



Boomi

Developer 3

Section 1

Version 7.1

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Check configuration of Production and Test environments

Check configuration of Production and Test environments

In Boomi Essentials or Developer 1 or 2, you created two different environments: Production and Test. The Atom Cloud is attached to the Production environment, and the Test Atom Cloud is attached to the Test environment. In this exercise, you will confirm that environments and atoms are configured correctly in your training account.

Check Environment setup under Manage > Atom Management

1. Confirm that your account has a Production environment with the Atom Cloud attached.

The screenshot shows the 'Manage' tab selected in the top navigation bar. On the left, a sidebar lists environments: 'Production' (selected and highlighted with a yellow box) and 'Test'. Under 'Production', there is an 'Atom Cloud' entry. On the right, the main panel displays 'Environments » Production' with a 'Production' section. It shows 'Information' fields: Environment ID (b76e2fe1-ade4-41cc-b3e5-c5eee097822b) and Classification (Production). In the 'Configuration' section, the 'Attachments' field contains 'Atom Cloud', which is also highlighted with a yellow box.

2. Confirm that your account has a Test environment with the Test Atom Cloud attached.

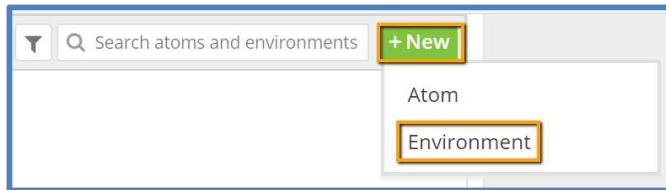
The screenshot shows the 'Manage' tab selected in the top navigation bar. On the left, a sidebar lists environments: 'Production' and 'Test' (selected and highlighted with a yellow box). Under 'Test', there is a 'Test Atom Cloud' entry. On the right, the main panel displays 'Environments » Test' with a 'Test' section. It shows 'Information' fields: Environment ID (2f75b9a4-a41e-425d-b825-2b8d22babde0) and Classification (Test). In the 'Configuration' section, the 'Attachments' field contains 'Test Atom Cloud', which is also highlighted with a yellow box.

If necessary, create the required environment(s) and atom(s), and then attach atom(s)

3. To create a new environment, click on **+ New** and then select **Environment**.



Check configuration of Production and Test environments



4. Name the environment **Production** with an Environment Classification of Production. Click **Save** to finish creating the environment.

Add Environment ?

* Required fields.

Name*

Environment Classification

Save **Cancel**

5. To create a new atom, click on **+ New** and then select **Atom**.



6. For a Production atom, choose Setup Preference **In the Cloud**, Choose the **Atom Cloud**, and for Atom Name enter **Atom Cloud**. Click **OK** to finish creating the atom.

Atom Setup

* Required fields.

Setup Preference Local In the Cloud

Choose a Cloud

Atom Name*

OK **Cancel**



7. To attach an atom to an environment, click on the name of the environment.



Check configuration of Production and Test environments

The screenshot shows a search interface with a filter icon, a search bar containing 'Search atoms and environments', and a green '+ New' button. Below the search bar, the word 'Production' is highlighted with an orange border. Underneath 'Production', there is a section titled 'Unattached Atoms' with a cloud icon labeled 'Atom Cloud'.

8. Under **Configuration**, click in the **Attachments** field and select the atom from the drop down.

This screenshot shows the 'Production' environment configuration page. It includes sections for 'Information' (Environment ID: e9cd0999-9c3e-4990-8060-923fd5e9d2cb, Classification: Production), 'Configuration' (Roles: Unrestricted, Attachments: Atom Cloud), and 'Administration' (Environment Extensions, Delete Environment). The 'Attachments' dropdown menu is open, showing 'Atom Cloud' selected.

This screenshot shows the 'Configuration' page, which includes 'Roles' (Unrestricted) and 'Attachments' (Atom Cloud). The 'Attachments' dropdown menu is open, showing 'Atom Cloud' selected.

9. Repeat necessary steps from those above (steps 3-8) in order to create a Test environment with the Test Atom Cloud attached.



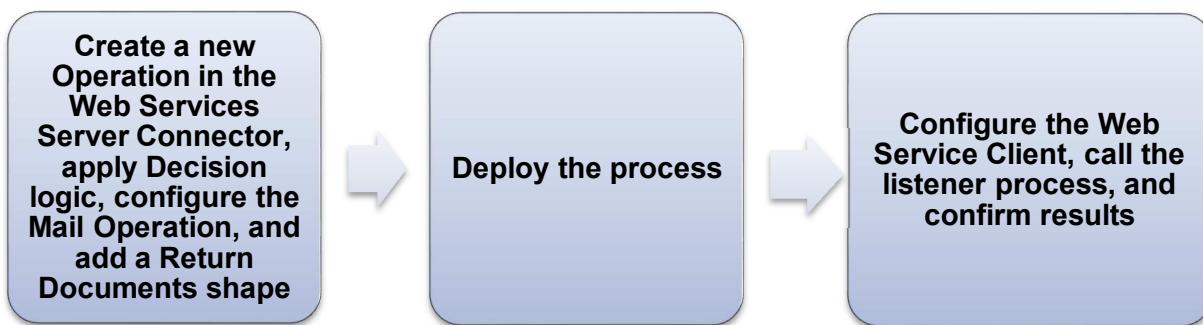
Web Services Integration Activity

Web Services Integration Activity Scenario

Users enter contact information into an online form, which is then sent to the Dell Boomi Web Server. An AtomSphere process validates the information and returns appropriate responses ('New Contacts' or 'Invalid Emails'). Valid contact information is sent via email to the appropriate team member for logging and reporting.

Goal

Modify two processes to enable Web Services Integration.



