Serverless | Cosmos DB

Running and publish Azure Functions project with Cosmos DB

avanade

Prerequisites and more!

An *Azure subscription* (free account).

Main supported languages:

Language	Extension
C#	C# for VS Code
Java	Debugger for Java * + Maven 3+
Typescript	.Net Core 2.2 (preview)
Javascript	Node 8.0+

Create an Azure Cosmos DB

You must have an *Azure Cosmos DB* account that uses the *SQL API* before you create the output binding.

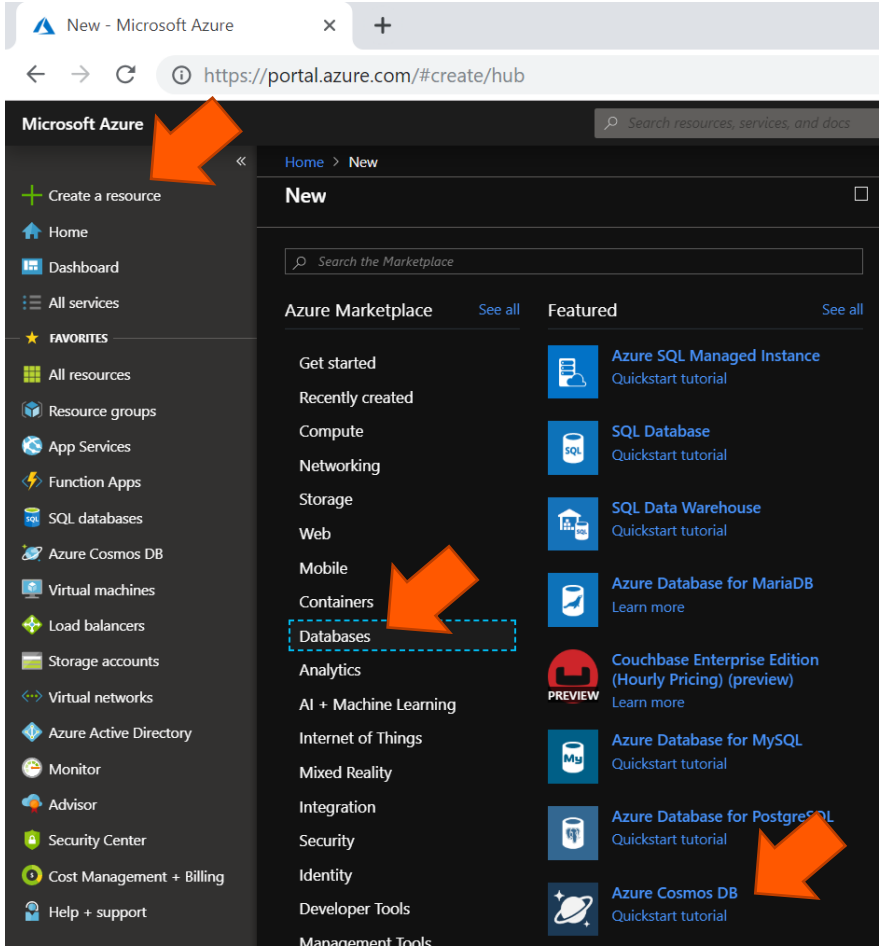
Sign in to the *Azure portal*.

Select:

> *Create a resource*

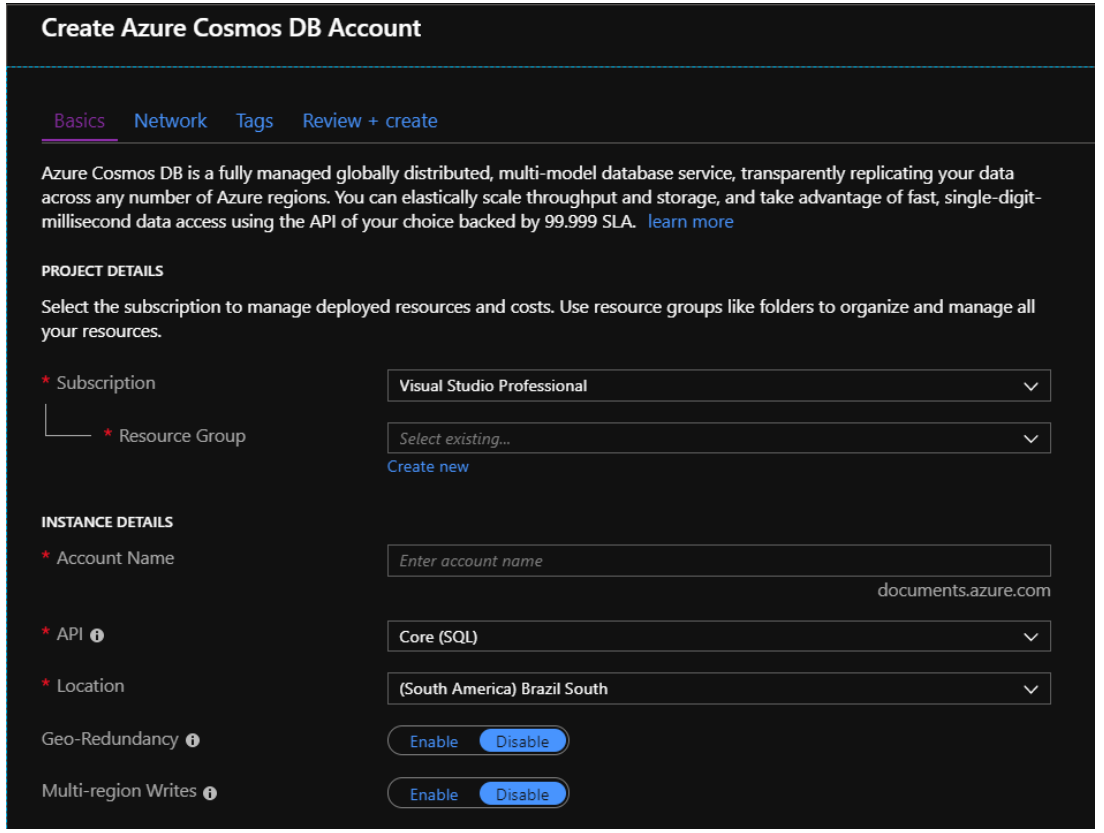
> *Databases*

> *Azure Cosmos DB*



Create an Azure Cosmos DB

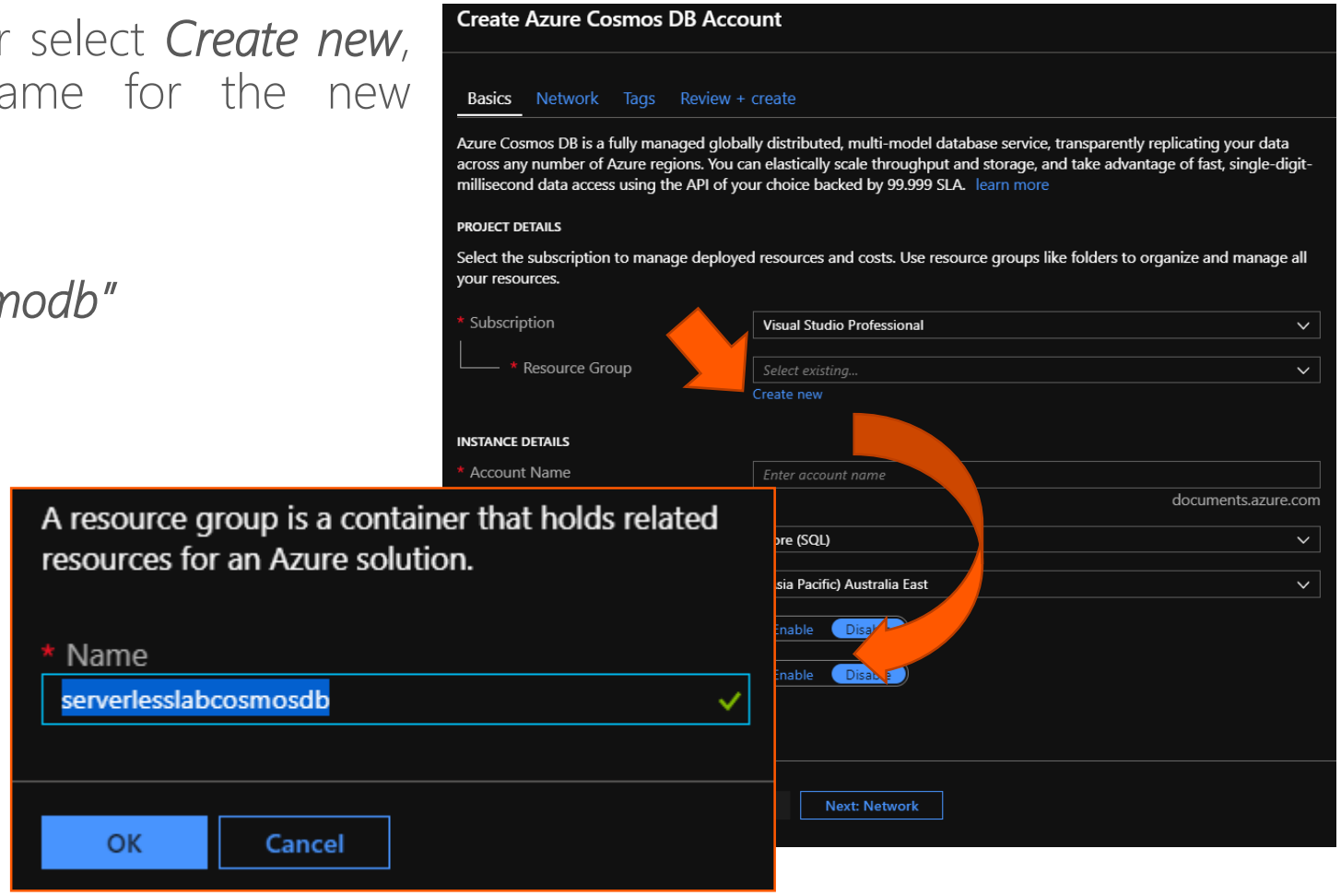
On the create *Azure Cosmos DB* page, enter the basic settings for the new *Azure Cosmos account*.



Create an Azure Cosmos DB

Select a *resource group*, or select *Create new*, then enter a unique name for the new resource group.

