# Cognitive Services, Serverless Compute in Azure & 6

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

- Build out an Severless PaaS web application in Azure
  - <a href="https://azure.microsoft.com/en-us/services/functions/">https://azure.microsoft.com/en-us/services/functions/</a>
- Deploy some open source code that uses Azure AI 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.

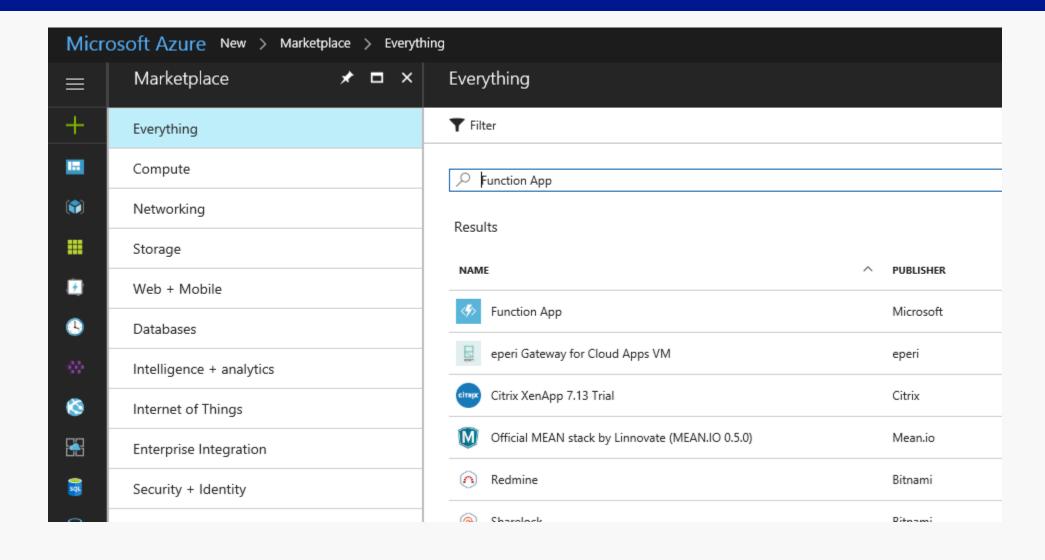
## Al, Serverless Compute in Azure & Azure Stack



- Navigate to <a href="https://github.com/ben-houghton/summitcode">https://github.com/ben-houghton/summitcode</a>