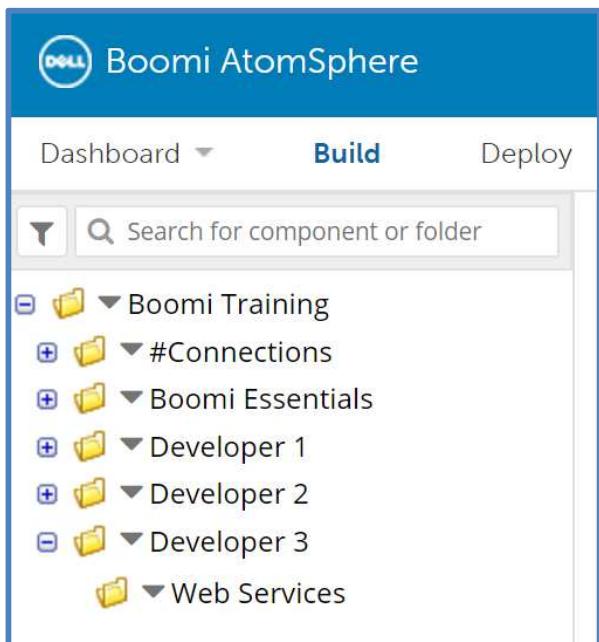
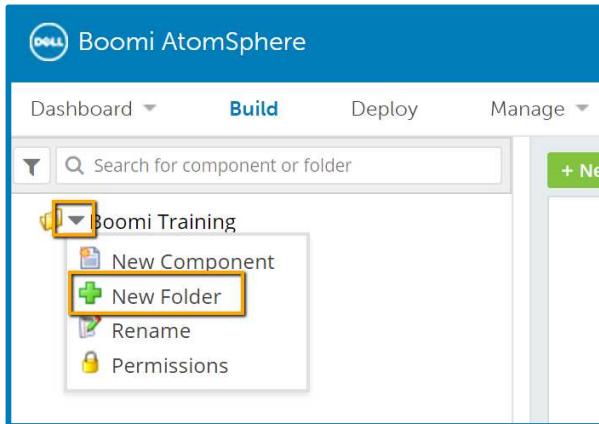
Create a folder and subfolder within your account

When developing a new integration project, organize your setup on the Build Tab of the Component Explorer by setting up folders to organize processes and components. This enables you to configure and store a unique Process containing the workflow and processing rules for your business scenario. We begin class by creating a new folder to store the processes we will use for our exercises.

1. Click on the blue dropdown arrow next to the **Boomi Training** folder.
2. Choose New Folder and name it **Developer 3**.
3. In the **Developer 3** folder create a new folder called **Web Services**.



Web Services Integration Activity



Load the processes from the Process Library

4. Open the Process Library by clicking on **Browse Process Library** at the bottom of the Component Explorer

Browse Process Library

5. The Boomi Process Library lets you browse, view, and install published processes into your account. We will use the Process Library throughout this class to pull in processes for our activities. In the right column search bar enter the class ID ("Dev3") and press Enter.
6. Click **Install** next to Web Service Client.



Web Services Integration Activity

The screenshot shows the Boomi Process Library interface. At the top, there is a search bar with the text 'Dev3' and a filter section for 'Publisher' with options for 'Dell Boomi' and 'Education Services'. Below this, the 'Search Results' section is displayed, showing two items:

- Web Service (Client)**: Published on 16 Jun 2017 14:09:26 by Education Services. It has 'View' and 'Install' buttons.
- Web Services Activity (RESTful)**: Published on 16 Jun 2017 14:09:26 by Education Services. It also has 'View' and 'Install' buttons.

7. Click **Choose...** next to Select Installation Location and navigate to the Web Services folder.
8. Click **Install** in the lower-right corner. The process is now installed in your account.
9. Click **Back to Library** to return to the Process Library search results.
10. Click **Install** next to Web Services Activity (RESTful).
11. The Web Services folder is already selected. Click **Install** in the lower-right corner.
12. The process is now installed in your account. Click **View Process**.

Configure the Web Services Activity (RESTful) Process

13. In the **Web Services Activity (RESTful)** process, click the Start shape, and create a new Operation.

The screenshot shows the configuration dialog for a 'Start Shape'. The title is 'Start Shape ?'. It includes a description: 'The Start shape is the main shape that begins the Dell Boomi AtomSphere process flow. It is automatically added to each new process and it cannot be removed.' Below this, there are tabs for 'General' and 'Parameters', with 'General' selected. The 'General' tab contains the following fields:

Process Mode	Low Latency
Display Name	<input type="text"/>
Connector	Web Services Server
Action	Listen
Connection	The Atom Web Server will manage connection settings.
Operation	<input type="text"/> Choose...

14. Name the Operation '**Create Contact**' then set the Operation Type to **CREATE** and enter '**Contact**' in the Object field. Then, change the Input Type to **Single XML Object**.



Web Services Integration Activity

Create Contact Web Services Server Operation (?) Folder Add Description

Options Archiving Tracking

Connector Action Listen ▾

Simple URL Path /ws/simple/createContact

Soap URL Path /ws/soap- Unavailable

Operation Type CREATE ▾

Object contact

Input Type Single XML Object ▾

Request Profile Choose... Search Edit New

Output Type None

Attachment Cache Choose... Search Edit New

15. Click **Save and Close**. Click **OK** in the Start shape General tab to return to the process canvas.
16. Open the Decision shape to enter the process routing logic. For the First Value, a Profile Element, choose the Flat File ‘Contact’ profile and select **Email** from the Elements list.

Parameter Value

Type Profile Element

Profile Type Flat File

Profile Contact

Element Choose... Search Edit New

New Output Please choose an element.

Record

Elements

FirstName

LastName

Email

17. Set the Comparison Type to **Matches Wildcards**, then enter the following Static parameter for the Second Value: ***@*.***

Decision Shape (?)

The Decision shape routes documents based on a true/false comparison of two values. Those values can be anything from field values in the current document (profile elements), static values, results of a database, an application query, and more.

Display Name Valid Email?