Fill using: *"serverlesslabcosmodb"*



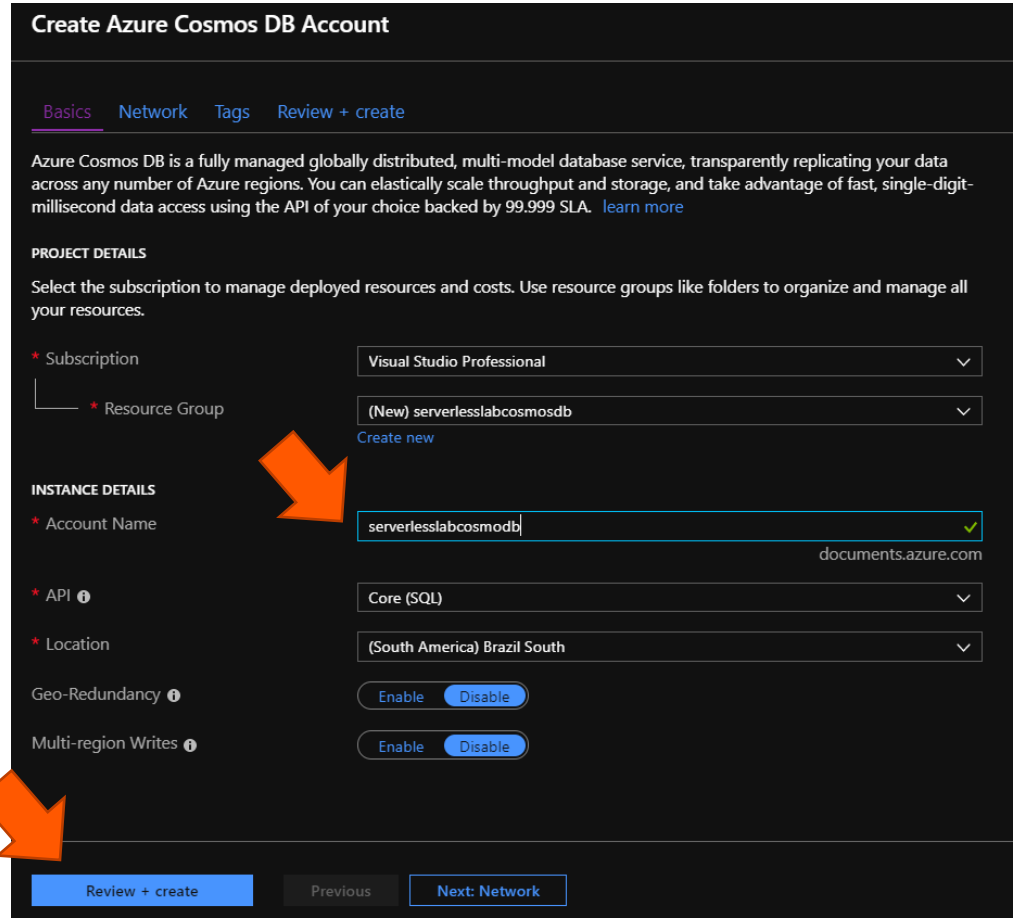
Create an Azure Cosmos DB

Enter a *name* to identify your *Azure Cosmos* account. (*Because documents.azure.com is appended to the ID that you provide to create your URI, use a unique ID.*)

Fill using: *"serverlesslabcosmodb"*

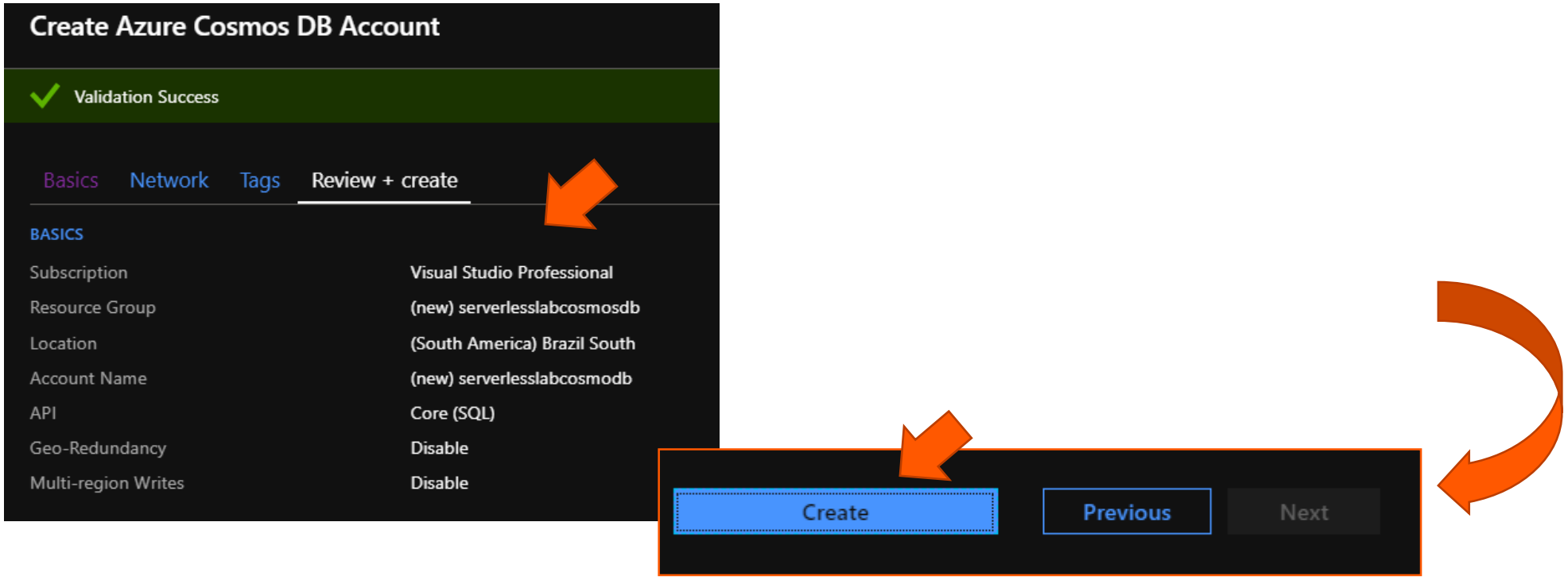
Select *Review + create*.

You can skip the *Network* and *Tags* sections.



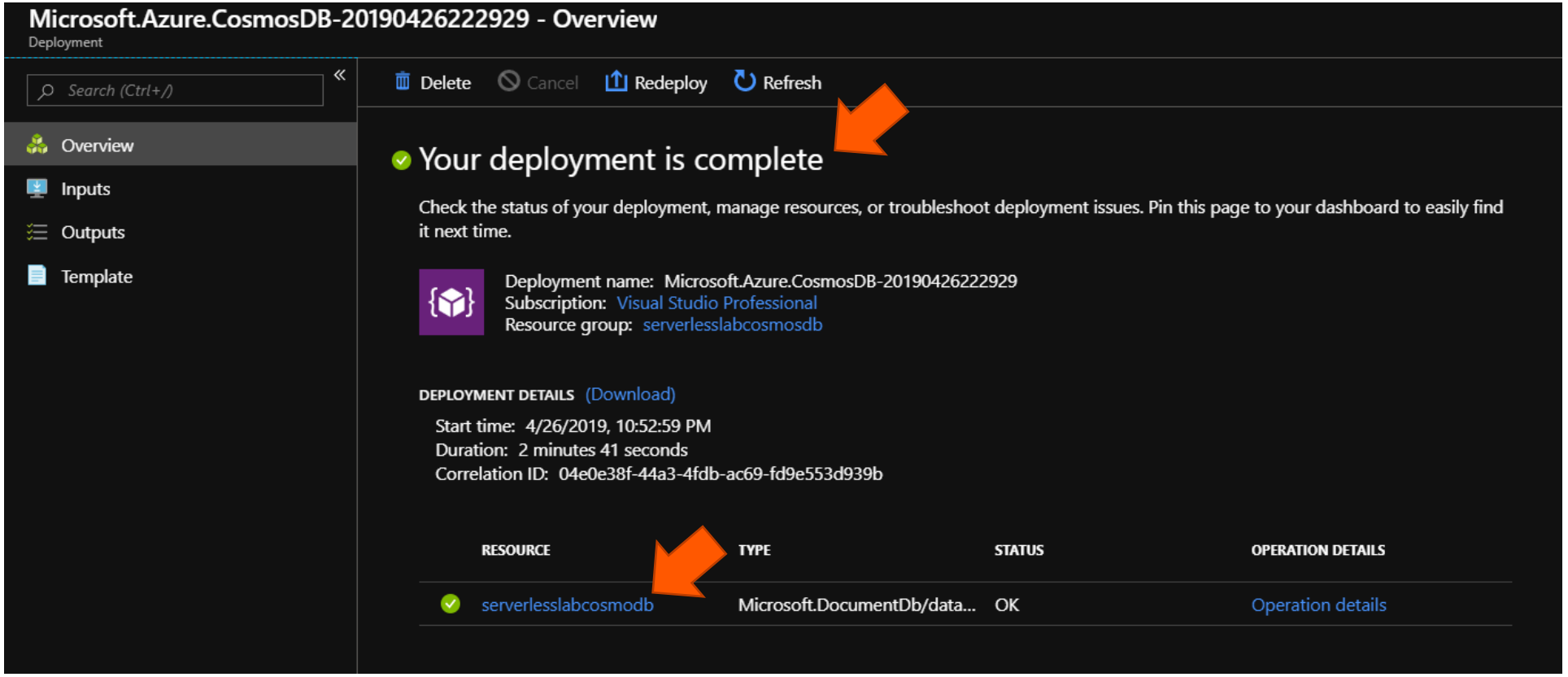
Create an Azure Cosmos DB

Review the account settings, and then click *Create* button. It takes a few minutes to create the account.



Create an Azure Cosmos DB

Wait for the portal page to display *your deployment is complete*. Check the resource's name.



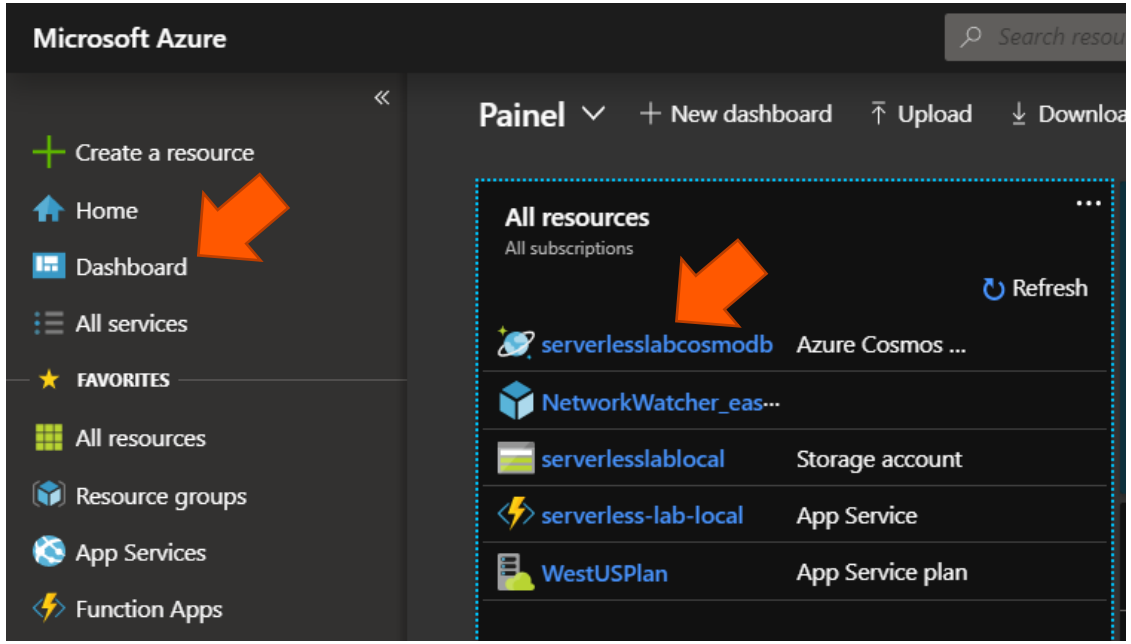
Access an Azure Cosmos DB resource

You must have to access *Dashboard* and find your *Azure Cosmos DB* resource.

Select:

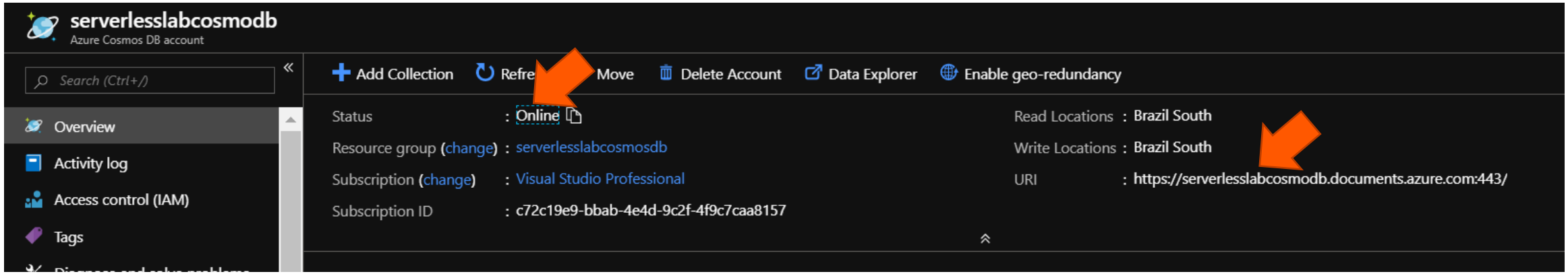
> *Dashboard*

> *serverlesslabcosmodb*



Access an Azure Cosmos DB resource

Some important informations to have external access (*application, AFs and etc.*) to your *Azure Cosmos DB*.