# Create a Function App in Azure





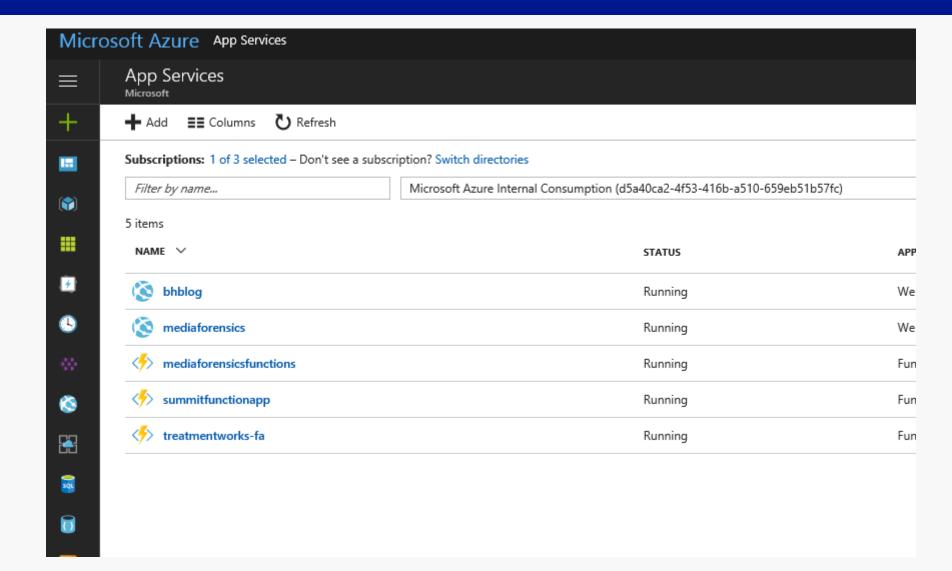
# Provision your Function App in Azure



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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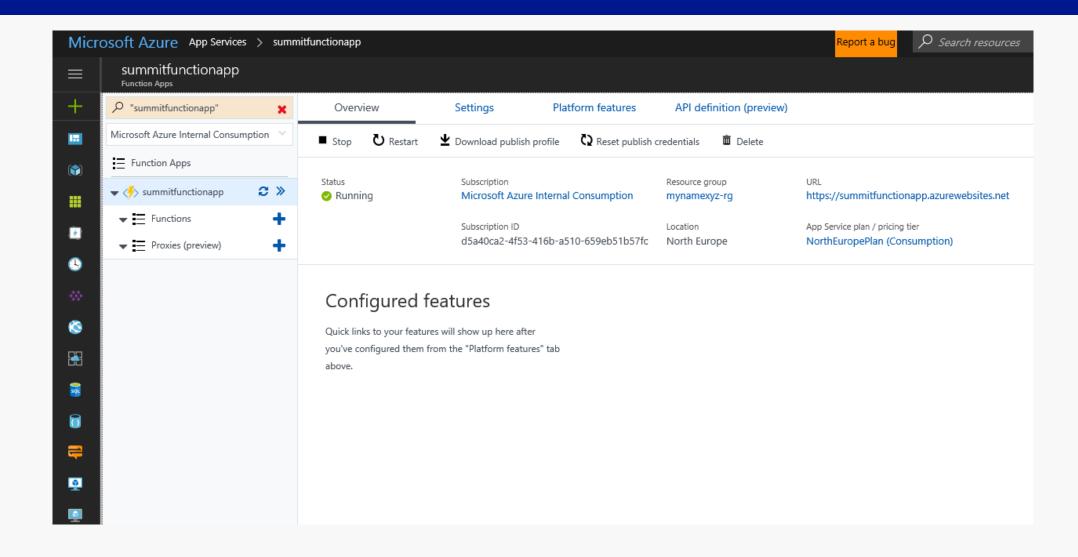
# Navigate to your Function App in Azure





