

Implementing Custom Handlers



Mark Heath

MICROSOFT AZURE MVP

@mark_heath www.markheath.net



Supported Programming Languages

C#

Java

JavaScript

Python

PowerShell

...others

What about **languages** that aren't currently supported?

e.g. Rust or Go

Or **runtimes** that aren't currently supported?

e.g. Deno



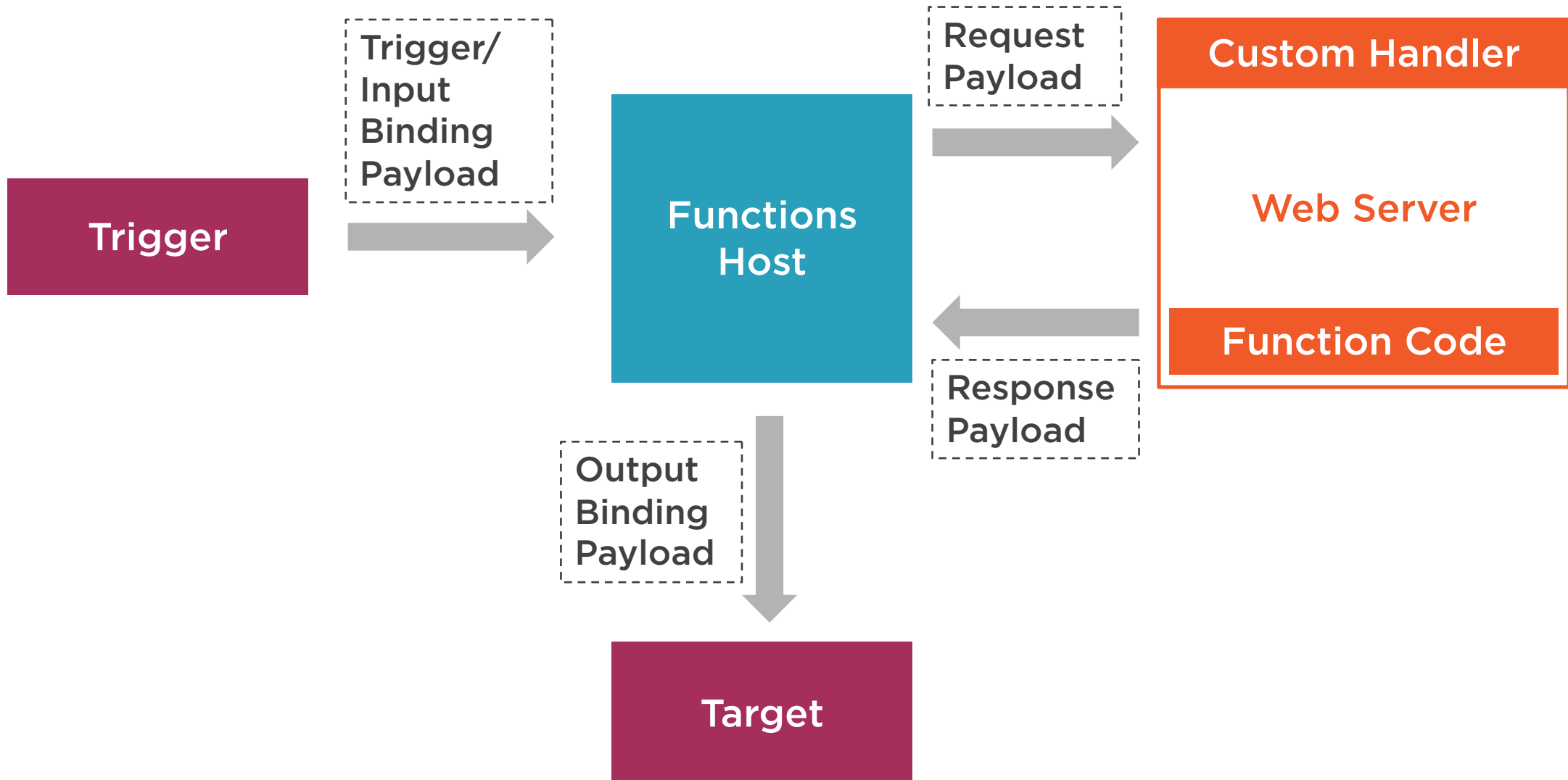
Custom Handlers

Implement Azure Functions using your language or runtime of choice

Won't often be necessary, but a useful option to know about



Custom Handlers



Creating a Custom Handler

- 1 Create a Function App, with `func init` selecting “Custom” as the language
- 2 Create an Azure Function
- 3 Create a web server using your custom language of choice
- 4 Compile your custom handler (e.g. `go build handler.go`)
- 5 Update `host.json` (`defaultExecutablePath` and `enableForwardingHttpRequest`)
- 6 Test locally (e.g. `func start`) or publish to Azure



host.json

```
{
  "version": "2.0",
  "logging": {
    "applicationInsights": {
      "samplingSettings": {
        "isEnabled": true,
        "excludedTypes": "Request"
      }
    }
  },
  "extensionBundle": {
    "id": "Microsoft.Azure.Functions.ExtensionBundle",
    "version": "[1.*, 2.0.0)"
  },
  "customHandler": {
    "description": {
      "defaultExecutablePath": "",
      "workingDirectory": "",
      "arguments": []
    }
  }
}
```



Quickstart: Create a Go or Rust function in Azure using Visual Studio Code

12/04/2020 • 10 minutes to read •     

Select your function language:

In this article, you use Visual Studio Code to create a **custom handler** function that responds to HTTP requests. After testing the code locally, you deploy it to the serverless environment of Azure Functions.

Custom handlers can be used to create functions in any language or runtime by running an HTTP server process. This article supports both [Go](#) and [Rust](#).

Completing this quickstart incurs a small cost of a few USD cents or less in your Azure account.

Configure your environment

Before you get started, make sure you have the following requirements in place:

Go Rust

- An Azure account with an active subscription. [Create an account for free](#).

Is this page helpful?

 Yes  No

In this article

[Configure your environment](#)

[Create your local project](#)

[Create and build your function](#)

[Configure your function app](#)

[Run the function locally](#)

[Sign in to Azure](#)

[Compile the custom handler for Azure](#)

[Publish the project to Azure](#)

[Run the function in Azure](#)

[Clean up resources](#)

[Next steps](#)



host.json

```
{
  "version": "2.0",
  "logging": {
    "applicationInsights": {
      "samplingSettings": {
        "isEnabled": true,
        "excludedTypes": "Request"
      }
    }
  },
  "extensionBundle": {
    "id": "Microsoft.Azure.Functions.ExtensionBundle",
    "version": "[1.*, 2.0.0)"
  },
  "customHandler": {
    "description": {
      "defaultExecutablePath": "handler.exe", // or just "handler" on Linux
      "workingDirectory": "",
      "arguments": []
    }
  },
  "enableForwardingHttpRequest": true,
}
```



Custom Handler Function Route

The web server should listen on `/api/FunctionName`

