Cognitive Services, Serverless Compute in Azure & 🖒 Azure Stack

In 30 minutes we are going to show you some rapid innovation on both Azure and Azure Stack -

Azure Functions

Serverless Computing

- Build out an Severless PaaS web application in Azure
 - https://azure.microsoft.com/en-us/services/functions/
- Deploy some open source code that uses Azure Al to analyse text and return a sentiment score
 - https://azure.microsoft.com/en-us/services/cognitive-services/
- Redeploy this exact some code to Azure Stack, showing you how interoperable the two environments are.

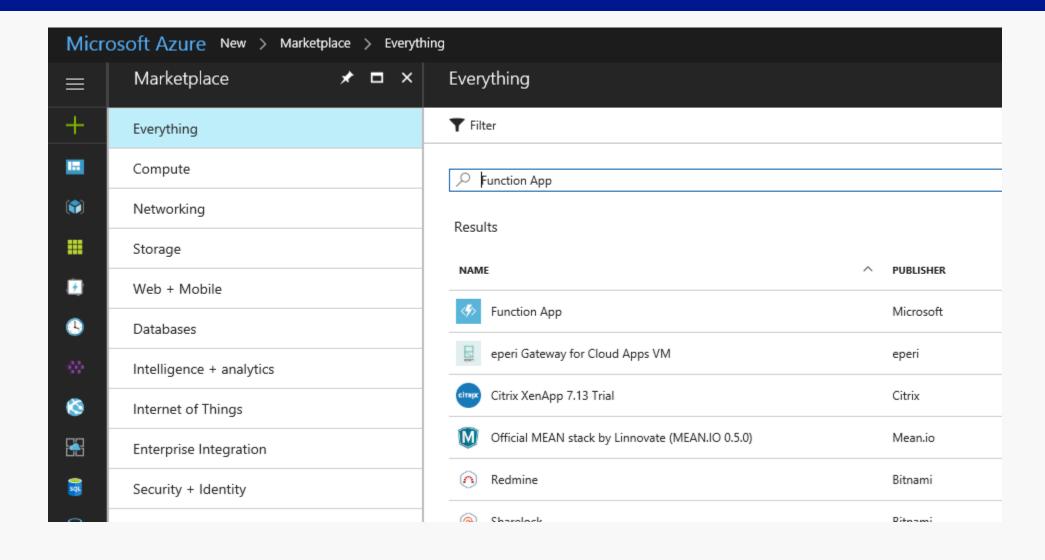
Al, Serverless Compute in Azure & Azure Stack



