

POWER APPS USER GUIDE

SIMBA Chain's brings blockchain to Microsoft Power Apps.

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CONFIGURE YOUR SETTINGS

Upon loading the app for the first time, you will be greeted by a welcome page where you will be asked to configure some settings.

Here you need to set your SCAAS Domain and your SIMBA Chain organisation's ID in the respective text fields. You can press the reset button at any time to reset the fields.

Once you have done that, press the **submit** button.

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The app will then reload, and a pop up will appear asking for some permissions, press the **allow** button to proceed to the application.

Now you are through to the main application, you can view your configuration in the **Settings** tab, here there is one more setting that you can configure to your liking. The **dense tables switch** alters the density of the tables.





Authorize

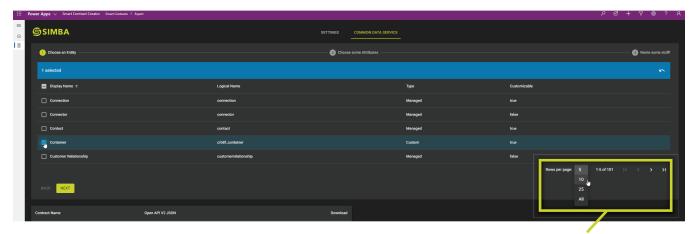
When the switch is checked, the table rows become narrower, allowing you to fit more on the screen. Try it out!

CREATING A SMART CONTRACT

Now that your settings are configured, navigate to the Common Data Service Tab by clicking Common Data Service towards the top of the screen. Here you will be greeted by a three step form.

	Power Apps 😞 Smart Contract Creator Smart Contracts > Export	
≡ ⊛	SIMBA	SETTINGS COMMON DATA SERVICE
8	scAAS bonein https://pyscaas.dev.simbachain.com	· · · · · · · · · · · · · · · · · · ·
	SMBA Organisation ID 51974178-6076-46c3-a37b-cb948f3e36641	· • • • •
	Dense Tables (useful for smaller screwed)	

STEP 1: CHOOSE AN ENTITY



Here you should be greeted by a table titled Entities. This table contains all of your common data service entities, which should be familiar. All there is to do here is click on the entity that you wish to use to create your smart contract, either via the checkbox, or simply clicking the row. You can undo your selection at any time by clicking the undo icon at the top right of the table. Here I've chosen a custom Container entity. If you cannot find the entity on the first page, then use the pagination buttons to navigate through the table, until you find it. If you want to see more entities on each page, then the Rows per page select box will allow you to choose between 5, 10, 25 or all the rows.

1) Choose an Entity		- 🔞 Choose some Attributes
Display Name 🛧	Logical Name	Туре
Connection	connection	Managed
Connector	connector	Managed
Contact	contact	Managed
Container	orb81_container	Custom
Customer Relationship	oustomerrelationship	Managed

Note: you can only choose one entity at the moment.

1 Chosee an Eitility		Choose some Attributes
1 selected		
Display Name +	Logical Name	Туре
Connection	connection	Managed
Connector	connector	Managed
Contast	contact	Managed
Container	crb8f_container	Custom
Customer Relationship	customerrelationship	Managed
BACK NEXT		

Once you've chosen your entity, click **next** to proceed to step 2.

STEP 2: CHOOSE SOME ATTRIBUTES

Power Apps Smart Contract Creator Smart Contracts Export				₽ Ø + V @ ? ;
		SETTINGS COMMON DATA SERVICE		
Solution Choose an Entity		2 Choose some Attributes		3 Name some stuffi
3 selected				
Display Name 🛧	Logical Name		Туре	Required
Departed	crb8f_departed		DateTimeType	crb8f_container
Import Sequence Number	Importsequencenumber		IntegerType	crb8f_container
	crb8f_Jocation		StringType	crb8f_container
Modified By	modifiedby		LookupType	crb8f_container
Modified By (Delegate)	modifiedonbehalfby		LookupType	crb9f_container
				Rowsperpage: 5 → 11-15 of 37 (< < >)
BACK NEXT				

Here you should see a table titled Attributes. This table contains all the attributes for your selected entity. Once again simply click the checkbox or the row of the attributes that you want as part of your smart contract. These will form the "fields" in your contract, and you are allowed to choose more than one this time. You can undo your selections at any time by clicking the undo icon at the top right of the table, or by simply clicking the checkbox or row again. Here I've chosen 3 attributes.