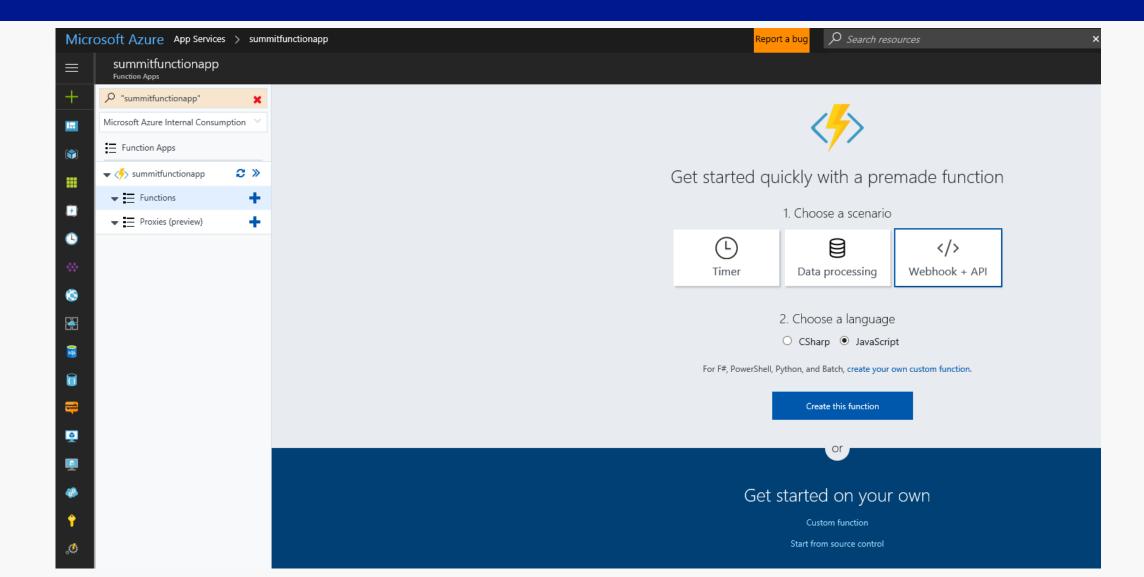
# Set Up your Function App in Azure





## Create your Function in Azure

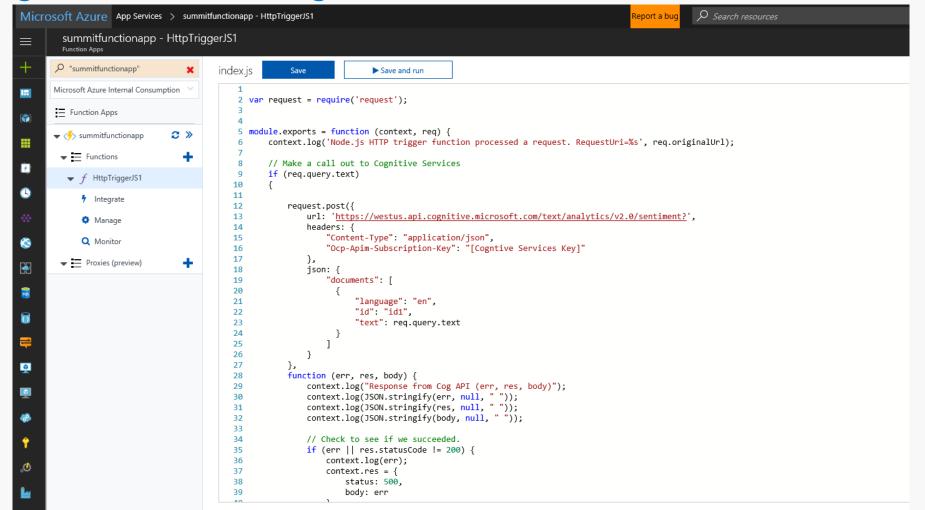




# Add the Sentimentfunction.js Code



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

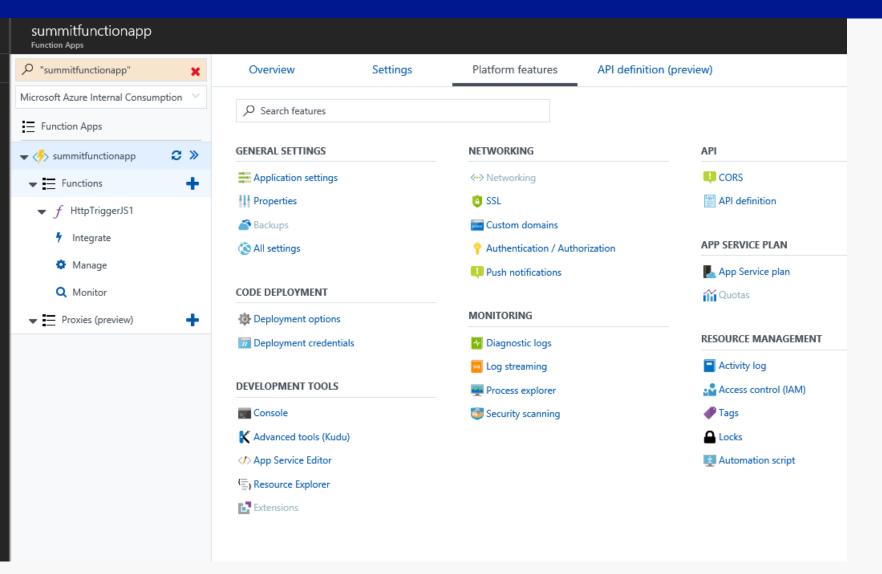


