6.7 User Guide

Blue Prism and Power Platform Integration

Document Revision 2.0

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Contents

Introduction

This document outlines the integration and configuration of Blue Prism and the Microsoft Power Platform which includes Power BI, Microsoft Power Automate and PowerApps.

Power Platform allows business users to standardize and automate processes in their organization through the creation of BPFs that can include 3rd party applications. This is extremely powerful, but somewhat limited in scope as it can only be done in a cost effective “no code” fashion in environments where all applications offer existing connectors within the Power Platform or public APIs.

This document assumes a general understanding of Blue Prism Processes as well as Microsoft Flow.

Details on the Power Platform can be found here: https://powerplatform.microsoft.com

Requirements include:

- Blue Prism Software
- Microsoft Power Automate account
- Microsoft Azure account and ability to publish Azure functions from Visual Studio

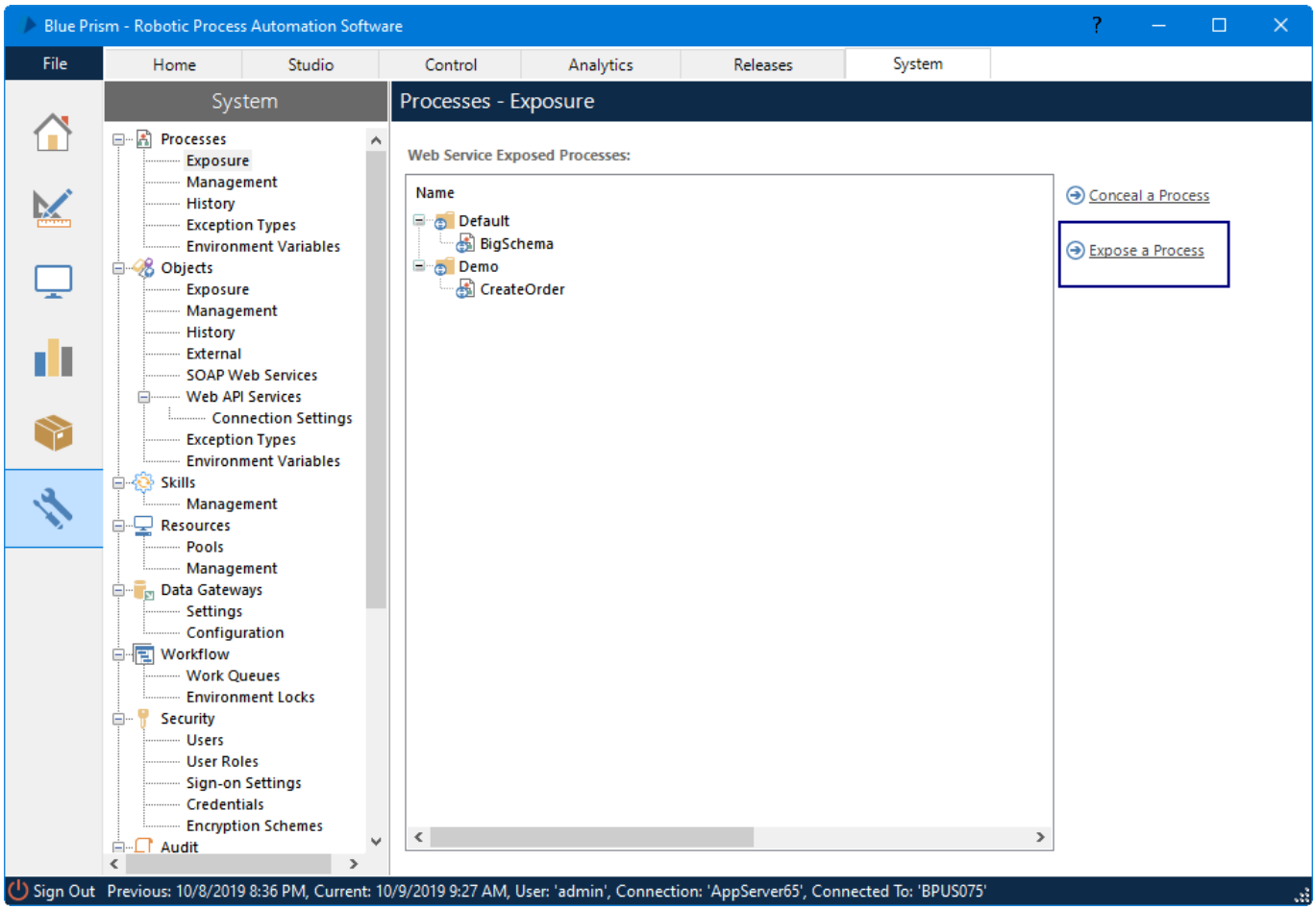
Power Platform to Blue Prism Integration

Components of the Solution

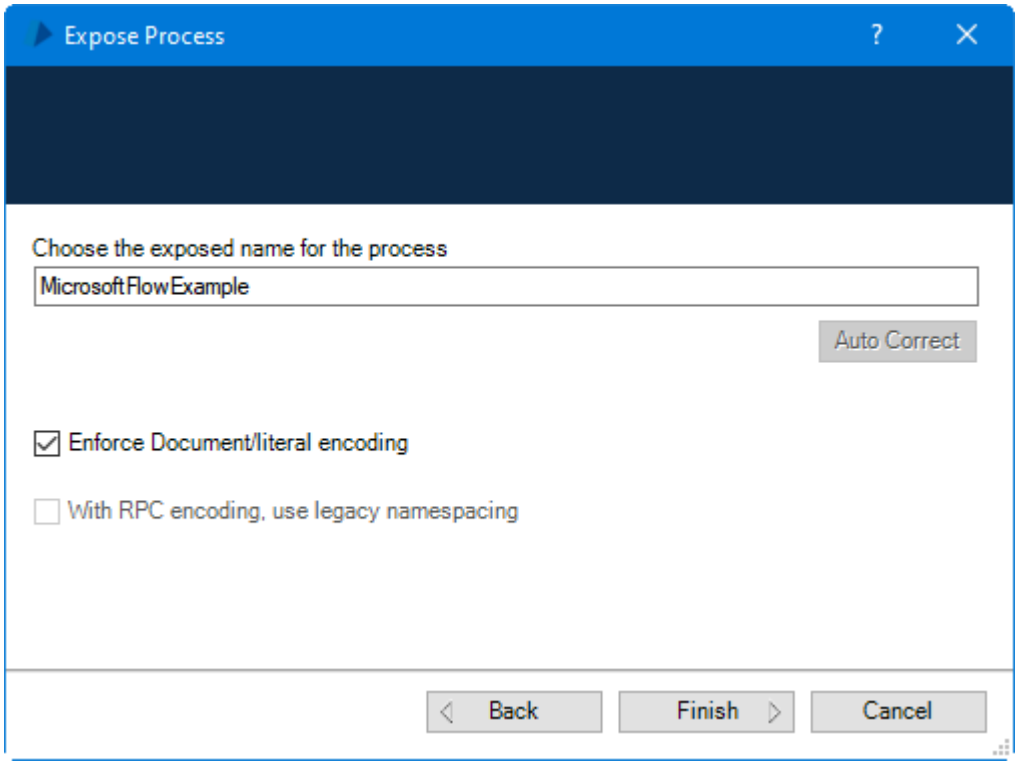
- Blue Prism Process exposed as SOAP Web Service
- Azure Function for REST Services
- Blue Prism Custom Connector
- Microsoft Power Automate Business Process

Blue Prism process exposed as SOAP Web Service

Expose the Blue Prism process as a SOAP Web Service.