- Navigate to https://github.com/ben-houghton/summitcode

Create a Function App in Azure





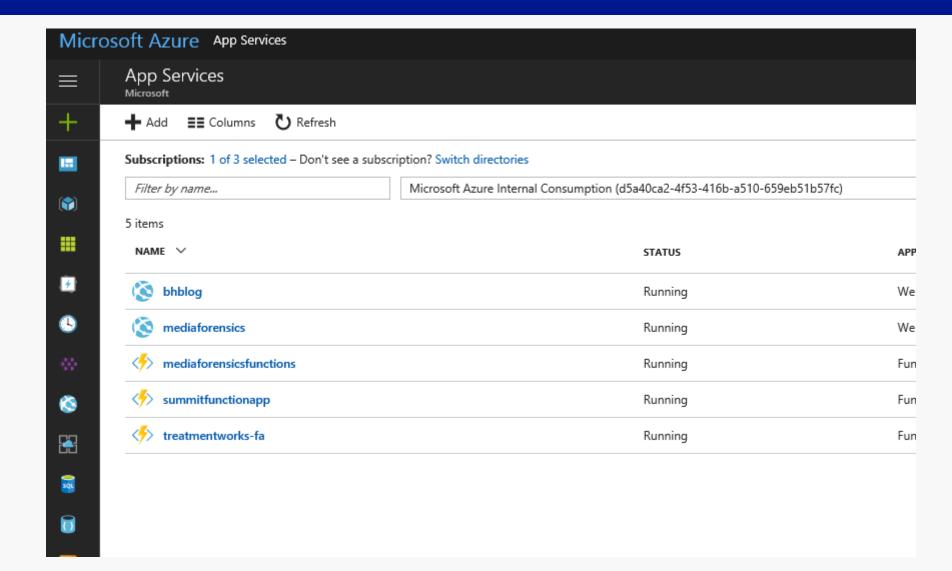
Provision your Function App in Azure



Microsoft Azure New > Marketplace > Everything > Function App > Function App				
≡	Function App Create			
+	* App name			
<u> </u>	mynamexyz ✓			
	* Subscription			
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	* Resource Group •			
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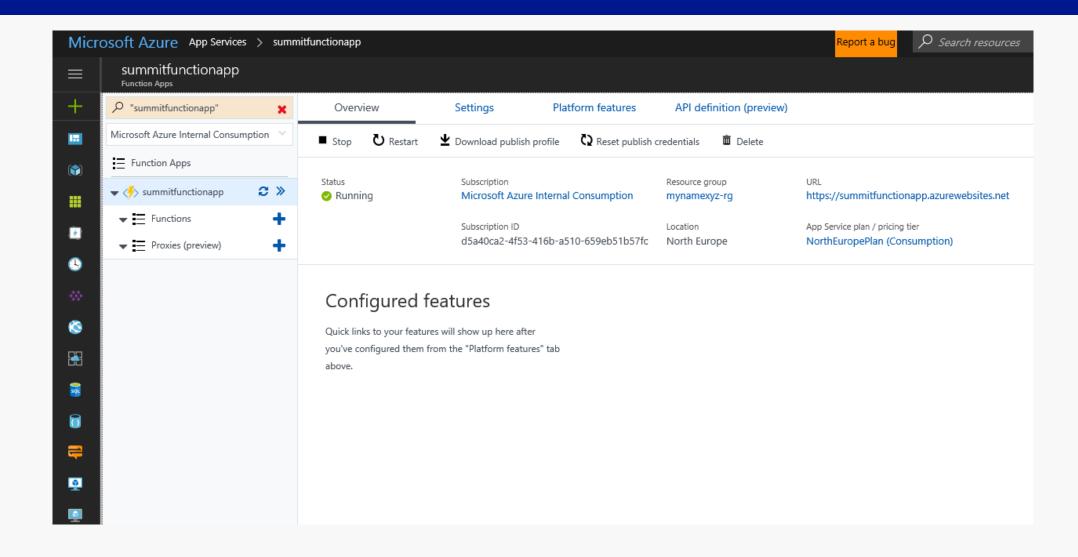
Navigate to your Function App in Azure





