



Lab 5 – Durable Functions

Objective

In this lab, you have the option to create your durable functions solution. Durable Function is an extension of Azure Functions and WebJobs – it's an open source extension that you plug into your function. You build the extension on top of the open-source Durable Task Framework. Furthermore, the extension takes care of managing the state, checkpoint, and replays for you.

With Azure Durable Functions, you can write stateful workflows in a new function type called an orchestrator function. This orchestration function provides you more control for building workflows than using, for instance, a designer for Microsoft Flow or Logic Apps.

A developer writes code with Durable Functions; no designers, nor a JSON DSL that you need to learn. It is strictly coded, and developers like that. Therefore, you as a developer can build durable functions with the code the same way as you are familiar with Visual Studio or Code. Furthermore, other benefits of using Azure Durable Functions are:

- You can call other functions synchronously and asynchronously, and you can save the output from called functions to local variables.
- The state is managed for you, whenever a VM or process recycles you will not lose the state of your flow.

For more details about Durable Functions see [Introduction to Azure Durable Functions](#).

Prerequisites

- Azure Subscription
- Visual Studio 2017



Steps

To build the solution in this lab, you have to follow the step described in this section. From a high-level view the steps are:

- Create a Durable Functions Solution

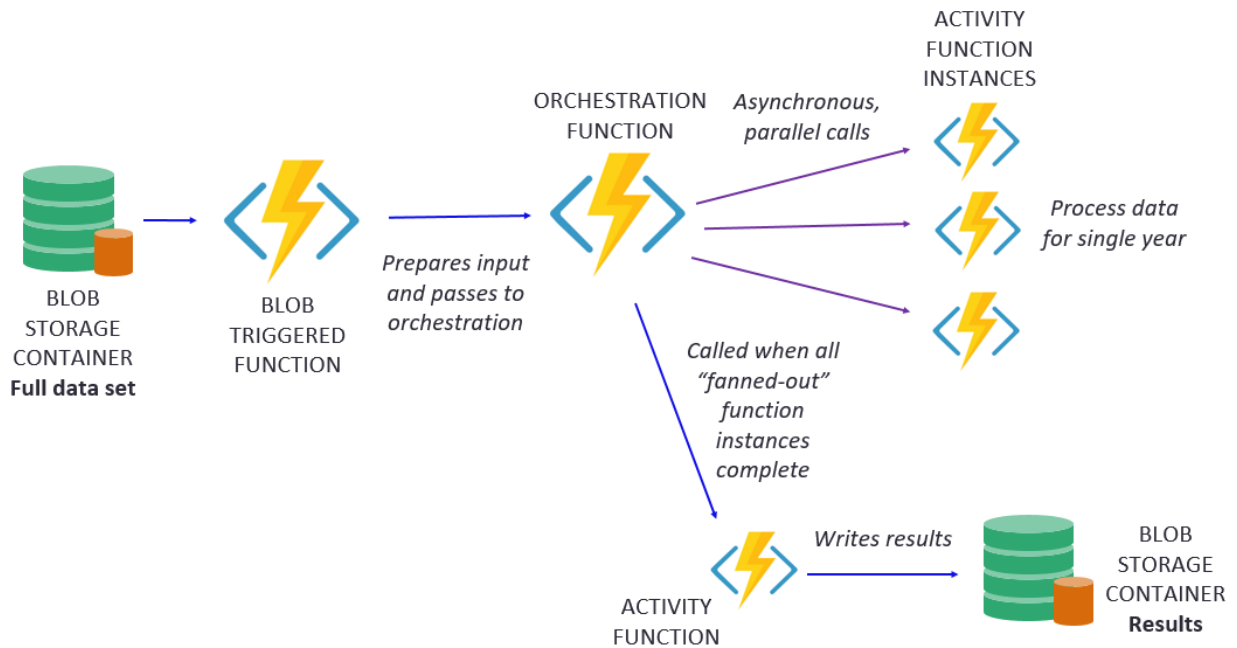
Lab duration: **60 minutes**.

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Step 1 – Build a Durable Functions Solution

You can choose how to build a durable functions solution. For example, a solution as shown below:



Source: <https://medium.com/@ThisisZone/azure-durable-functions-before-and-after-b7266d51ed4d>