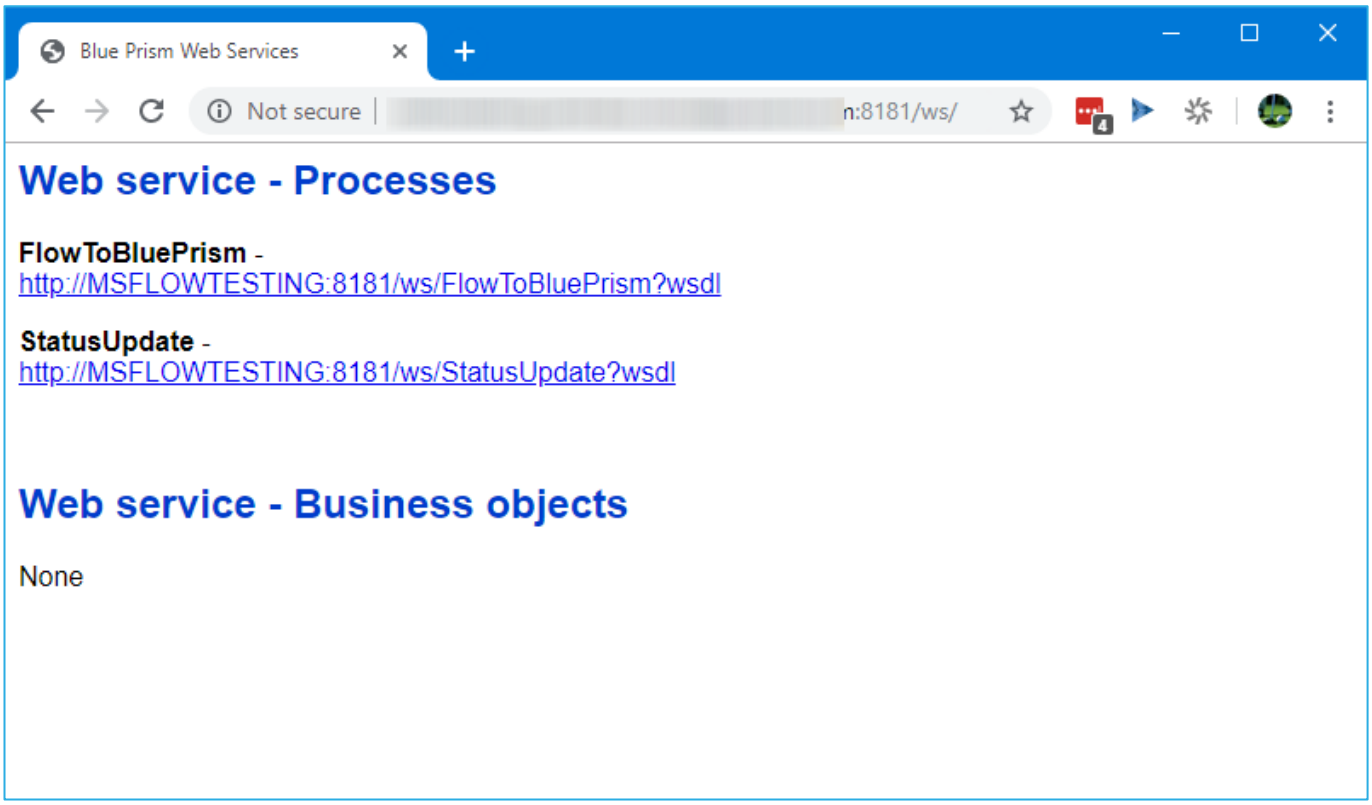


Make sure that you specify Document/literal encoding.



You can test to make sure the SOAP service is available by using the URL in a browser window:

http://<<machinename>>:<<resource agent port>>/ws/



Azure Function for REST Services

The Azure Function is provided as a Visual Studio project here:

https://github.com/blue-prism/MicrosoftFlowAzureFunction_v2

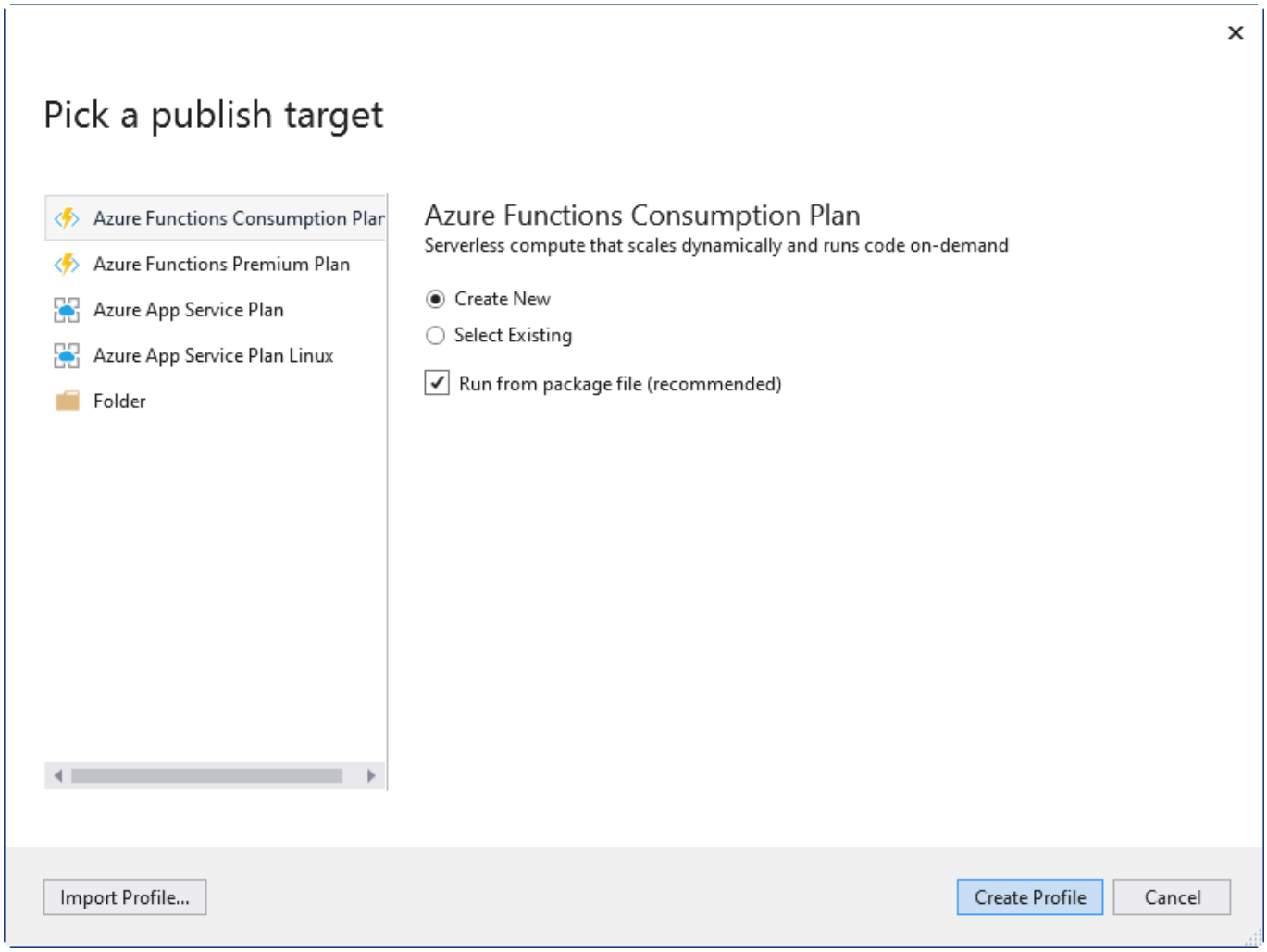
In depth tutorials on loading projects from GitHub repos can be found here:

https://docs.microsoft.com/en-us/visualstudio/get-started/tutorial-open-project-from-repo?view=vs-2019

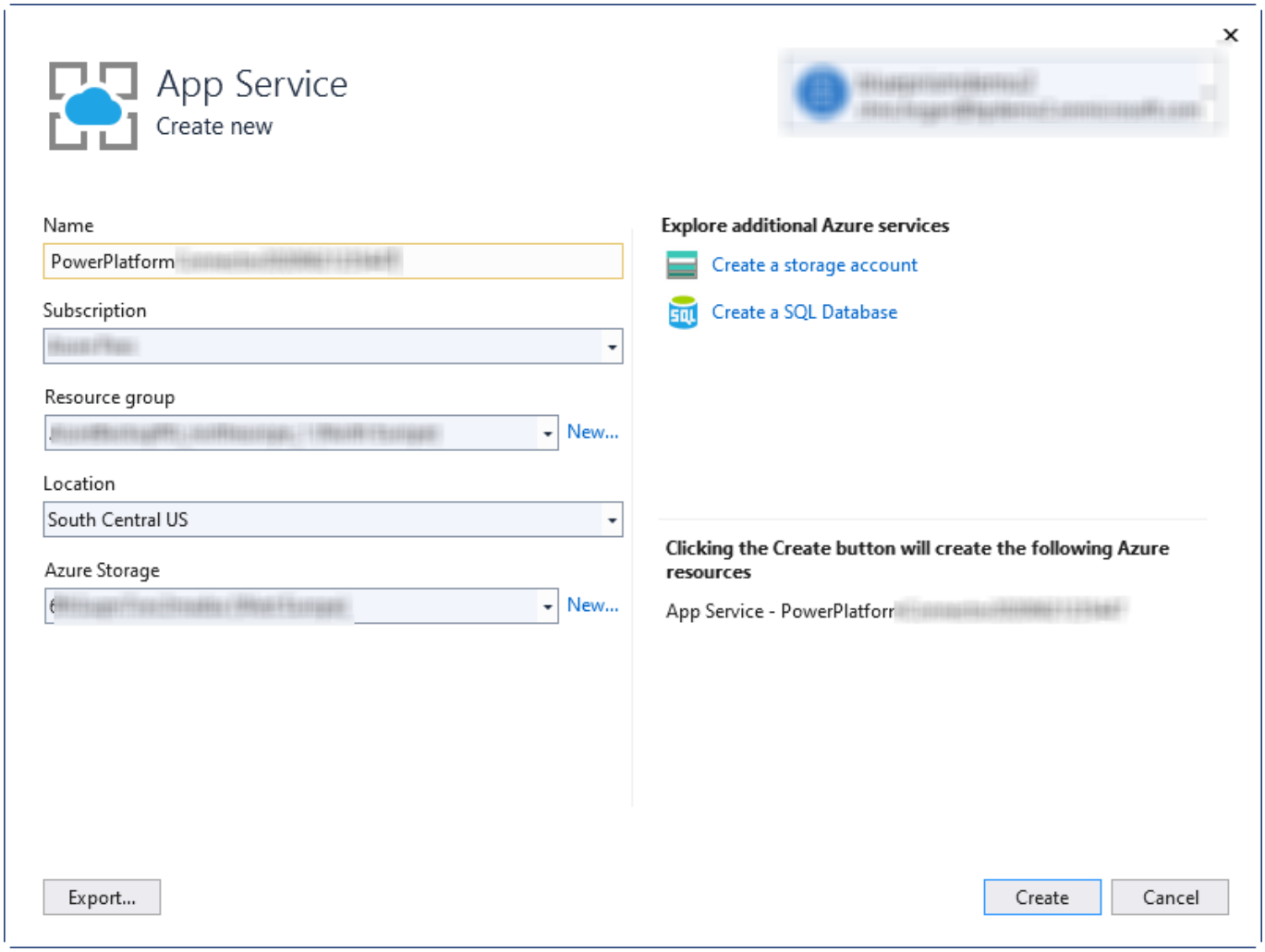
Open the solution in Visual Studio and publish the Azure Function. You will need to specify your own Azure Function name. In depth tutorials on publishing to Azure from Visual Studio can be found here:

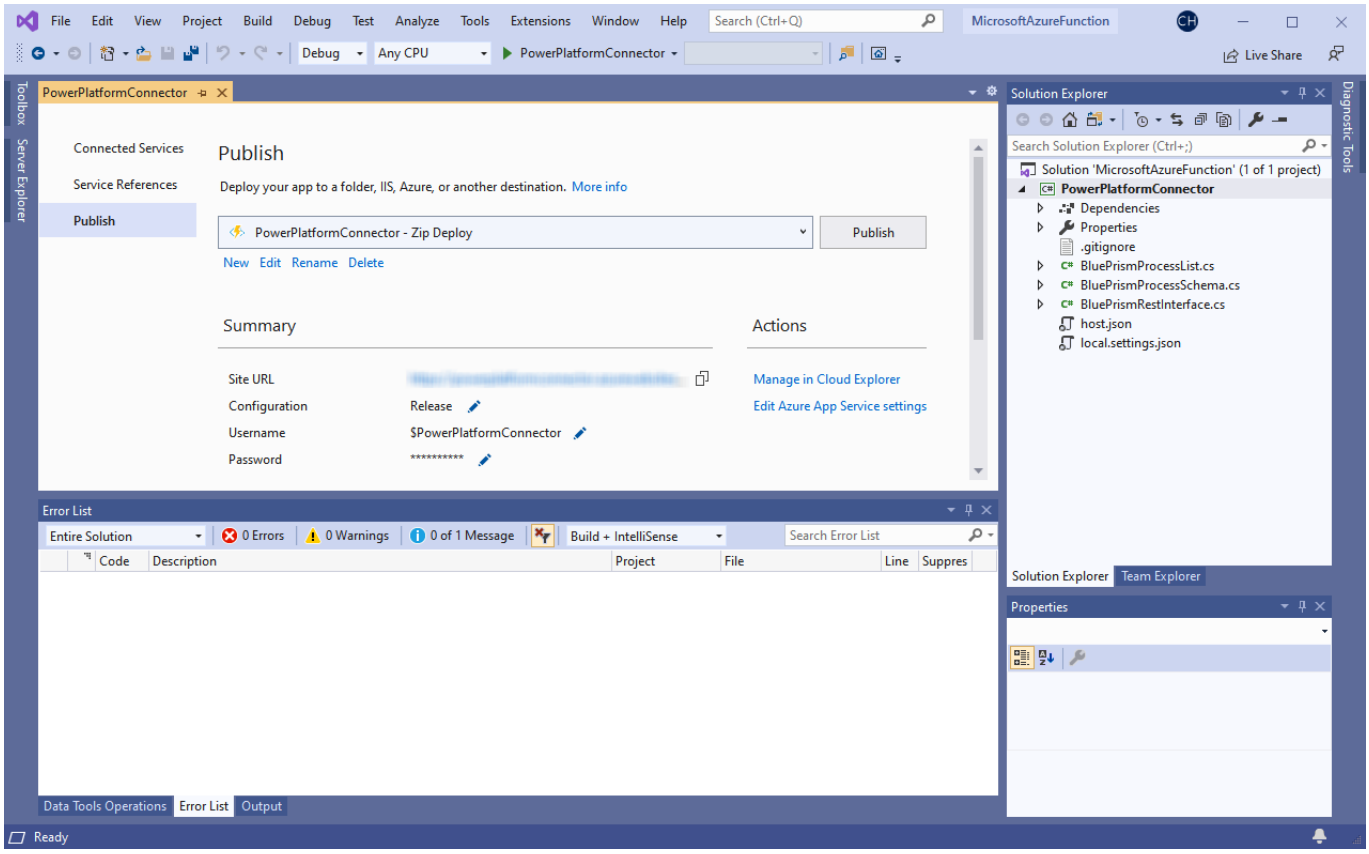
https://docs.microsoft.com/en-us/azure/azure-functions/functions-create-your-first-function-visual-studio

