6.5 User Guide

Blue Prism and Power Platform Integration

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Introduction

This document outlines the integration and configuration of Blue Prism and the Microsoft Power Platform which includes Power BI, Microsoft Flow 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 Flow account
- Microsoft Azure account and ability to publish Azure functions from Visual Studio

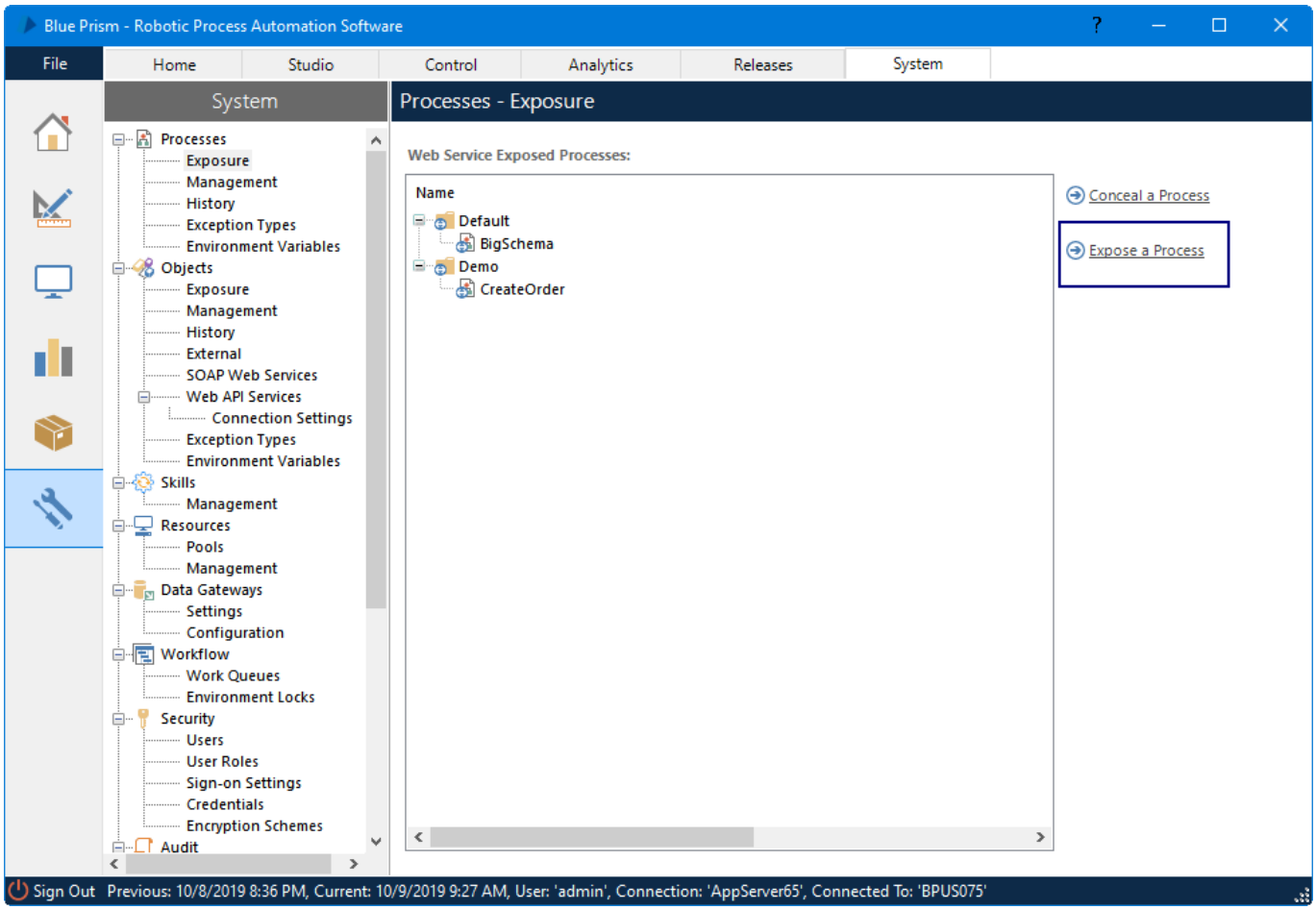
Flow to Blue Prism Integration

Components of the Solution

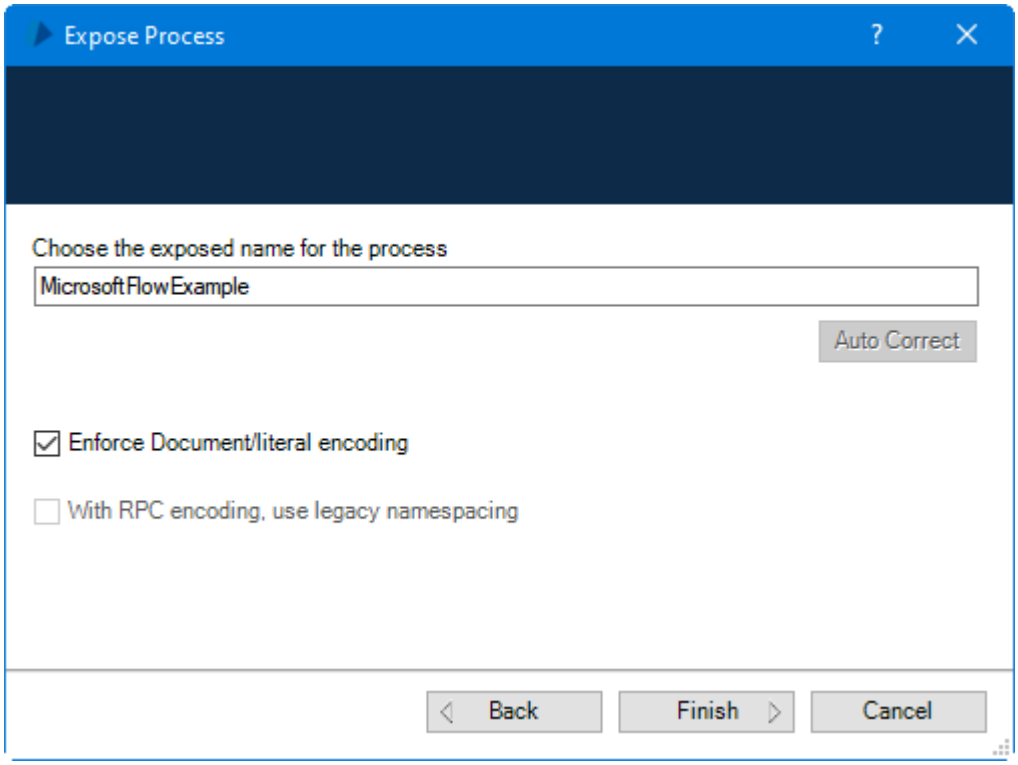
- Blue Prism Process exposed as SOAP Web Service
- Azure Function for REST Services
- Blue Prism Custom Connector
- Microsoft Flow Business Process

Blue Prism process exposed as SOAP Web Service

Expose the Blue Prism process as a SOAP Web Service.

