Monarch Server Automation Edition

Version 14.1

DATAWATCH

[Client API Settings for IBM Watson Analytics and Power BI]

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Overview

The DataPrep Export element in Automator's Visual Process Designer allows data to be exported in various formats. Before exporting IBM Watson Analytics or Power BI file types, the API settings of these connectors need to be modified. Use the Client API Settings page to configure the settings for the IBM Watson API and Power BI API.

To access the Client API Settings page

1. On the Navigation Tree, click **System Settings**, and then select **System Preferences**.
2. At the top of the page under Automator Settings, select the **Client API Settings** tab.

For the settings of both IBM Watson and Power BI, the following details should be provided:

- **Client ID**: It is a string that carries user information as provided during registration in IBM Watson Analytics and Power BI. It is used by these connectors to identify Automator once it is registered. The Client ID is public information that goes hand in hand with the Client Secret Key.
- **Client Secret Key**: It is used to authenticate Automator when it requests access to user accounts in IBM Watson Analytics and Power BI. It goes hand in hand with the Client ID and should be kept private.

NOTES

To get the Client ID and Client Secret Key for IBM Watson Analytics, click here.

To get the Client ID and Client Secret Key for Power BI, click here.

- **Host Name**: It is the full name of the machine on which Automator is installed.
- **Port**: It is the value of the port on which Automator is installed.
- **Redirect URI**: It is the URI to which IBM Watson Analytics and Power BI direct after authenticating the user. The field is automatically filled after supplying the Client ID, Client Secret Key, and host name.

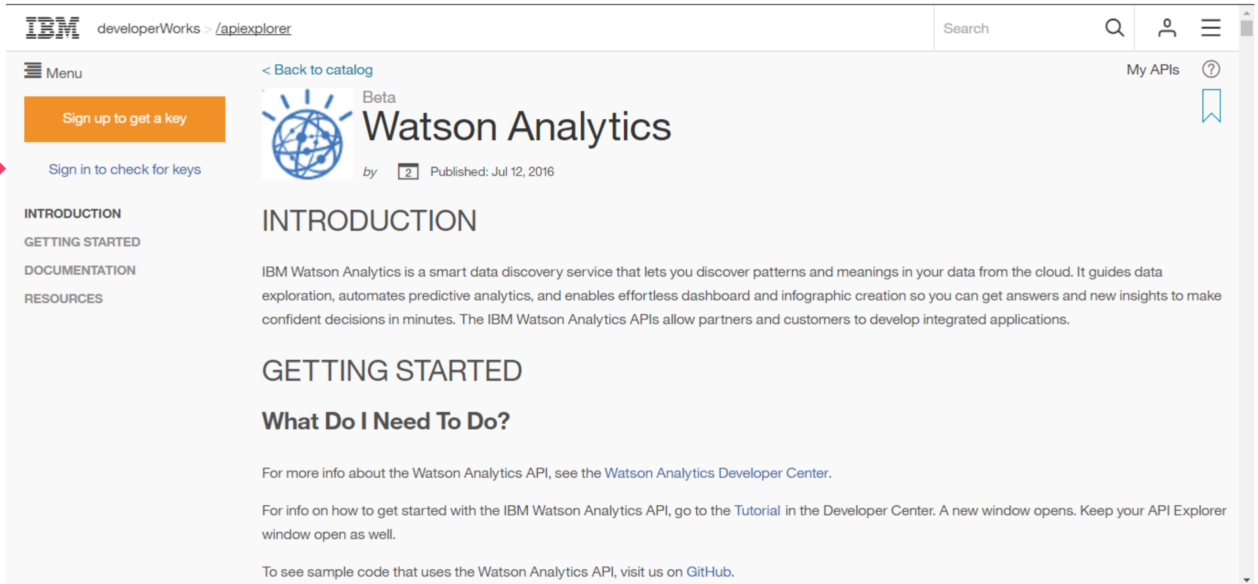
Other settings:

- **Update Api Config on Saving (IBM Watson Analytics API Settings)**: Select this check box to add the redirect URI to the config file of the Watson server.
- **Save**: Click this button to save the application settings.
- **Clear**: Click this button to remove the information in the fields.