Create an Azure Function | App

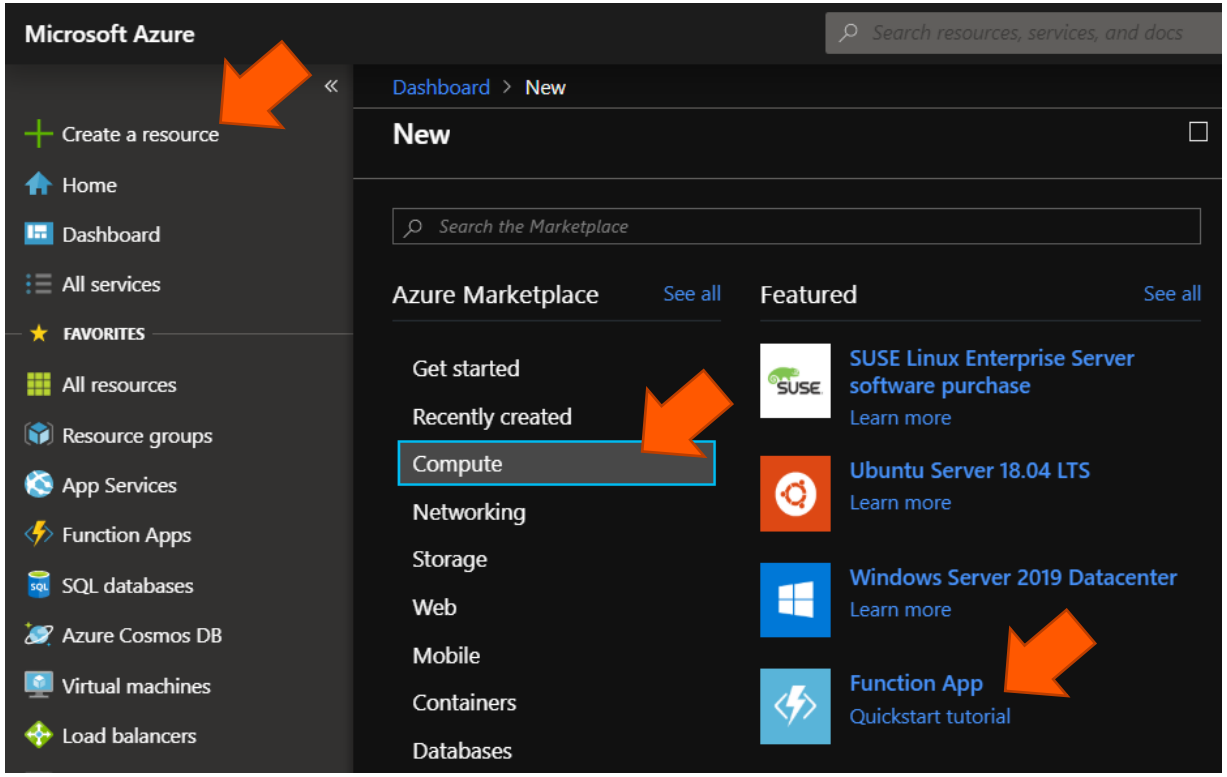
Select the *Create* a resource button found on the upper left-hand corner of the *Azure portal*.

Select:

> *Create a resource*

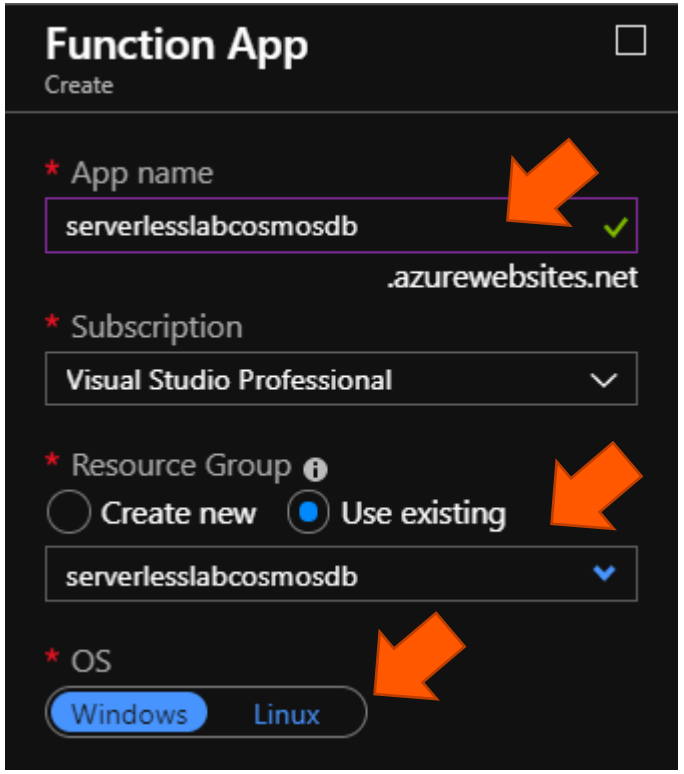
> *Compute*

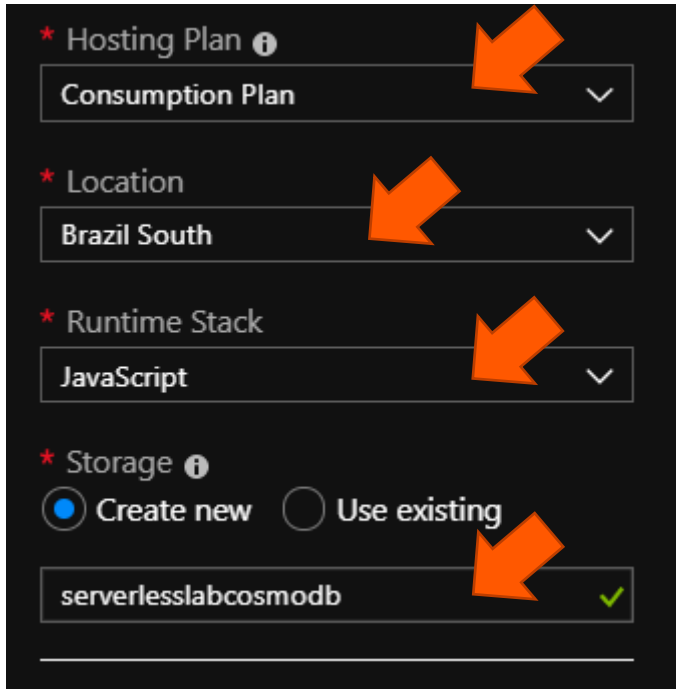
> *Function App*

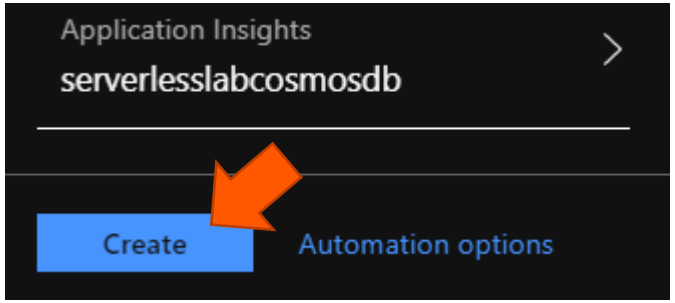


Create an Azure Function | App

Fill and review the *Azure Function* settings, and then click *Create* button.

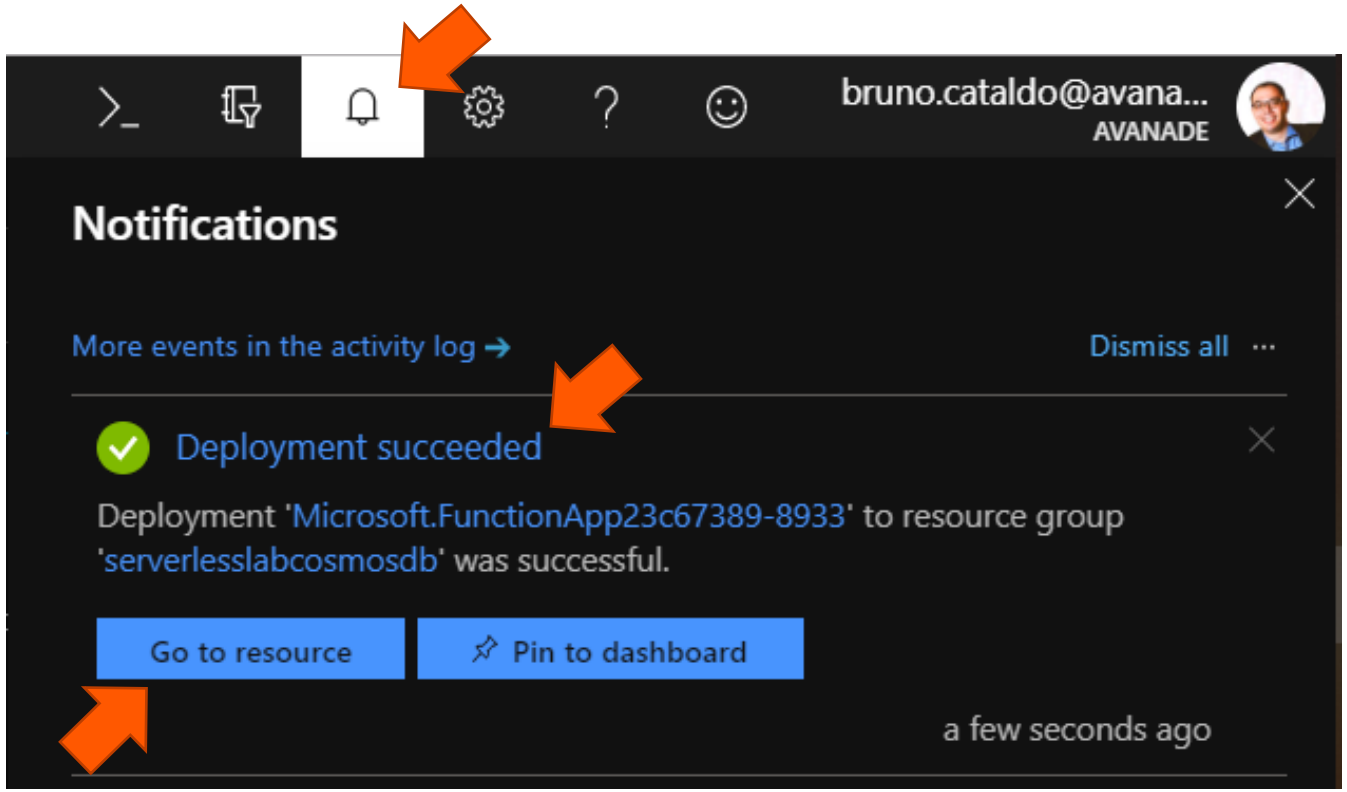






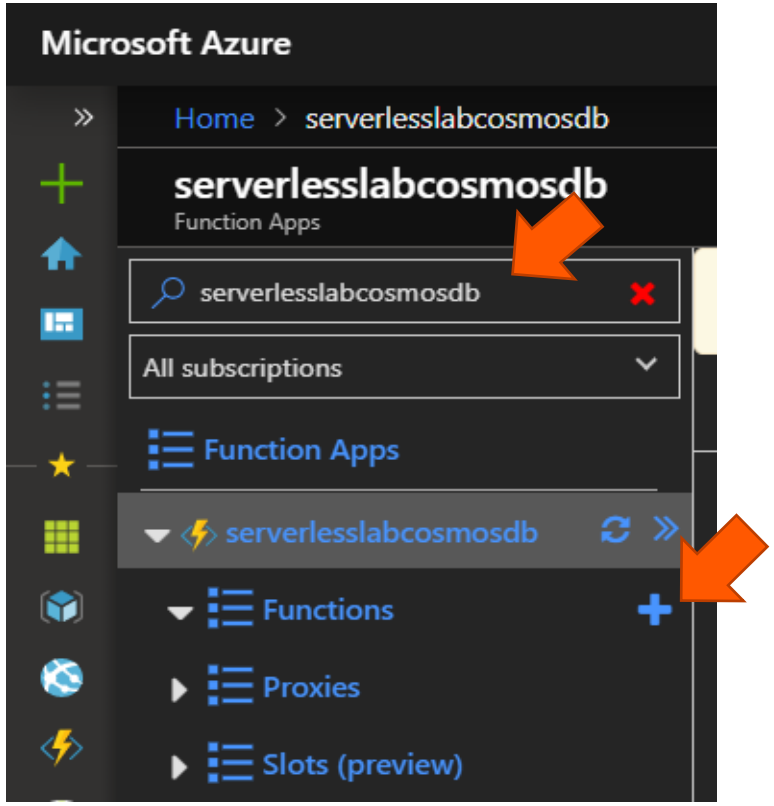
Create an Azure Function | App

Wait for the portal page notification to display *Deployment succeeded*. Click the *Go to resource* button.