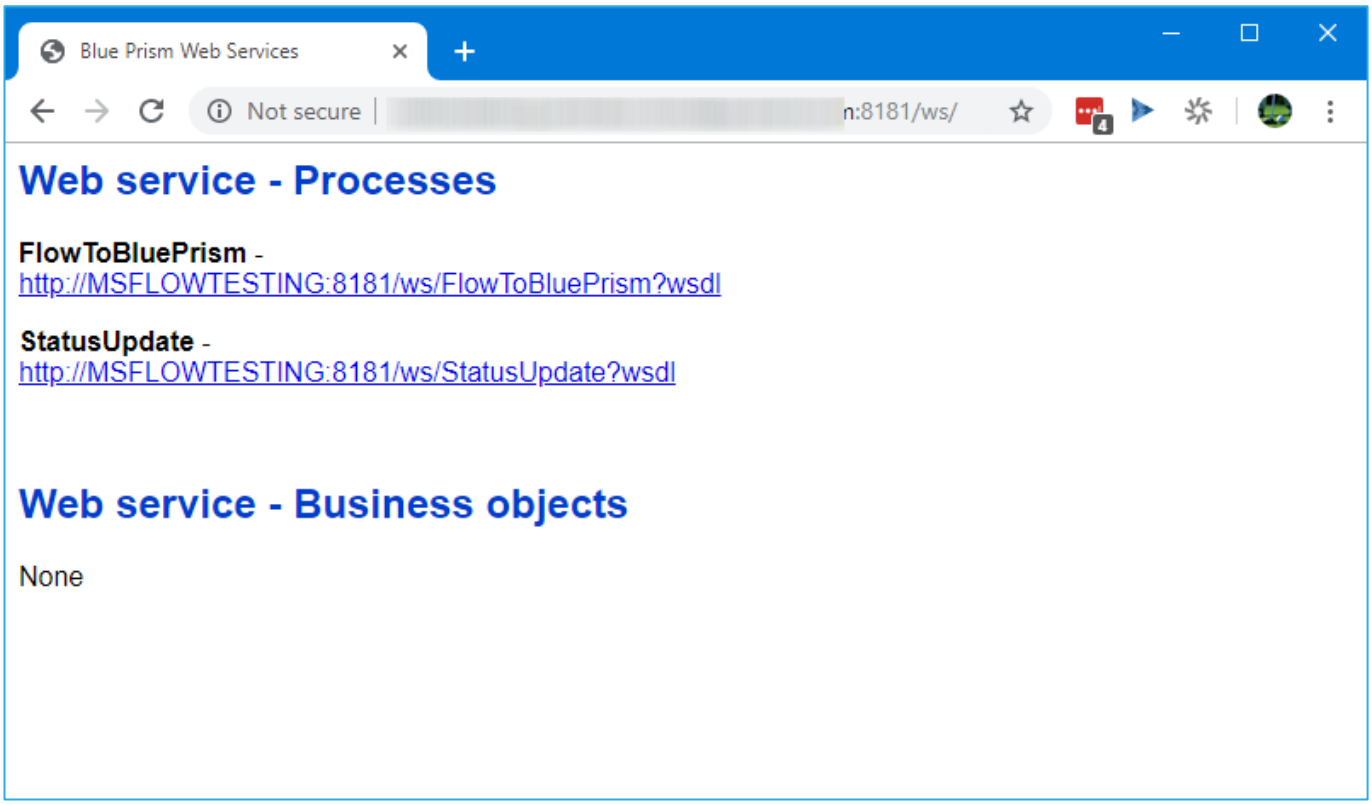


Make sure that you specify Document/literal encoding.



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:

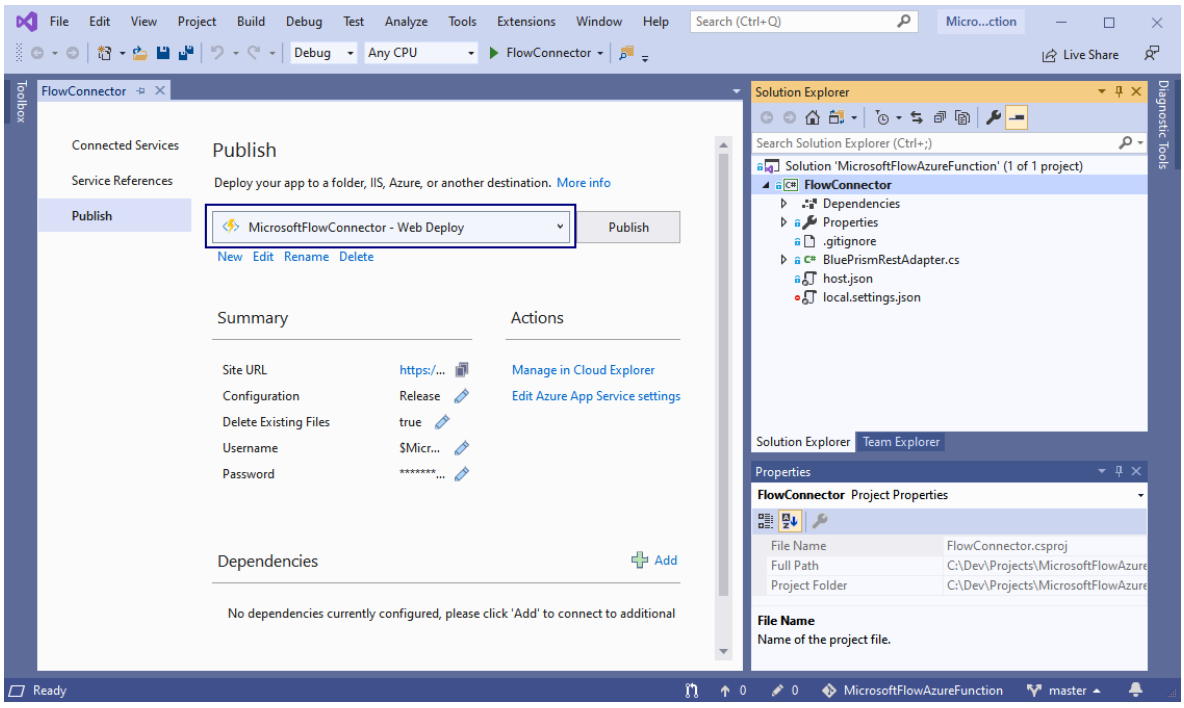
https://github.com/blue-prism/MicrosoftFlowAzureFunction