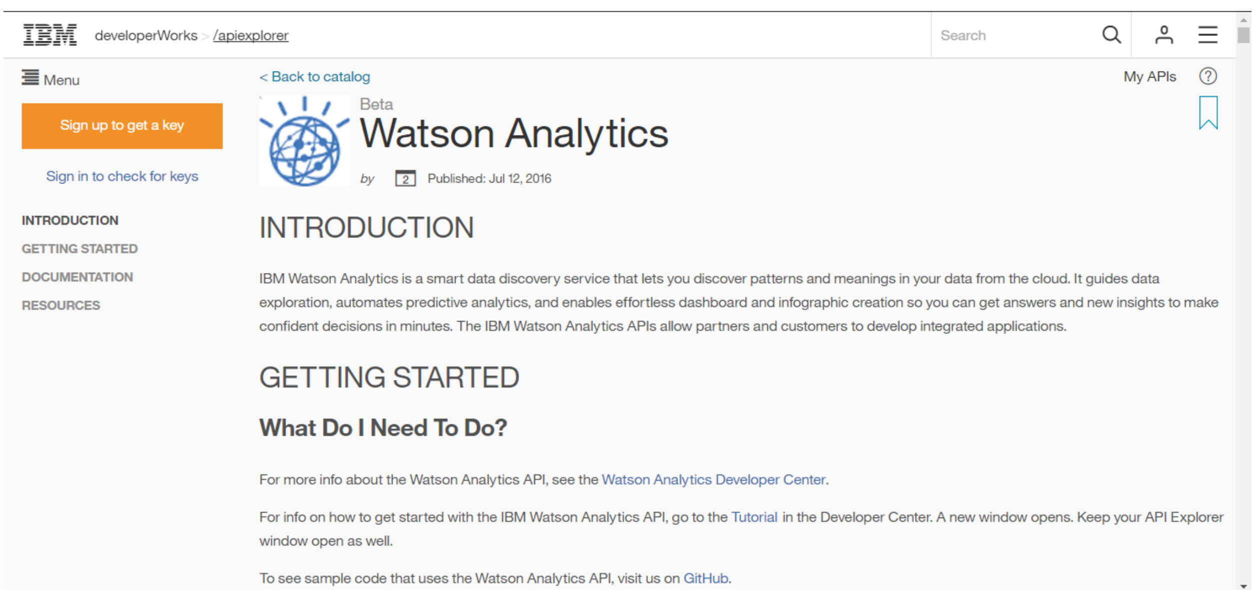
IBM Watson API Keys

To get a Client ID and Client Secret Key for IBM Watson Analytics

1. Go to the API Explorer, and click **Sign in to check for keys**.



2. Click the My APIs link to view all your APIs and create a set of Client ID and Client Secret Key.



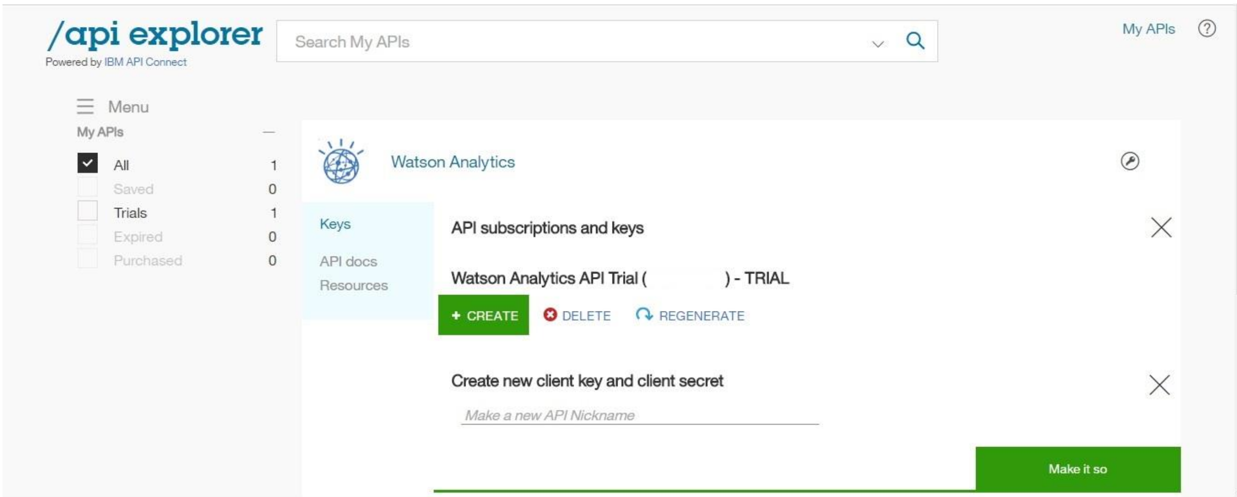
To create a new set of Client ID and Client Secret Key, perform the following:

a. Click **Create**.

b. Enter a new API nickname.

c. Click **Make it so**.

d. On the next page, click **Manage your keys** to view your newly generated Client ID and Client Secret Key.



3. Register the API Client ID and application information using one of two methods.

Method 1.

a. Execute the /oauth2/v1/config operation in a server component. Note that this operation is called only once, except for cases involving changes in the Client ID.

```
curl -v -X PUT -H "X-IBM-Client-Secret:YOUR_CLIENT_SECRET" -H "X-IBM-
Client-Id:YOUR_CLIENT_ID" -H "Content-Type: application/json" -d
'{"clientName": "The Sample Outdoors Company", "redirectURIs":
"https://example.com:5443", "ownerName": "John Smith", "ownerEmail":
"John.Smith@example.com", "ownerCompany": "example.com",
"ownerPhone": "555-123-4567"}'
https://api.ibm.com/watsonanalytics/run/oauth2/v1/config
```

b. Specify the redirect URI for the application that you want the Watson Analytics API to redirect to (i.e., http://<hostname>/MSAdmin/ProcessDesignerEditor/Redirect, where "hostname" is the full name of the machine on which Automator is installed).