# Add the Cognitive Services Subscription Key

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

# Install the Node.js Request Package

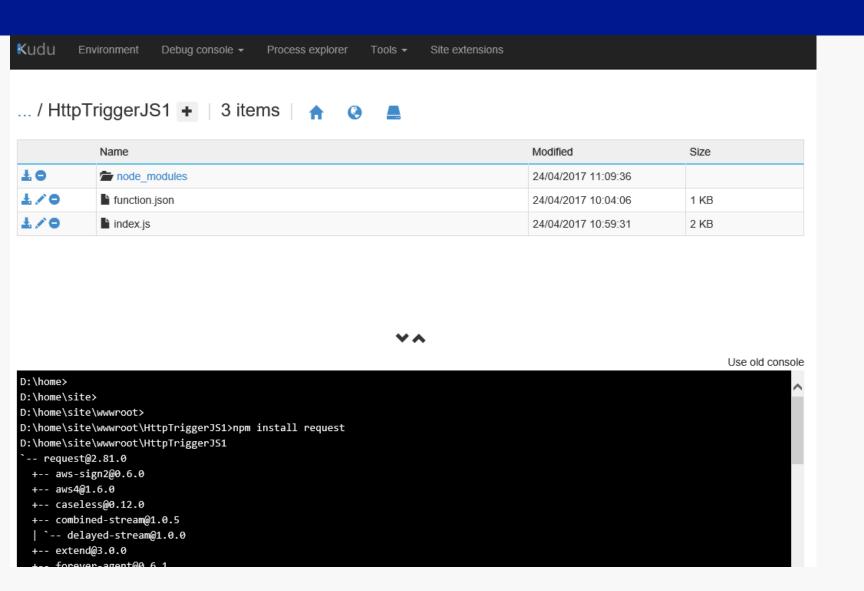




Click on Advanced Tools (Kudu)

# Install the Node.js Request Package





Debug Console > CMD

Above the console click –

Site

Wwwroot

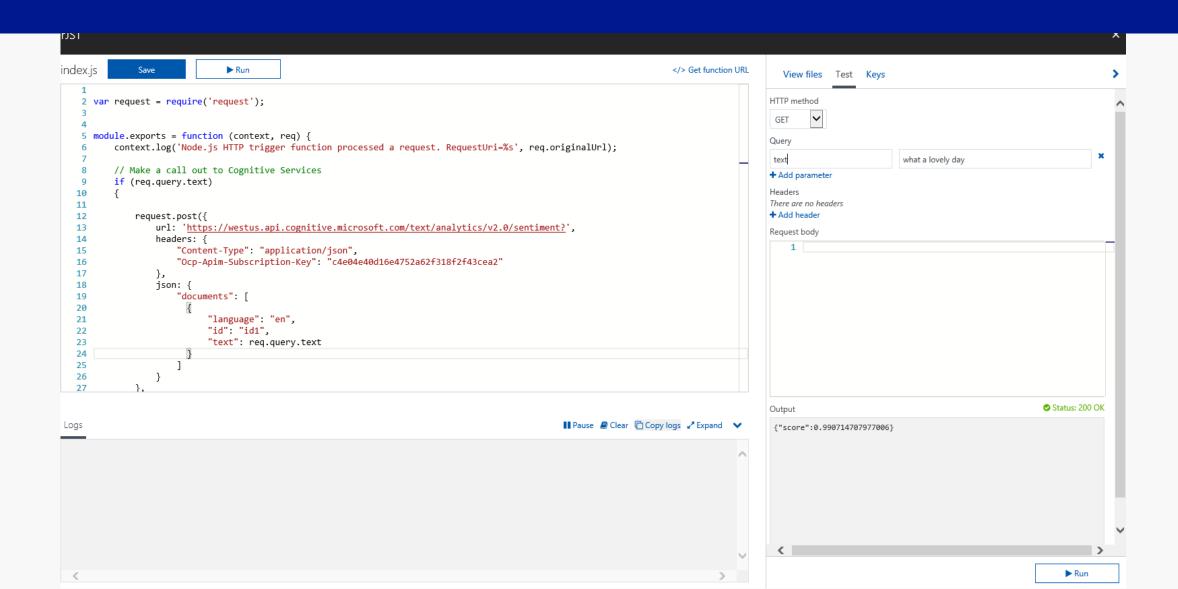
[The name of your function]