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

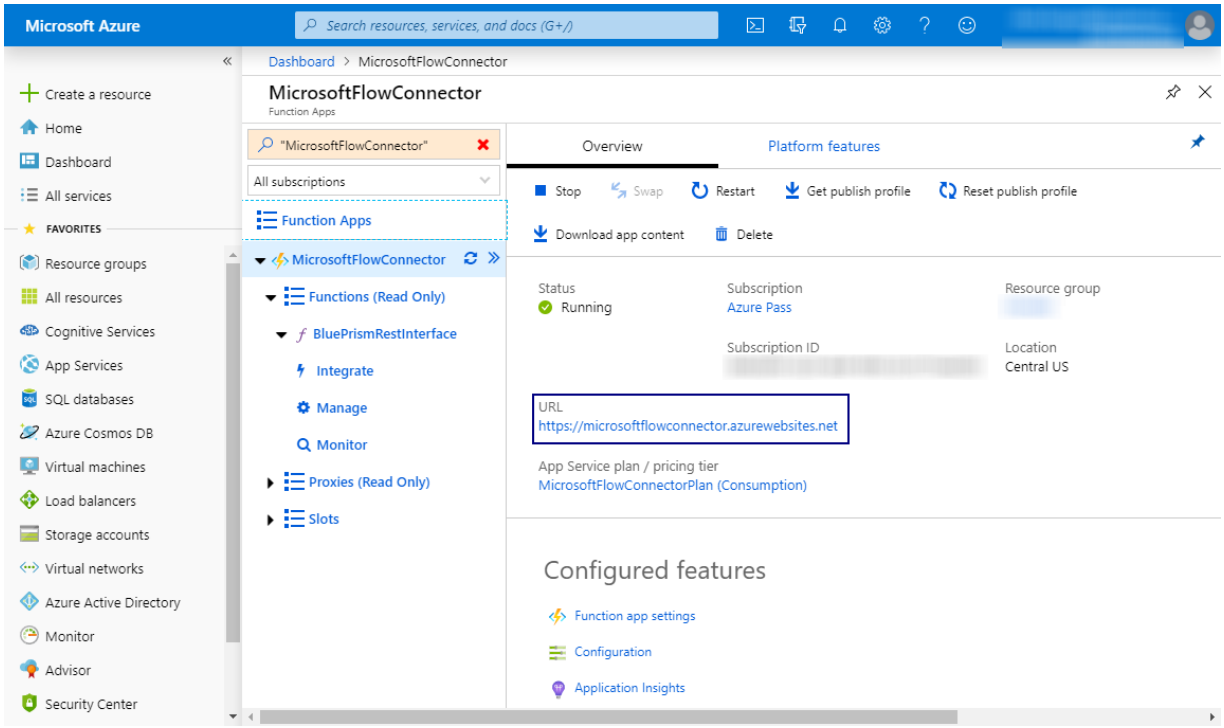
https://docs.microsoft.com/en-us/visualstudio/get-started/tutorial-open-project-from-repo?view=vs-2019

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:

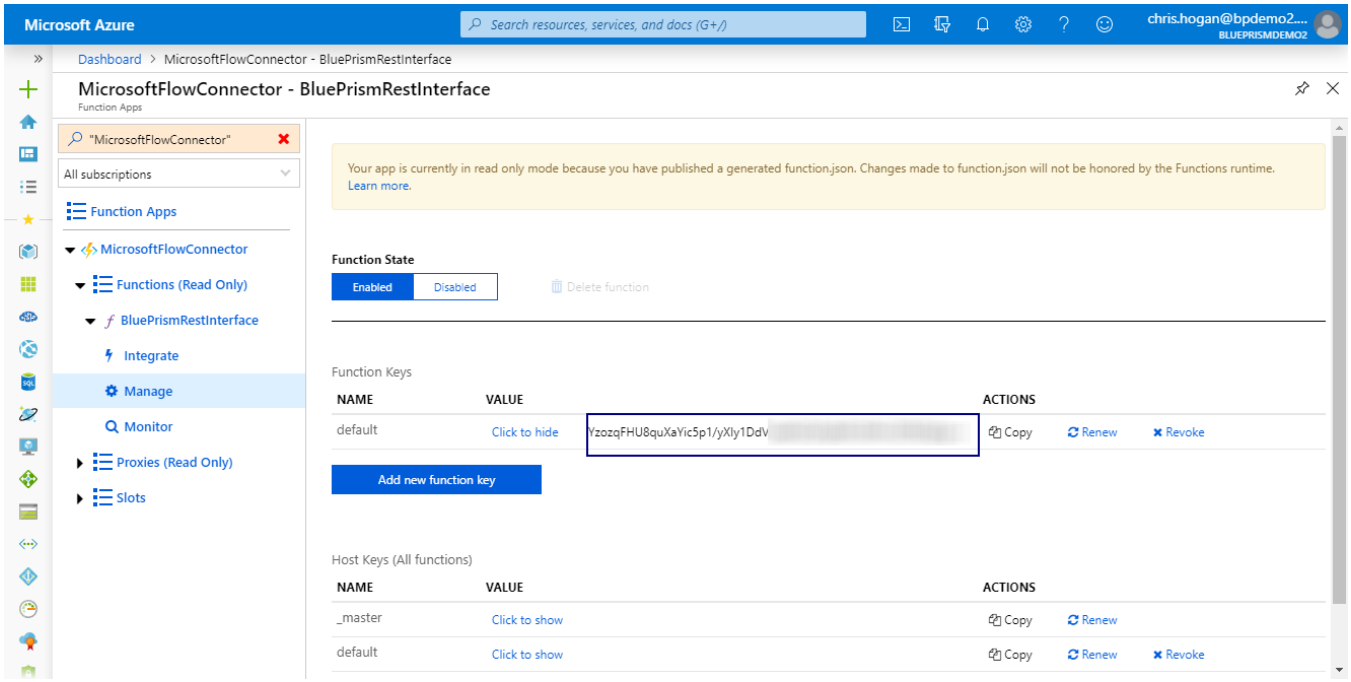
https://docs.microsoft.com/en-us/azure/azure-functions/functions-create-your-first-function-visual-studio



