

Microservices with Openwhisk

Contact Info

Name: Donald Wilcox

Email: dw@jogral.io

1 Overview

“Serverless” computing is a recent development that is built around the concept of “microservices:” programs that serve a single function. (For example, curl.) Microservices adopt the Unix approach to systems programming, where a program provides a simple output, and you can use each program to build a more comprehensive program. “Serverless” tools allow you to do so without the need to build a machine to do it, allowing you to couple various programs into your application without concern for scaling the services. In this course, we will use Openwhisk, an open source tool for serverless computing, to create microservices and consume them.

2 Duration

This is a 4-hour course.

3 Objectives

- Understand microservice architecture
- Understand how computing can be “serverless”
- Evaluate tools for serverless computing
- Create actions to consume

4 Key Takeaways

After this course, you will be able to:

- Know what microservices are
- Know about AWS Lambda and IBM (now Apache) Openwhisk
- Build Openwhisk actions in Python (and Javascript coming soon)

5 Prerequisites

- Requires a working knowledge of Python, Javascript, or another programming language

6 Required Materials

For this, you will need the following:

- Workbook (provided)
- Laptop with Docker

7 Schedule/Topics Discussed

- What is a microservice?
- How computing becomes “serverless” and scalable
- Using Openwhisk in IBM Bluemix
- Using Openwhisk in your own environment