Create a publishing for Azure

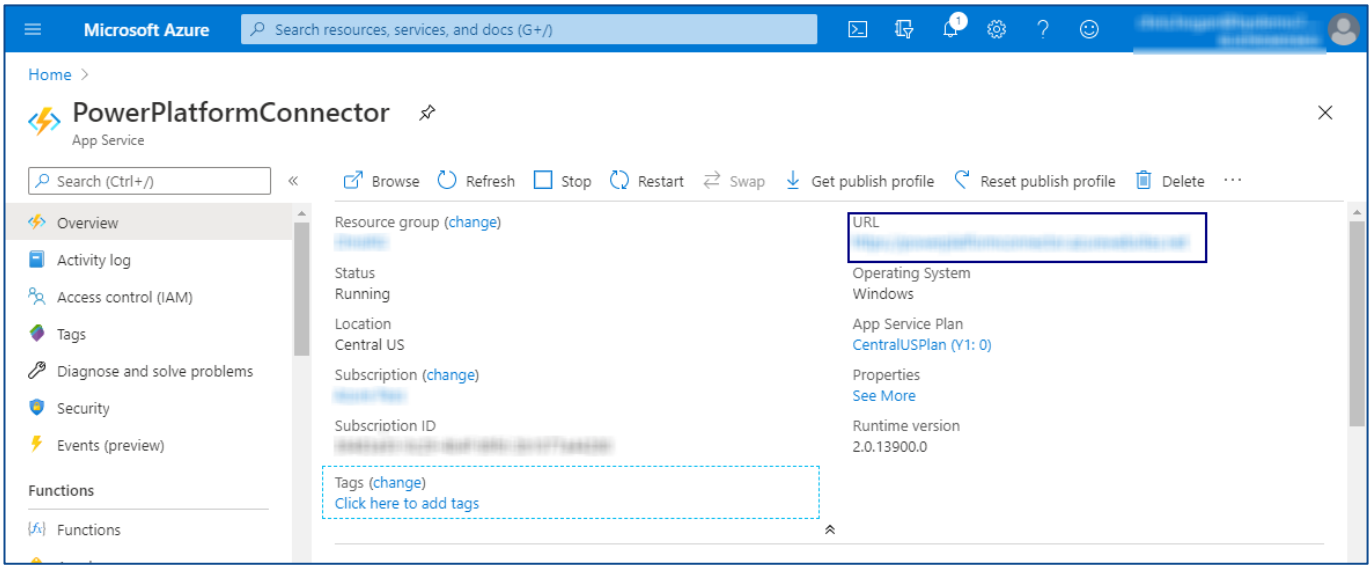


Provide the details for your Azure environment

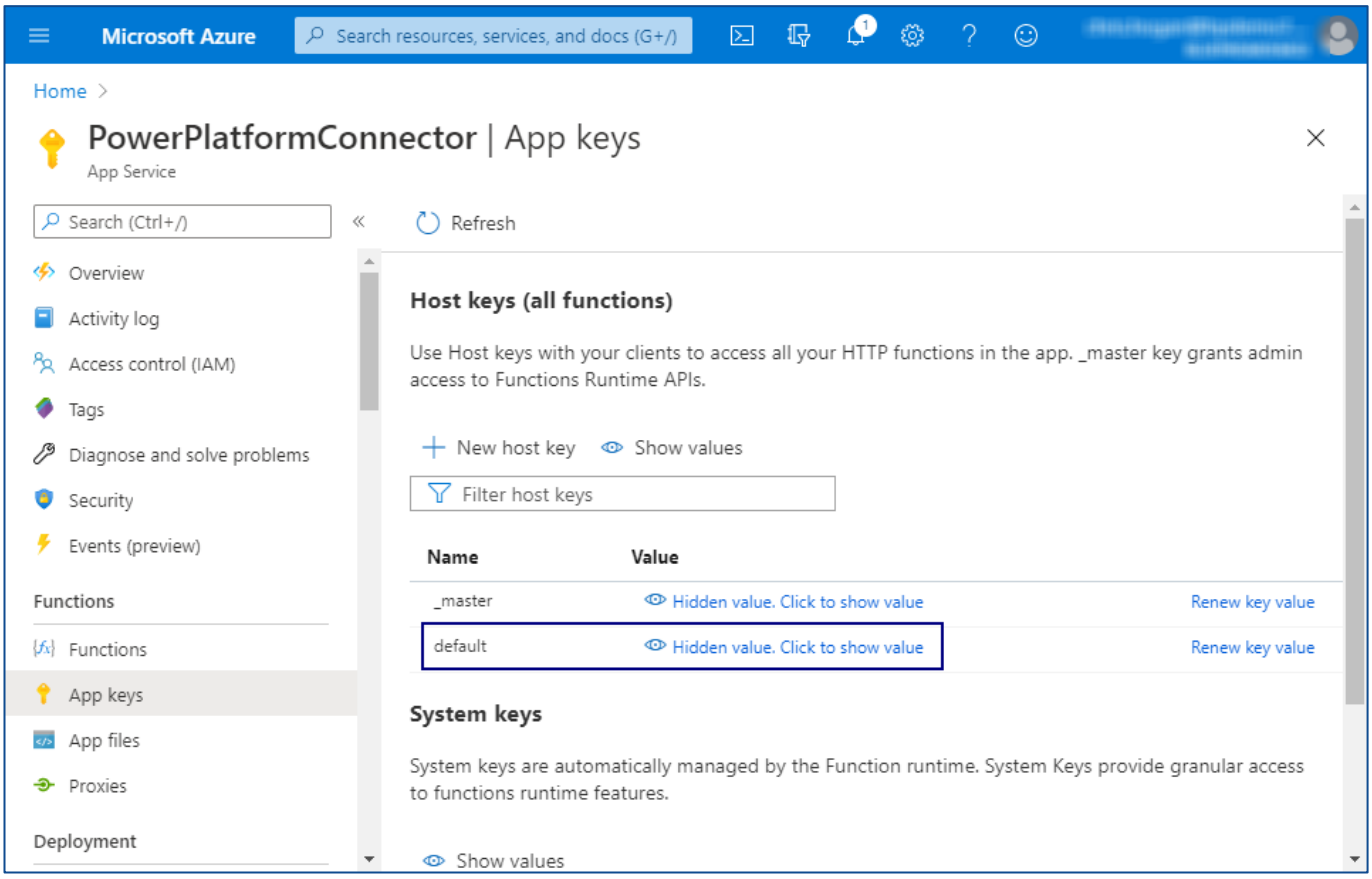

App Service
Create new
Name
PowerPlatform
Subscription
Resource group
New...
Location
South Central US
Azure Storage
New...
Explore additional Azure services
Create a storage account
Create a SQL Database
Clicking the Create button will create the following Azure resources
App Service - PowerPlatfor
Export...
Create
Cancel

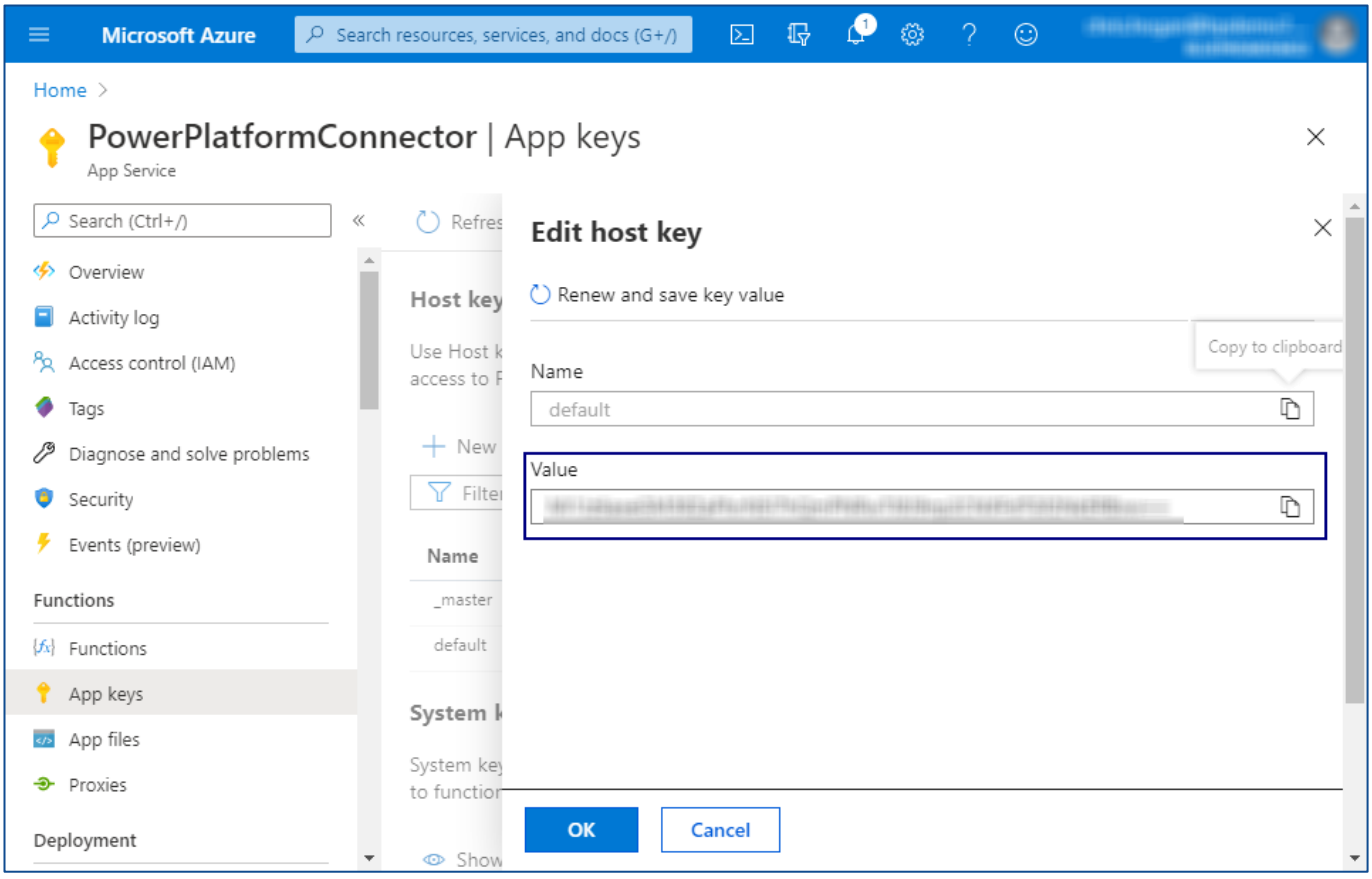


Once published to Azure, make note of the URL



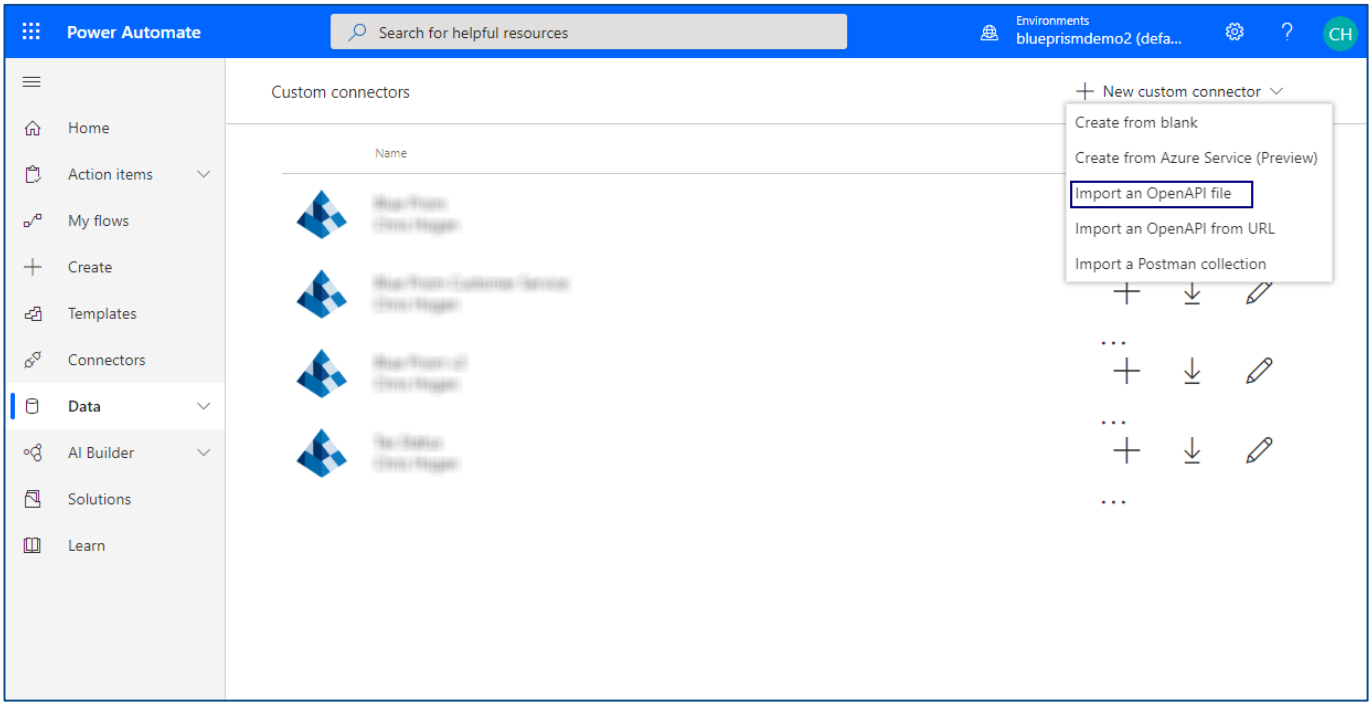
Also make note of the default App Function Key