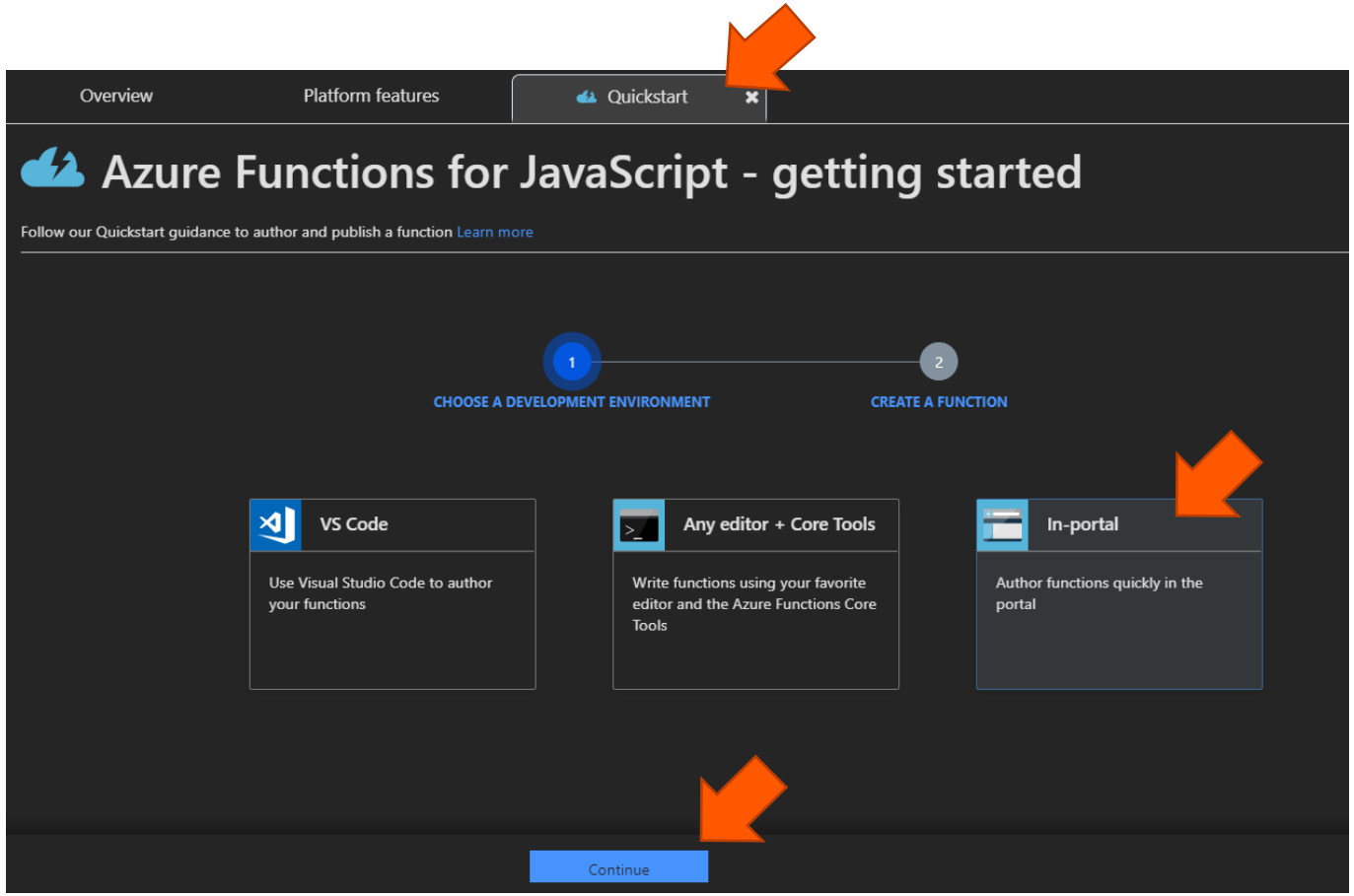
Create an Azure Function | Integrate

In the portal, navigate to the function app you created previously and expand both your function app and your function. After that click on the "+" button.



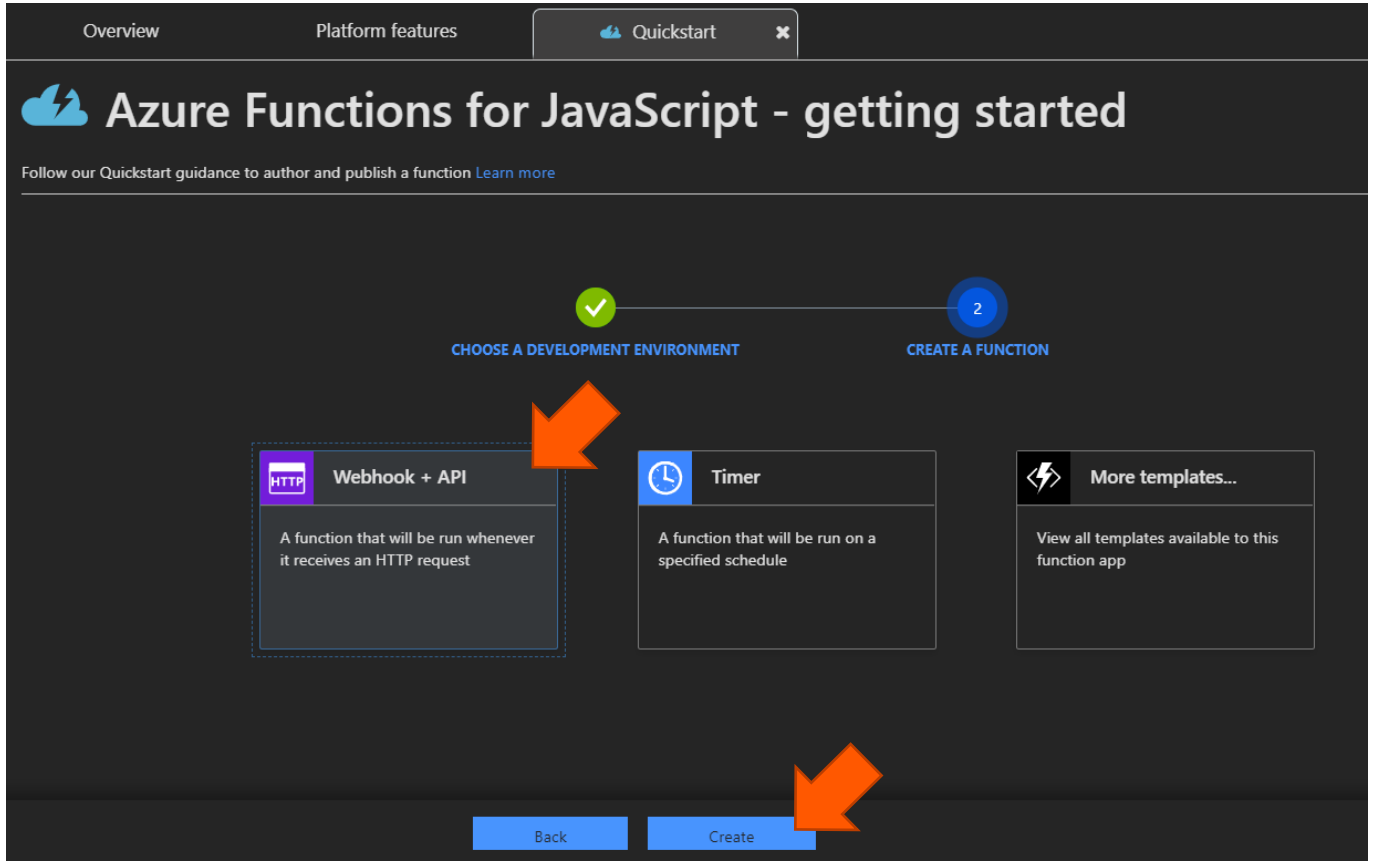
Create an Azure Function | Integrate

Click the *Quickstart* button, select the *In-portal* option and click *Continue* button.



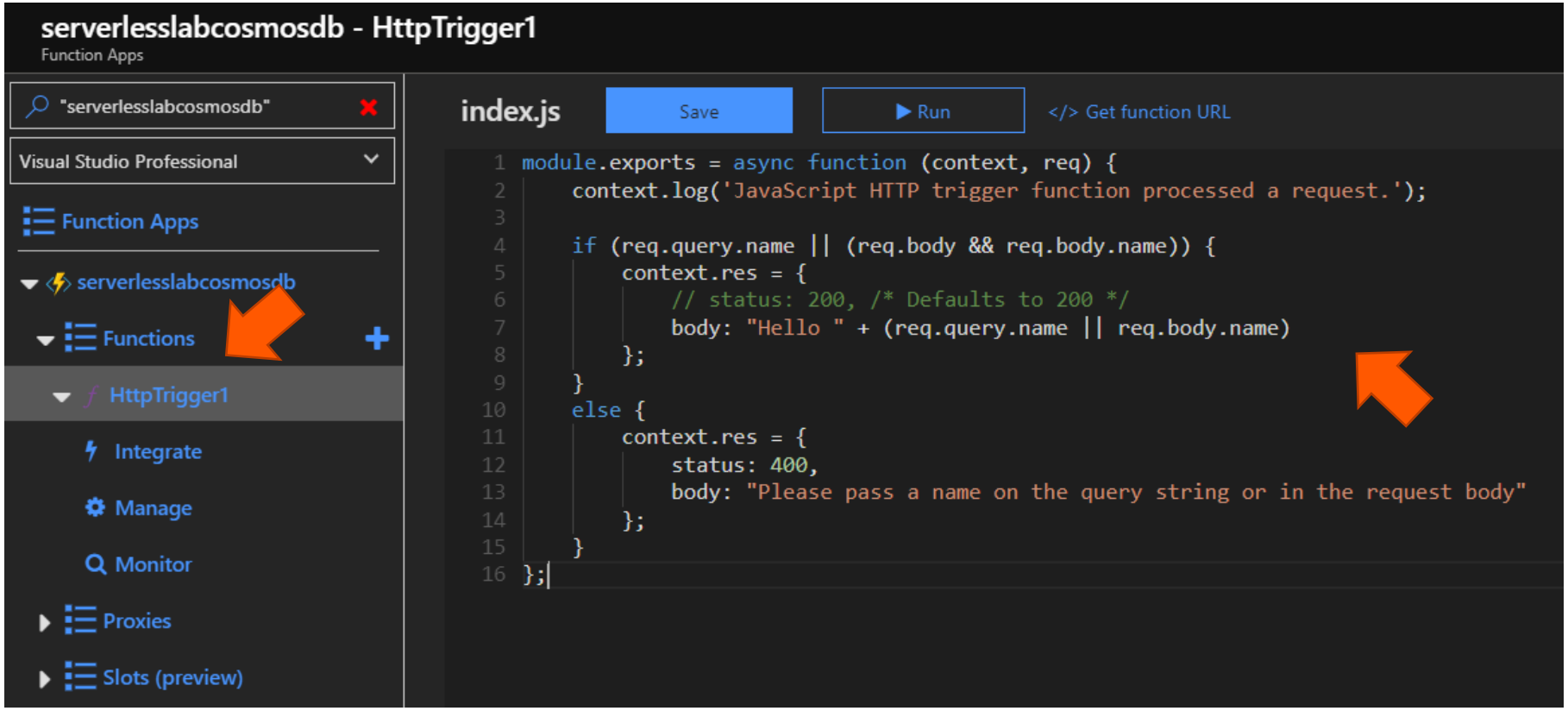
Create an Azure Function | Integrate

Select the *Webhook + API* option, click *Create* button and refresh the page.