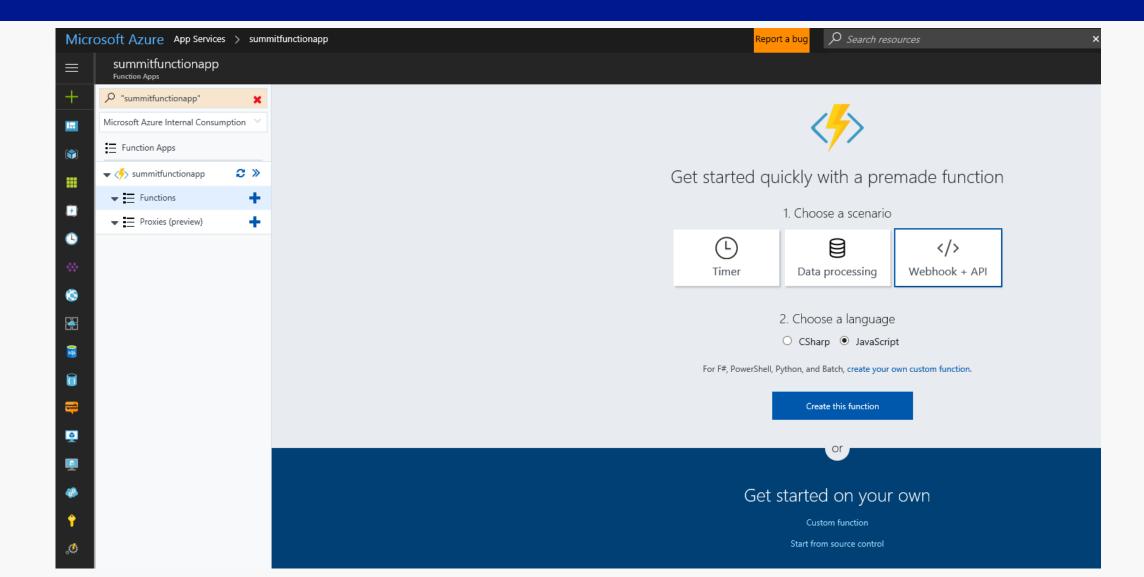
Set Up your Function App in Azure





Create your Function in Azure

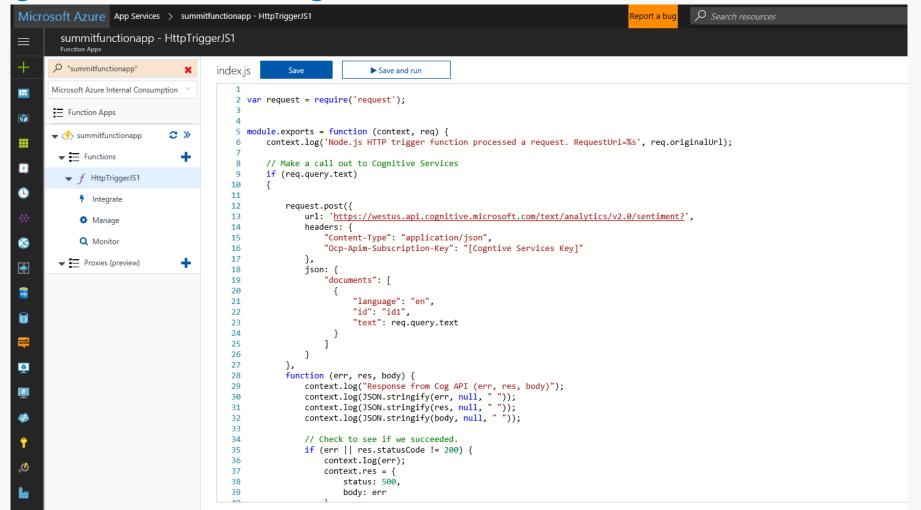




Add the Sentimentfunction.js Code



https://github.com/ben-houghton/summitcode

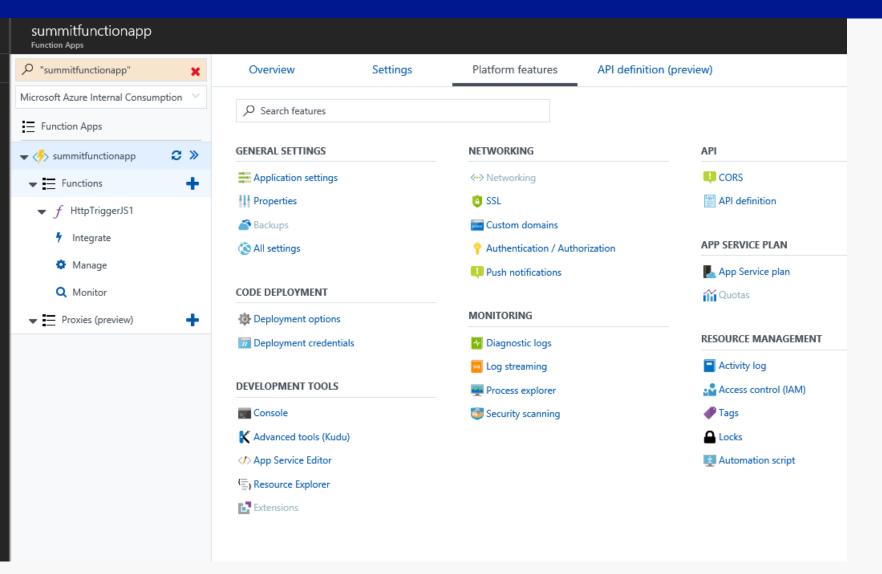


Add the Cognitive Services Subscription Key

https://github.com/ben-houghton/summitcode

Install the Node.js Request Package

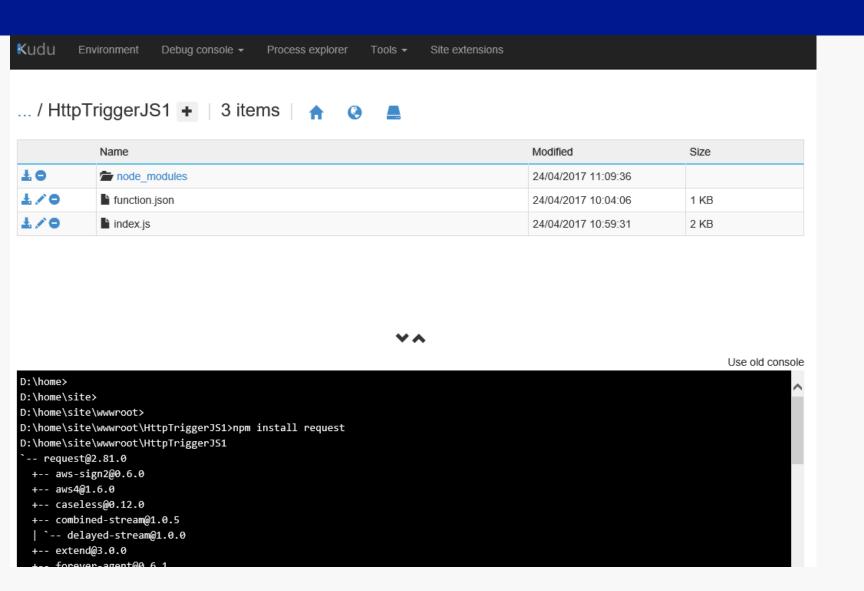




Click on Advanced Tools (Kudu)

