Integration and Automation Services, aka Robotic Process Automation (RPA)

All of these services can solve integration problems and automate business processes. They can all define input, actions, conditions, and output. You can run each of them on a schedule or trigger.

Microsoft



Power Automate



Azure Logic App



Azure Functions

Competition



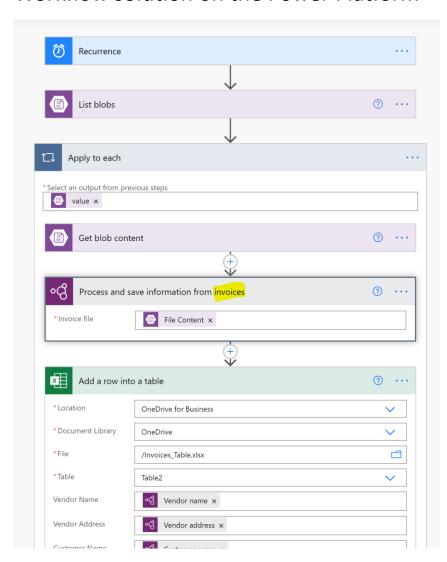




Power Automate + Form Recognizer Actions - Analyze Invoice with Pre-built Invoice Model



- Workflow solution on the Power Platform



Pros	Cons
Supports the latest version of Form Recognizer APIs	 Unable to specify Azure Subscription, the licensing is independent of Azure resource definition Unable to reference custom models built with Azure Form Recognizer, everything must be done within the Power Automate platform
Ease of integration to other Azure services, e.g., Blob storage	

Note:

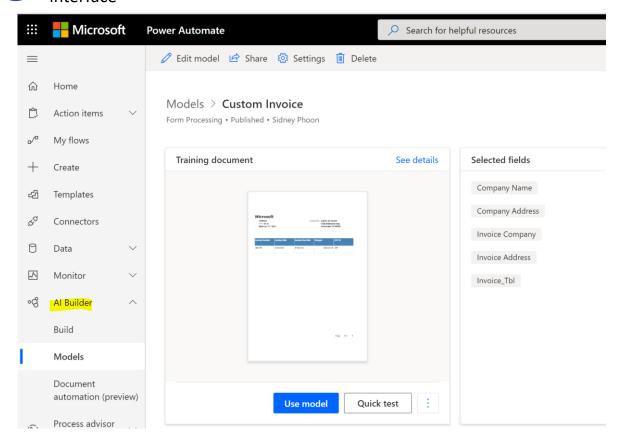
- Power Automate and Logic Apps are both *designer-first* integration workflow solutions.
- Power Automate is built on top of Logic Apps. They share the same workflow designer and the same <u>connectors</u>.

Power Automate - Al Builder – Build Form Recognizer Custom Model



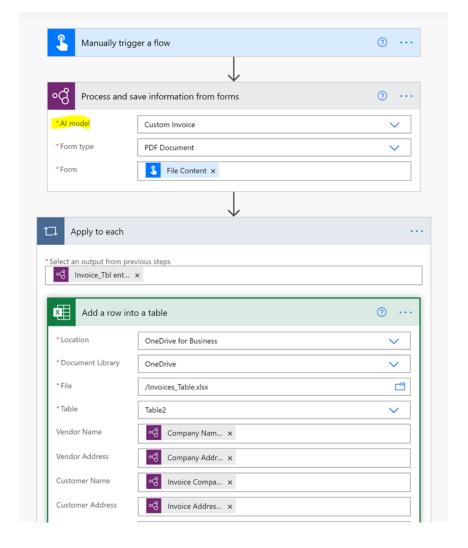


Build Form Recognizer Custom Model within the Power Automate Al Builder interface



Con: Unable to reference models built with Azure Form Recognizer, vice versa.

