# Azure Functions Hands-On Lab

## Intro

This hands-on lab is a series of exercises to familiarize yourself with Microsoft’s Azure Functions offering. Azure Functions is one of Microsoft’s serverless compute offerings.

## Prerequisites

1. Azure account – free trial at <https://azure.microsoft.com/en-us/free/>
2. Code Editor – Visual Studio 2017 (latest preview), VS Code, Atom, Sublime, etc.
3. Internet access
4. Other Tools - Node.js – npm, Git – bash / gui

## Exercise #1

In exercise #1 we will create a “Hello World” Azure Function. Try C# one first.

<https://docs.microsoft.com/en-us/azure/azure-functions/functions-create-first-azure-function>

Identify parts of an Azure Function or that deploy along with functions

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1a) Add a function, What kind of functions are available?

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1b) What languages are supported? Now? Preview?

1c) Proxies are \_\_\_\_\_\_\_\_\_\_\_\_\_\_ 1d) Slots are used for \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

## Exercise #2

In exercise #2 we will explore hooking functions up to other Azure services. We will deploy Azure functions from samples listed at <https://azure.microsoft.com/en-us/resources/samples/?service=functions&sort=0> (from Samples link in docs)

2a) In this exercise we will configure and deploy code from the Photo Mosaic sample code at <https://azure.microsoft.com/en-us/resources/samples/functions-dotnet-photo-mosaic/>

This will require creating Bing Search API keys and account settings for the Custom Vision services

2b) Configure and set up another sample of your choice.

Recommendations:

* DotNet Coder Cards - <https://azure.microsoft.com/en-us/resources/samples/functions-dotnet-codercards/>
* Reacting to Azure Insight Events - <https://azure.microsoft.com/en-us/resources/samples/functions-dotnet-azure-insights-trigger/>
* Customer Reviews App with Cognitive Services - <https://azure.microsoft.com/en-us/resources/samples/functions-customer-reviews/> - uses VS2017 tooling