DevOps Class 4 Out-Line

Meetup 4: Kubernetes Container Orchestration

- **0:00 - 0:15:** Introduction to Kubernetes
  - What is Kubernetes?
  - Key concepts in Kubernetes: Pods, Deployments, Services.
- **0:15 - 0:45:** Kubernetes Architecture and Concepts
  - Kubernetes architecture overview: master node, worker node, kubelet.
  - Kubernetes resources: Pods, Deployments, Services, ConfigMaps.
  - YAML files and Kubernetes manifest files.
- **0:45 - 1:00:** Hands-on with Kubernetes: Setting Up a Local Cluster
  - Deploying a simple apache2 Deployment from an image we created in docker class.
- **1:00 - 1:15:** Managing Kubernetes Deployments
  - Scaling Deployments: Using `kubectl scale`.
- **1:15 - 1:30:** Service Discovery and Load Balancing
  - Creating a Service to expose the apache2 Deployment.
  - Configuring a NodePort Service to connect to apache2 locally.