First Value Search Edit

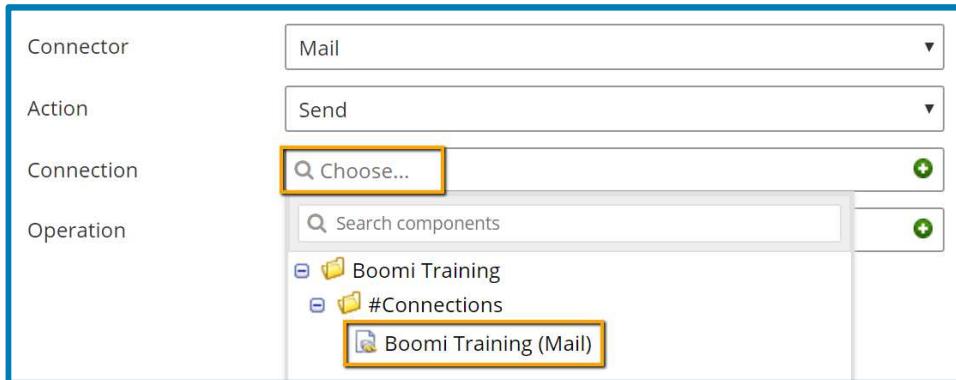
Comparison Matches Wildcards

Second Value Search Edit

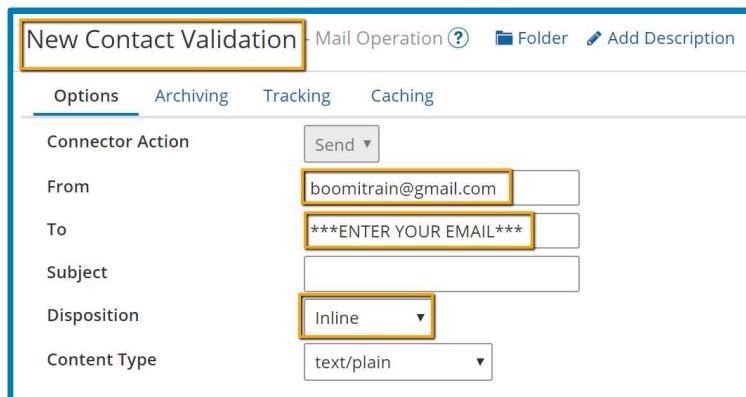


Web Services Integration Activity

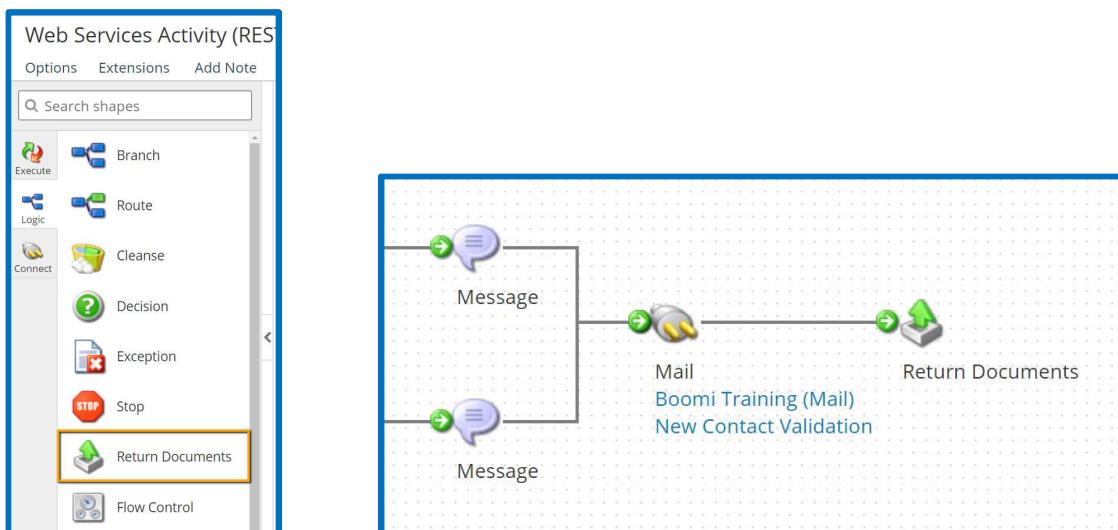
18. The Mail Connector uses the **Boomi Training (Mail)** Connection already in your #Connections folder. Open the Mail Connector and choose the Mail Connection.



19. Create a new Mail Operation named '**New Contact Validation**' and configure according to the following image. (The Subject can be left blank, because the Set Properties shapes are configured to create Static value subjects for both True and False documents.)



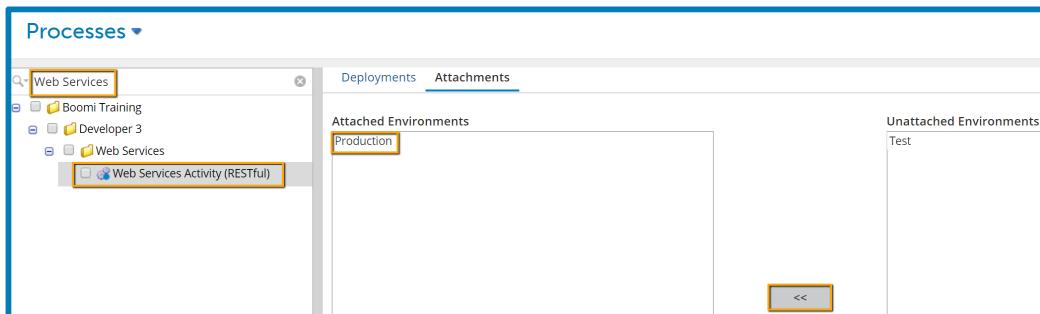
20. Add a **Return Documents** shape at the end of the process path. This is necessary in order to return documents to the web service client application. **Save** the process.



Web Services Integration Activity

Deploy the process

21. Click the **Deploy** tab.
22. Attach the process to your Production Environment, then click **Deploy Latest Revision of Process**. (Enter 'Web Services' in the Filter Processes search bar to locate the process easily.)



Version	Actions	Deployed By	Date Deployed	Deployment ID	Notes

Configure the Web Service Client



Instead of using a third party application to call the listener process, we will leverage the HTTP Client Connector to use Boomi AtomSphere as the Web Service Client.

23. Open the process **Web Service (Client)** process in your Web Services folder and open the HTTP Client Connection **Boomi Cloud**.

URL	https://connect.boomi.com
Authentication Type	Basic
User Name	***ENTER USER NAME***
Password	Click to Set



Web Services Integration Activity

24. The User Name and Password are found under the Atom's Shared Web Server settings, which are located in **Manage > Atom Management**. On the **General** tab, confirm the API Type is set to **Intermediate**.

The screenshot shows the 'Shared Web Server' configuration page. The left sidebar lists environments: Production (Atom Cloud) and Test (Test Atom Cloud). The main panel has tabs for 'Information', 'Runtime', 'Settings & Configuration', and 'Account Properties'. The 'Shared Web Server' tab is selected and highlighted with a blue border. In the 'Basic Settings' section, the 'API Type' dropdown is set to 'Intermediate', which is also highlighted with a yellow box.



Since you will be navigating between Atom Management and the Build Tab, it is helpful to open two tabs in your web browser.

25. Under **User Management**, copy the Username.

The screenshot shows the 'User Management' tab. It displays a list of users under 'Enable API Management Internal Roles'. One user, 'trainingtimshaw-TS3MNV.MEV93W', is selected and highlighted with a yellow box. The 'Username' field contains the value 'trainingtimshaw-TS3MNV.MEV93W', which is also highlighted with a yellow box.

- ✓ The default Username is the Atom's Instance ID, which can be seen under 'Atom Information.' Additional users may be added, in which case the **full** username is: `username@AtomInstanceID`.

