a new User.



Input a value for the name such as "BoomiWorld2024", then click the Save button.

Once you have saved the new user you can now click the Show Token button to generate the users authentication password for basic authentication.



**Step 10 - Call your new Service** 

The final step is to generate a web URL to call the new service. In our previous steps we gather enough information to generate the complete path to our newly created integration.

10a - The overall URL template is as follows.

#### <<Base URL for API Requests>>/<<Simple URL Path>>

10b - Add the Authentication. Since the new service requires Basic Authentication, we are able to pass these values in the form of the URL path. Note: There is a colon between the username and token, and an "@" before the Base URL.

https://<<Username>>:<<Token>>@<<Base URL for API Requests, minus the https://>>/<<Simple URL Path>>

10c - Example URL: - Note: The authentication below is for reference only and not a valid login

 $\frac{https://BoomiWorld@boomi\_brianbrinley-D1R00U.6SWD10:4732cd0a-6d21-433c-bacf-8fa0cb9f012e@c02-usa-east.i}{ntegrate-test.boomi.com/ws/simple/getHelloWorld}$ 

10d - Paste the new URL into your web browser, if all is successful you will receive a response message as such.



Congratulations, you've built a working API Integration.