Type

npm install request

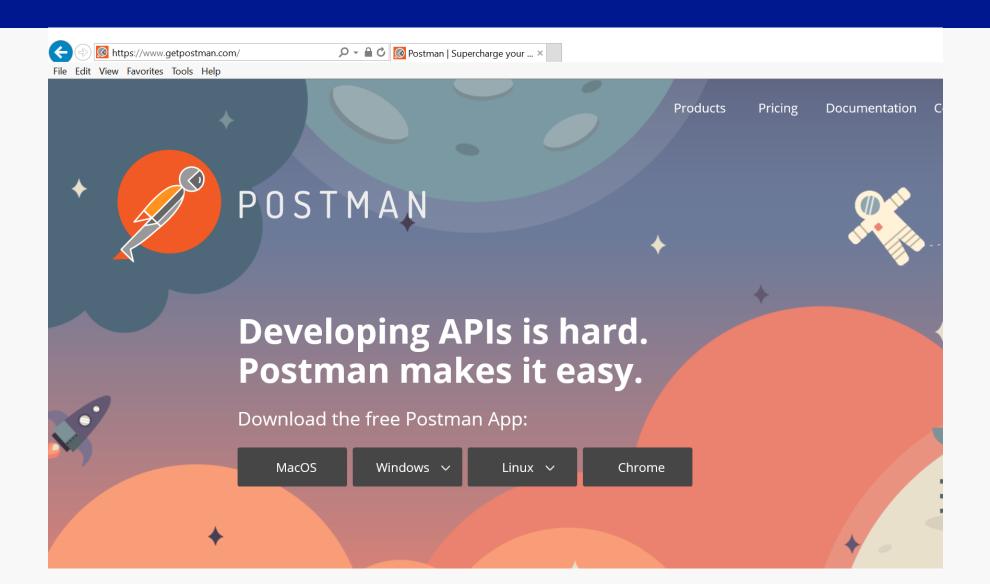
# Test your Azure Function





# Get Postman so we can make Requests

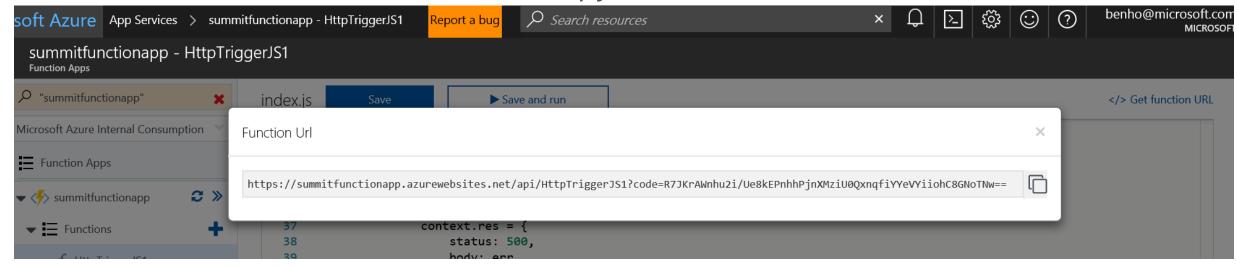




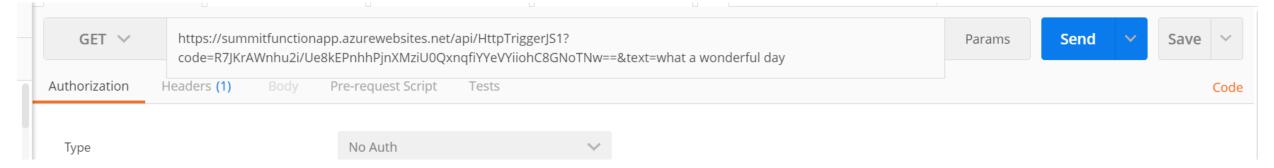
#### Get Your Function URL



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

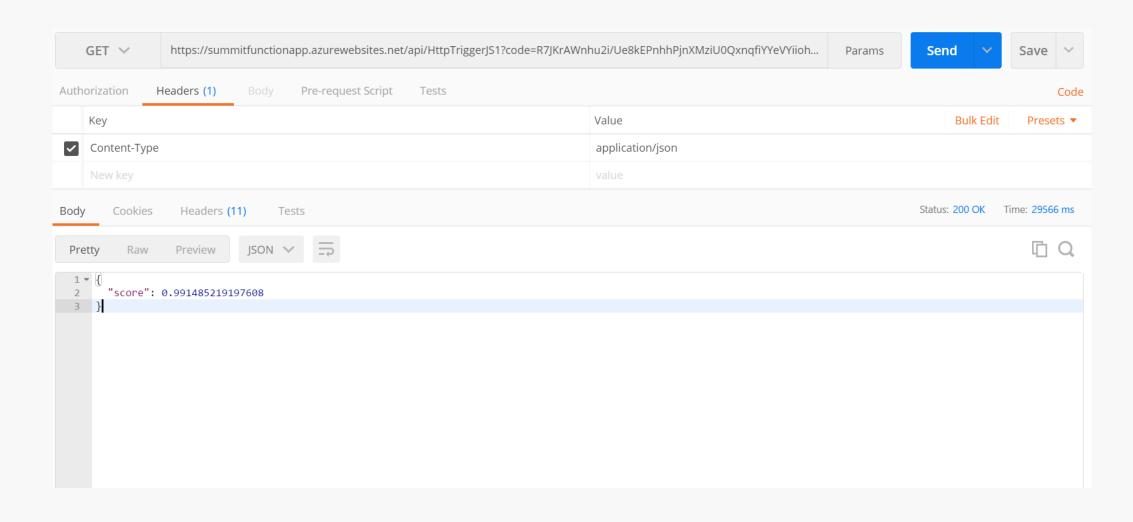


Copy the Function URL link and add any query string or body parameters to Postman



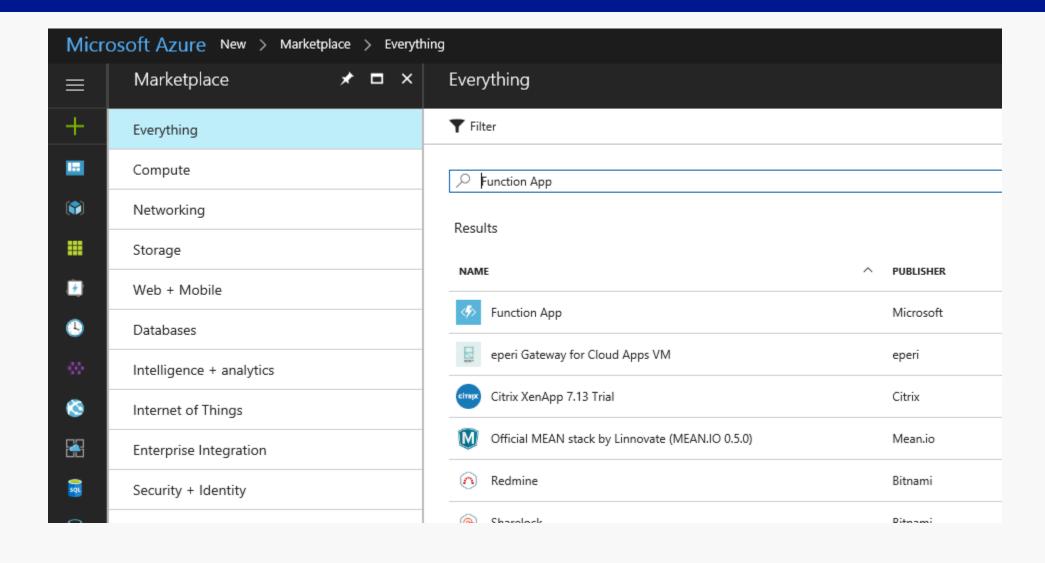
### Make Remote Requests to the Azure Function





