Workshop Setup

- Exercise 1 - Accessing a Kubernetes cluster with IBM Cloud Container Service (exercise-1/README.md)

Exploring Kubernetes

- Exercise 2 - Deploying a microservice to Kubernetes (exercise-2/README.md)
- Exercise 3 - Creating a Kubernetes service (exercise-3/README.md)
- Exercise 4 - Scaling in and out (exercise-4/README.md)

Creating a Service Mesh with Istio

- Exercise 5 - Installing Istio (exercise-5/README.md)
- Exercise 6 - Creating a service mesh with Istio Proxy (exercise-6/README.md)
- Exercise 7 - Istio Ingress controller (exercise-7/README.md)
- Exercise 8 - Telemetry (exercise-8/README.md)
- Exercise 9 - Request routing and canary deployments (exercise-9/README.md)
- Exercise 10 - Fault injection and rate limiting (exercise-10/README.md)

Credits

These workshop exercises are built with the help from a number of amazing Kubernetes and Istio experts from Google and Grand Cloud.

Ray Tsang @saturnism (https://twitter.com/saturnism)

The Kubernetes and Istio exercises are derived from the work of Ray Tsang @saturnism (https://twitter.com/saturnism) and these repositories:

https://github.com/saturnism/spring-boot-docker (https://github.com/saturnism/spring-boot-docker)

https://github.com/saturnism/istio-by-example-java (https://github.com/saturnism/istio-by-example-java)

Zach Butcher @ZachButcher (https://twitter.com/ZackButcher)

Zach was instrumental in helping write the Istio tutorials.

Kelsey Hightower @kelseyhightower (https://twitter.com/kelseyhightower)

The Istio Ingress Tutorial is largely based on the work of Kelsey and this repository:

https://github.com/kelseyhightower/istio-ingress-tutorial (https://github.com/kelseyhightower/istio-ingress-tutorial)

Kelsey's tutorial uses more advance features of Kubernetes to taint some of the nodes so that the Ingress controller runs on dedicated nodes. The Ingress controller is then deployed as a daemonset.