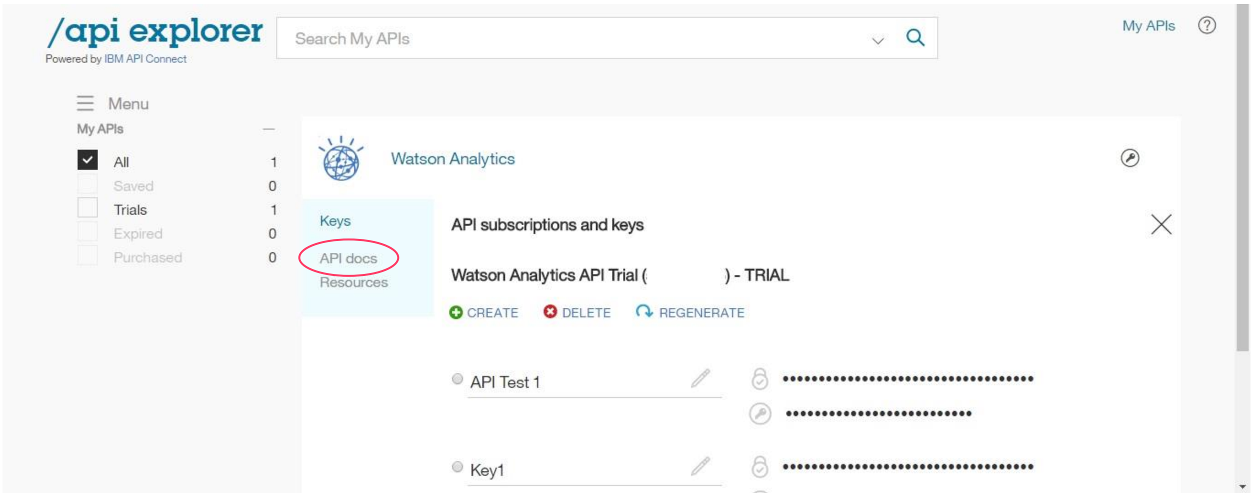
NOTES

In Monarch Server v14.1 that is upgraded from previous versions (e.g., v13.2), the virtual folders could still be labeled as "DSAdmin" (or "DSClient"). In this case, use "DSAdmin" (or "DSClient") instead of "MSAdmin" (or "MSClient") to open the Admin (or Client) page.

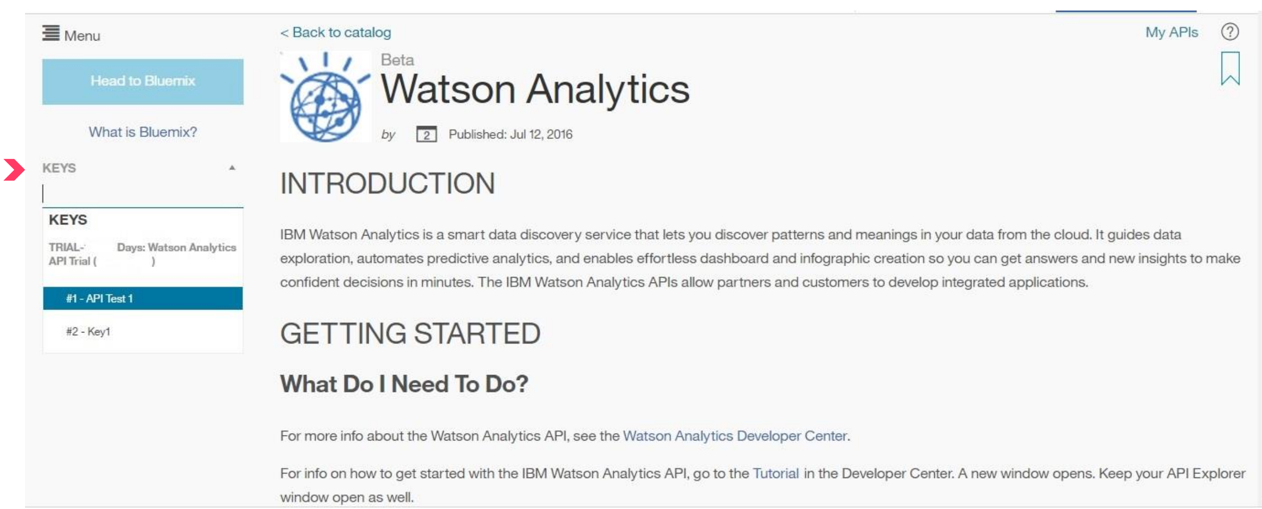
Method 2.

a. On the [My APIs](#) page, Click **Manage your keys**.