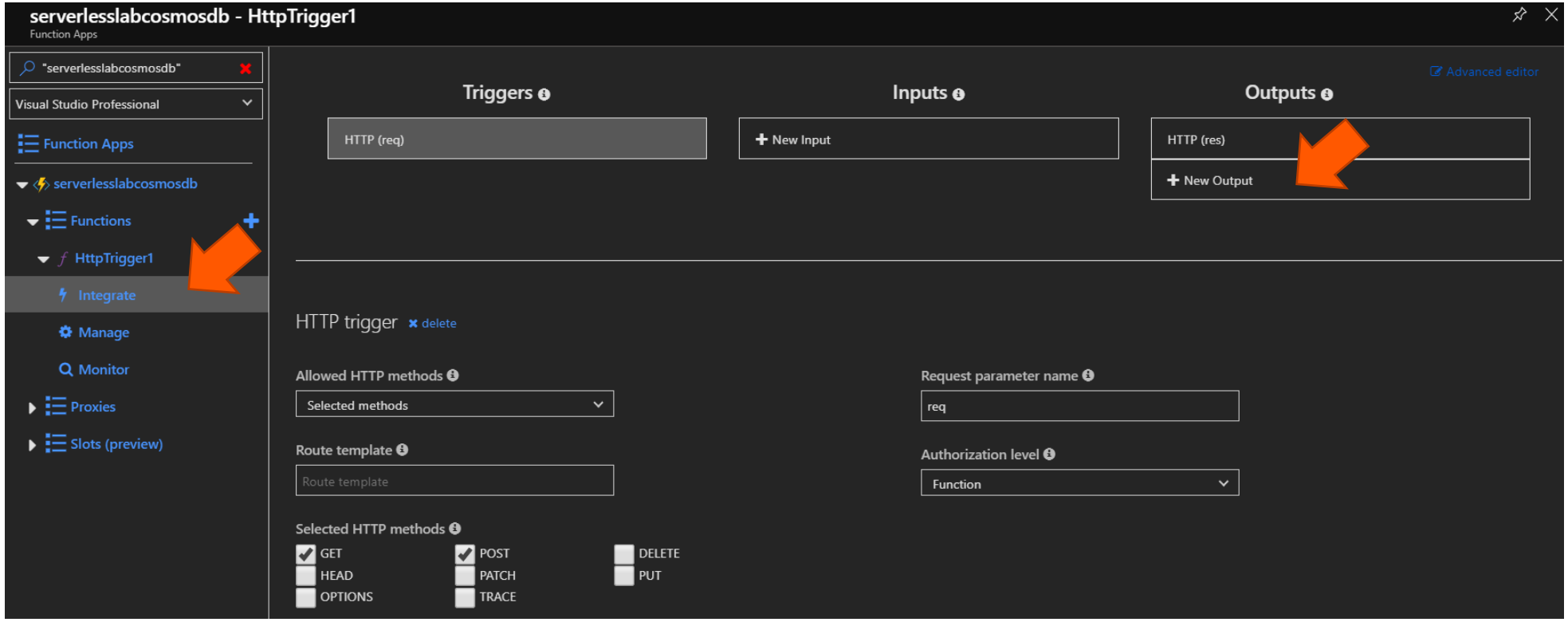
Create an Azure Function | Integrate

After page refresh select the *Function* option in the list and *HttpTrigger1* to view your *Azure Function* script.



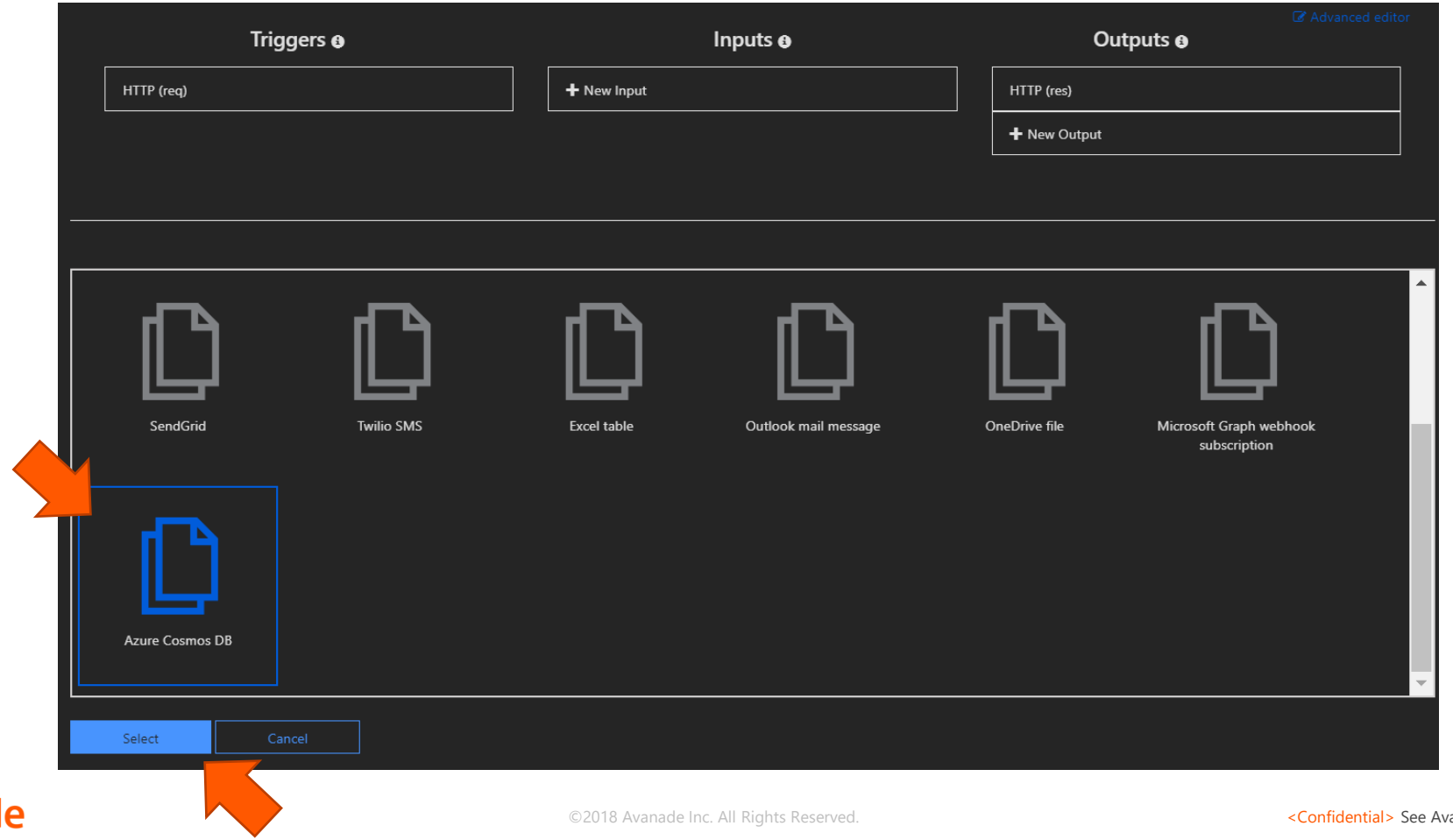
Create an Azure Function | Integrate

Select the *Integrate* item in the list to navigate to the next page. Click + *New Output* button.



Create an Azure Function | Integrate

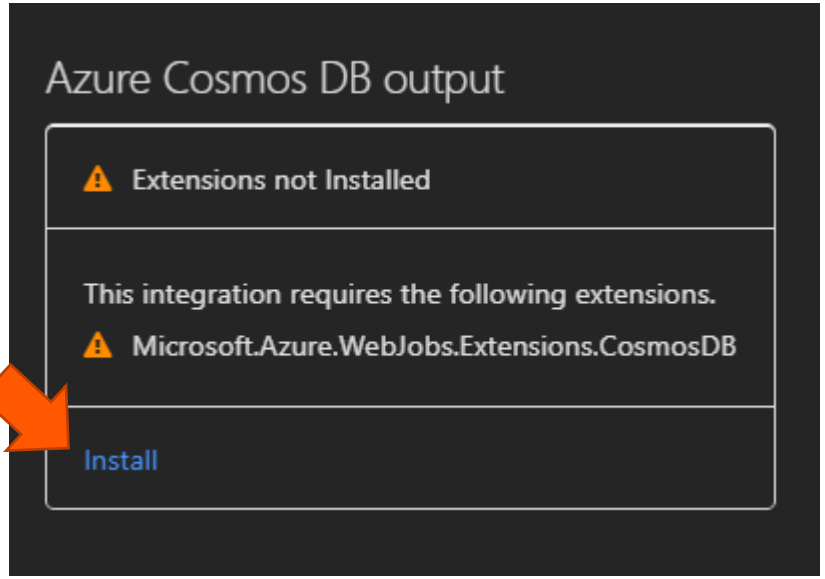
Select the *Azure Cosmo DB* item in the list and click *Select* button.

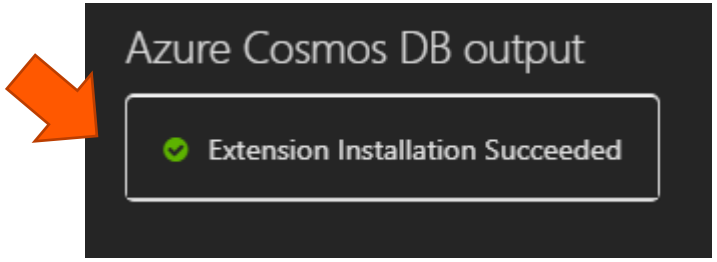


Create an Azure Function | Integrate

After reload page, scroll down page.