# Select Function App in Azure Stack



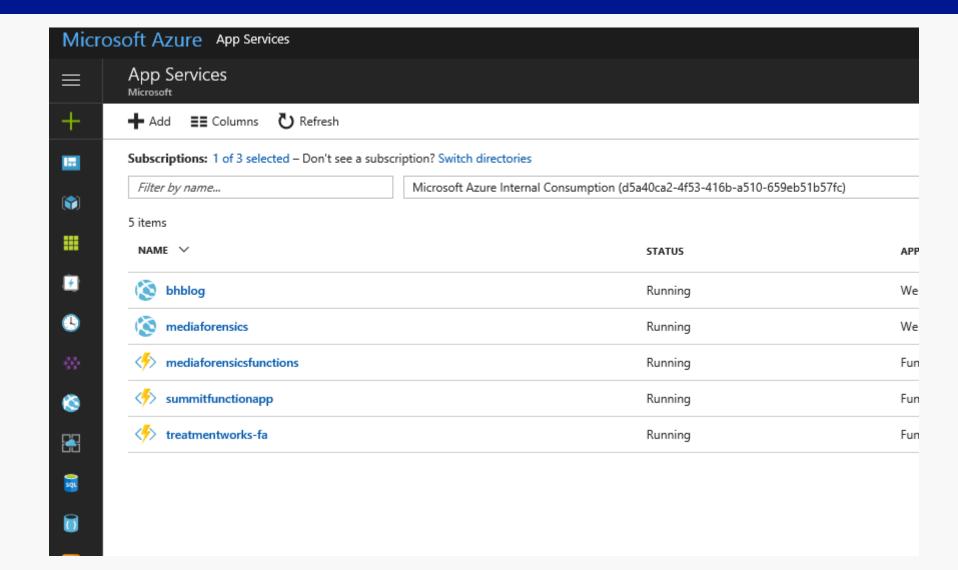


# Provision your Function App in Azure Stack (



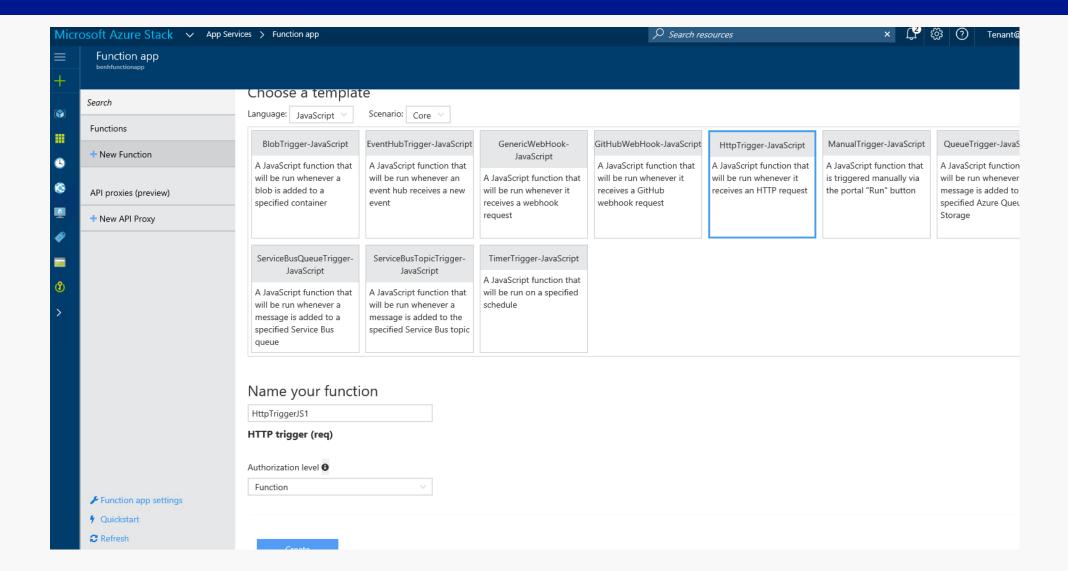
Microsoft Azure New > Marketplace > Everything > Function App > Function App								
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	* App name mynamexyz	<b>~</b>						
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# Navigate to your Function App in Azure Stack