Once published to Azure, make note of the URL

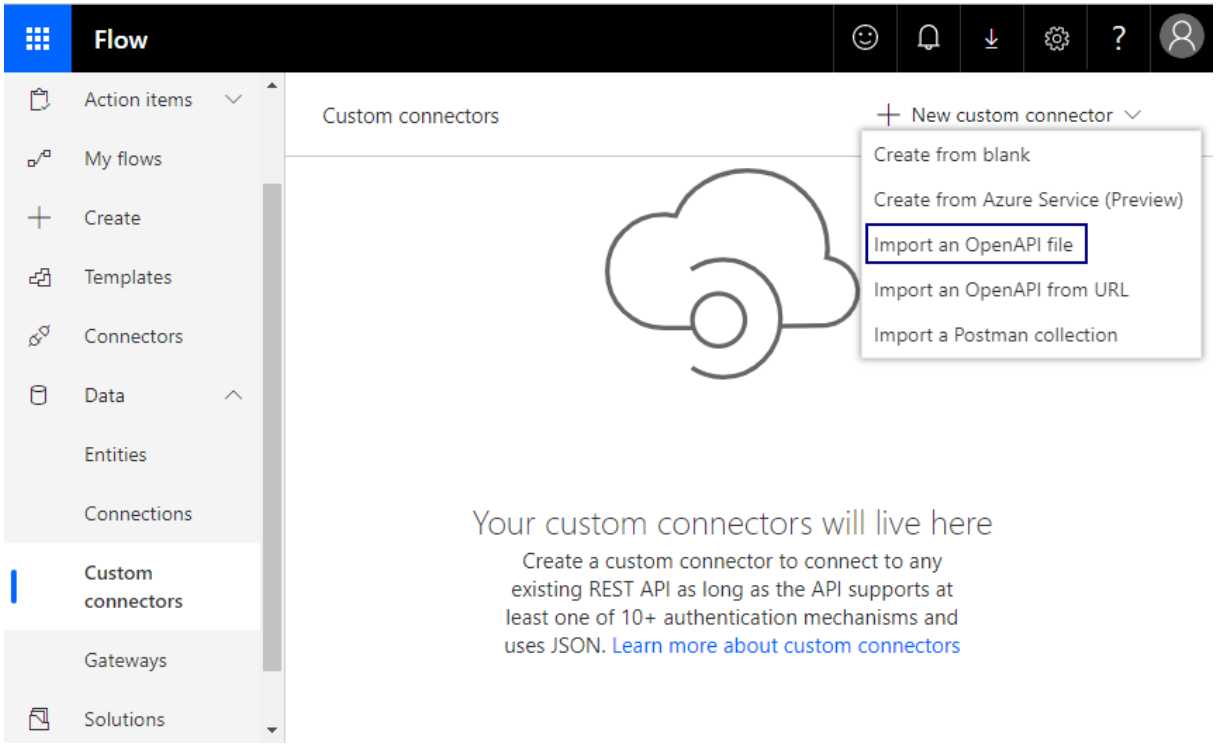


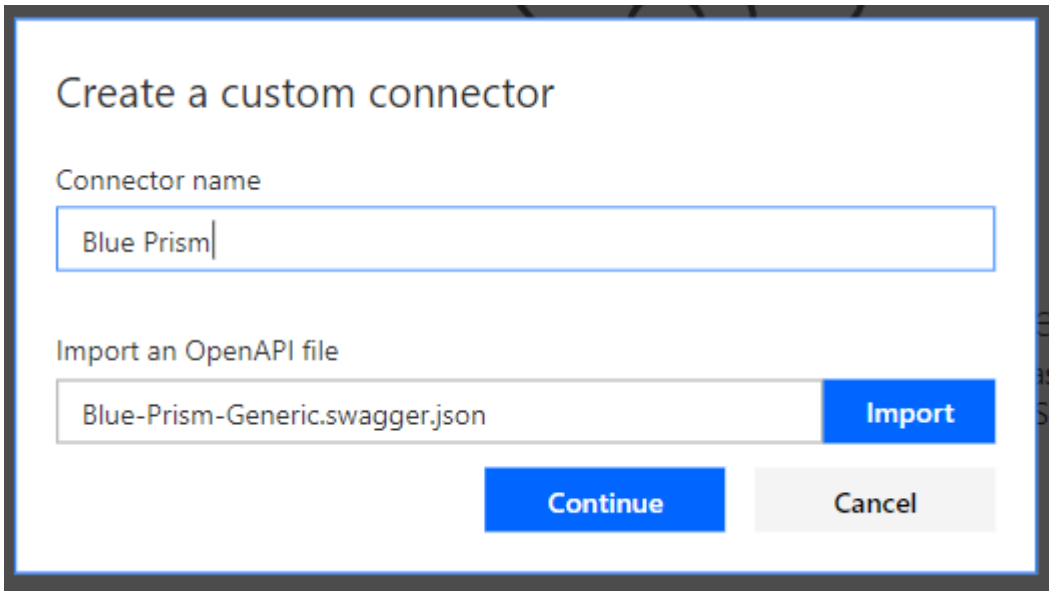
Also make note of the Function Key



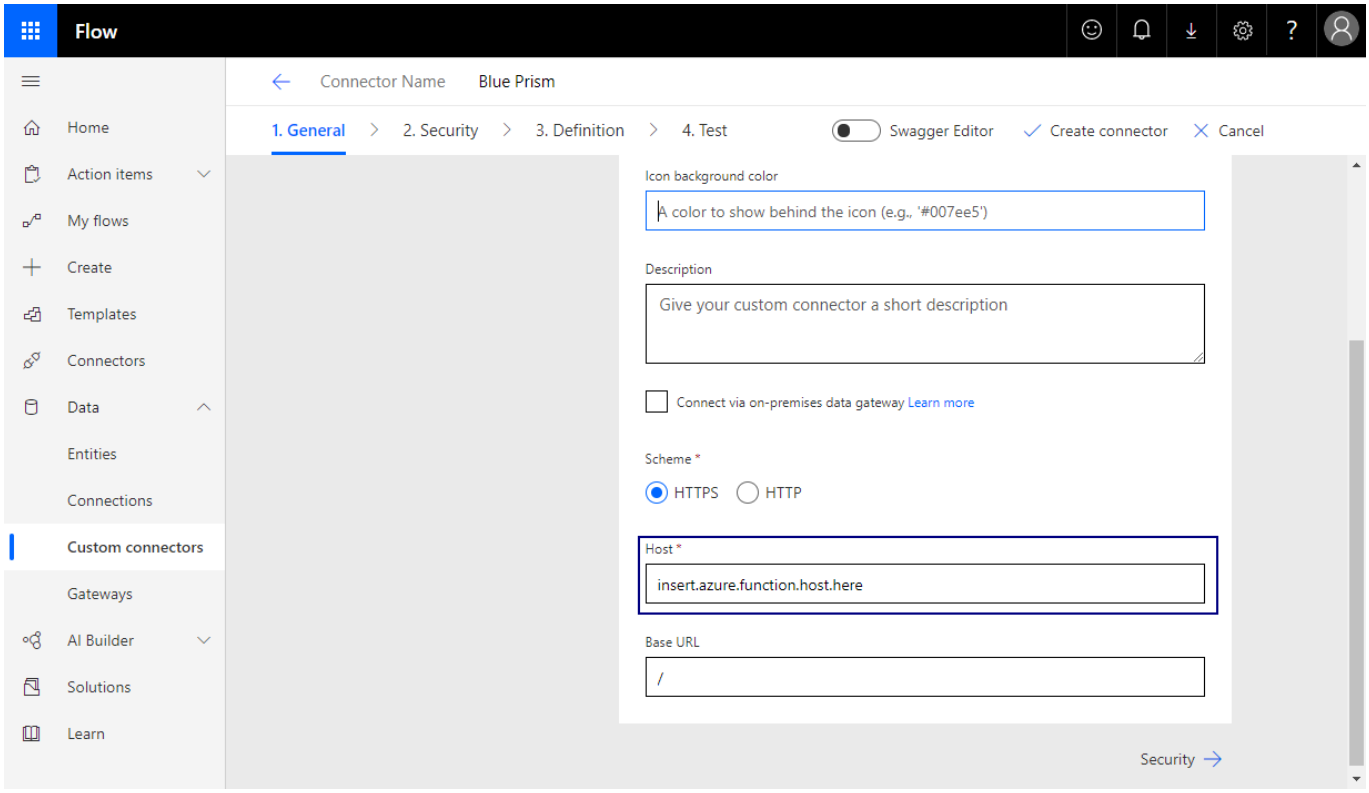
Blue Prism Custom Connector

Import the Blue-Prism-Generic.swagger.json connector definition from The Digital Exchange into Microsoft Flow