Choose an Entity		2 Choose some Attributes
3 selected		
🗖 Display Name 🛧	Logical Name	Туре
Departed	crb8f_departed	DateTin
Import Sequence Number	Importsequencenumber	Integer1
V Location	crb8f_location	StringT)
Modified By	modifiedby	Lookup
Modified By (Delegate)	modifiedonbehalfby	Lookup
BACK INTE		

Once you've chosen your attributes, click next to proceed to step 3.

STEP 3: NAME SOME STUFF!

	Power Apps Smart Contract Creator Smart Contracts Exp	port			৯ ৩	+	Y	⊚ ?	Я
≡ ⊛	SIMBA		SETTINGS	COMMON DATA SERVICE					
	✓ Choose an Entity		🕑 Choos	e some Attributes		-	3) Name	some stuff	n
	Contract Name * Container Arrived			Api Name *					
	Something you'll remember								
	Contract Name	Open API V2 JSON	Download						

Here you are greeted with two text inputs, Contract Name, and API Name. Contract name is a user facing name for your contract, it's for you, so name it something you can remember.

API Name on the other hand, forms part of the smart contract api url that will be generated. Therefore, we don't allow spaces or special characters, as indicated by the placeholder text.

s	Api Name* container_arrived	
	No spaces or special characteral	

USING YOUR CONTRACT IN A FLOW

wer Apps 🗸 Smart Contract (Creator Smart Contracts > Export					> < + < > < < < <
SIMBA			SETTINGS CON	MMON DATA SERVICE		
1 Choose an Entity ——			😰 Choose some	Attributes		It is a some some some some some some some some
Entities						
🔲 Display Name 🛧		Logical Name		Туре	Customizable	
Connection		connection		Managed	true	
Connector		connector		Managed	false	
Contact		contact		Managed	true	
Container		crb8f_container		Custom	true	
Customer Relationship		customerrelationship		Managed	false	
						Rows per page: 5 → 31-35 of 101 < < >
Contract Name	Open API V2 JSON		Download			
Container Arrived	https://pyscaas.dev.simbachain.com/v2/apps/arrived_container/opena	pl_v2/ ►	÷			
			2 3 31			
		Rows per page: 5 👻 1-1 of 1 🛛 🗠	× / //			
		Rows per page: S - 1-1 of 1 <				
		Rowsperpage: 5 - 1-1 of 1 <	х <i>У У</i>			

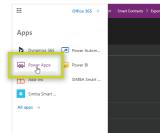
Once the server has responded, you will find your new smart contract in the bottom table.

Look for your contract name, and then press the respective download button on the tables right hand side. This will download an open api v2 json file named [ContractName]. json, and it can be found in the default downloads directory for your operating system. We will use this file to create a custom connector for our newly created smart contract API

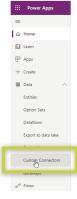


CREATING THE CUSTOM CONNECTOR

To begin, first navigate to the Power Apps home page.



Now click the Data drop down and navigate to custom connectors and click.

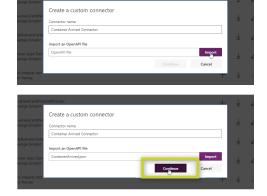




III Power Apps				Brivitonment SIMBAChain (default)	0 🛛 ? 🚾
=	Custom connectors		$+$ New custom connector \vee		
	Name		Create from blank		
Learn P Apps	App-49 Ad	dmin	Import an OgenAPI file		
+ Create			Import an OpenAPI from URL		
⊞ Data ∧	App-4g Ter George Sin	estingScaaS Impkin	Import a Postman collection		
Entities	App-4g do Kisran Evan	owevents	+ + 0		
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Export to data lake	BusinessCa Genore Si	ards	+ 🖞 🖉 …		
Connections Custom Connectors					
Gateways	BusinessCa George Sin	ardsFilesInAttributes Impkin	$+ \perp \mathcal{O} \cdots$		
e ^{re} Flows	BusinessCa George Sin	ardsNoImage	+ ± 0 …		
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Solutions	MyBusines: George Sin	ssCards Impkin	$+ \pm \checkmark \cdots$		

Next click on the New Customer Connector drop down menu at the top right, and select Import an OpenAPI file.

Now simply name your connector and import the open API file we downloaded earlier, remember it should be in your default downloads directory.