Analyze form with Custom Model within the Power Automate interface

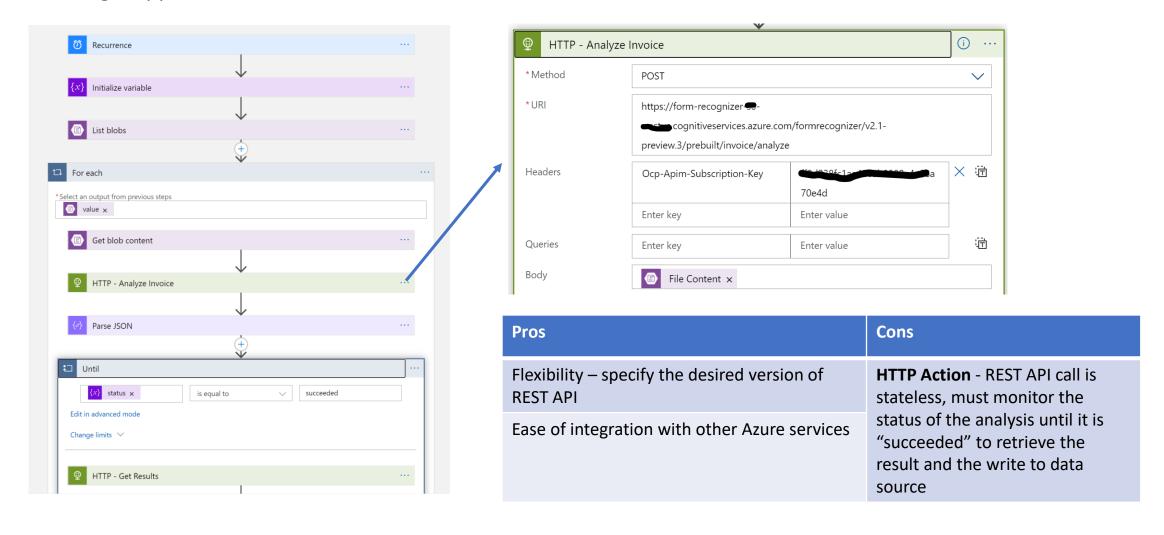


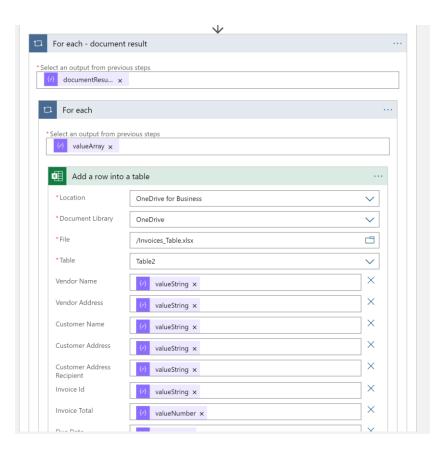
Azure Logic Apps + Azure Form Recognizer REST API – Analyze Invoice with Pre-built Invoice Model