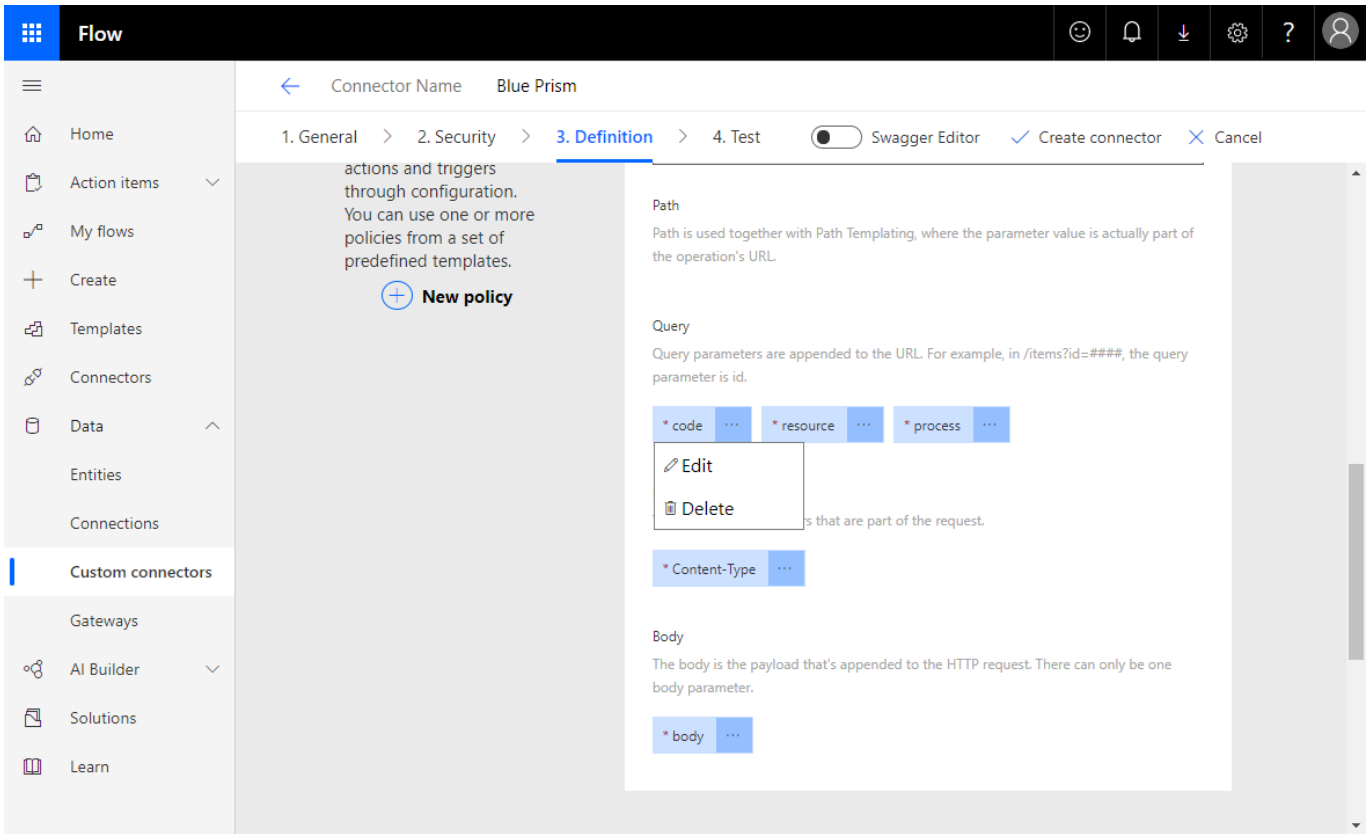


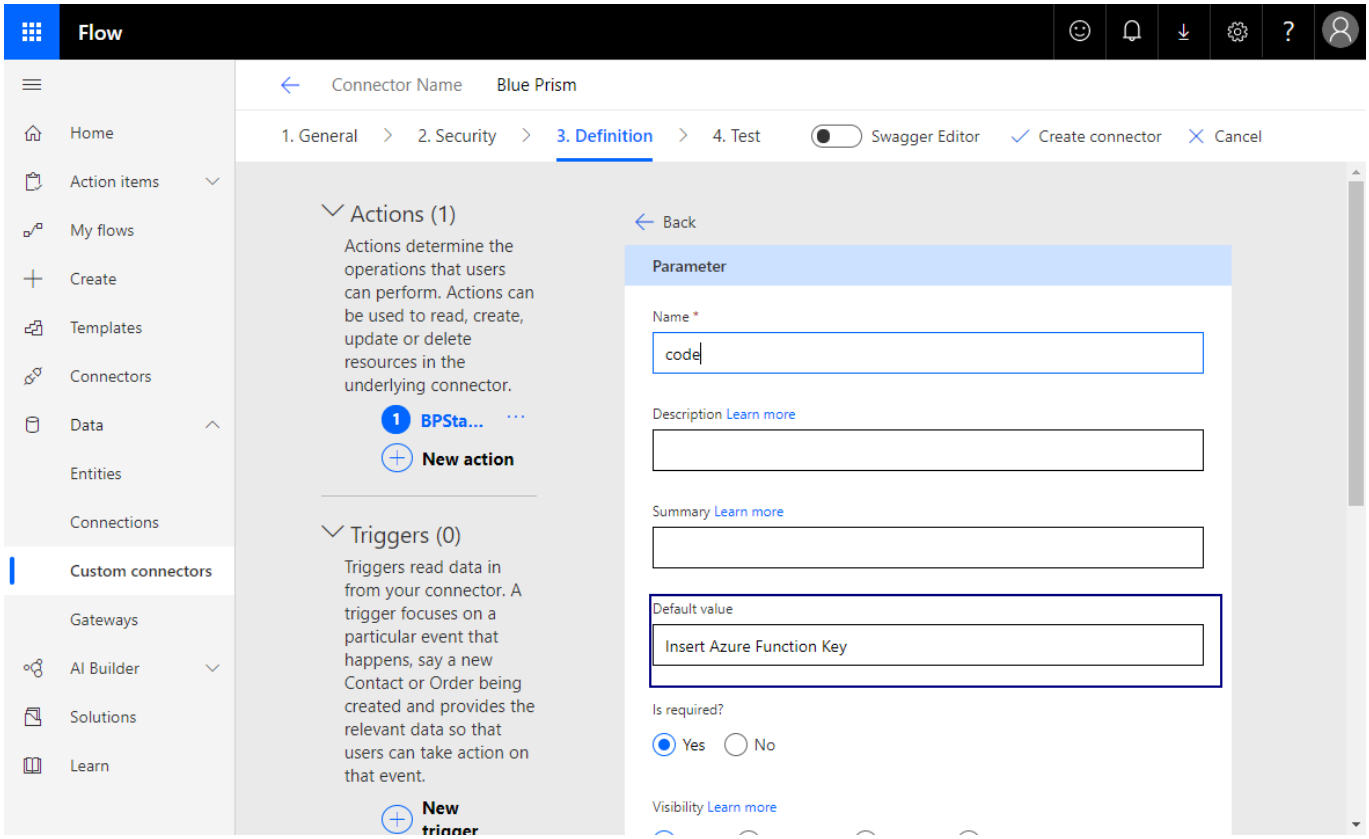


Add a custom icon if preferred, and specify the host from the Azure Function:

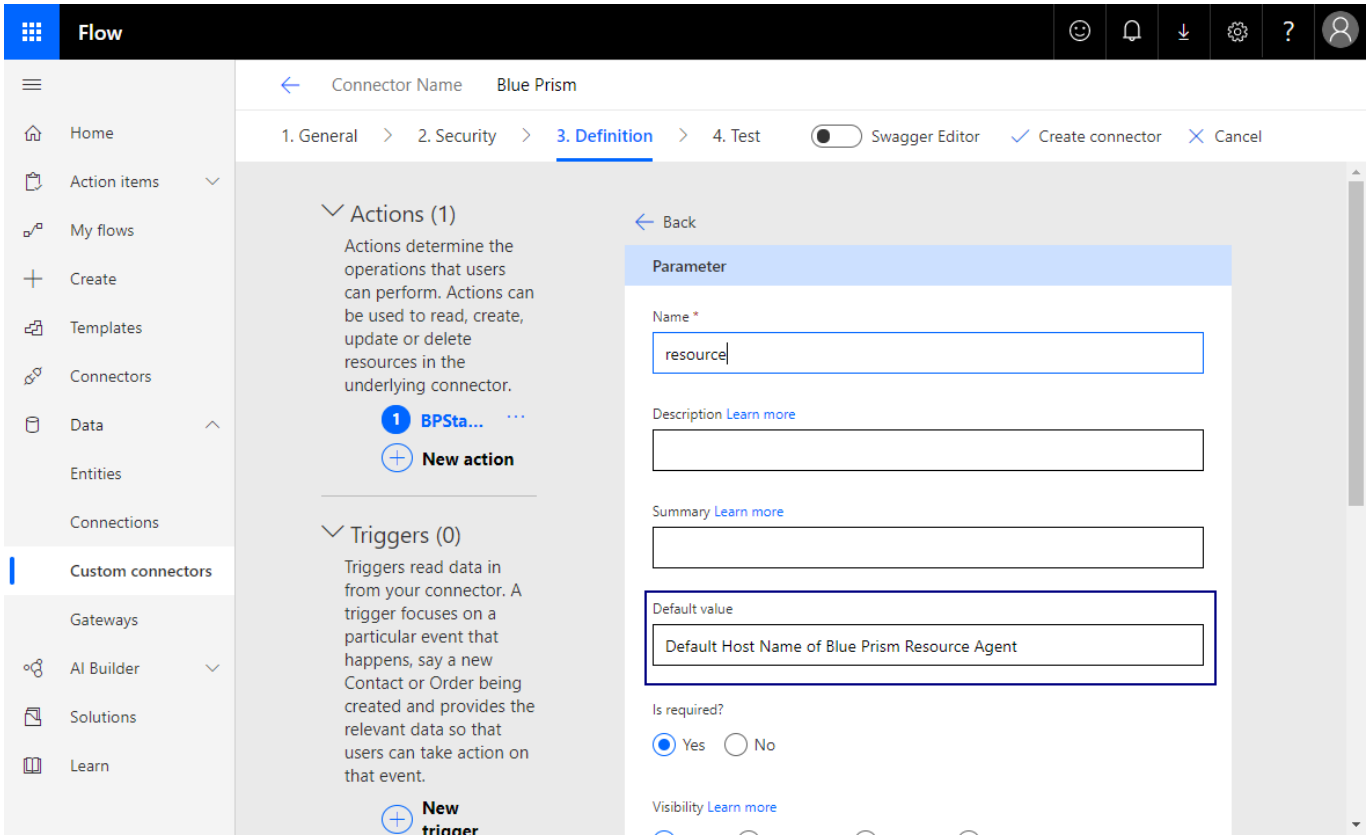


On definition tab, edit code and provide the Azure Function Key:

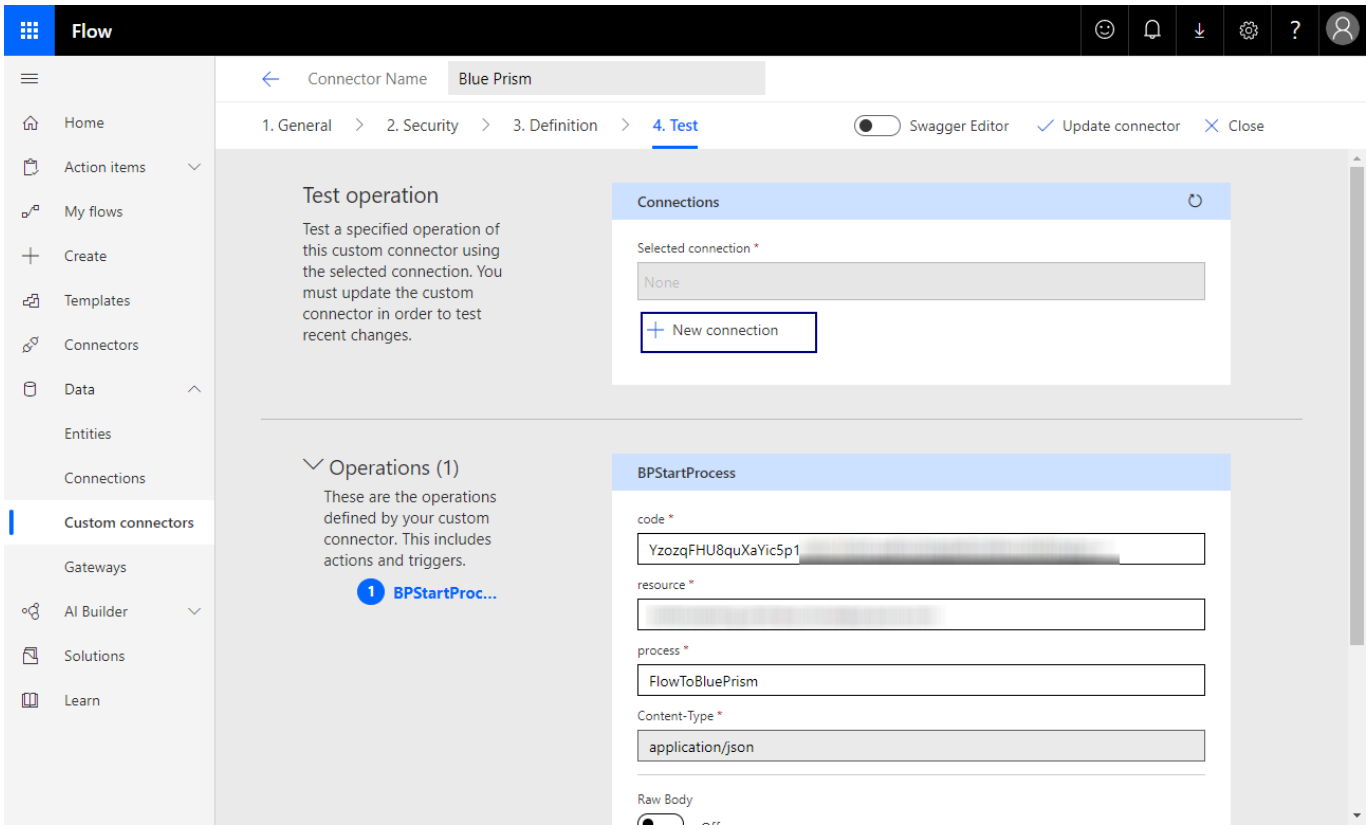




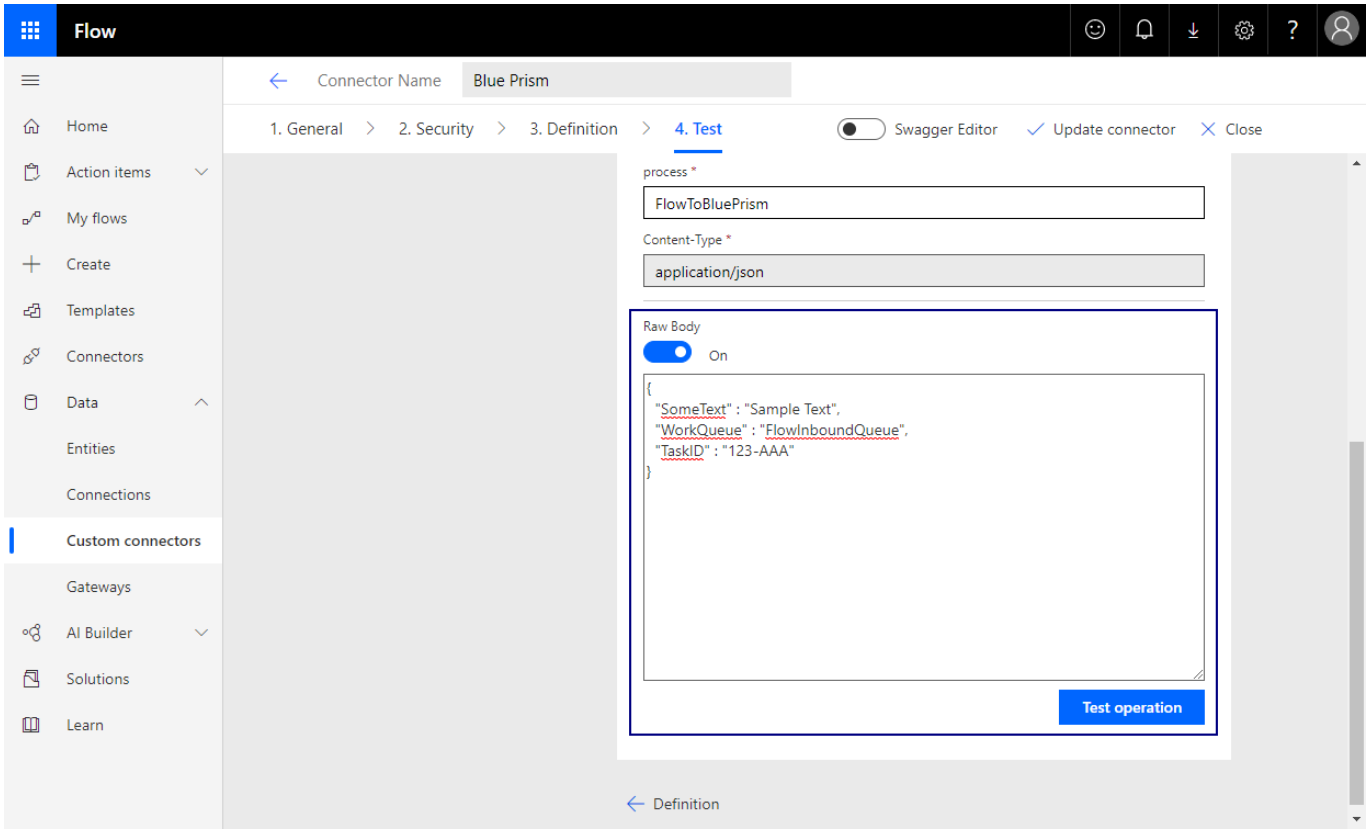
You can also provide the default values for the Resource Agent Host, and Process Name to invoke. These can also be specified later when using the connector in a Flow.



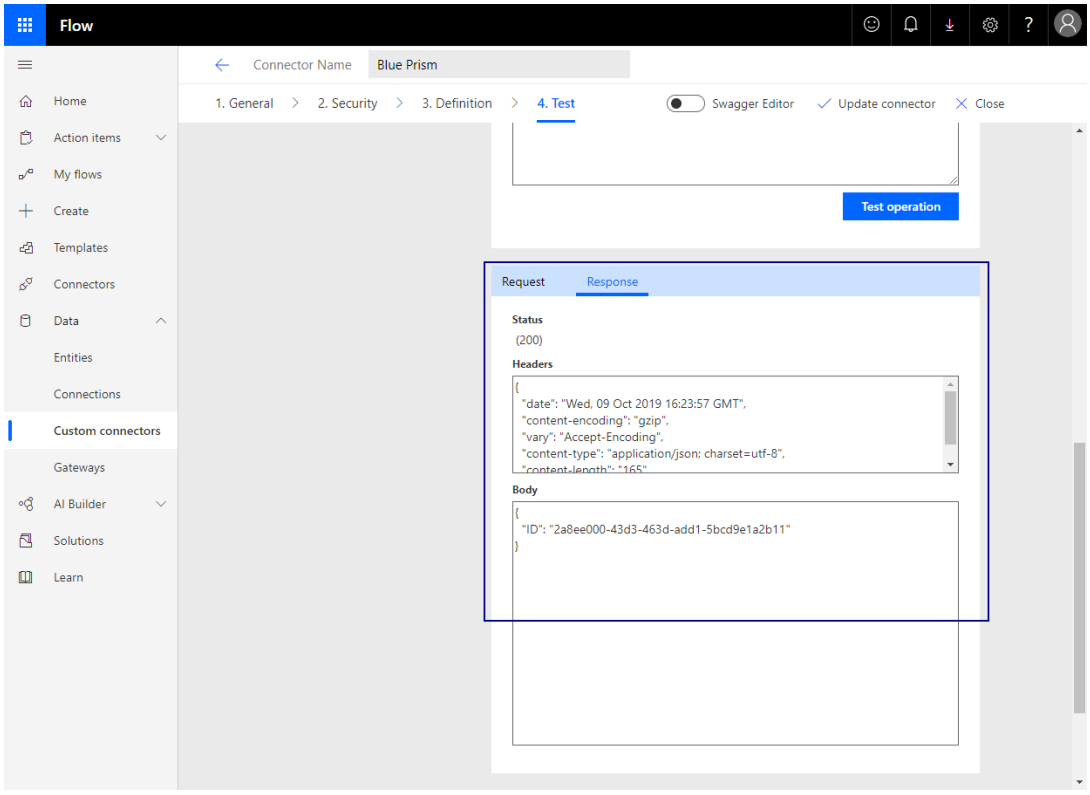
You can test the connector by creating a connection with the credentials that Blue Prism needs



Finally, provide the JSON payload of Data Item names and values that your Blue Prism Process has defined as input parameters.