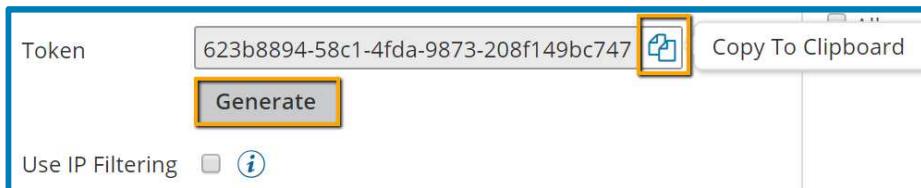
26. Paste the username into the HTTP Client Connection. Remove any white space that may result from copying.

The screenshot shows the 'HTTP Client' configuration page. The 'Settings' tab is selected. The 'URL' field contains 'https://connect.boomi.com'. The 'Authentication Type' dropdown is set to 'Basic'. The 'User Name' field contains the placeholder text '***ENTER USER NAME***', which is highlighted with a yellow box. The 'Password' field has a placeholder 'Click to Set'.

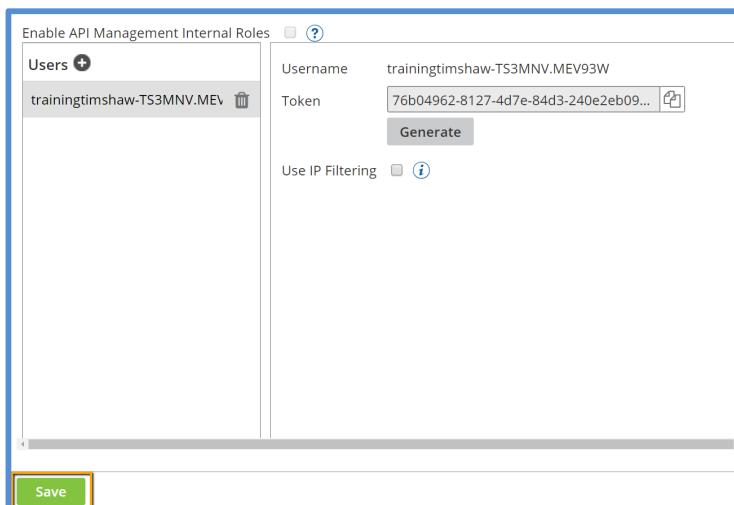


Web Services Integration Activity

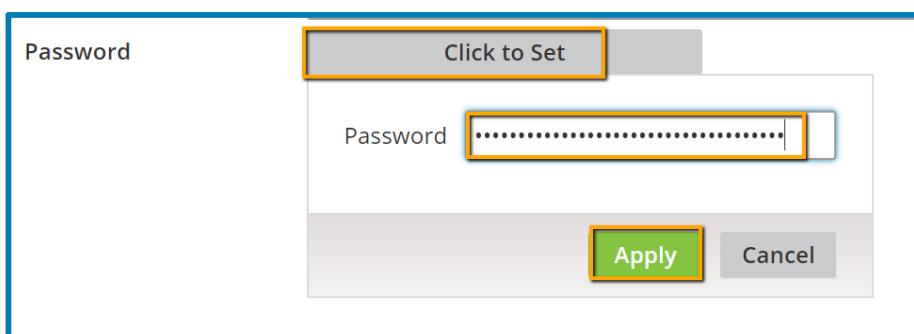
27. To obtain the Password return to the Shared Web Server settings, click **Generate**, and then click the **Copy to Clipboard** icon.



28. Click **Save** to save the Shared Web Server settings. You MUST click **Save**, or you will receive '400' errors when running a test of the process.



29. Enter the Password into the HTTP Client Connection. Click **Save and Close**.



30. In the HTTP Client Connector General tab, click the **(+)** **Create** icon to create a new Operation named '**Create New Contact**'. Accept the default settings, but click **Return HTTP Responses**.



Web Services Integration Activity

Create New Contact - HTTP Client Operation [?](#) [Folder](#) [Add Description](#)

Options Archiving Tracking Caching

Connector Action [Send](#) ▾

Select Request Profile Type: [NONE](#) ▾

Select Response Profile Type: [NONE](#) ▾

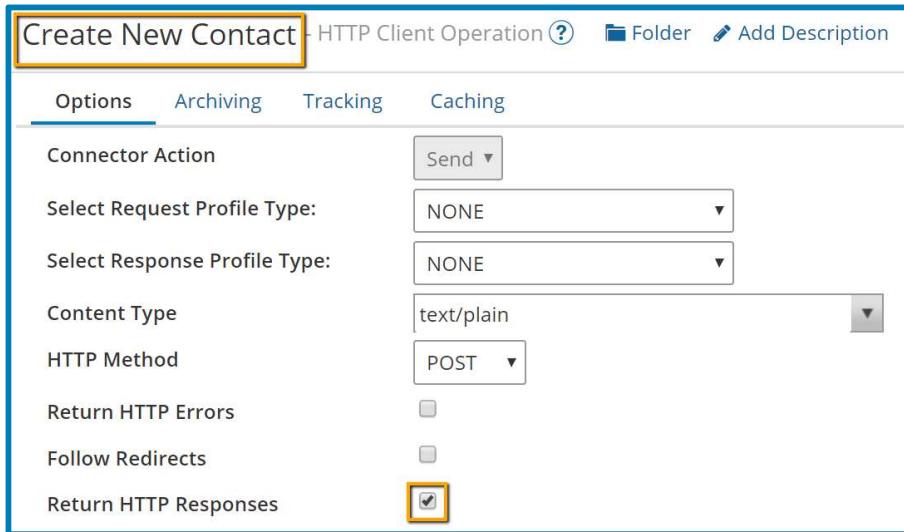
Content Type: [text/plain](#) ▾

HTTP Method: [POST](#) ▾

Return HTTP Errors:

Follow Redirects:

Return HTTP Responses:



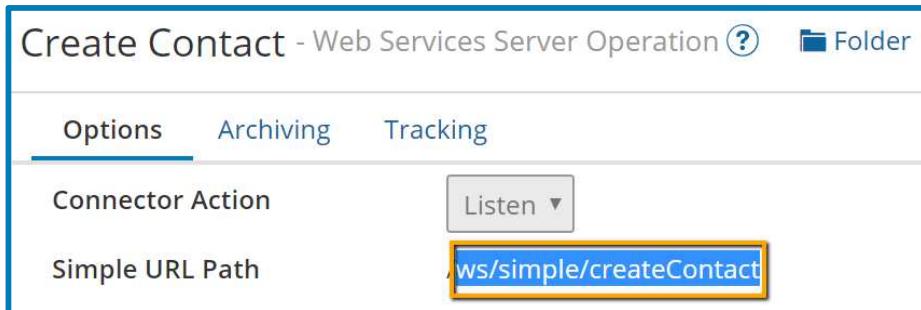
31. The Base URL for API requests using Boomi's Atom Cloud production atom is <https://connect.boomi.com>. The remainder of the URL Path is entered as a Resource Path element in the HTTP Client Operation. This may be copied and pasted from the listener process's Start shape Operation, or it may be hard coded. (If copying and pasting, do **not** include the leading forward slash.) Click **Save and Close**, then click **Save** to save the process.

