Prerequisites for Rise of the Containers training

1. Install Kubernetes command line
   1. brew install kubectl (k8s command line client tool)
2. Install Minikube using brew (you need [VirtualBox](https://www.virtualbox.org/wiki/Downloads) or [Hyperkit](https://minikube.sigs.k8s.io/docs/drivers/hyperkit/) installed)
   1. brew install minikube (minikube version latest)
   2. minikube start --memory 6000 --cpus=4 --driver=hyperkit

In the logs you can see if minikube is using hyperkit driver or virtual box driver.

If it's the virtual box driver, you can open VirtualBox and see the minikube instance running, and for the first time it can take upto 10-15 min.

If it’s hyperkit, move on to the next step. You can find out if everything is good at step 3.

1. Install required images inside minikube docker runtime
   1. eval $(minikube docker-env) (connect host CLI to docker runtime inside minikube - need to do it every time on new terminal window)
   2. docker pull nginx (download nginx image)
   3. docker pull openjdk:alpine (download another java image)
   4. docker pull mongo (download mongodb image)
2. Verify minikube and kubectl working fine using following command
   1. kubectl run -i --tty busybox --image=busybox -- sh

(you will see a linux prompt as # or $. This denotes that things are working)

* 1. ctrl + d (exit)

1. Stop Minikube cluster running on VirtualBox
   1. minikube stop
2. Download/clone sample project repo and run test
   1. git clone https://github.com/boot-services/metadata-service.git (clone repo from github)
   2. mvn clean test (run tests and see everything is working on local, you need **Java 8+ and Maven installed**)
      1. brew cask install java
      2. brew install maven
   3. mvn spring-boot:run (starting application locally - this can take long time as it downloads too many jar files)
   4. curl http://localhost:8080/actuator/info (checking if all is running fine)