Azure Logic Apps is an Azure Workflow solution







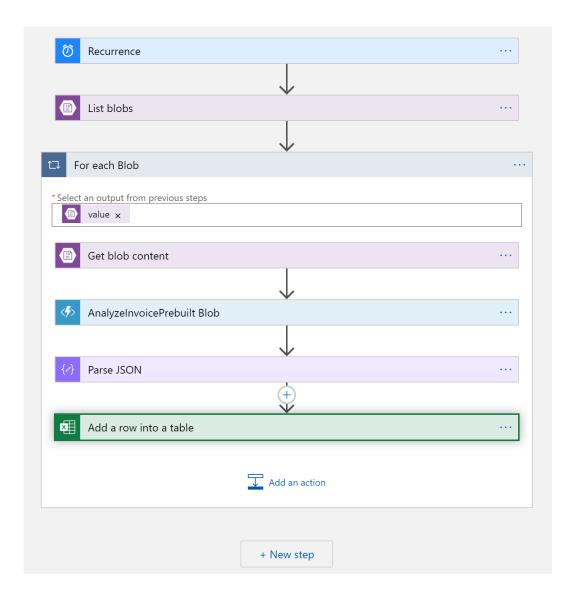


Α	В	C	D	E	F	G	Н	
Vendor Name	▼ Vendor Address	Customer Name	Customer Address 🔻	Customer Address Recipient	▼ Invoice Id ▼	Invoice Date 💌	Invoice Total	Due Date 🔻
Contoso Suites	14564 Main St. Saratos	ga First Up Consultants	1234 King St Redmond, WA 9	7 First Up Consultants	7689302	3/9/2015	\$22,123.24	6/29/2016
Margie's Travel	134 El Camino Real Ne	w The Phone Company	5506 Main St Redmond, WA 7	The Phone Company	AC-32322	None	\$110,153.22	11/6/2019
Contoso Suites	14564 Main St. Saratog	ga First Up Consultants	1234 King St Redmond, WA 9	7 First Up Consultants	7689302		\$22,123.24	6/29/2016
Margie's Travel	134 El Camino Real Ne	w The Phone Company	5506 Main St Redmond, WA 7	The Phone Company	AC-32322		\$110,153.22	11/6/2019
Margie's Travel	134 El Camino Real Ne	w The Phone Company	5506 Main St Redmond, WA 7	The Phone Company	AC-32322	None	\$110,153.22	11/6/2019
Microsoft	1020 Enterpirse Way. S	Su Wingtip Toys	1010 El Camino Real Cupertin	Wingtip Toys	332376	4/25/2017	\$10,023.34	7/8/2017
Microsoft	1111 8th st. Bellevue,	W Southridge Video	1060 Main St. Atlanta, GA 650	Southridge Video	454376	1/22/2017	\$210,023.34	4/5/2017
Microsoft	1020 Enterpirse Way. 9	Su Wingtip Toys	1010 El Camino Real Cupertin	Wingtip Toys	332376	4/25/2017	\$10,023.34	7/8/2017
Microsoft	1111 8th st. Bellevue,	W Southridge Video	1060 Main St. Atlanta, GA 650	Southridge Video	454376	1/22/2017	\$210,023.34	4/5/2017
Margie's Travel	134 El Camino Real Ne	w The Phone Company	5506 Main St Redmond, WA 7	The Phone Company	AC-32322	None	\$110,153.22	11/6/2019

Azure Logic Apps + Azure Function + Azure Form Recognizer SDK – Analyze Invoice with Pre-built Invoice Model







This is the ideal solution.

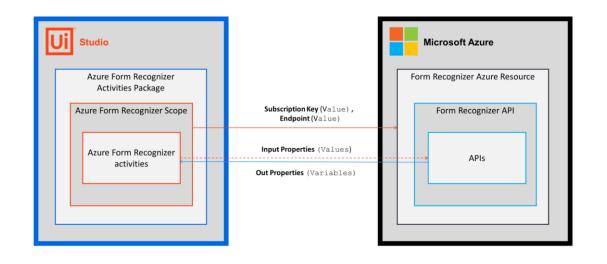
Pros	Cons	
Flexibility – Ability to specify version of the SDK to use in Function App		
Stateful solution – returns results when analysis is complete, simplifies workflow		
Azure Function – hides credentials and implementation		
Ease of integration with other Azure services		

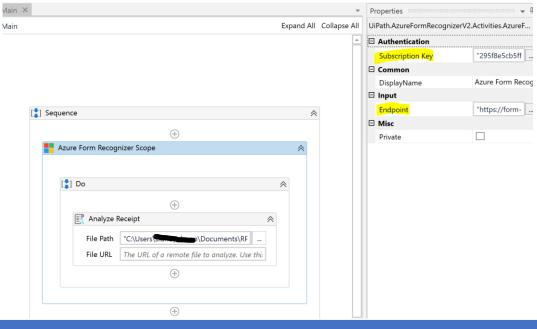
```
form_recognizer_client = FormRecognizerClient(endpoint, AzureKeyCredential(key))
poller = form_recognizer_client.begin_recognize_invoices(body)
invoices = poller.result()
```

UIPath Marketplace – Azure Form Recognizer Activities



This is similar to Power Automate. Requires installation of UIPath Studio as the visual IDE Ref: Microsoft Azure Form Recognizer (uipath.com)





Pros	Cons
Ability to specify Azure subscription key and endpoint	Does not support the latest version of Form Recognizer API => no support for analyzing invoices with pre-built model
	No ability to specify the version of the REST API to call
	Not clear how to integrate with Azure Blob Storage

UIPath HTTP Request – API Call to Form Recognizer APIs



• This is like Azure Logic App, calling the Form Recognizer REST API through a HTTP Action