Create Contact - Web Services Server Operation [?](#) [Folder](#)

Options Archiving Tracking

Connector Action [Listen](#) ▾

Simple URL Path: [ws/simple/createContact](#)

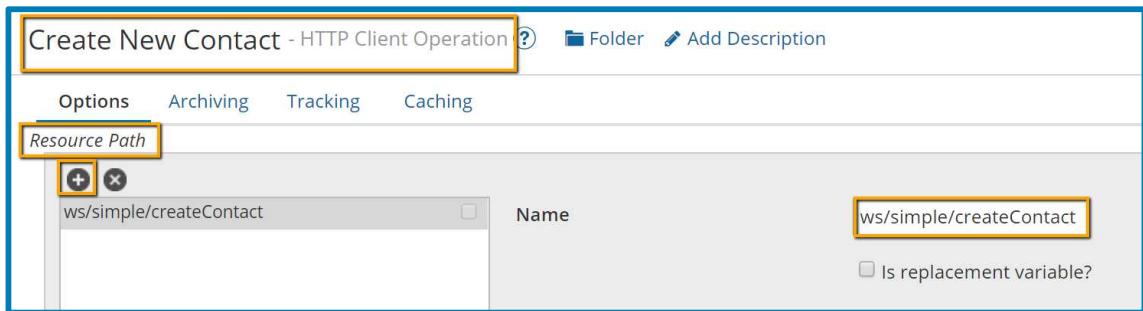


Create New Contact - HTTP Client Operation [?](#) [Folder](#) [Add Description](#)

Options Archiving Tracking Caching

Resource Path [+](#) [x](#)

ws/simple/createContact Name: [ws/simple/createContact](#) Is replacement variable?



Call the listener process using the Web Service (Client) process and confirm results

32. Run a Test of the **Web Service (Client)** process using the Test Atom Cloud.



Web Services Integration Activity

The screenshot shows the Test Atom Cloud interface. At the top, there are buttons for "New Test" and "Retry a Test". Below this is a dropdown menu set to "Test Atom Cloud". A "Test Extensions" section is visible. On the right, there are "Run Test" and "Cancel" buttons. The main area displays a process titled "Process: Web Service (Client)". The process flow consists of four steps: "No Data" (green icon), "Message" (green icon), "HTTP Client Boom Cloud Create New Contact" (green icon), and "End and continue" (red STOP icon). Below the process is a "Documents" table with one row, showing a green checkmark. To the right is a "Test Results" table with tabs for "Logs" and "Connection Data". The "Logs" tab shows the message "There is no data to display.".

33. Both 'New Contacts' and 'Invalid Emails' will arrive in your Inbox.

The screenshot shows the "New Contacts" inbox. It displays two new contacts: "boomitrain@gmail.com" and "Jane Smith". The contact "boomitrain@gmail.com" has a green checkmark next to it. The inbox contains the following messages:

Congratulations! John Doe has been added as a new contact with a correctly formatted email: john@doe.com.

Congratulations! Jane Smith has been added as a new contact with a correctly formatted email: jane@smith.com.

The screenshot shows the "Invalid Emails" inbox. It displays two entries:

Email (john@smithcom) is not correctly formatted. Please resubmit the request.

Email (janedoe.com) is not correctly formatted. Please resubmit the request.



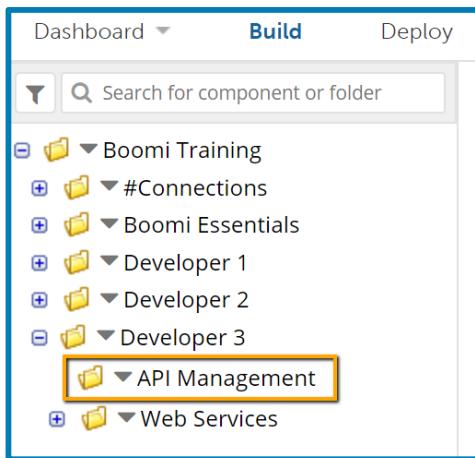
API Management Activity

Activity Overview

We will use two simple Web Services Server processes (Addition and Subtraction) to create an API 'Calculator' demo. The API will allow us to manage multiple listener processes.

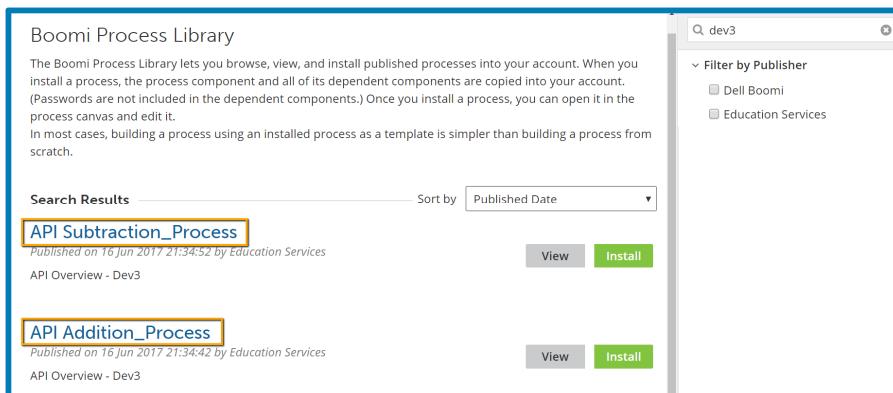
Create a subfolder within your account

1. Click on the blue dropdown arrow next to the **Developer 3** folder.
2. In the Developer 3 folder create a new folder called **API Management**.



3. Open the Process Library by clicking on **Browse Process Library** at the bottom of the Component Explorer.
4. In the right column search bar enter the class ID ("Dev3") and press Enter.
5. Click **Install** next to API Addition_Process.
6. Click **Choose...** next to Select Installation Location and navigate to the API Management folder.
7. Click **Install** in the lower-right corner. The process is now installed in your account.
8. Click **Back to Library** to return to the Process Library search results.
9. Click **Install** next to API Subtraction_Process.
10. The API Management folder is already selected. Click **Install** in the lower-right corner.