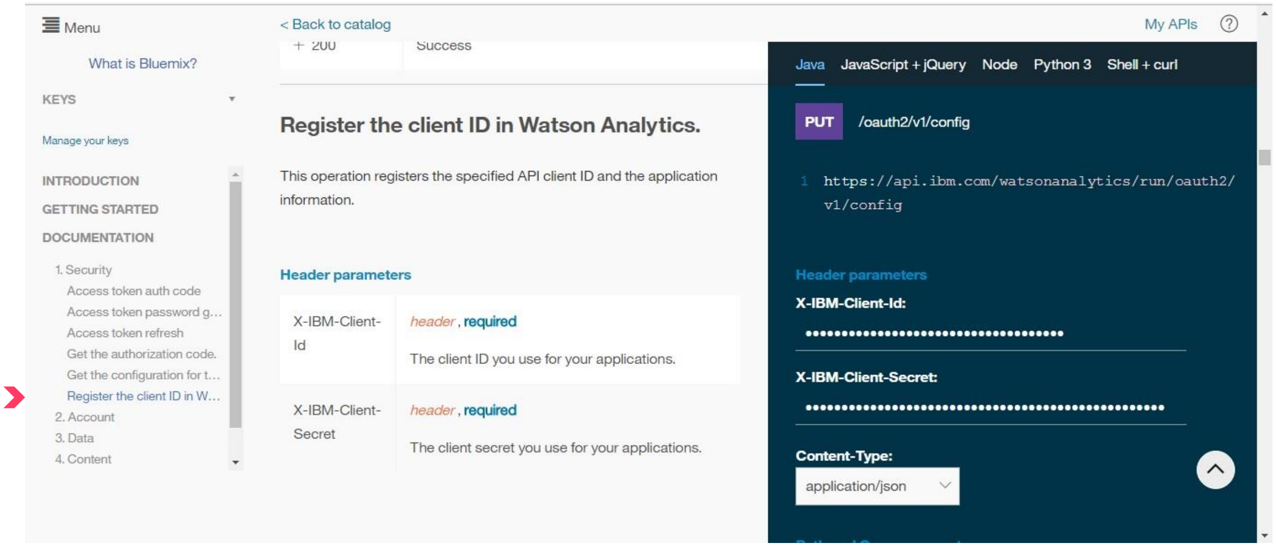
b. On the blue pane, click **API docs** to return to the [API Explorer](#).



c. On the left panel of the [API Explorer]() page, click **KEYS**, and then select the API nickname you used for your Client ID and Client Secret Key.



d. On the same panel, click **Documentation**, and then select **Register the client ID in...** under **Security**.



e. Scroll down to find the **Body** field under **Path and Query parameters**. The **Body** field contains the following:

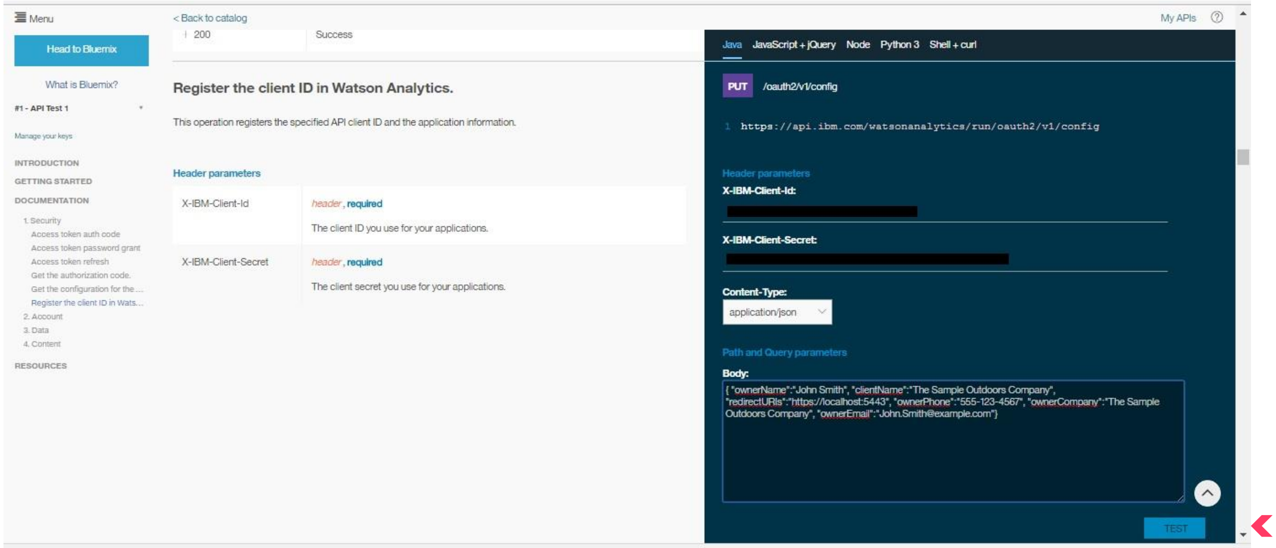
{ "ownerName":"**John Smith**", "clientName":"**The Sample Outdoors Company**", "redirectURIs":"**https://localhost:5443**", "ownerPhone":"**555-123-4567**", "ownerCompany":"**The Sample Outdoors Company**", "ownerEmail":"**John.Smith@example.com**"}