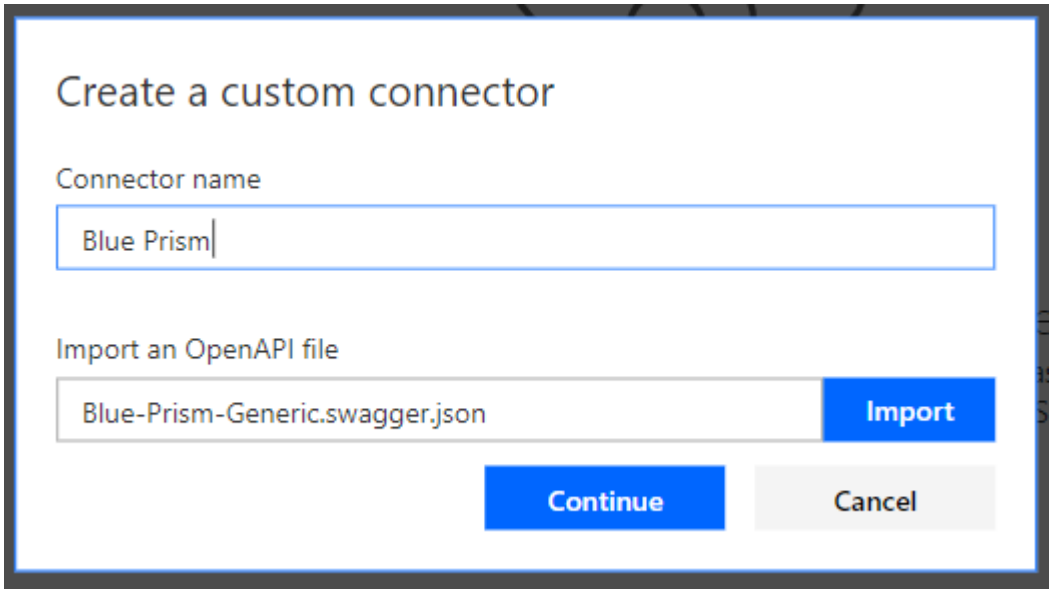




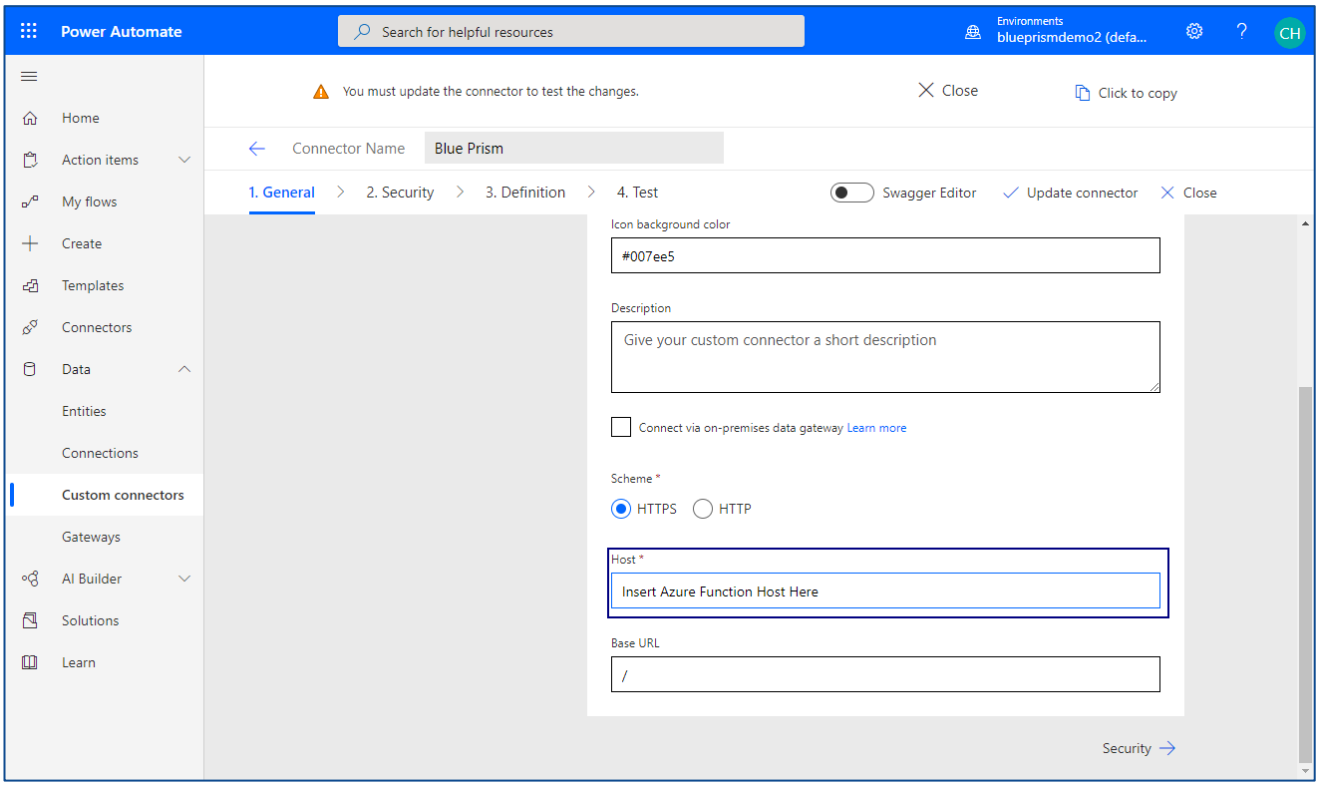
Blue Prism Custom Connector

Import the Blue-Prism-v2.swagger.json connector definition from The Digital Exchange into Microsoft Power Automate

