* Course Overview
  + Kubernetes building blocks
  + Role of pods
  + Services
  + Secrets
* Overview
  + Kubernetes from a developer perspective
  + Creating pods
  + Creating deployments
  + Creating services
  + Understanding storage options
  + Creating ConfigMaps and Secrets
* Introduction
  + Can use Kubernetes in non production environment
* Kubernetes Overview
  + Open source system for automating deployment, scaling and management of containerized applications
  + How are you managing containers
    - Load balance to server with containers
  + Can use docker compose to manage containers
    - Not meant for production but can be used
  + Kubernetes is the conductor of a container orchestra
  + Key Kubernetes Features
    - Service discovery, load balancing
    - Storage orchestration/volumes
    - Automate rollouts/rollbacks
    - Self healing
    - Secret and configuration management
    - Horizontal scaling
    - More features
* The Big Picture
  + Container and cluster management
  + Kubernetes open source project
  + Supported by all major cloud platforms
  + Provides a “declarative” way to define cluster’s state
  + One or more master nodes
    - Manage worker nodes
  + Together they create a cluster
  + Master will start a pod on each node
  + Pod is a way to host a container
  + Pod is suit and container is a person in the suit
  + Deployment and replicaset to deploy pods
  + Need service for pods to talk to each other and the outside world
  + Node is like a VM, can run one or more pods
  + Store and controller manager
    - Store is database for master node to track things
    - Controller manager deals with request scheduling
  + kubectl command line tool
  + kubelet registers node with cluster and talks to manager
  + container runtime
  + Kube-Proxy: unique ip address for pods
* Benefits and Use Cases