API Management Activity



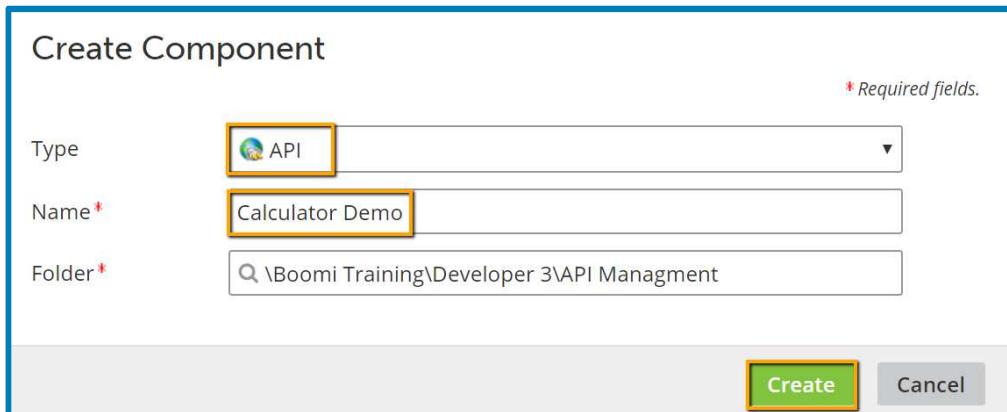
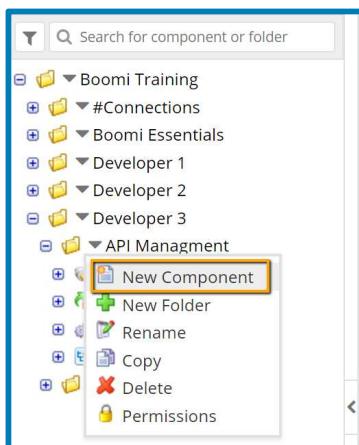
The screenshot shows the Boomi Process Library interface. At the top, there's a search bar with the query "dev3" and a filter section for "Publisher" with options for "Dell Boomi" and "Education Services". Below this, the "Search Results" section displays two processes:

- API Subtraction_Process**: Published on 16 Jun 2017 21:34:52 by Education Services. It has "View" and "Install" buttons.
- API Addition_Process**: Published on 16 Jun 2017 21:34:42 by Education Services. It also has "View" and "Install" buttons.

11. The process is now installed in your account. Click **Close**.

Create and Configure the API Component

12. Click the drop-down arrow next to the API Management folder and select **New Component**. Change the Type to **API**, name the component '**Calculator Demo**', and click **Create**.



The screenshot shows the "Create Component" dialog box. It has three fields:

- Type: API (highlighted)
- Name*: Calculator Demo
- Folder*: \Boomi Training\Developer 3\API Management

At the bottom right are "Create" and "Cancel" buttons.

13. Configure the **General** settings tab. First, add some data under **Published Metadata**, and then set the Base API Path to: **calc/YourName**. You do not need to add a header.

- ✓ *Metadata is publicly exposed upon deployment. This information is written to the API component's Swagger specification profile.*

API Management Activity

The screenshot shows the 'General' tab of the API Configuration screen. It includes fields for Title ('Calculator Demo'), Version Number ('1.0'), Description ('Adding and Subtracting'), and Base API Path ('calc/BoomiTrainer'). The 'Import an Endpoint' button is highlighted in the top right corner.

14. Import the listener processes into the Web Service, so they can be called through the API.
Click the **Import an Endpoint** button in the upper-right corner of the API Component.

The screenshot shows the 'General' tab of the API Configuration screen. The 'Import an Endpoint' button is highlighted in the top right corner.

15. In the **Add Process** window, click the radio button **Use and existing process** and then click **Next**.

The screenshot shows the 'Add Processes' dialog box. The 'Use an existing process' radio button is selected and highlighted with a yellow box.

16. Select the **API Addition_Process** from the API Management folder and click **Add to REST** and **SOAP**. Click **Finish**.

The screenshot shows the 'Use Existing Process' dialog box. The 'Process' field contains 'API Addition_Process'. The 'Add to' section has 'REST' and 'SOAP' checked, while 'OData' is unchecked. A note at the top right says '* Required fields.'



API Management Activity

17. Repeat steps 14-16 to import the **API Subtraction_Process**.
18. Click **Save** to Save the API Component.
19. Click the **REST tab**, click the **Actions** icon to the left of the API Addition_Process and select **Edit Endpoint**.

The screenshot shows the REST Configuration screen for the 'Calculator Demo - API'. The REST tab is active. A context menu is open over the 'addition' entry in the list, with 'Edit Endpoint' highlighted. The list contains two entries: 'API Addition_Process' (HTTP Method: GET) and 'API Subtraction_Process' (HTTP Method: POST).

Actions	Method	Resource Path	Process
—	GET	—	API Addition_Process
Edit Endpoint			
Copy to SOAP		Resource Path	Process
Copy to OData			API Subtraction_Process
Delete Endpoint			

20. Change the HTTP Method from **GET** to **POST**. Scroll down to the bottom of the Modify REST Endpoint window and click **OK**.

The screenshot shows the 'Modify REST Endpoint' dialog box. The 'HTTP Method' dropdown is set to 'POST', which is highlighted with a blue selection bar. Other options include 'GET (Inherited value from selected Process)', 'GET', 'PUT', and 'DELETE'.

21. Repeat steps 19-20 to change the API Subtraction_Process HTTP Method from GET to POST. Click **Save** to Save the API Component.

✓ *Observe the SOAP tab.*

The **SOAP tab** is similar to the REST, but it does not contain as much configuration.

✓ *Observe the Profiles tab.*

The **Profiles tab** contains information regarding the input and output profiles that are defined. We are using simple profiles, without defining their namespaces, so there is not much information here. There is a profile standardization issue. Two different profiles, using the same



API Management Activity

namespace, came from the Process Library. So, we need to standardize one profile, so the API can recognize which profile to use with the Input and Output.

22. Click **input** under 'Empty Namespace.' Under Profile Name: Input_XML, click **Standardize on this profile**. Click **OK** to confirm the action.

The screenshot shows the 'Profiles' tab of the API component window. On the left, there's a tree view with 'Empty Namespace' expanded, showing 'input' and 'output'. The 'input' node is highlighted with a yellow box. On the right, under 'Profile Name: Input_XML', there's a 'Standardize on this profile' button highlighted with a yellow box. Below it, there are two entries: 'INPUT addition POST' and 'INPUT addition'.