Supply the necessary information by replacing the bold text in the code with the correct data. Specifically, you need to provide the following:

ownerName (*string*): The name of the owner.
clientName (*string*): The name of the client. If a clientName is already in use by another application, a 409 response is returned and you must select another clientName.
redirectURIs (*string*): The redirect URI is the callback entry point of the application. This parameter specifies a URI or list of URIs separated by spaces for each application that you want the Watson Analytics API to redirect to.
ownerPhone (*string*): The phone number of the owner.
ownerCompany (*string*): The name of the company.
ownerEmail (*string*): The owner's email address.

Note that the Client ID and Client Secret Key you selected are already supplied in the **X-IBM-Client-Id** and **X-IBM-Client-Secret** fields under the **Header parameters**.

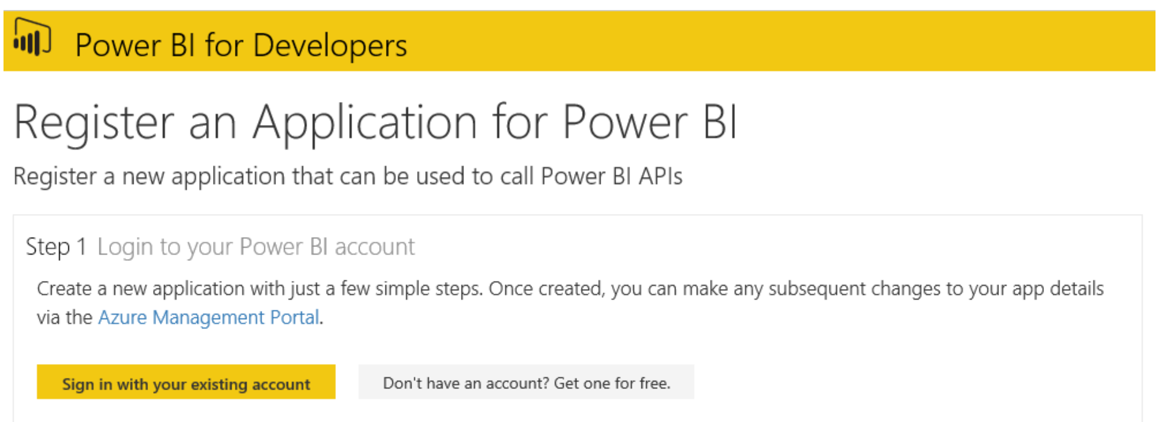
f. Click **TEST** to initialize the selected Client ID and Client Secret Key.



Power BI API Keys

To get a Client ID and Client Secret Key for Power BI

1. Access Power BI's Registration Tool at https://dev.powerbi.com/apps.



NOTES

The registration process in Power BI requires an Azure Active directory, an organizational user, and a Power BI service account. To sign up for an Azure subscription or to log in using an account with such subscription, click here.

To learn how set up your Azure Active Directory and organizational user, click here.

2. Sign in using your Power BI account in Step 1 of the Registration Tool.
3. Provide the following details:
    a. **App Name** – The name of your app, i.e., Automator.
    b. **App Type** – Choose “Server-side Web app.”
    c. **Redirect URL** – This provides Power BI with more details about the app requesting the authentication. An example of a redirect URL is http://<hostname>/MSAdmin/ProcessDesignerEditor/PowerBIRedirect.
    d. **Home Page URL** – Use the sign in page of Automator, i.e., http://<hostname>/MSAdmin.

