ROI Training

Lab:
Creating Kubernetes Clusters

Starting a Kubernetes Cluster

- You will be using Minikube to run your Kubernetes cluster
  - Minikube is already installed in the codespaces environment
- Open your codespace if it has closed
- In the terminal, start the Kubernetes cluster with:

  ```
  minikube start
  ```
  - It will take 1-2 minutes to start the cluster

Starting a Kubernetes Cluster (continued)

- Once the cluster is started, verify the status with:
  `minikube status`
  - You should see the following:

```
$ minikube status
minikube
type: Control Plane
host: Running
kubelet: Running
apiserver: Running
kubeconfig: Configured
```

- Kubernetes is now ready
  - It is that easy to create a cluster to develop and test with

Managing Minikube

- Below are few minikube commands that may be useful during the course:
  - `minikube start` : Starts a local Kubernetes cluster
  - `minikube status` : Gets the status of a local Kubernetes cluster
  - `minikube stop` : Stops a running local Kubernetes cluster
  - `minikube delete` : Deletes a local Kubernetes cluster
- If your minikube cluster ever starts acting weird, delete it and then launch a new one

Success

- **Congratulations!** You have successfully created a Kubernetes cluster
  - Minikube makes it very easy to develop and test with Kubernetes locally