23. Click **output** under 'Empty Namespace.' Under Profile Name: Output_XML, click **Standardize on this profile**. Click **OK** to confirm the action.

The screenshot shows the 'Profiles' tab of the API component window. On the left, there's a tree view with 'Empty Namespace' expanded, showing 'input' and 'output'. The 'output' node is highlighted with a yellow box. On the right, under 'Profile Name: Output_XML', there's a 'Standardize on this profile' button highlighted with a yellow box. Below it, there are two entries: 'OUTPUT addition POST' and 'OUTPUT addition'.

24. Click **Save** to save the API Component.
 - ✓ Observe the *Published Information* tab.

The **Published Information** tab contains the information that is provided with the WSDL, which is published when you deploy the Web Service. You can fill out the fields with some generic data.

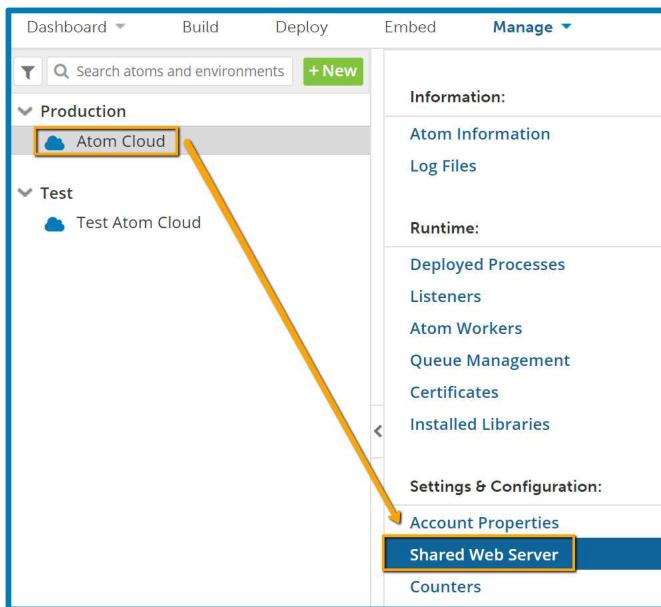
25. Click **Save and Close** at the bottom of the API component window.

Configure the Shared Web Server Settings

26. For the Web Service component to work, we need to configure the Atom's Shared Web Server Settings. Under **Manage > Atom Management**, select the **Atom Cloud** (the atom you will deploy the Web Service and listener processes to), and then click the **Shared Web Server** settings and configuration option.



API Management Activity



27. Under the General tab, Basic Settings, change the API Type to **Advanced**, then click **Save** to save the Shared Web Server settings. You MUST click **Save**, or you will receive '400' errors.

This screenshot shows the 'General' tab selected in the API management interface. Under 'Basic Settings', the 'API Type' dropdown is set to 'Advanced', which is highlighted with a yellow box. The 'Save' button at the bottom is also highlighted with a yellow box.

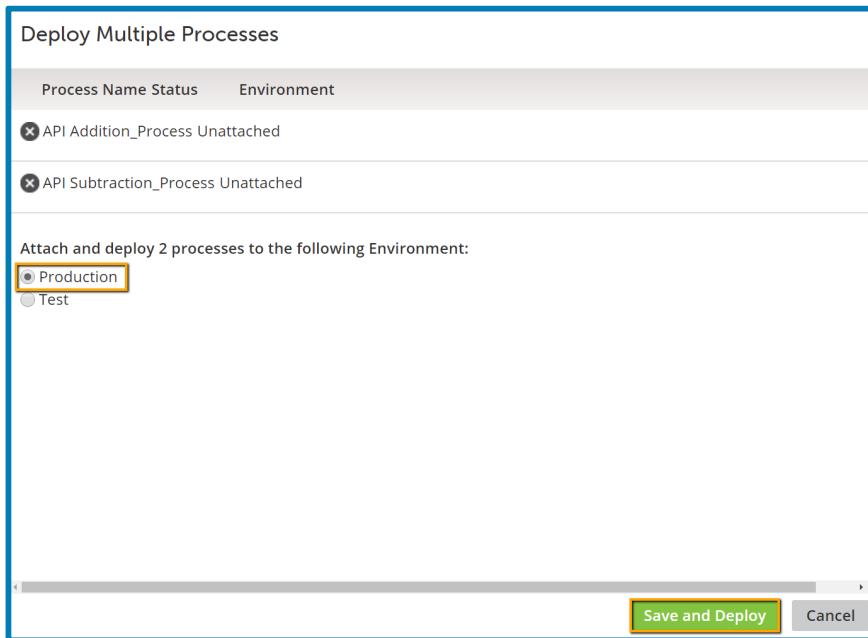
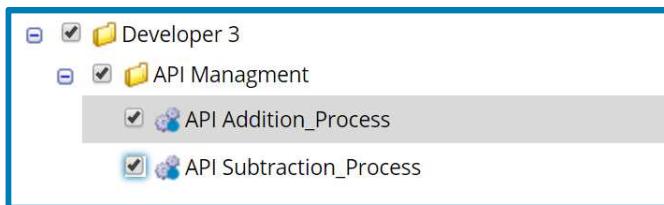
Deploy listener process and the Web Service

28. For our listener and processes and Web Service to work, they need to be deployed. Click on the **Deploy** tab.
29. Enter **API** in the Filter Processes search bar. Click the checkboxes for the Addition and Subtraction processes. Make sure the **Production** environment is selected, then click **Save and Deploy**. Confirm the deployment by clicking **OK** at the bottom of the Deployment

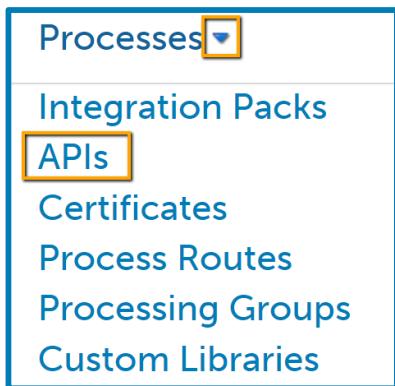


API Management Activity

Configuration window.