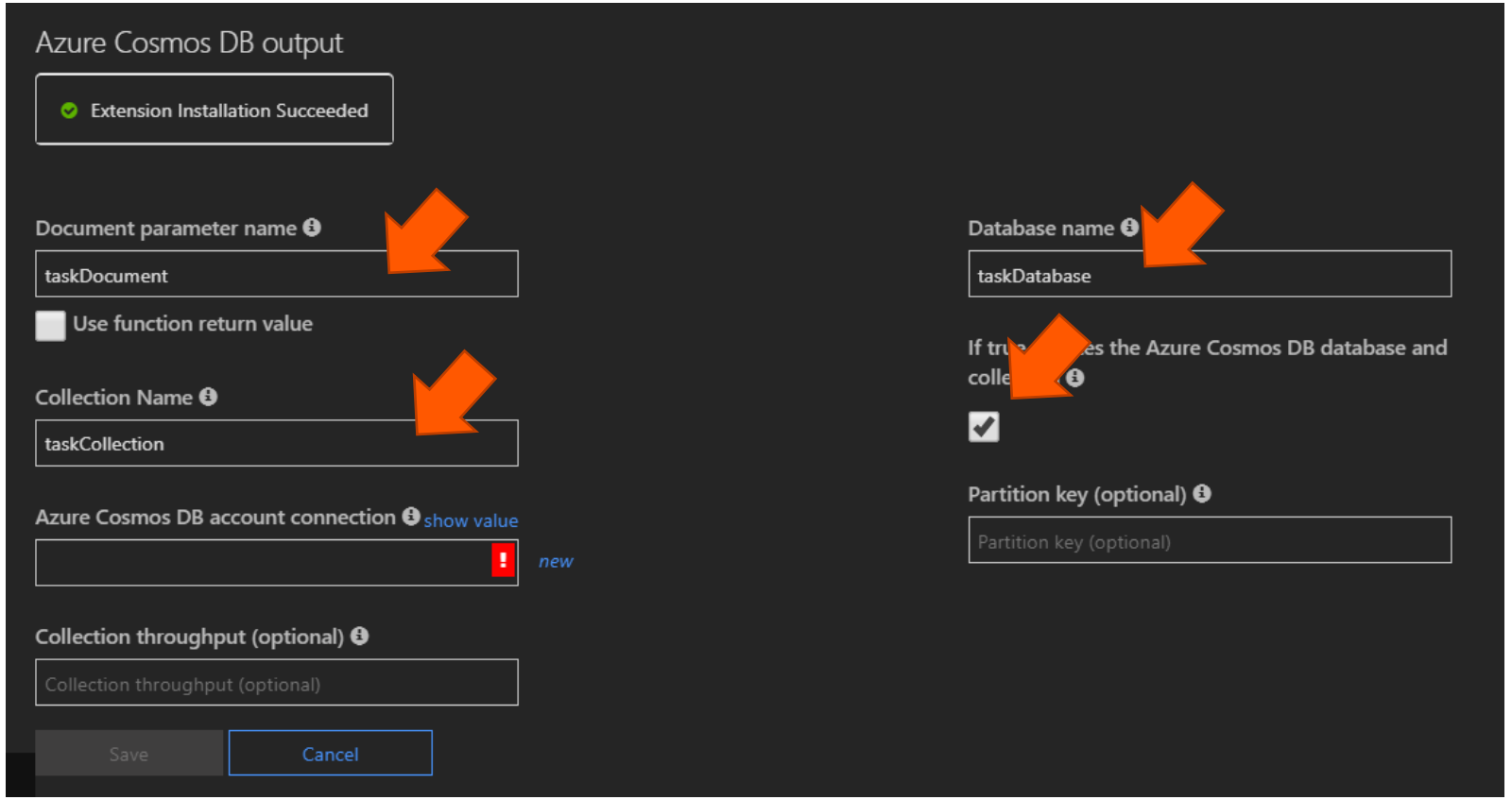
If you get an *Extensions* not installed message, choose Install to install the *Azure Cosmos DB* bindings extension in the function app. Installation may take a minute or two.





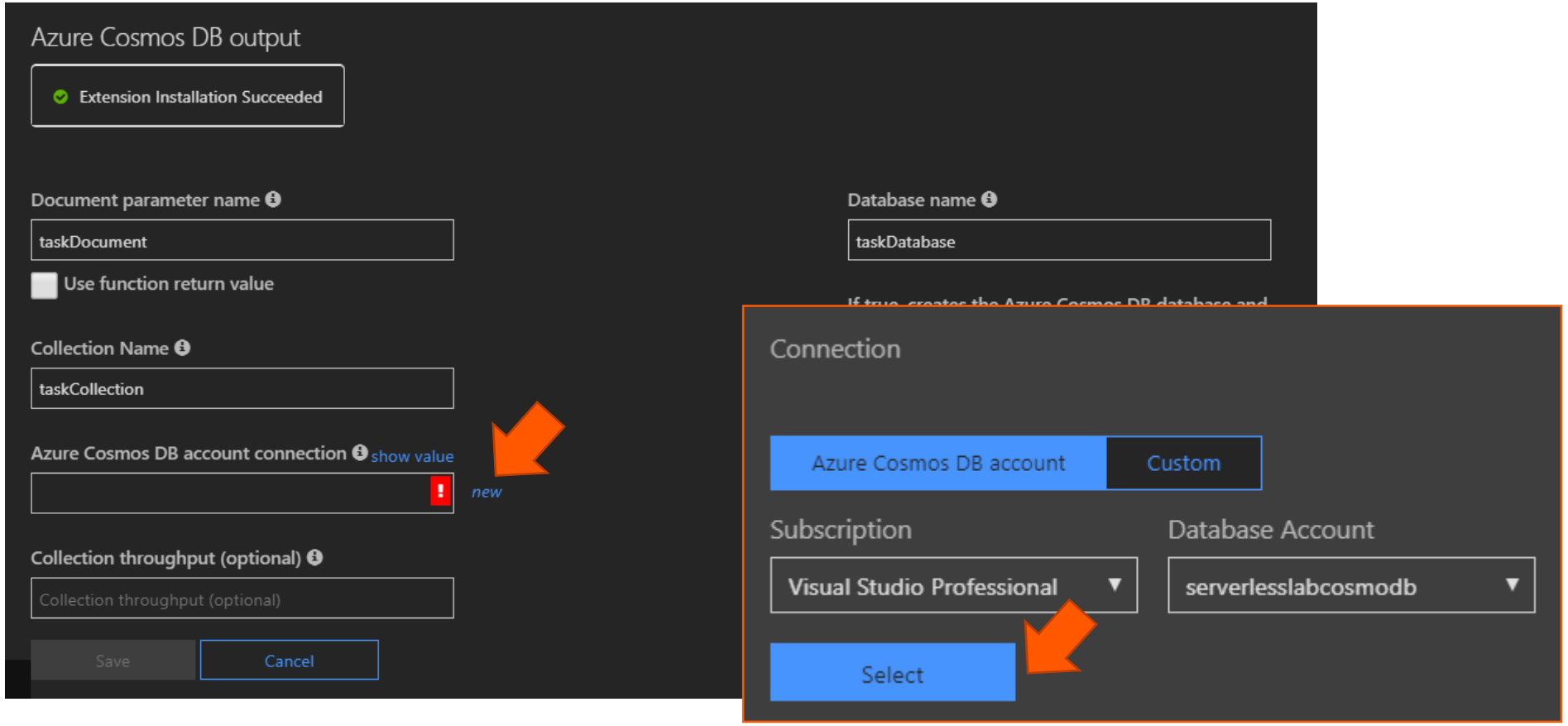
Create an Azure Function | Integrate

Use the *Azure Cosmos DB output settings* as specified in the table



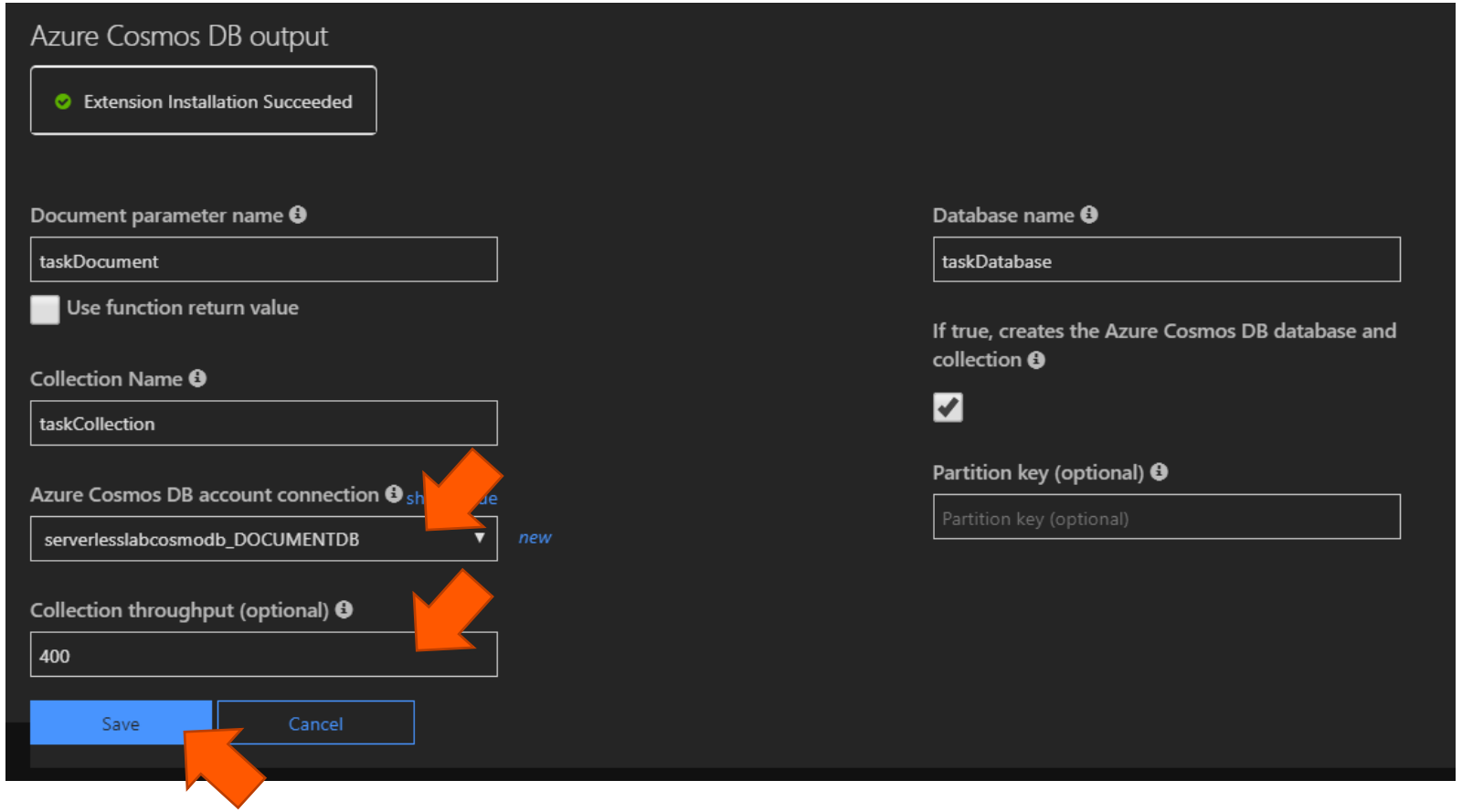
Create an Azure Function | Integrate

Select *New* to create an application setting for your account connection. Click *Select* button.



