

# Implementing Input and Output Bindings

---



**Mark Heath**

MICROSOFT AZURE MVP

@mark\_heath [www.markheath.net](http://www.markheath.net)



# Overview

## Input Bindings

Get data into our  
functions

## Output Bindings

Send messages,  
add document to  
a database

## Azure Functions Core Tools

Develop locally



# Azure Function Bindings

A binding is a connection to data

**Input** bindings provide read-access to data

**Output** bindings let us write to an external system

Functions can have multiple input and output bindings



# Azure Function Input Binding Types



**Blob Storage binding – read contents of a file in Blob Storage**



**Cosmos DB binding – look up a document in a Cosmos DB database**



**Microsoft Graph binding – access OneDrive**



# Azure Functions Output Bindings



**Blob Storage binding – Create a new file in Blob Storage**



**Queue Storage binding – Post a message to a queue**



**Cosmos DB binding – Create a new document in a database**



**Many others – Event Hub, Service Bus, SendGrid, Twilio, etc**



# Demo



HTTP request trigger

Cosmos DB input binding



# Development Environment

**Azure Functions  
Core Tools**

**Visual Studio  
Code**

**Azure Functions  
VS Code  
Extension**

**Azure Storage  
Emulator**

**Azure Cosmos DB  
Emulator**



# Demo



## Azure Storage Queue output binding





Input and output bindings  
are defined in function.json





## Try it yourself

Create some functions yourself and use a few different input and output bindings