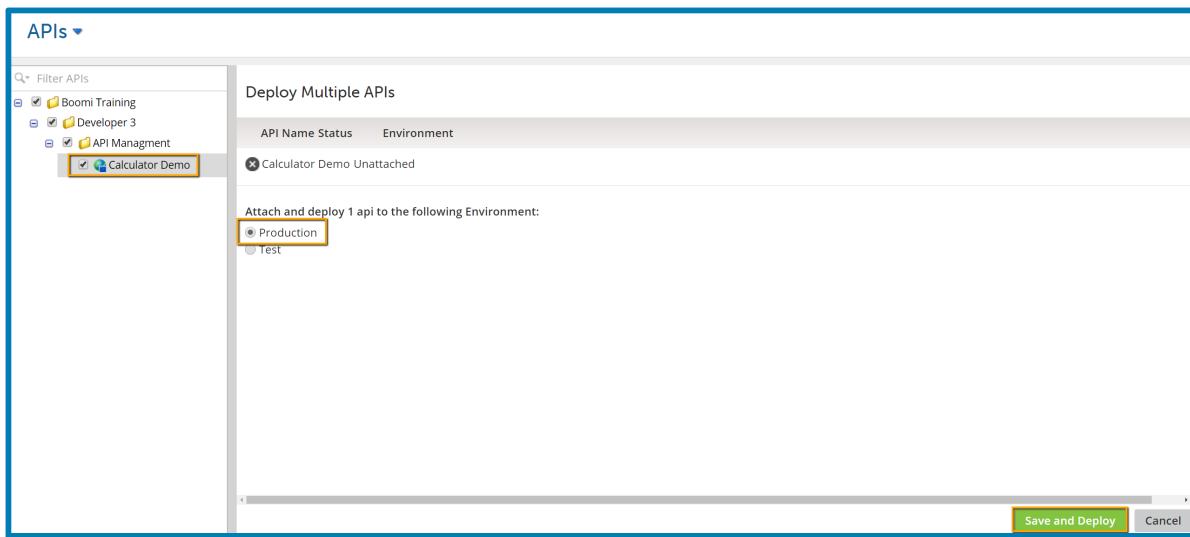
30. Now that the listener processes are deployed, deploy the Web Service. On the **Deploy** tab, select the drop-down next to **Processes** and select **APIs**.



31. Click the checkbox next to **Calculator Demo**, select the **Production** Environment, and click **Save and Deploy**. Click **OK** in the Deployment Confirmation window.



API Management Activity



Observe the API Management Dashboard and support tabs

32. Under Administrator links in the upper-right corner of the platform, select **API Management**.



From this view, you can observe:

- API Management Dashboard,
- APIs in your account,
- API Roles
- API Catalog
- Authentication sources or brokers
- Applications that can call Boomi APIs

EXTRA Step—Test your API!

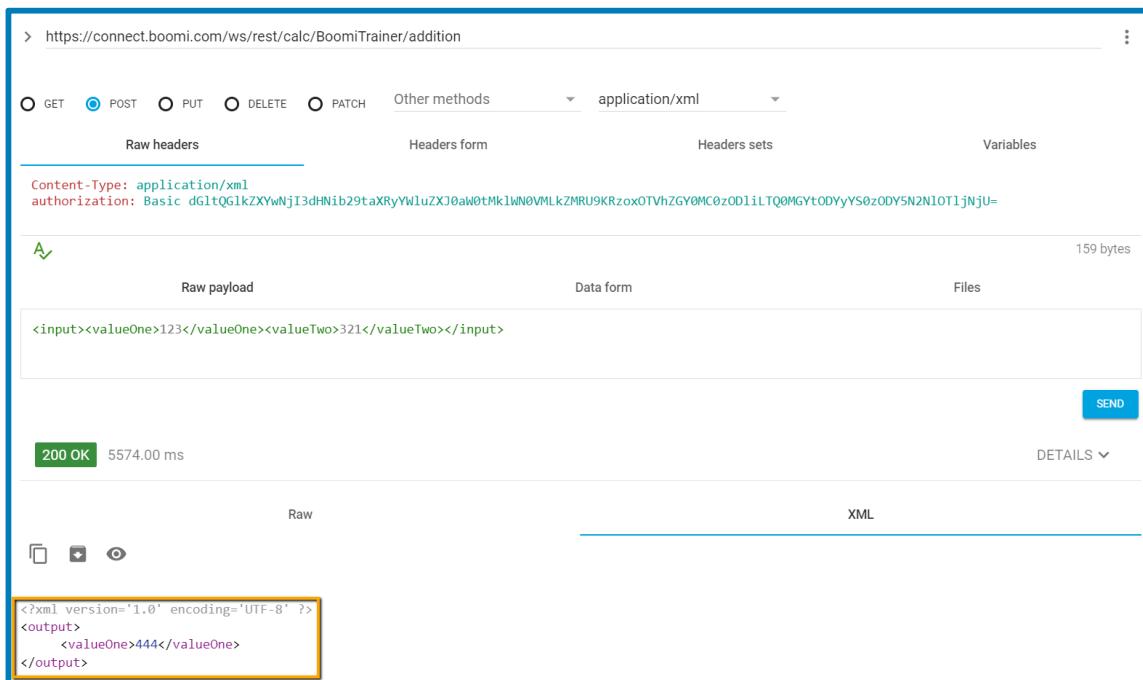
33. You can use a third party application to call your API. (Try the Google Chrome extension “Advanced REST Client,” available as a free download from the Chrome Web Store.) Or you can use an HTTP testing website. Try <https://www.hurl.it> (Hurl.it) and follow the same directions below (steps 34-37).

34. Set the call type to **POST**.



API Management Activity

35. Enter the following **URL**: <https://connect.boomi.com/ws/rest/calc/YourName/addition>
 - ✓ *Change 'addition' to 'subtraction' in the URL above to call the API Subtraction_Process.*
36. No Headers are required, since you did not define any in your Web Service.
37. In the Request, or Payload, section, enter the following:
`<input><valueOne>123</valueOne><valueTwo>321</valueTwo></input>`
38. The Content Type should be set to **application/xml**.
39. When you click **Send**, you will be prompted for a username and password. The username is the user defined within the Shared Web Server settings and configuration, and the password is the token that is generated there as well.



The screenshot shows a browser interface for making an API call. The URL is <https://connect.boomi.com/ws/rest/calc/BoomiTrainer/addition>. The method is set to POST. The Content-Type is application/xml. The raw payload is `<input><valueOne>123</valueOne><valueTwo>321</valueTwo></input>`. The response status is 200 OK with a response time of 5574.00 ms. The XML response body is highlighted with a yellow box and contains the following text:

```
<?xml version='1.0' encoding='UTF-8'?>
<output>
  <valueOne>444</valueOne>
</output>
```

NOTE: You can specify your Boomi Credentials (via boomi_auth) within the URL for the request.

You need to do the following: `<username>:<password/token>`.

Convert the above (replacing the values, but keeping the ":") to Base64.

Replace the URL in the request with:

https://connect.boomi.com/ws/rest/calc/YourName/addition;boomi_auth=<Base64_Encoding_Credentials>