Press Continue

You should now be on a four step form to configure the connector.

II Power Apps		& Environment SIMBAChain (default) D ⊚
=	Connector Name Container Arrived Connector	
E Home	1. General $ ightarrow$ 2. Security $ ightarrow$ 3. Definition $ ightarrow$ 4. Test Swagger Editor $ ightarrow$ Create connector $ ightarrow$ Cance	
1 Learn		
Apps	General information General information Add an icon and short description	
- Create	to your custom connector. Your host and base URL will be	
Data ^	host and base URL will be automatically generated from the swagger file.	
Entities	Upload connector icon \$upported file formats are PNG and JPG. (< 1MB)	
Option Sets	Icon background color	
Dataflows	A color to show behind the icon (e.g.: #007ee5')	
Export to data lake	Description	
Connections	¢	
Custom Connectors	This is the [OpenAPI 3.0](https://swagger.io/docs/specification/about/) interactive API	
Gateways	Connectivia on-premises data gateway Learn more	
Rows	Schama *	
Al Builder 🗸	• HITPS O HITP	
Solutions	Host *	
	pyscaas.dev.simbachain.com	
	Base UR.	
	/	
	$\lambda^{ m Security}$	

GENERAL INFORMATION

For this step, make sure HTTPS is selected for the Scheme, and then enter your domain name (the same one from your settings) as the host. Leave base URL as /.



				B SIMBAChain (default)	0 (9
← Connector Name Container Arrived Connector						
1. General \rightarrow 2. Security \rightarrow 3. Definition \rightarrow -	4. Test	Swagger Editor	ctor X Cancel			
Security Closes is exclusionation type and the inclusion block oset the security for your custom connector. Learn more	Authentication type Crosse what authentication is implemented by No authentication Basic authentication API Key Chrome 20	ygur ABI *				

SECURITY

For authentication type choose OAuth 2.0

For Identity Provider choose Generic Oauth 2

In the Client Id field enter a client id for interacting with a web api for your authorization server. In the Client Secret field, enter the client secret for that particular client id.

For Authorization URL enter https://auth.[Domain]/web/authorize e.g. https://auth.pyscaas.example.com/web/authorize

For token url input https://auth.[Domain]/v1/oauth/tokens e.g. https://auth.pyscaas.example.com/v1/oauth/tokens. For refresh url, simply input your token url

Authentication type	
Choose what authentication is implemented by your API *	
OAuth 2.0	\sim
🖉 Edit	
OAuth 2.0	
Identity Provider	
Generic Oauth 2	\sim
Client id *	
ahi	
Client secret *	
Authorization URL *	
https://auth.pyscaas.dev.simbachain.com/web/authorize	
Token URL *	
https://auth.pyscaas.dev.simbachain.com/v1/oauth/tokens	
Refresh URL *	
https://auth.pyscaas.dev.simbachain.com/v1/oauth/tokens	
Scope	
read_write	
Redirect URL	
Save the custom connector to generate the redirect URL	D
🖉 Edit	
- General	Definition $ ightarrow$

And finally for scope input read_write

DEFINITION AND TEST

There is nothing you need to do for these sections, but feel free to have to look over and make sure everything looks in good order. Once you're satisfied press update connector in the top right.

III Power Apps		Bittionment Bitti SIMBAChain (default)	0 © ? <mark>GS</mark>
Connector Name Container Arrived Co	Connector		
A Home 1. General > 2. Security > 3. Definition	n > 4. Test Swagger Editor Create connector Cancel		
II Learn	-		
	General		
+ Create operations that users can perform. Actions can be used to	Summary Learn more		
Data A Tread, create, update or delete resources in the underlying	contract_arrived_container		
Entities connector.	Description Learn more		
Option Sets	# Retrieve any transaction to this contract.		
Option Sets Quildate_bund Obtainfows Quildate_bund Quildate_bund	Operation 10 *		
	This is the unique string used to identify the operation.		
A 3 Post_v2_apps ***	Contract_v2_apps_arrived_container_contract_arrived_container_		
Connections	Visibility Learn more		
Custom Connectors	none advanced internal important		
Gateways VReferences (23) References are reusable			
v ^{er} Rows parameters used by both actions and resources	Request		
«Ĝ Al Builder V III III FileArray	It defines the pre-requirements needed in order to make a request. Describes a single operation		
Solutions	parameter. A unique parameter is defined by a combination of a name and location.		
(3) įsonapi	Request + Import from sample		
O resource	Verb *		
S link	The verb describes the operations available on a single path.		
Inits Inits Teltoone	URL*		
6 relationshipToOne	UKL.* This is the request URL.		
9 reltomany	https://pyscaas.dev.simbachain.com/v2/apps/arrived_container/contract/arrived_container/		_
10 relationshipLinks	Path		
1 relationshipToMa	Page Path is used together with Path Templating, where the parameter value is actually part of the operation's URL.		
Intage Intage Depination			
pagmauon pageref	Query Query parameters are appended to the URL. For example, in /items?idu=####, the query parameter is id.		
10 failure			
16 errors	Headers		
10 error	These are custom headers that are part of the request.		
(1) onlymeta	Body		
10 meta 20 datum	The body is the payload that's appended to the HTTP request. There can only be one body parameter.		
			-