Install the Node.js Request Package





Debug Console > CMD

Above the console click –

Site

Wwwroot

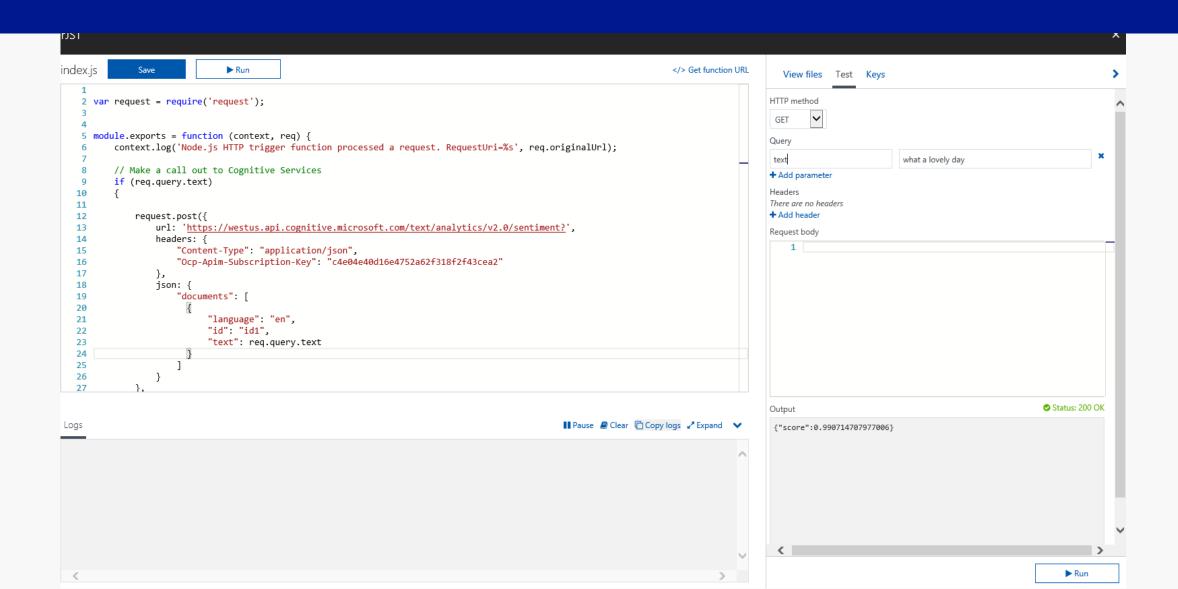
[The name of your function]