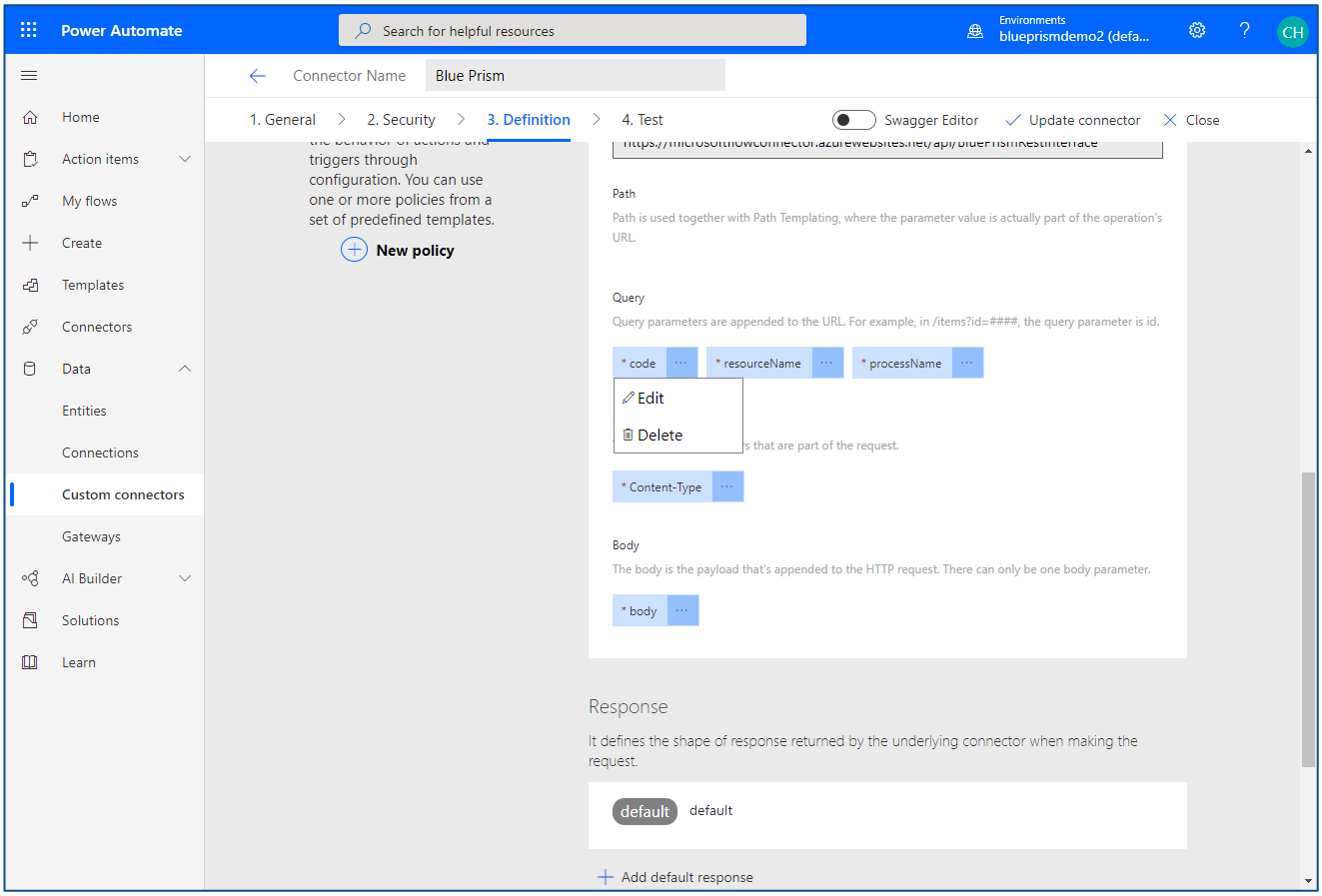


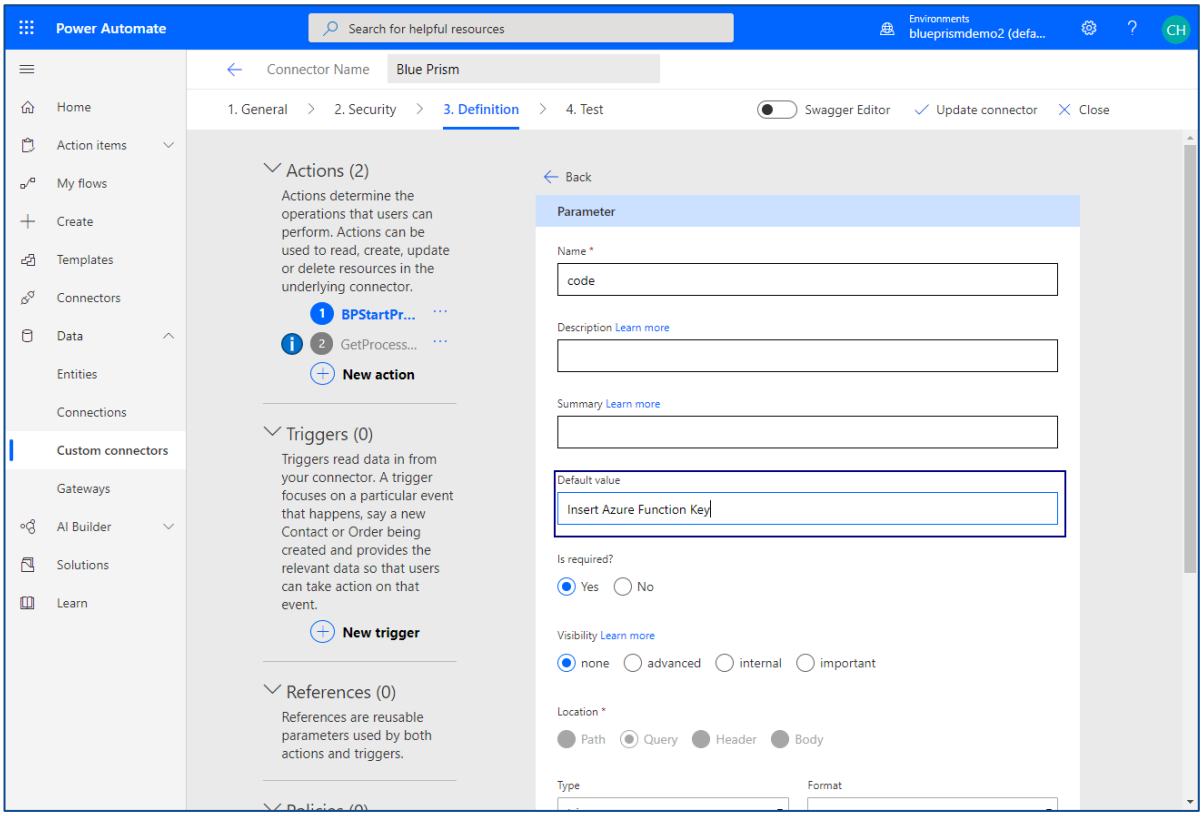


Add a custom icon if preferred, and specify the host from the Azure Function:

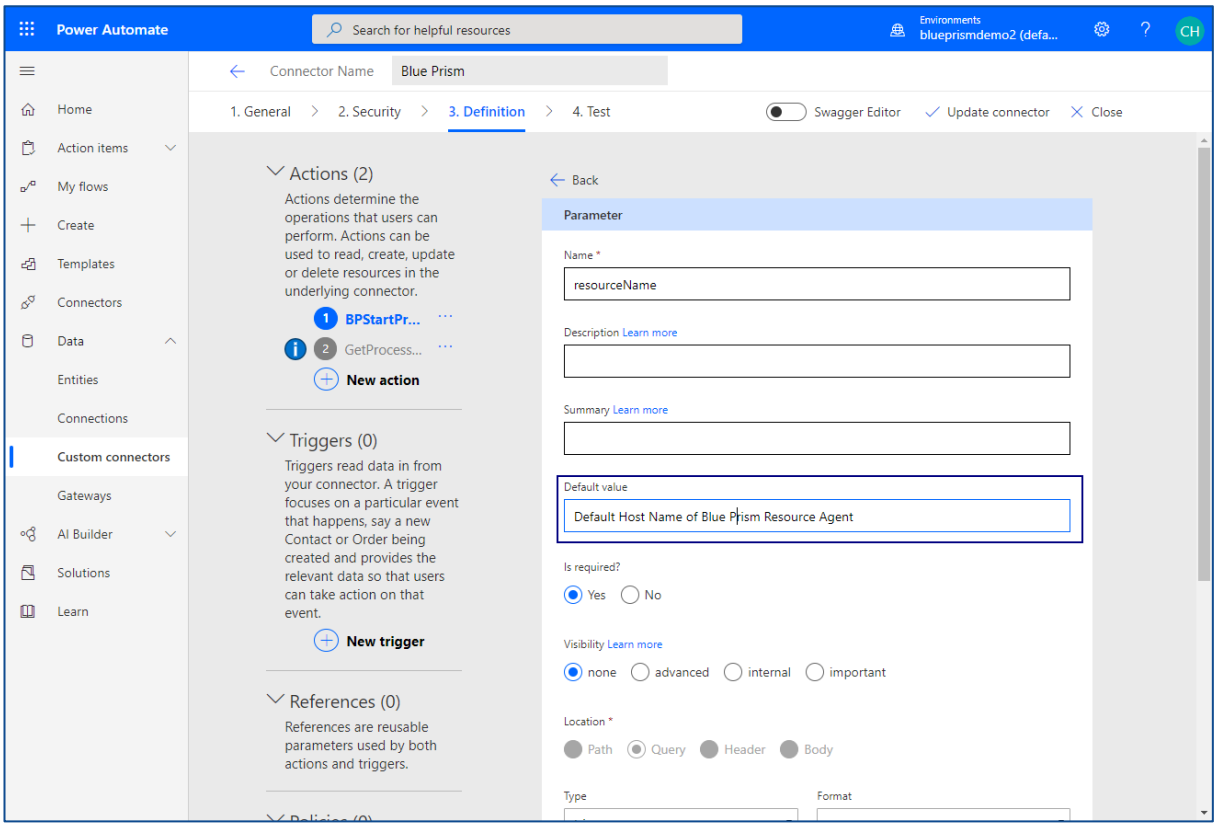


On definition tab, edit “code” and provide the Azure Function Key:



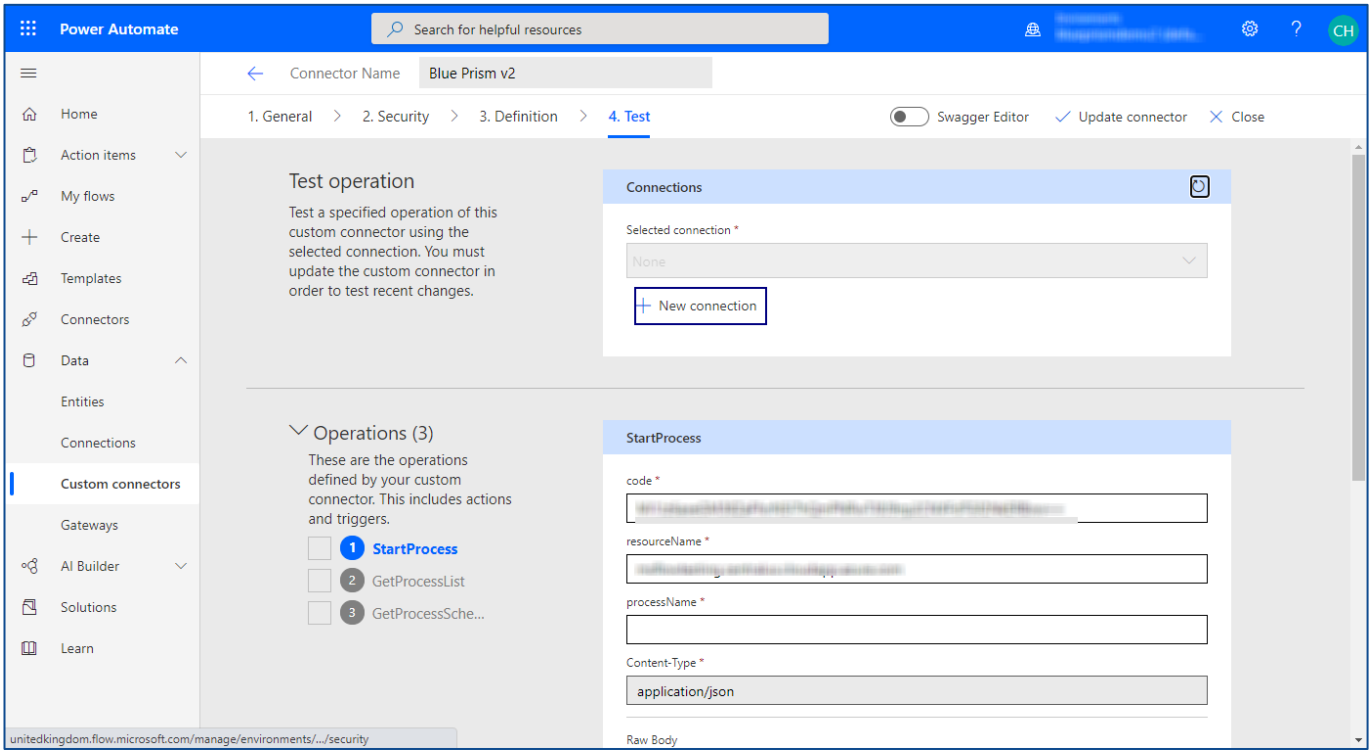


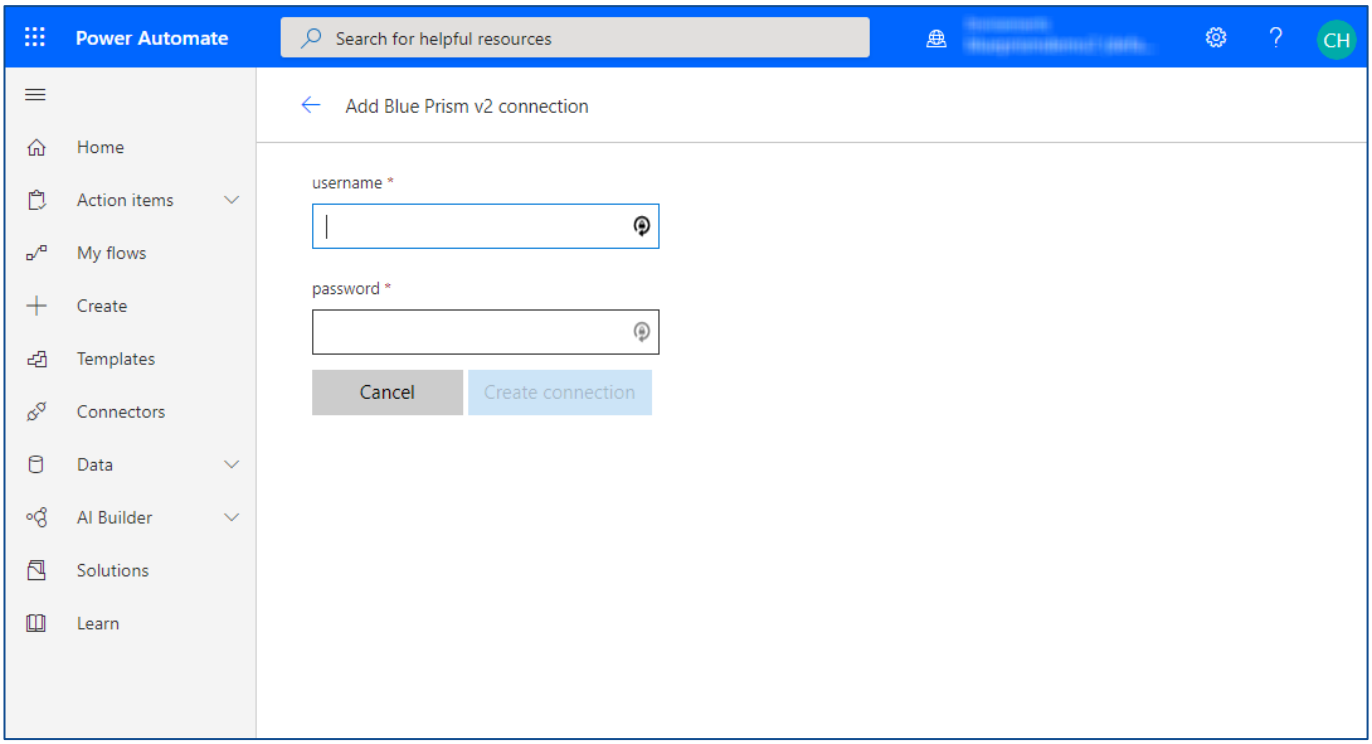
You can also provide the default values for the Resource Agent Host (and optional port number <hostname>:<port>). This can also be specified later when using the connector in a Flow.



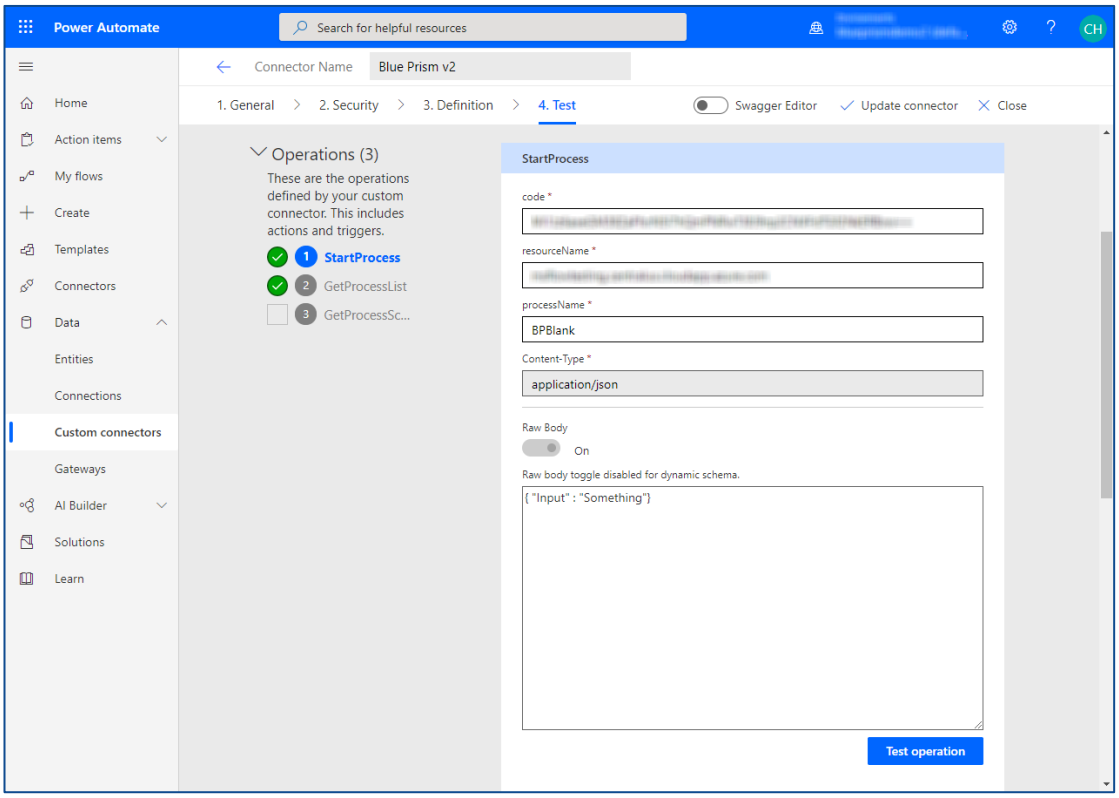
After supplying the function name host, as well as the Blue Prism Resource host, click “Update Connector” and proceed to the “Test” section.

You can test the connector by creating a connection with the credentials that Blue Prism needs