NOTES

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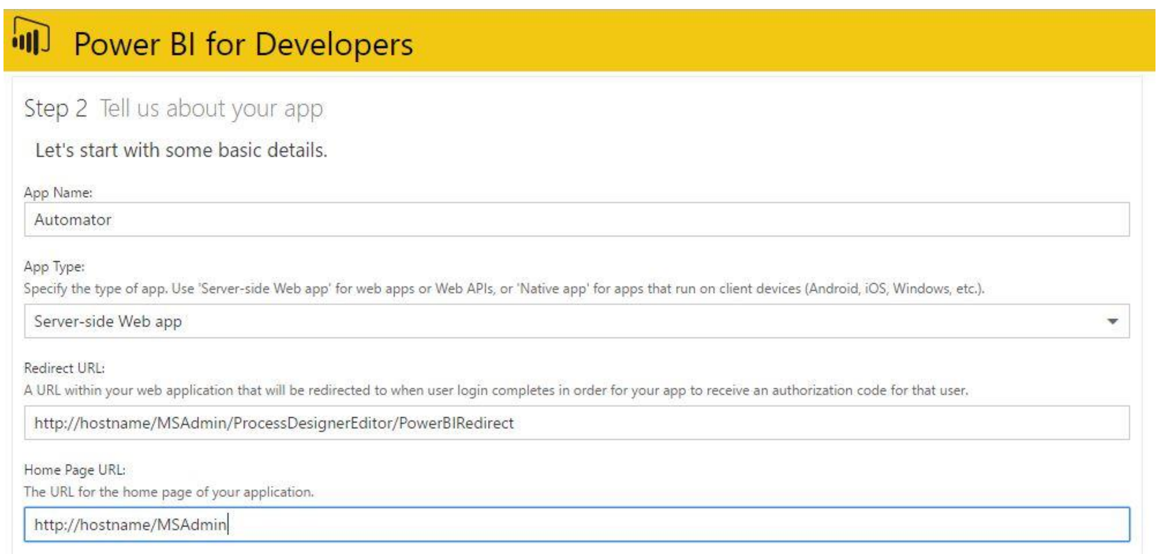
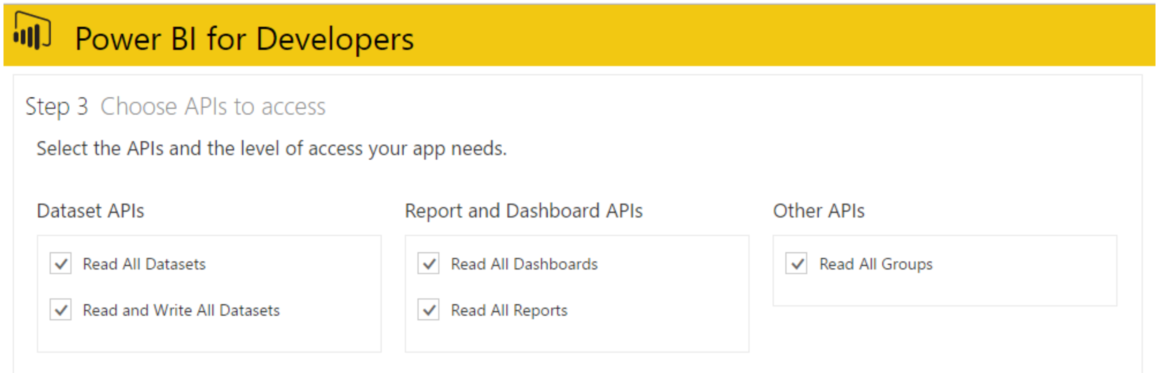


4. Select the APIs you need as well as the level of access required. For details about permissions in Power BI, click here.



5. Click **Register App**.

The Registration Tool generates a Client ID and a Client Secret Key. Use these keys to configure the API settings for Power BI in Automator.