Type

npm install request

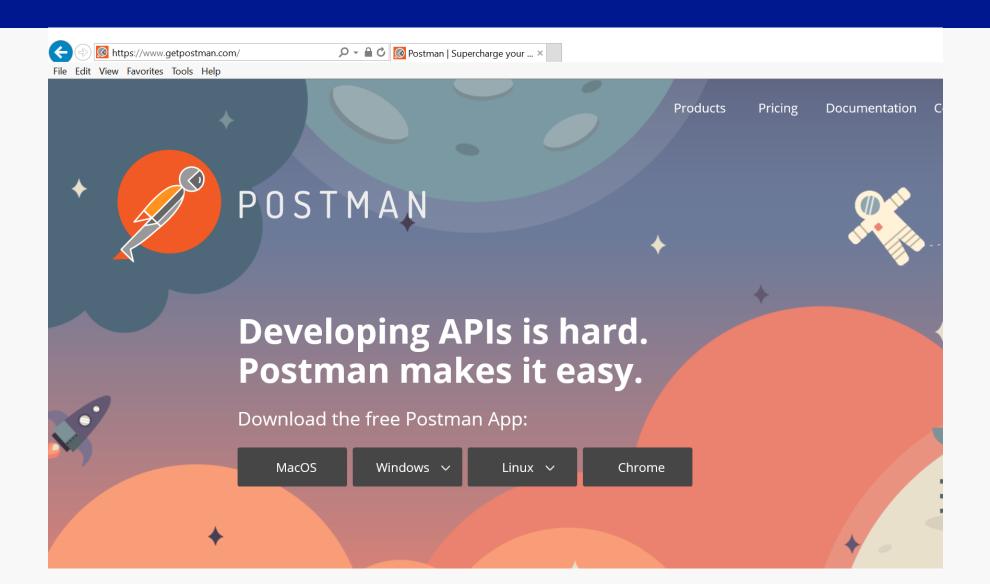
Test your Azure Function





Get Postman so we can make Requests

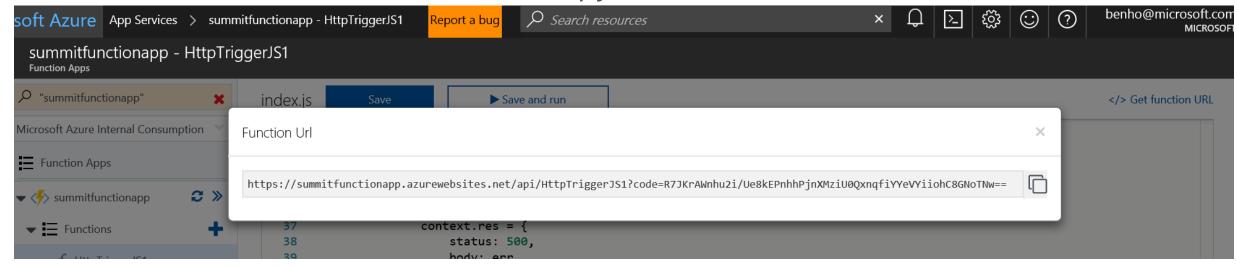




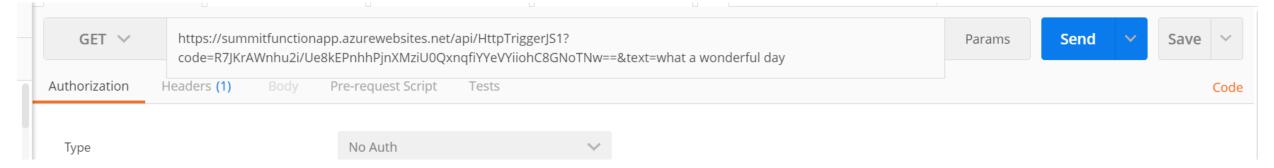
Get Your Function URL



Click on the Get Function URL link and copy the Function URL

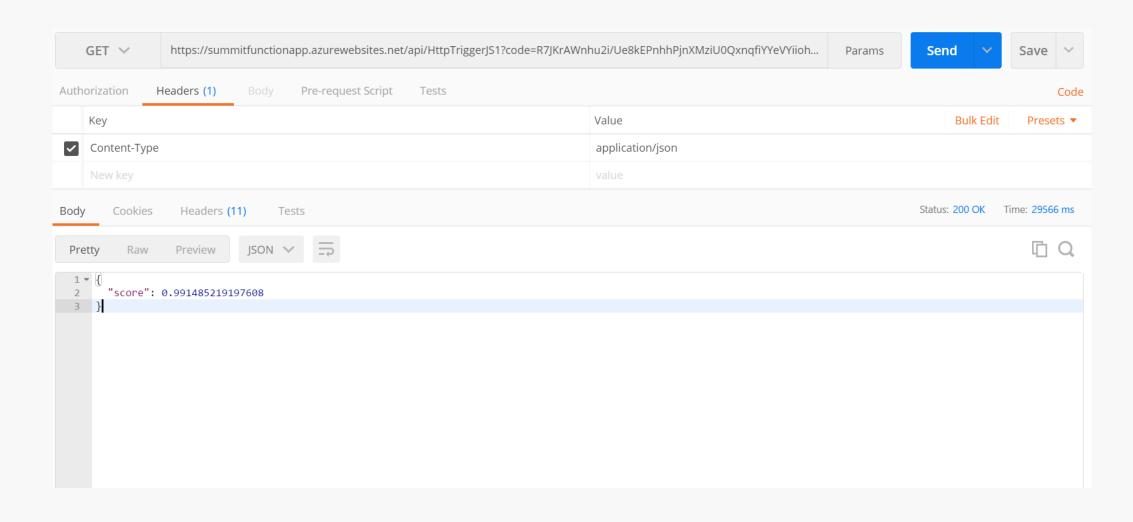


Copy the Function URL link and add any query string or body parameters to Postman



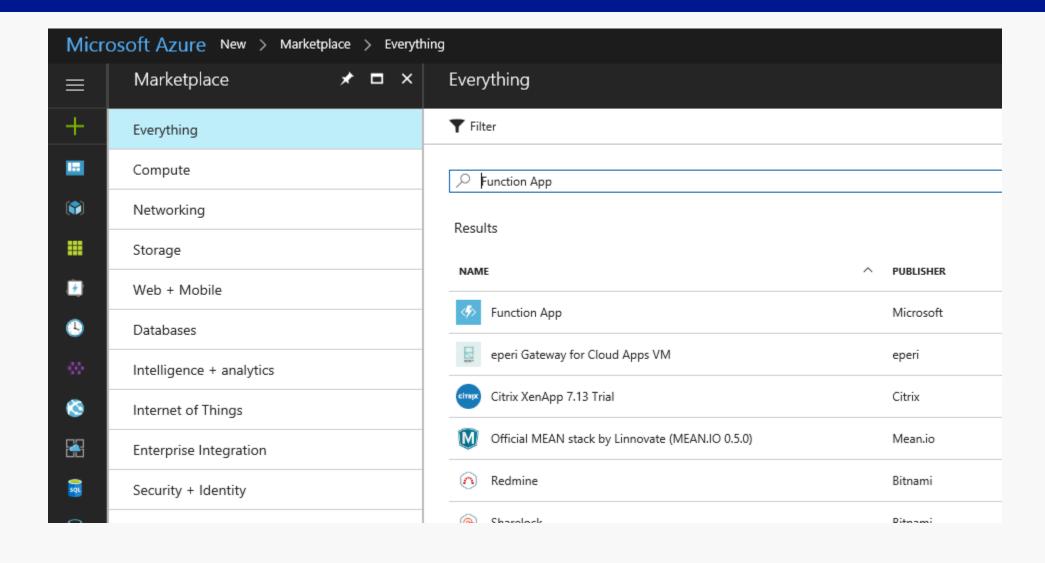
Make Remote Requests to the Azure Function