ESTABLISHING A CONNECTION

Once you've pressed close to exit the custom connector creation wizard, you should be back on the custom connectors screen.

To create a connection, find you're connector in the list and press the + symbol

ustom con	nectors	+ N	lew custo	m conne	ecto
	Name				
₿.	App-4g Admin Kieran Evans	$^+$	${=}$	Ø	
₿	App-4g TestingScaaS George Simpkin	$^+$	\downarrow	Ø	
₿	App-4g dowevents Kieran Evans	$^+$	\downarrow	Ø	
₿	Blockchain Business Cards George Simplin	+	$\underline{\downarrow}$	Ø	
₿	BusinessCards George Simpkin	+	${=}$	Ø	
₿.	BusinessCardsFlesinAttributes George Simpkin	+	\downarrow	Ø	
₿	BusinessCardrNolmage George Simplin	+	\downarrow	Ø	
₿	Container Arrived Connector George Simplin	to-	⊥ reate com	0 ection	
₿	MyBusinessCards	+	\downarrow	0	

Project nar	ne			
Autho	orize			
api would like	to perform actions o	n your behalf.		
	Allew		Deny	

sticky footer content here.

If a menu pops up press continue, then you should see an authorization screen, press allow.

III Power Apps					Environment SIMBAChain (default)	0 ©	? 🜀
=	+ New connecti	ion 🖙 Share 🔍 Switch account 📋 Delete 🕕 Details					
	9	file integrify test file integrify test	6 mo ago	Corrected			
₽ Apps + Create	€	george.simpkin@simbachain.com App-4g TestingScaaS	1 mo ago	Connected			
Entities	ŧ	george.simpkin@simbachain.com App:4g TestingScaaS	4 mo ago	Connected			
Option Sets	€	george.simpkin@simbachain.com App-4g TestingScaaS	1 mo ago	Corrected			
Dataflows Export to data lake	€	BusinessCards BusinessCards	1 mo ago	Connected			
Connections Custom Connectors	•	BusinessCardsFilesInAttributes BusinessCardsFilesInAttributes	1 mo ago	Connected			
Gateways	•	BusinessCardsFilesInAttributes BusinessCardsFilesInAttributes	1 mo ago	Connected			_
≪Ĝ Al Builder ∨	€	BusinessCardsNoImage BusinessCardsNoImage	1 mo ago	Connected			_
Solutions	8	george.simpkin@simbachain.com	 23 h ago	Connected			_
	•	Container Arrived Connector Container Arrived Connector	21 sec ago	Constant D			
	¢⊞ .	george.simpkin@simbachain.com Excel Online (Business)	1 wk ago	Can't signin. Far connection			_
		george.simpkin@simbachain.com Gmail	2 mo ago	Connected			
	€	MyBusinessCards MyBusinessCards	1 mo ago	Connected			
	2	RSS RSS	4 mo ago	Connected			
	•	test_e2e_002 test_e2e_002	4 d ago	Cart sign . Fix connection			_
	•	test_e2e_002 test_e2e_002	3 d ago	Connected			.
	¢	test_e2e_002 test_e2e_002	1 mo ago	Connected			

Now if you navigate to Connections via the left hand side drawer, you should be able to find your connector, and it should say you are connected

USING THE CONNECTOR IN A FLOW

To use our new connector in a flow navigate to Flows in the drawer on the left hand side of the screen.