# Set Up your Function App in Azure Stack

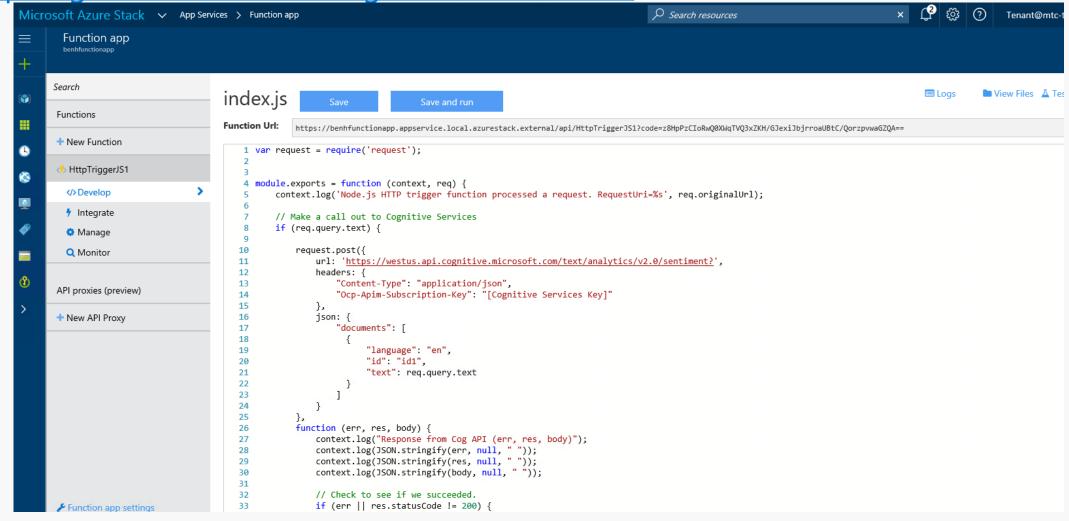




# Add the Sentimentfunction.js Code

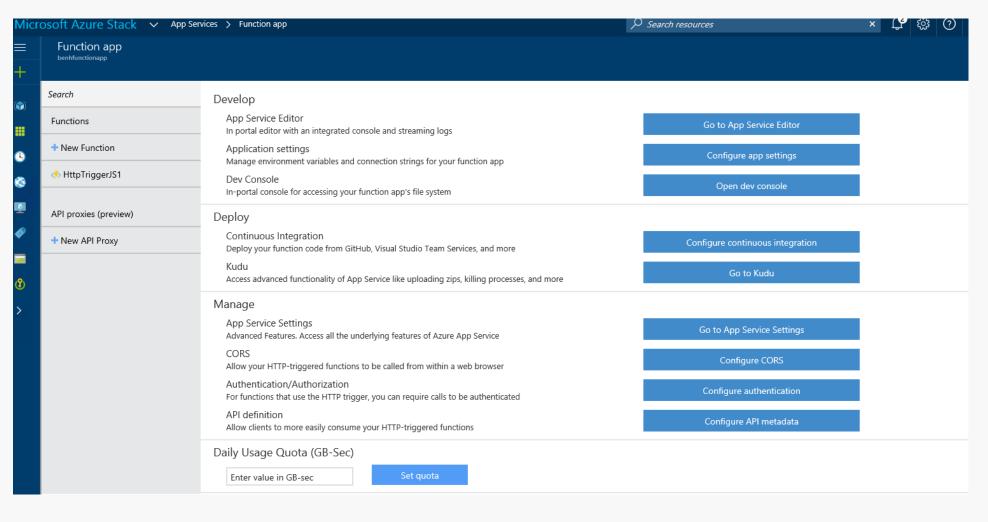


https://github.com/ben-houghton/summitcode



#### Install the Node.js Request Package on Azure Stack

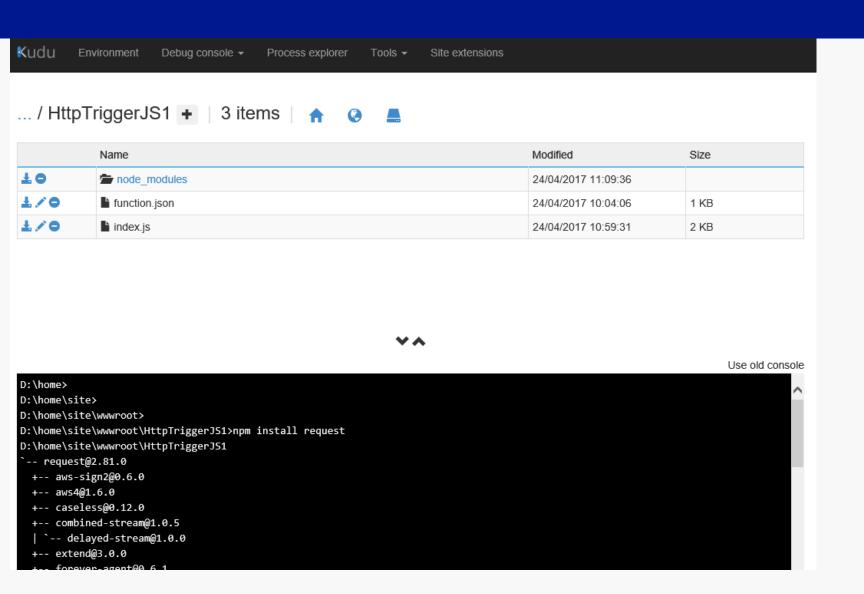




Click on Advanced Tools (Kudu)

#### Install the Node.js Request Package on Azure Stack





Debug Console > CMD

Above the console click –

Site

**Wwwroot** 

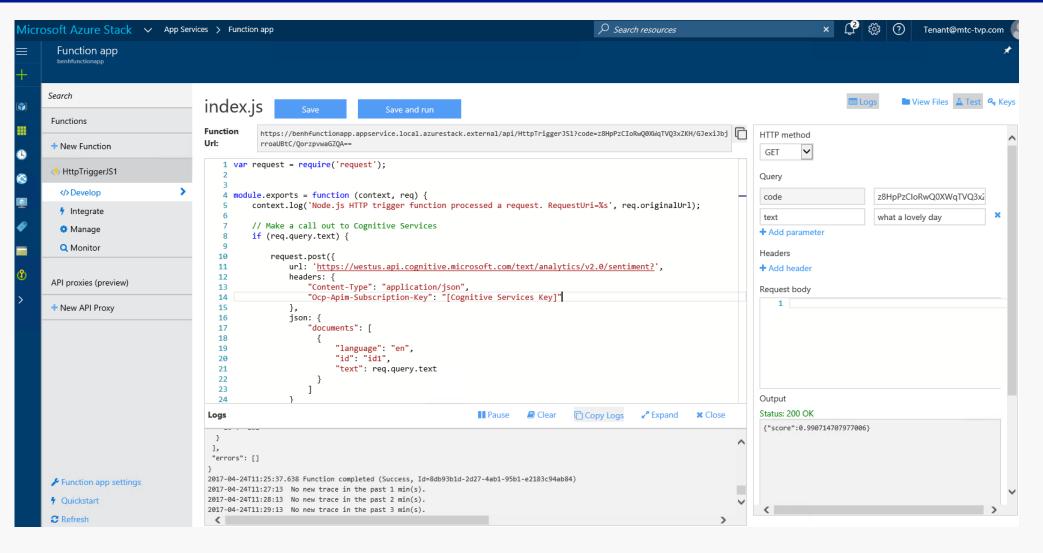
[The name of your function]