Select Function App in Azure Stack





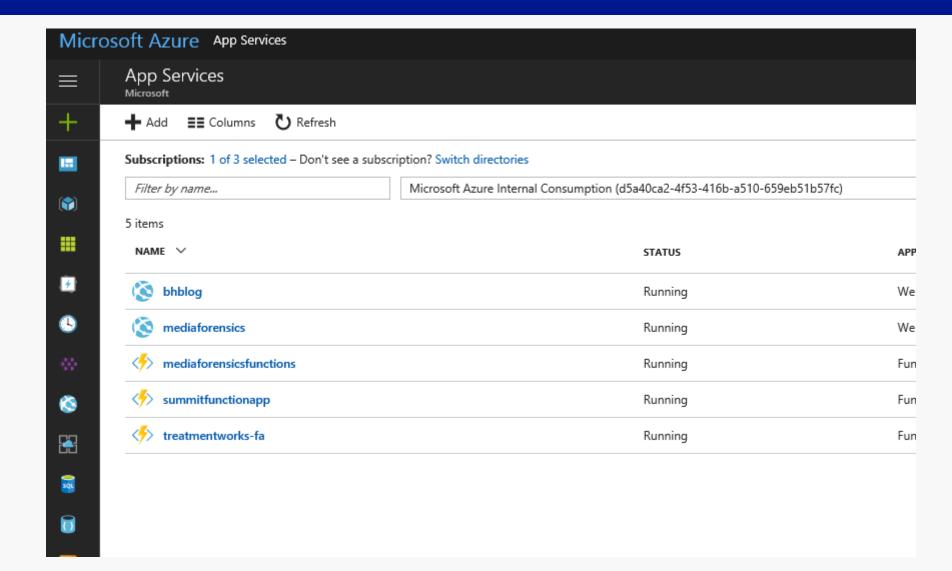
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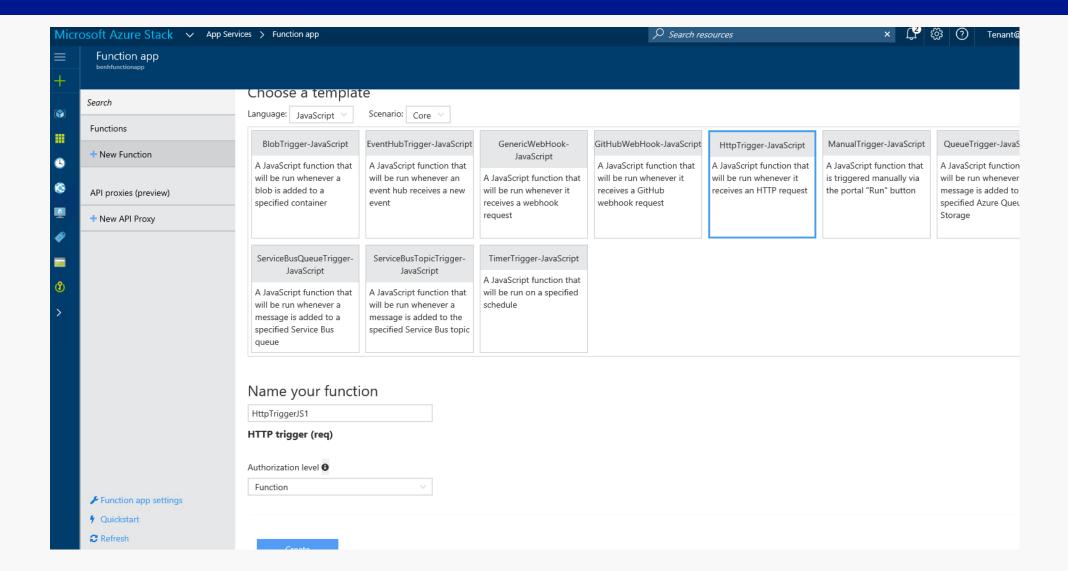
Navigate to your Function App in Azure