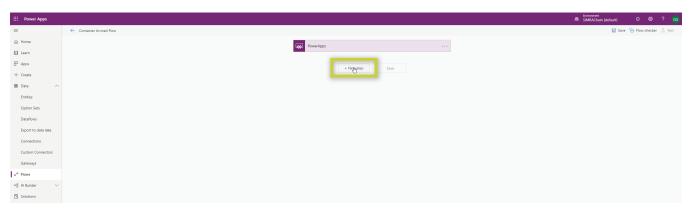


Then click on the new dropdown and select which type of flow you wish to use. For our example I will be using an Instant Flow, which is the most appropriate type for use from a Power App. If you wanted a more automated flow then choose Automated, and it will run in the background.

III Power Apps			
=	$+$ New \sim		
🔂 Home	2 Create from template		
Learn	process flows UI flows		
₽ Apps	+ Instant-from blank		
+ Create	+ Ul flow—from blank	Modified	Type
🖩 Data 🔷 🗠	+ Business process—from blank rd	1 mo ago	Instant
Entities			
Option Sets	2 Query Data Row	1 mo ago	Instant
Dataflows	Save Business Card File In Attributes	1 mo ago	Instant
Export to data lake			
Connections	Save Business Card with Image	1 mo ago	instant
Custom Connectors	Save Business Card	1 mo ago	Instant
Gateways		· · · · · ·	
o∕° Flows	Button -> Account Query transactions to this met	1 mo ago	Instant
≪Ĝ Al Builder ∨	Button -> Account Call the Account method type	1 mo ago	Instant
Solutions			



Once you've chosen you flow, name it via the text field and choose what trigger you want to use. For this example I will use a PowerApps trigger, which will allow us to trigger the flow from within a Power App.

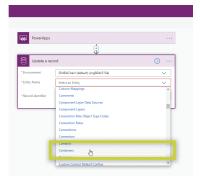


Now you should be on the PowerApps Flow creation page. To begin press the new step button.

Next choose your environment, here I've used our default organization environment.

Now choose the entity that you used to create the contract, I used my custom Containers component, so I chose that, you may have chosen a different one, that's fine.

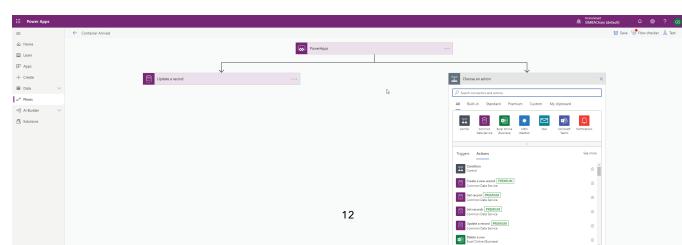


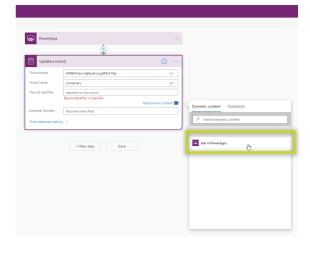


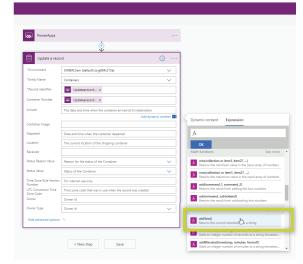
Now for the other fields, if you are going to trigger this flow from a PowerApp, then click on the field, and select Ask From Power Apps from the dynamic content.

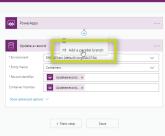
Here we have a datetime field, so I am using a utcNow() expression from the expression tab.

Next we need to add our contract. Since we have a timestamp in this example, I am going to run this flow sequentially, in order to ensure the timestamp is consistent both on the blockchain and in the entity record. It is also possible to run the two operations in parallel, choose whichever you think suits your needs. To run one in parallel simply click the + sign above the step you just created, "Update a record" in my case, and then click "Add a parallel branch".









SIMBA

PowerApps		
	\downarrow	
Update a reco	rd	
* Environment	SIMBAChain (default) (org804c315a)	\sim
* Entity Name	Containers	\sim
*Record identifier	Updatearecord ×	
Container Number	Updatearecord x	
Arrived	fr utcNow() ×	
Container Image		
Departed	Date and time when the container departed	
Location	Go Updatearecord x	
Received		
Status Reason Value	Reason for the status of the Container	\sim
Status Value	Status of the Container	\sim
Time Zone Rule Version Number	For internal use only.	
UTC Conversion Time Zone Code	Time zone code that was in use when the record was created.	
Owner	Owner Id	
Owner Type	Owner Id	\sim
Hide advanced options	^	
_		



Click the new step button.