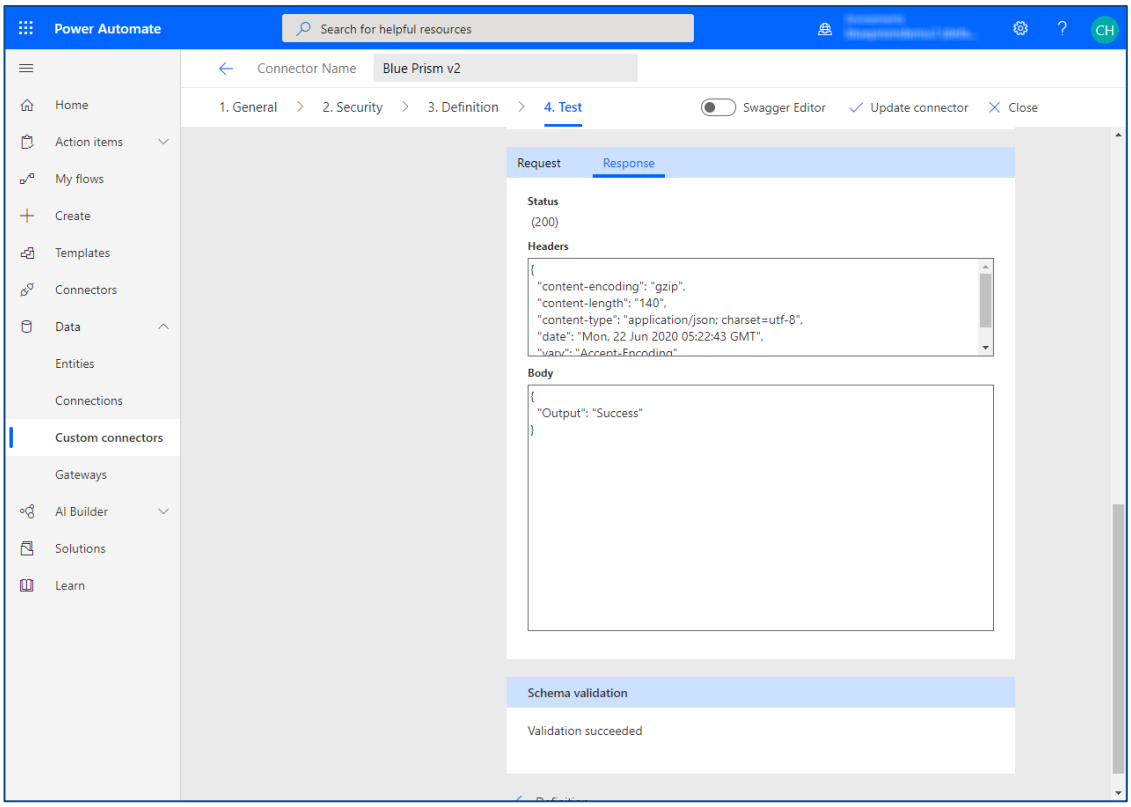




The API Code and Resource Name should be filled in. In the testing environment you will need to provide a Process name and input JSON payload. When using the connected in a Power Automate Flor, the Process Name as well in data inputs/outputs are dynamically retrieved for you.

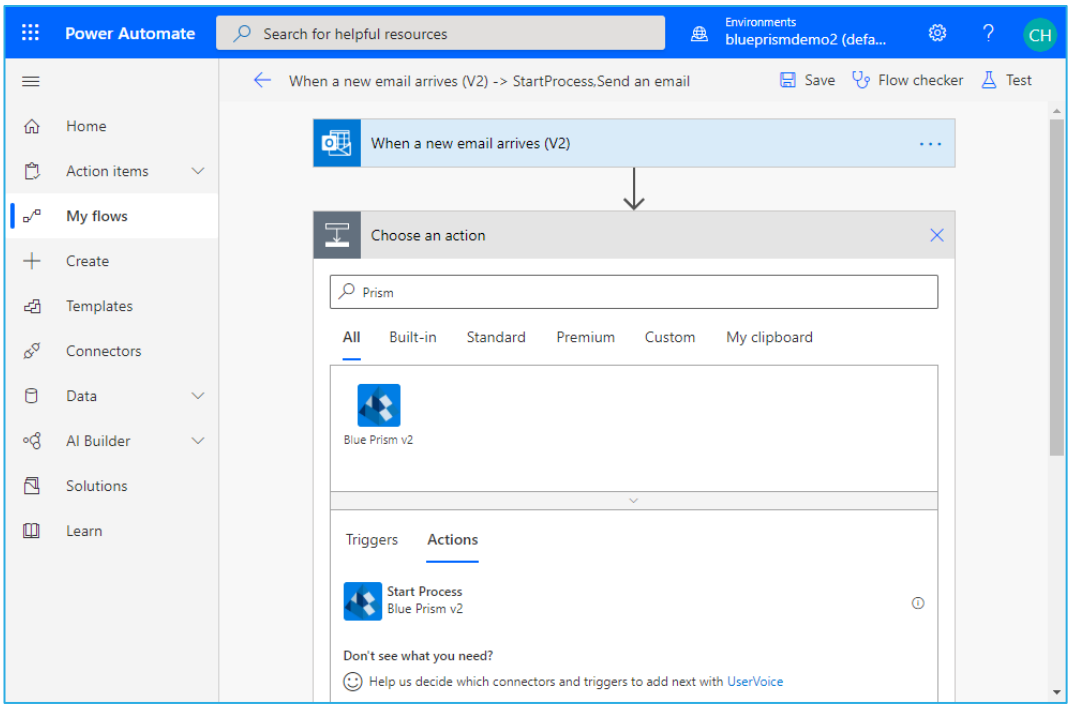


Upon completion, you will see the response that corresponds to the output of your Blue Prism Process

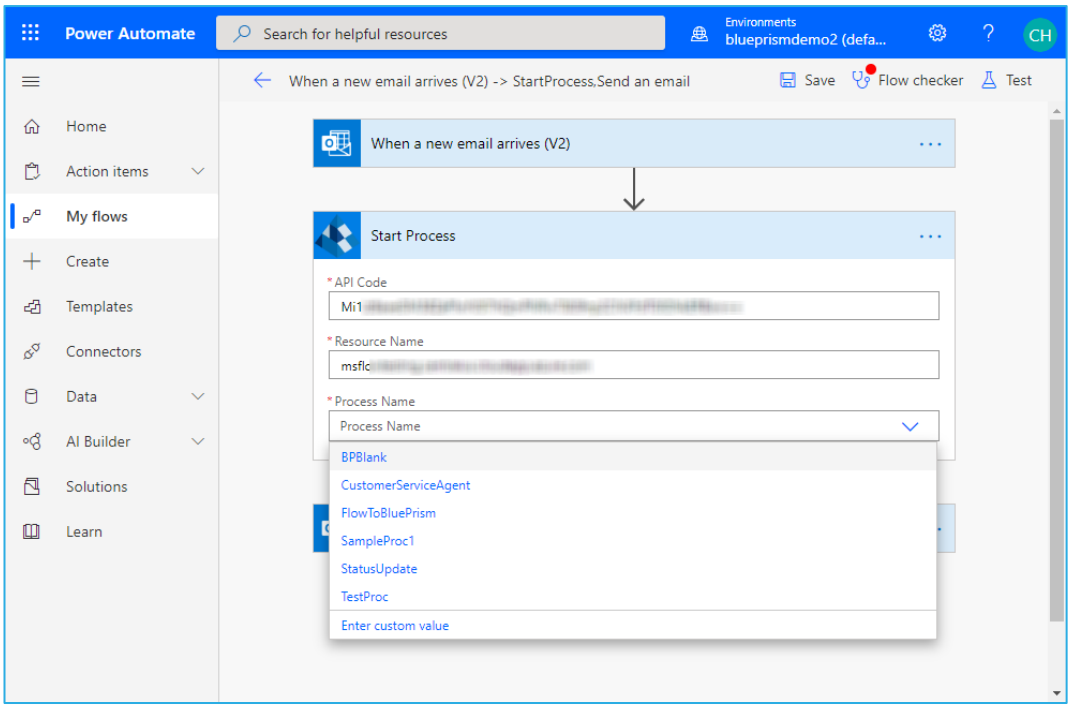


Microsoft Power Automate Business Process

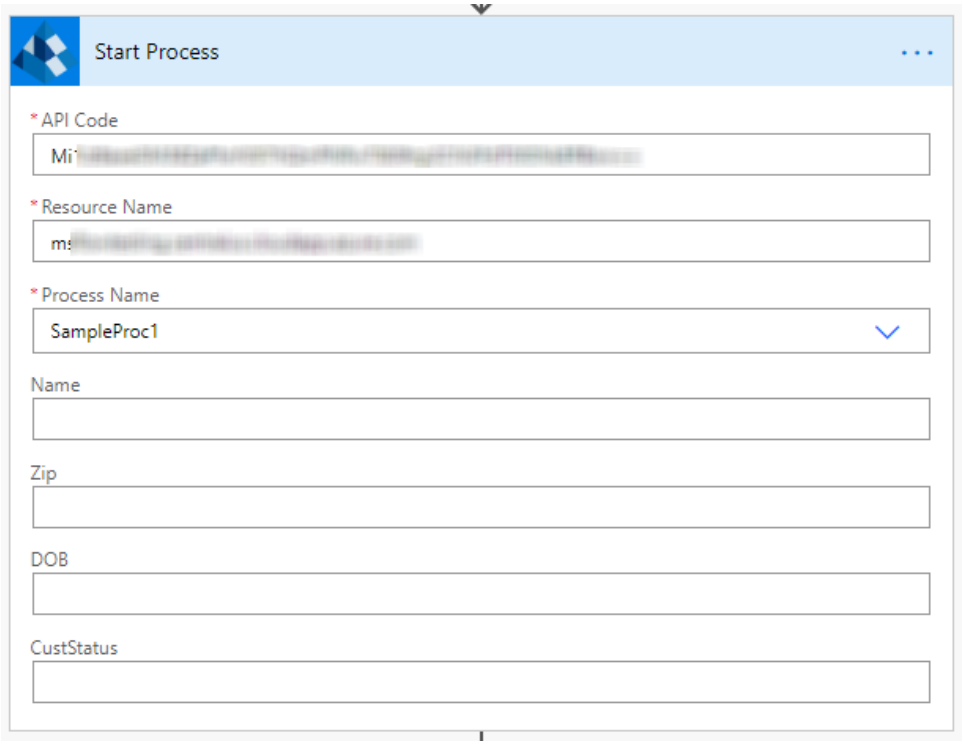
You can now create a new Flow Business Process, or add the Blue Prism Connector to an existing one



Select the Process to start from the drop down list



Based upon the process you select, you will be presented with the inputs needed by that process



Downstream action in the Flow will be able to use the outputs from the Blue Prism process as inputs