Type

npm install request

# Test your Azure Stack Function

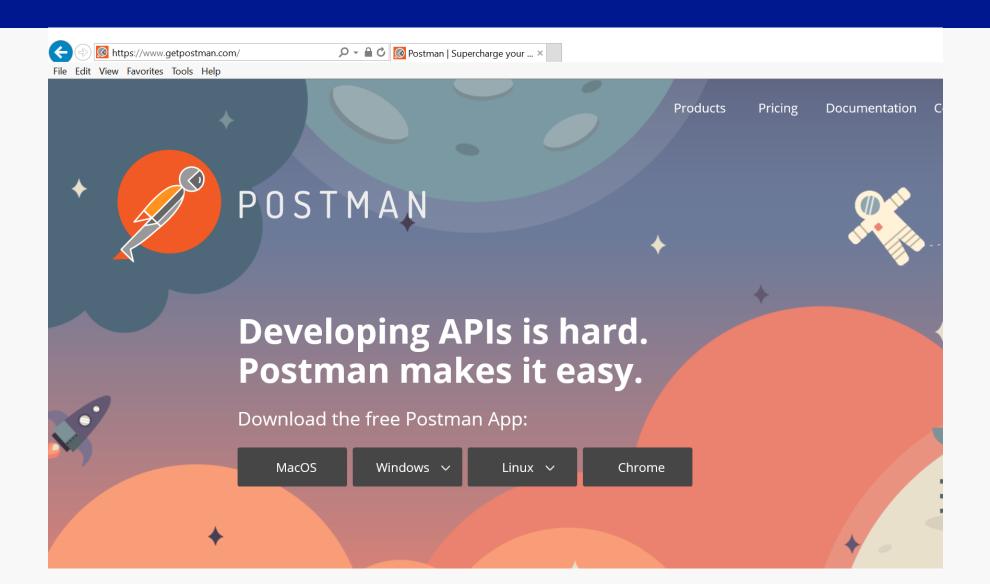




Once you've configured the Function and test settings, click 'Run'

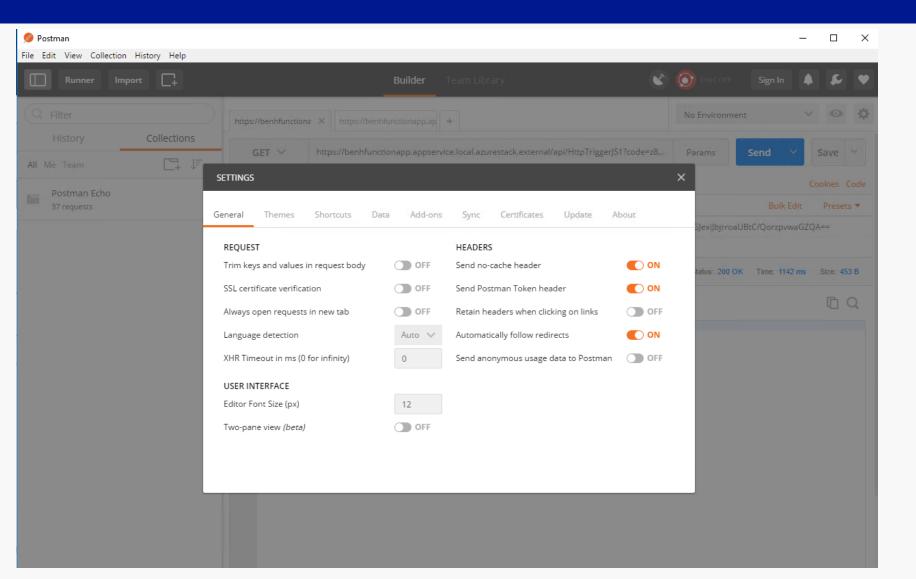
# Get Postman so we can make Requests





# Configure Postman for Azure Stack

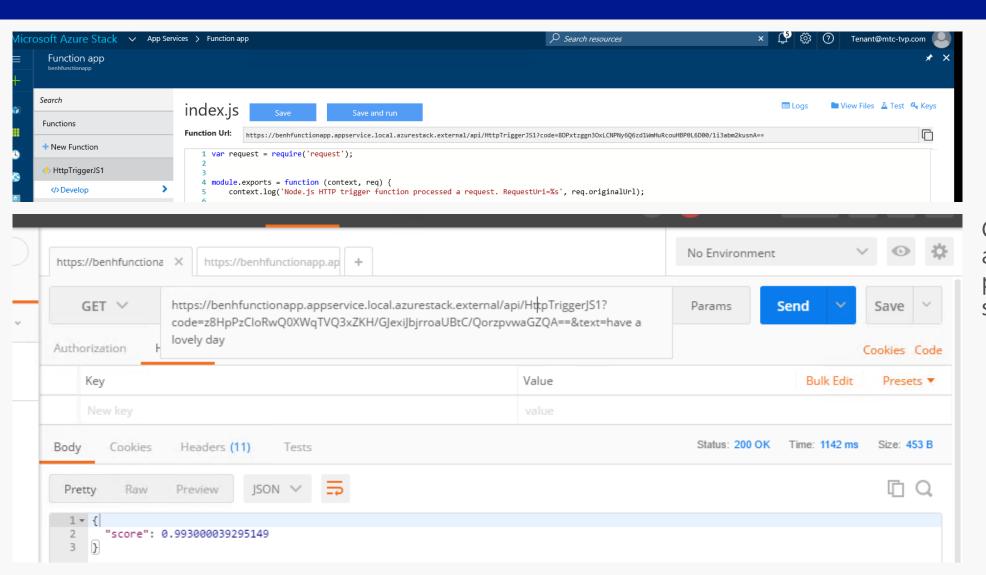




On the Azure Stack server, in Postman you may need to set "SSL certificate verification" to "Off"

# 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 <a href="https://github.com/ben-houghton/summitcode">https://github.com/ben-houghton/summitcode</a>

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'