Set Up your Function App in Azure Stack

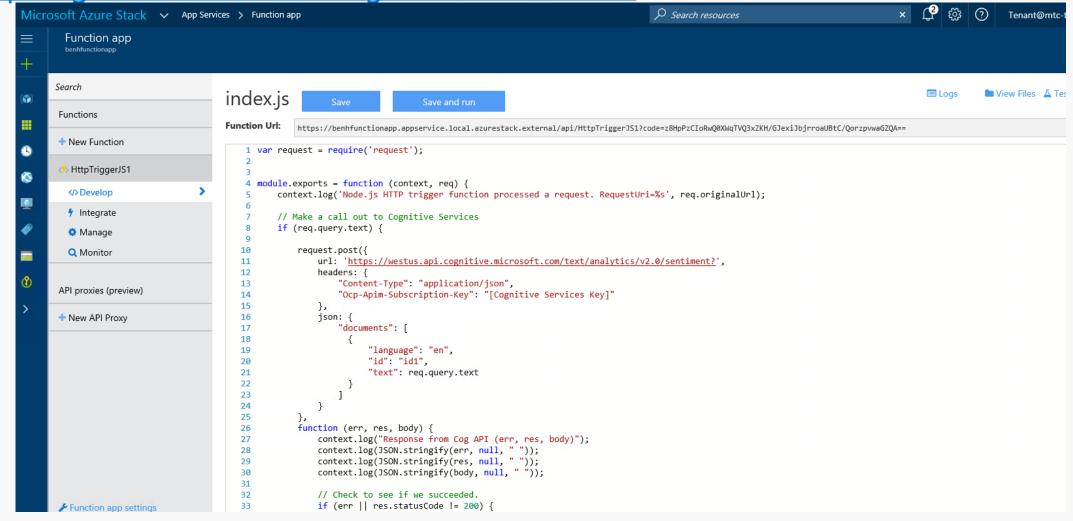




Add the Sentimentfunction.js Code

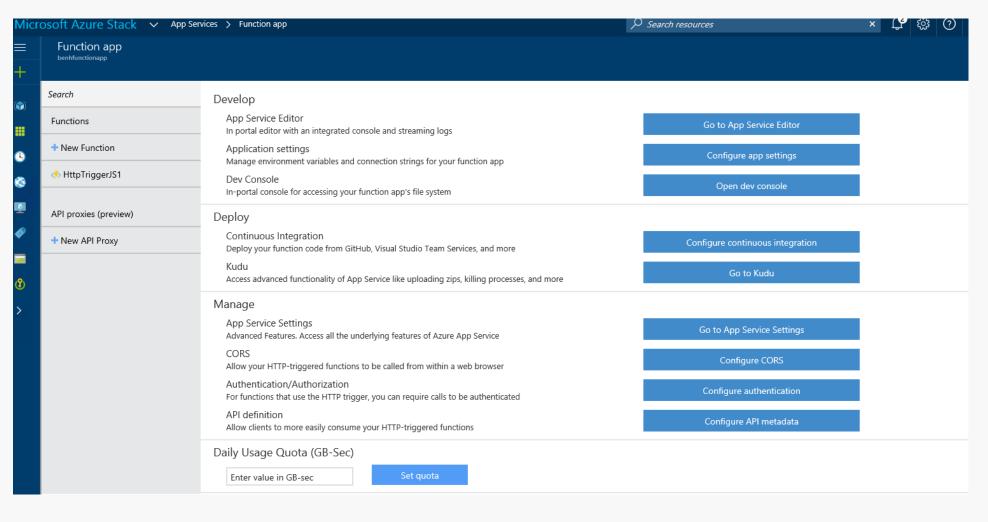


https://github.com/ben-houghton/summitcode



Install the Node.js Request Package on Azure Stack

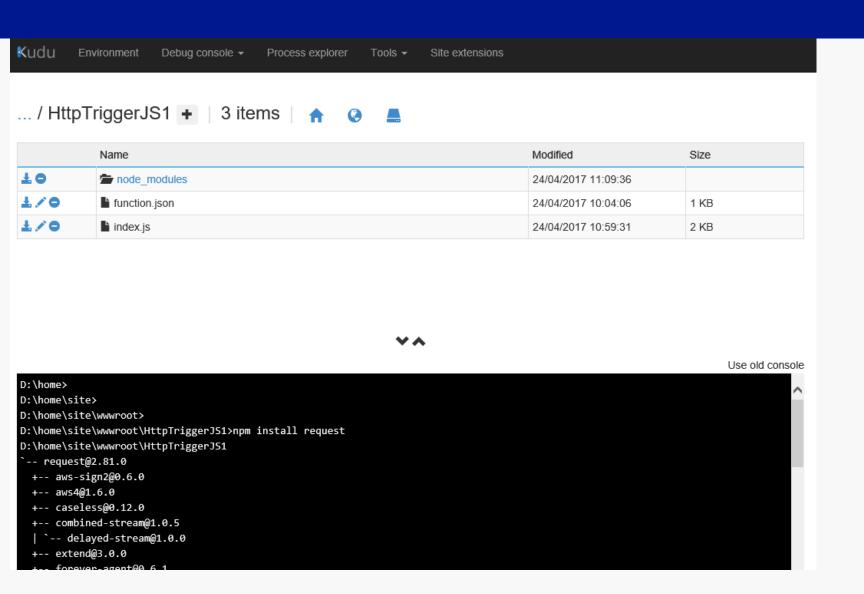




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Install the Node.js Request Package on Azure Stack





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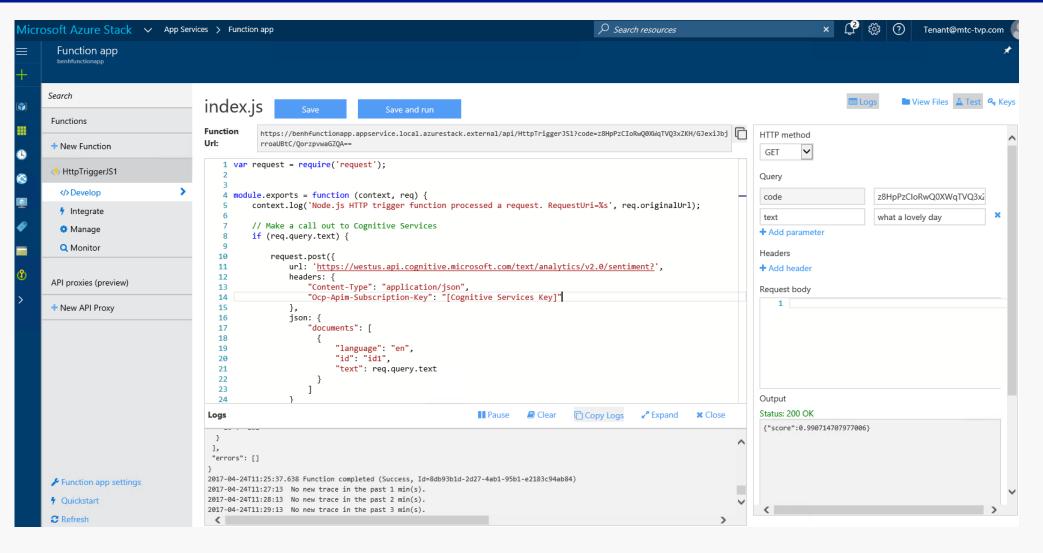
[The name of your function]

