# Microservices Configuration Management Boot Camp

1. It is highly encouraged to quickly go through setup as a student so that last minute surprises can be avoided
2. A successful call to ‘kubectl get nodes’ which returns some number of nodes will typically indicate cluster access is established
3. It is often convenient to download and configure the command line tool for any applicable public cloud examples.
   1. Microsoft Azure
      1. Azure Command Line Interface
         1. The AZ command line interface can be found and installed at <https://github.com/Azure/azure-cli>
      2. It is good to have the Azure quickstart available as a reference

<https://docs.microsoft.com/en-us/azure/aks/kubernetes-walkthrough>

* + 1. If clusters are created for the student ahead of time, then the following command can be run by the student to grant access to the cluster
       1. az aks install-cli (if kubectl is not installed at the student computer)
       2. az aks get-credentials --resource-group myResourceGroup --name myK8sCluster
    2. One issue to watch out for is if the clusters are owned by different resourcegroups that the student’s account. The student account must be a member of the same resourcegroup that owns the Kubernetes cluster, else an error will occur.
  1. Amazon Cloud
     1. Amazon Command Line Interface
        1. The AWS command line interface can be found at

<https://aws.amazon.com/cli/>

* + - 1. The AWS/Heptio quickstart can be found at

<https://aws.amazon.com/quickstart/architecture/heptio-kubernetes/>

* + - 1. The Amazon Kubernetes service (preview) can be signed up at:

<https://aws.amazon.com/eks/>

* 1. Google Cloud
     1. Google Command Line Interface
        1. The Google command line interface can be found at

<https://cloud.google.com/sdk/>

* + - 1. The Google Kubernetes engine quickstart can be found at

<https://cloud.google.com/kubernetes-engine/docs/quickstart>

## (Decide if the Java or Golang exercises are more appropriate for your class. Ideally have the exercises building for you ahead of class time so you can assist students with their completion)

1. Java
   1. JDK 1.8 or later

<http://www.oracle.com/technetwork/java/javase/downloads/index.html>

* 1. Gradle 2.3+ or Maven 3.0+

Gradle <https://gradle.org/install/>

Maven <https://maven.apache.org/download.cgi>

1. Golang
   1. Download runtime at:

http://golang.org

* 1. mkdir ~/gocde
  2. export GOPATH=$HOME/gocode