Navigate to the Custom tab and find your newly created custom connector, here ours is called *Container Arrived*

Update a record Update a record Container Arrived Connector Container Arrived Connector Container Arrived Connector Container Arrived Connector Container Arrived Contenter Container Container Container Container Container	
Centra connection and actions Toggens Actions Connection Annuel Connection Connection Annuel Connection	
Control connection and actions Control control control Control control control Control control control	
Triggers Actions Contact_antwed container Contarner Arrived Connector	
Contract_arrived_container Container Arrived Connector	
Container Arrived Connector	
Contract_arrived_container_crb8f_Container	G
	G
Container Arrived container_crbt Container	G
Container Arrived Connector	đ
validate_arrived_container_bundle_hash Container Arrived Connector	G
Don't see what you need?	

From the actions choose the second one named something similar to contract_arived_ container_crb8f_Container

PowerApps		
	(
Update a recor	d	0 ·
* Environment	SIMBAChain (default) (org804c315a)	~
* Entity Name	Containers	~
Record identifier	Updatearecord ×	
Container Number	Updatearecord ×	
Arrived	/ utcNow() ×	
Container Image		
Departed	Date and time when the container departed	
Location	Updatearecord ×	
Received		
Status Reason Value	Reason for the status of the Container	~
Status Value	Status of the Container	~
Time Zone Rule Version Number	For internal use only.	
UTC Conversion Time	Time zone code that was in use when the record was created.	
Zone Code Owner	Owner Id	
Owner Type	Owner Id	~
Hide advanced options	~	
	(+)	
contract arrive	d container crb8f Container	
*type	MethodCall	
crb8f_Container	crb8f Container	
crb8f_arrived	Arrived x	
crb8f.containernumber	Container Num ×	
	Location x	
crb8f location		

Repeat for all relevant fields. If running in a parallel branch, simply choose from the **Ask in Powerapps** dynamic content you generated earlier, e.g. *Updaterecord_containernumber*.

Entity Name	Containers V	
lecord identifier	Updatearecord x	
ntainer Number	Updatearecord ×	
rived	fe utcNow() ×	
ntainer Image		
parted	Date and time when the container departed	
ation	Updatearecord x	
reived		
tus Reason Value	Reason for the status of the Container	
tus Value	Status of the Container	
ne Zone Rule Version mber	For internal use only.	
C Conversion Time ne Code	Time zone code that was in use when the record was created.	
iner	Owner Id	
ener Type	Owner Id 🗸 🗸	
ide advanced options		
contract arrive	(+) \V	
contract arrive	d container croßf Container	
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Leave the type field as **MethodCall**, an __crb8f_ Container can be left blank. For the remaining fields, choose from the dynamic content, here I've chosen the arrival field of the record I've updated.



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Once satisfied, press the save button in the top right, and exit the page via the arrow in the top left.

USING THE FLOW IN A POWER APP

To use the Flow in a Power App first navigate to the Power App within which you wish to trigger the flow.

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Once in your app, choose a component which you wish to use to trigger the flow, this will usually be a button of some description, here I'm using a button labeled "Arrive".

Next, navigate to Action and click on Power Automate.



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A menu will appear on the right hand side containing your available flows. Select the flow you wish to use and it will be bound to the button. Here I've chosen Container Arrived.

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Once it's finished loading, you should see an incomplete function has been loaded into the function bar *fx* which should be similar to **ContainerArrived.Run(**

Clicking in the function bar, a tooltip should appear telling you what data fields to include for each of the inputs. This is mapping to the **Ask in Powerapps** dynamic content from earlier.

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Fill out the function. An easy way to know what input is what is to look at the tree view on the left hand side and simply type the name of the respective input into the function in the correct place. In our example, **DataCardValue16** is the **Record Identifier**, **DataCardValue3** is the Container Number Input and **DataCardValue15** is the **Location** Input.

Now you're all set! Don't forget to save before you exit. If you want to test immediately, you can click the play button in the top right.





SIMBA Chain enables seamless utilization and integration of blockchain technology to bolster trust, security, and risk mitigation for enterprise and government