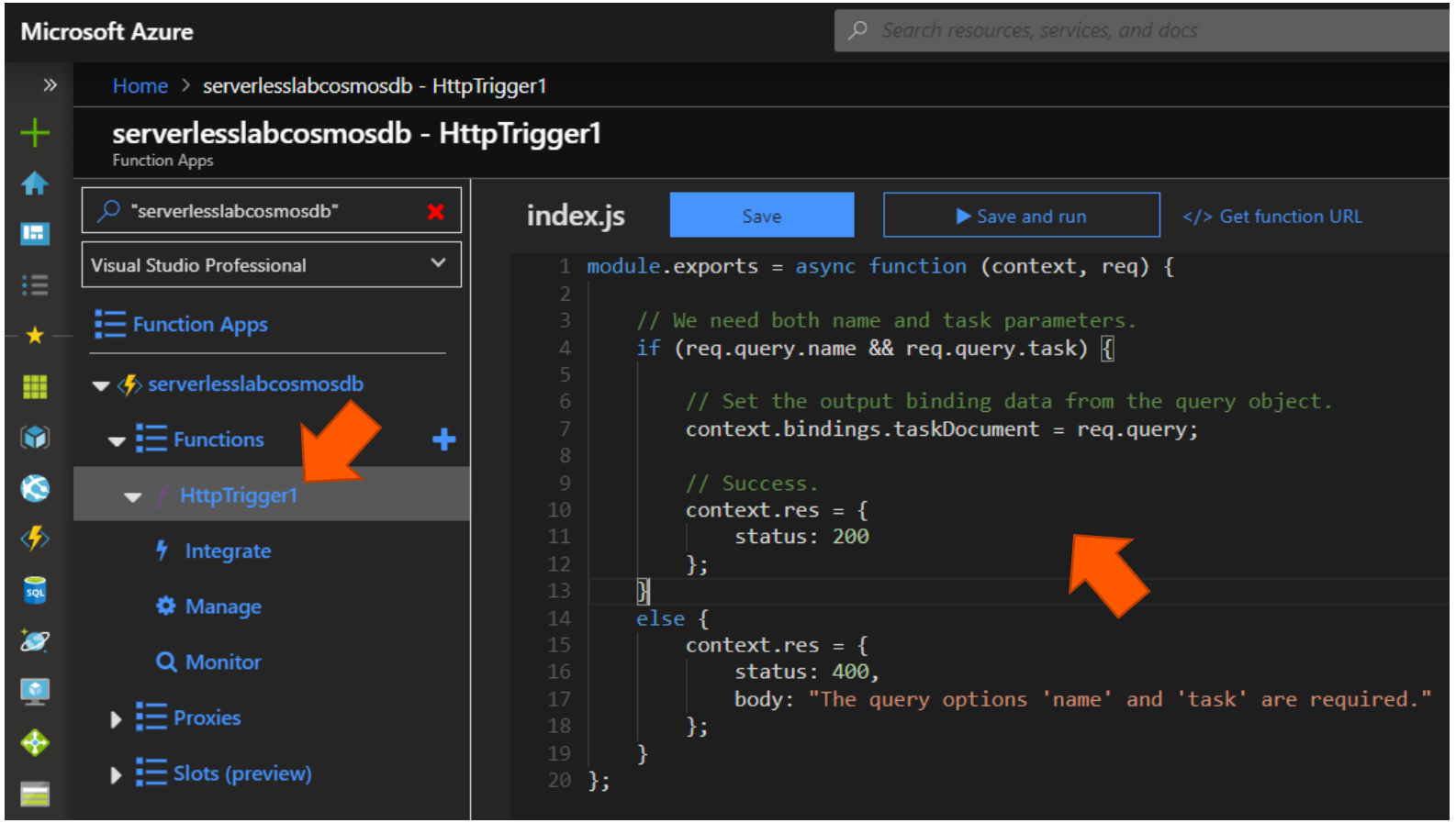
Create an Azure Function | Integrate

After all the configuration has been completed, click the *Save* button.



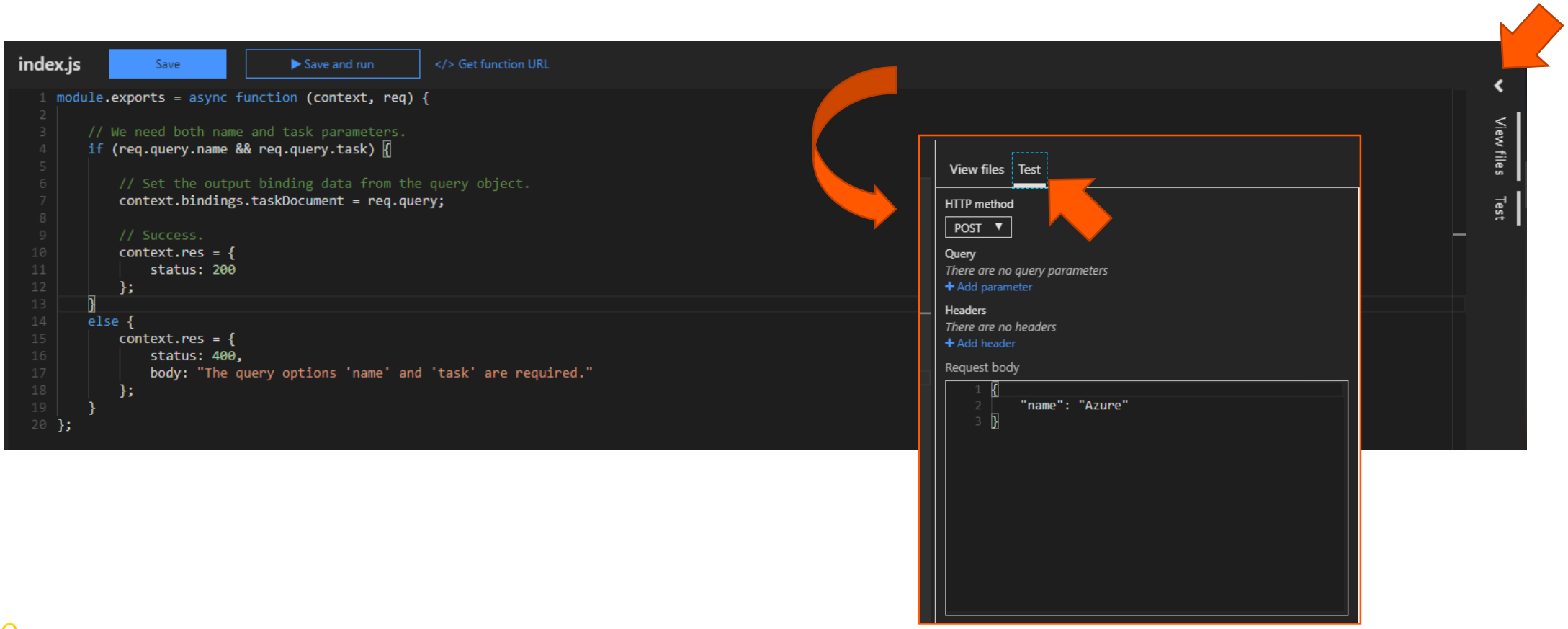
Create an Azure Function | Integrate

Click *HttpTrigger1* link and replace the existing *JavaScript* function with the following *code*:



Test an Azure Function | Integrate

Click on the *right* button to open the panel and click the *Test* tab to open the test panel:



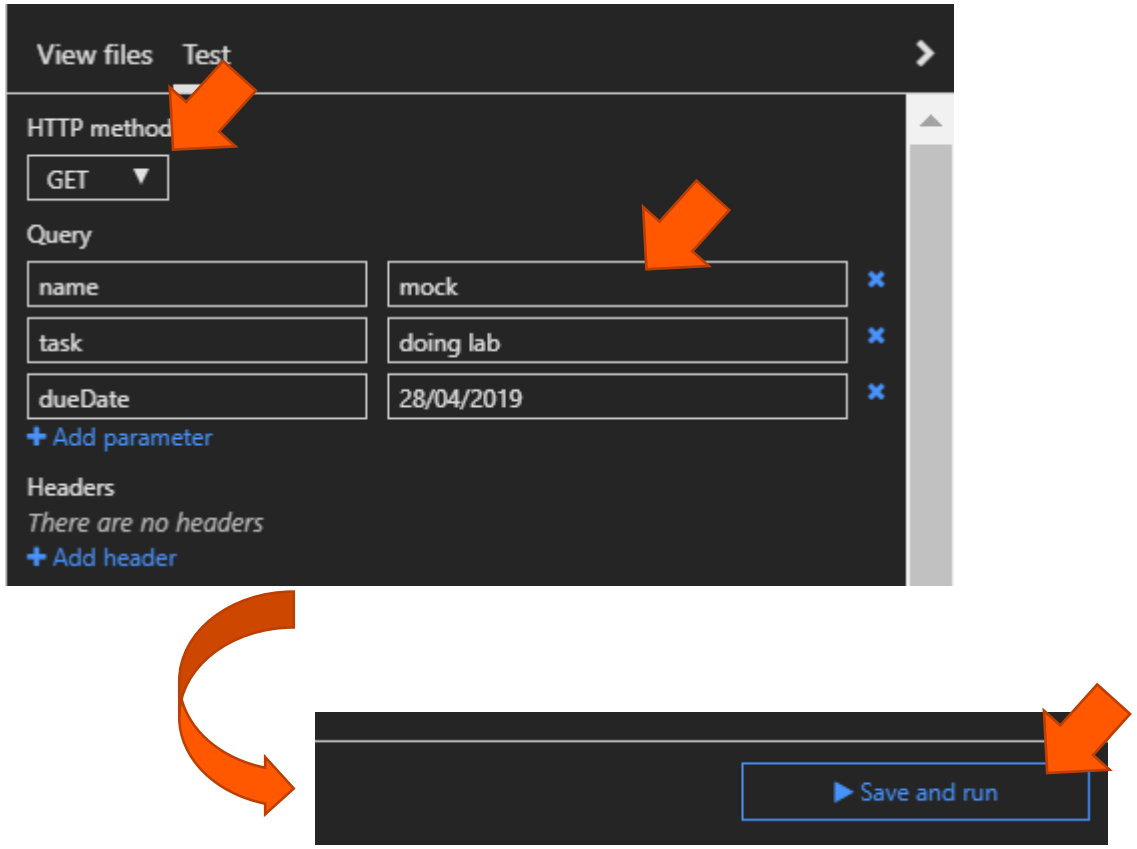
Test an Azure Function | Integrate

Select *HTTP method* with *GET* option.

Use the *Query fields* to fill the json request that going to be used to add an item and test.

Add 3 fields like image beside.

Click *Save and run* button.



* You can use a *Request body* to fill writing too.

Test an Azure Function | Integrate

Wait for the test page to display *Status: 200 OK* in the output console (right side). For more details check the *Logs* and *Console* panel.

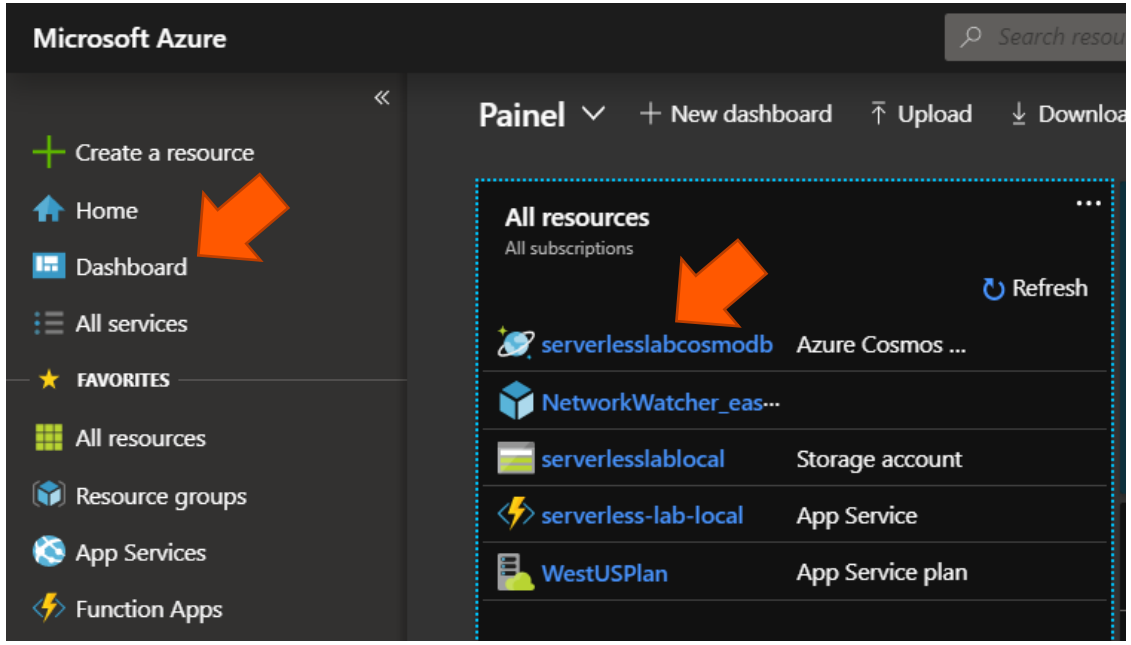
Check data on Azure Cosmos DB | Integrate

You must have to access *Dashboard* and find your *Azure Cosmos DB* resource.