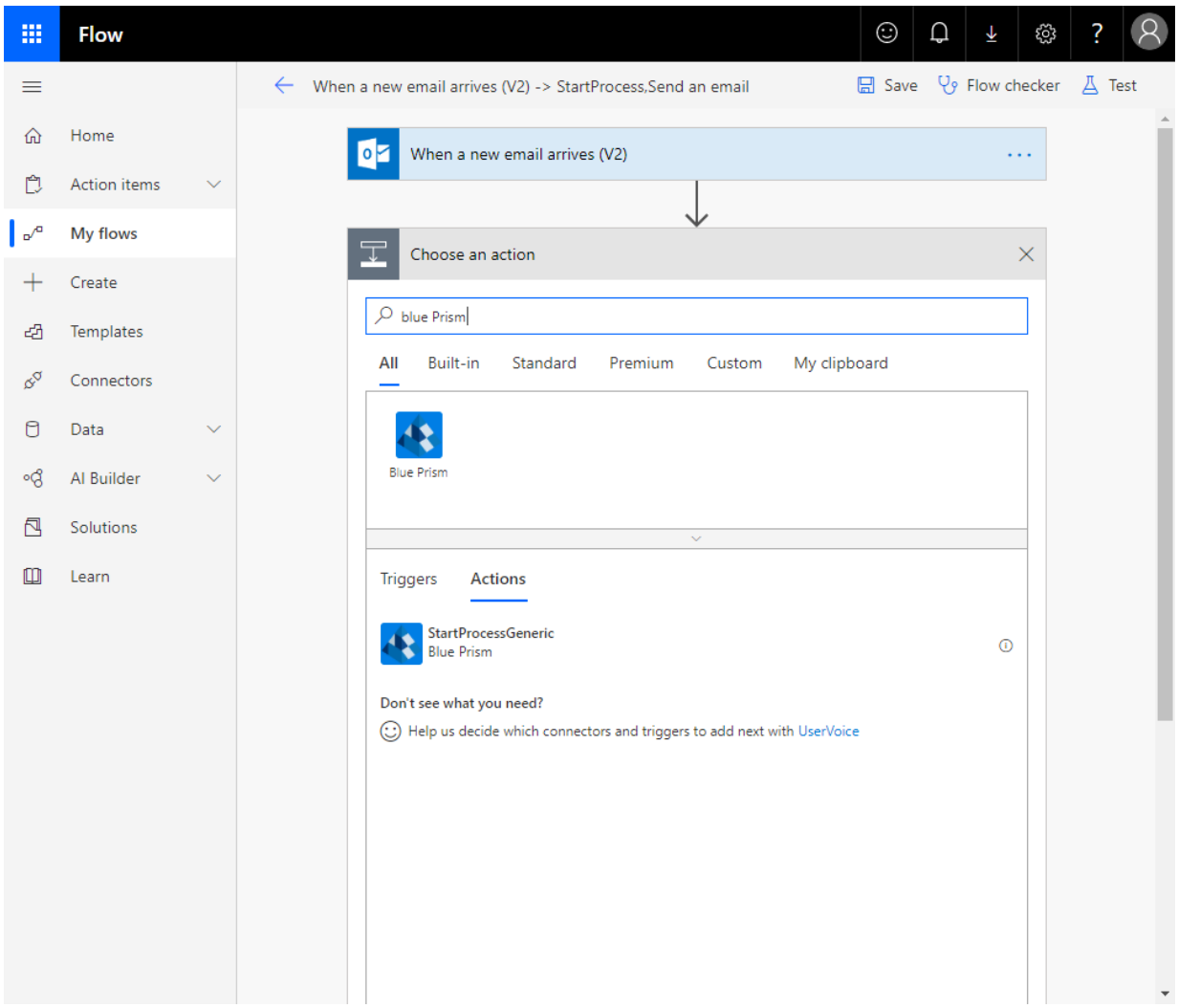


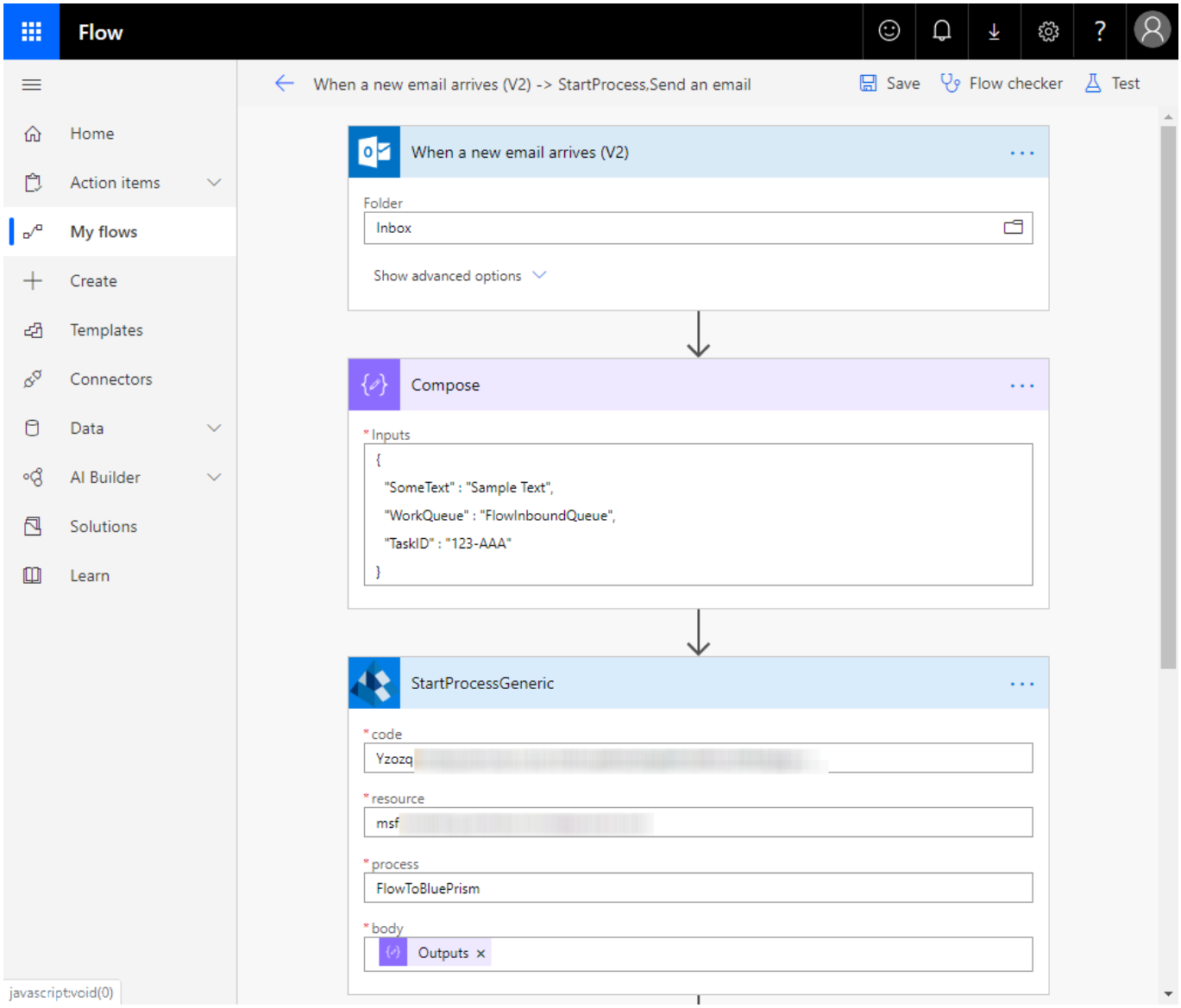
Upon completion, you will see the response that corresponds to the output of your Blue Prism Process



Microsoft Flow Business Process

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





With the generic connector, you are responsible for constructing the input JSON payload as well as reading the JSON response from the service.