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npm install request

Test your Azure Stack Function

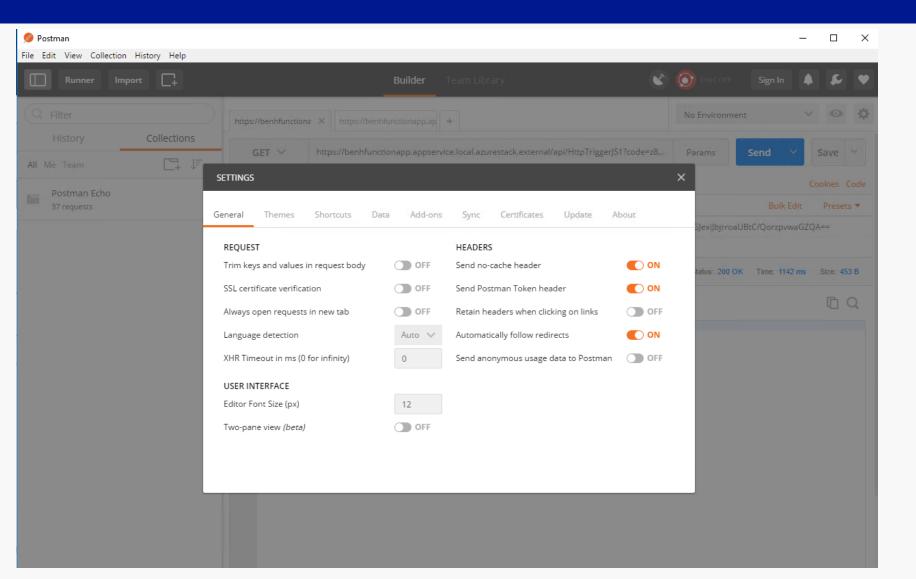




Once you've configured the Function and test settings, click 'Run'

Configure Postman for Azure Stack

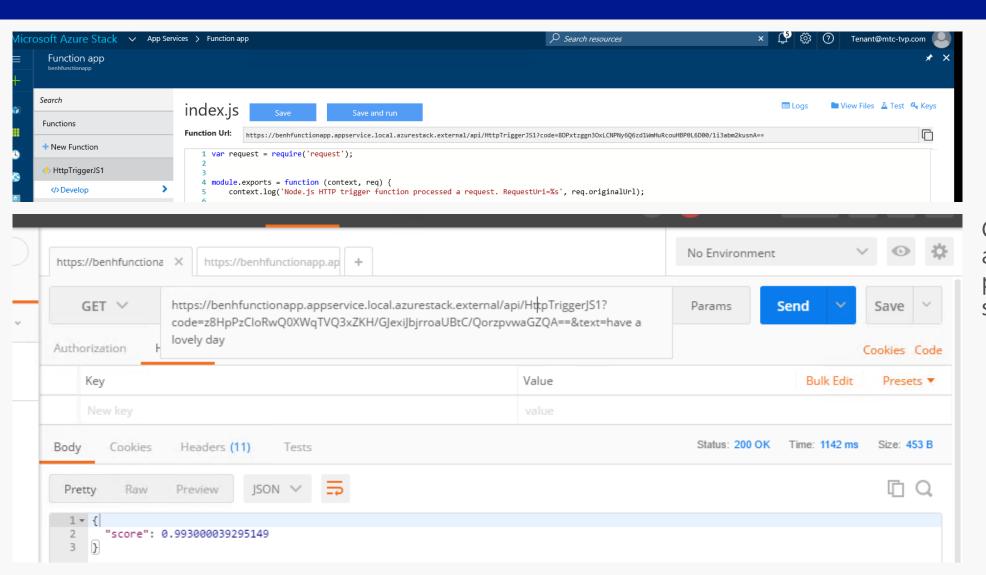




On the Azure Stack server, in Postman you may need to set "SSL certificate verification" to "Off"

Test your Azure Stack Function with Postman 🖒





Get the Function URL from the function app UI

Copy the Function URL and append any required parameters to the query string if a GET request.

Try other Cognitive Service & Functions



This code works on Function Apps for Azure and Azure Stack

Go to my Github Repo https://github.com/ben-houghton/summitcode

Name	URL	Configuration
Image Analysis	<u>imageanalysisfunction.js</u>	Replace the Function code with the code from the imageanalysisfunction.js file Use a POST request Use a POST body like {url: "http://linktoimage.jpg"} Use "Content-type: application/json" header
Key Word Analysis	keyphrasefunction.js	Replace the Function code with the code from the keyphrasefunction.js file Use a GET or POST request with a query string parameter of 'text'