Select:

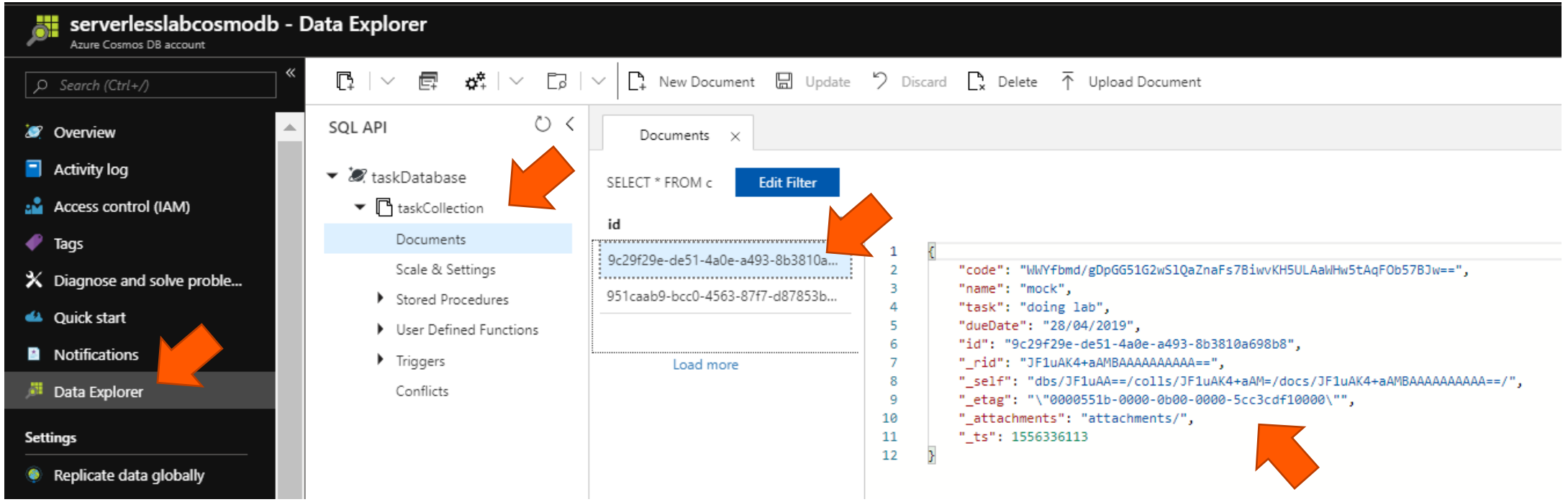
> *Dashboard*

> *serverlesslabcosmodb*



Check data on Azure Cosmos DB | Integrate

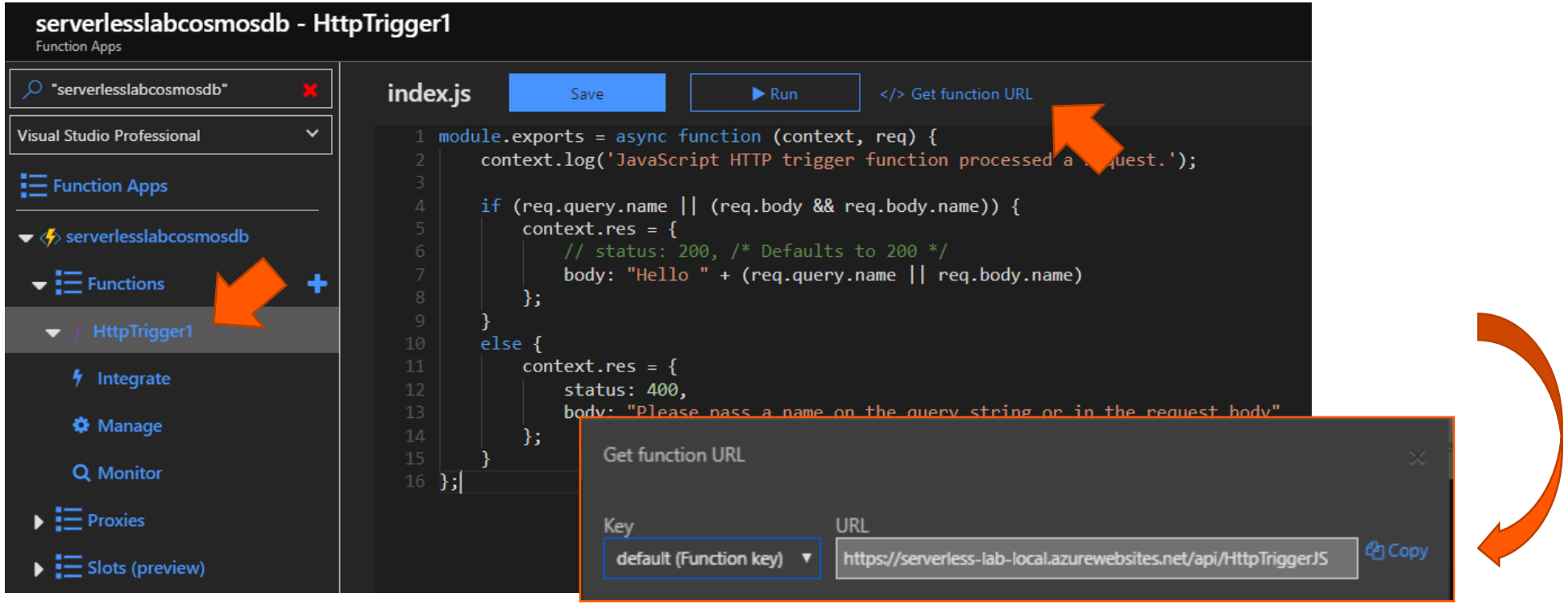
Select *Data Explorer* item, expand *taskDatabase*, expand *taskCollection*, click on *Documents* and *hash indetificator* like image. Check the data.



Test an Azure Function | Integrate + Browser

Click the "*</> Get function URL*" link like the image below.

Using the button to *copy* the URL.



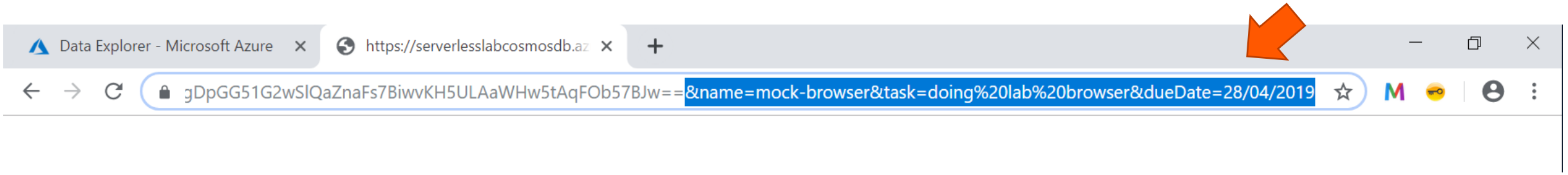
Test an Azure Function | Integrate + Browser

Paste the URL for the HTTP request into your browser's address bar. Append the query string in the end and execute the request.

&name=<yourname>

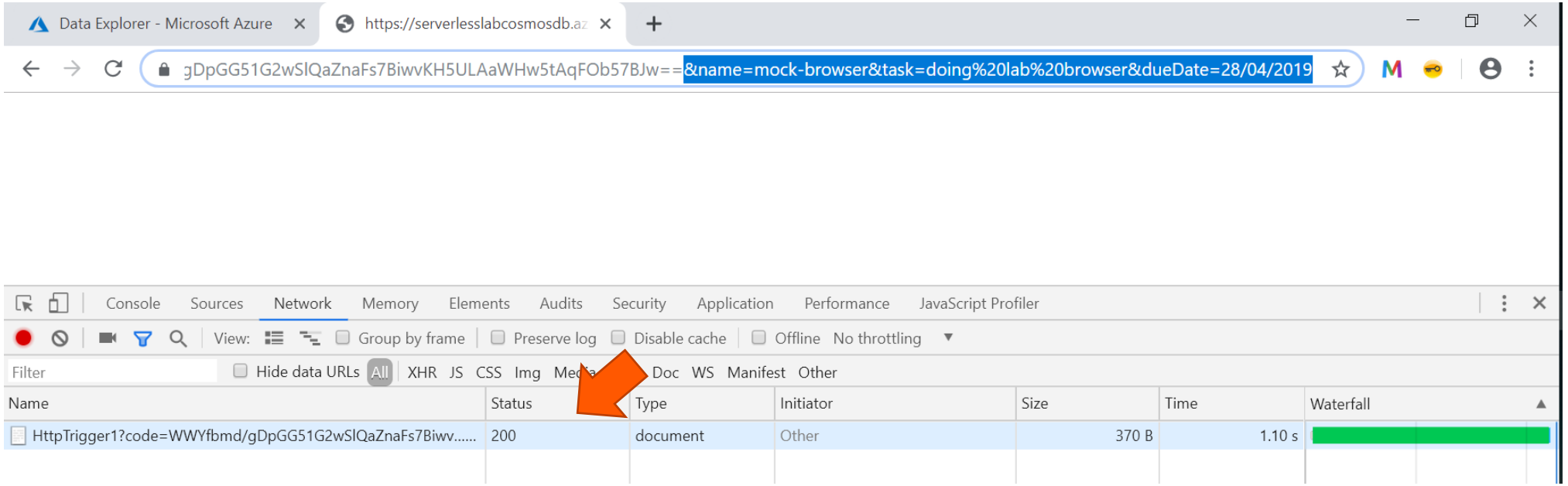
&task=<yourname>

&dueDate=<yourname>



Test an Azure Function | Integrate + Browser

The following shows the response *status 200* in the browser to the *GET* request using *F12* or *Network* console of your browser.



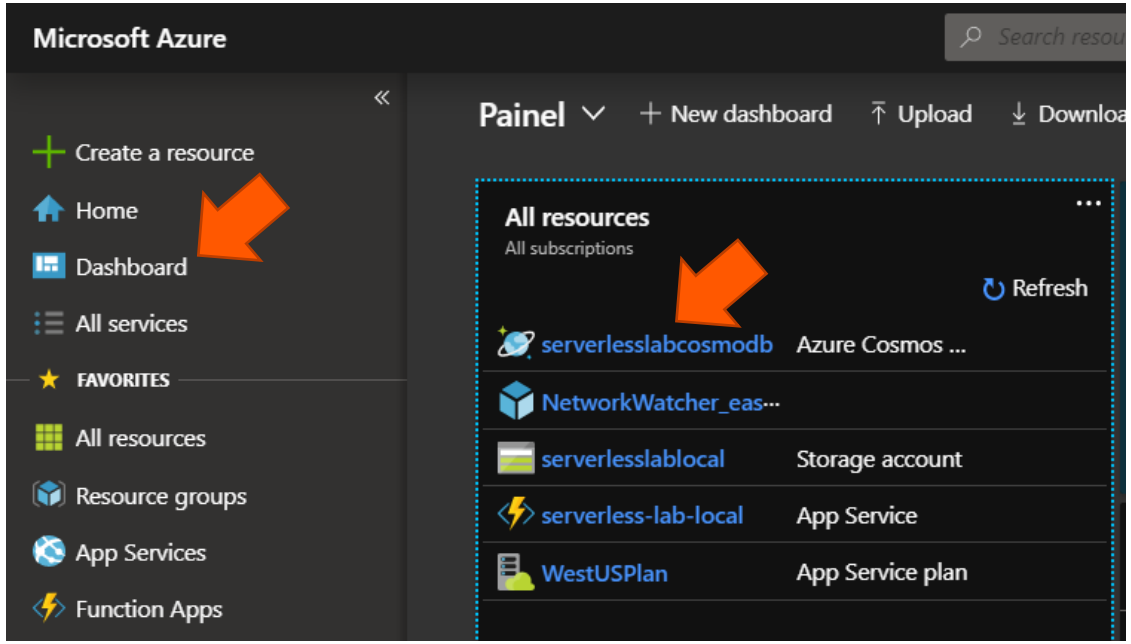
Check data on Azure Cosmos DB | Integrate

You must have to access *Dashboard* and find your *Azure Cosmos DB* resource.

Select:

> *Dashboard*

> *serverlesslabcosmodb*



Check data on Azure Cosmos DB | Integrate

Select *Data Explorer* item, expand *taskDatabase*, expand *taskCollection*, click on *Documents* and *hash indetificator* like image. Check the data.