CKA Curriculum Lab Part 2 - Logging and Monitoring

Requirements

- A preconstructed Kubernetes lab with kubectl

Guidelines

Before you begin:

- Open up a ssh connection so you can run “kubectl” commands
- Open up a browser window to https://kubernetes.io/docs/home/

During the activity

Leverage https://kubernetes.io/docs/home/ as much as you need

Lab Activity 1 - General cluster status

Leveraging a single kubectl command acquire the current status for the Scheduler, Controller-Manager and etcd components

Lab Activity 2 - Acquiring component logs

List the logs from the following components on a master node:

- Kube-APIServer
- Kube-Scheduler
- Kube-Controller-Manager

List the logs from the following components on a worker node:

- CNI
- Kube-Proxy
- Kubelet
- Container Runtime

Lab Activity 3 - Application Monitoring

Run the following:

```
kubectl apply -f https://raw.githubusercontent.com/David-VTUK/CKAExampleYaml/master/nginx-svc-and-deployment.yamlhttps://raw.githubusercontent.com/David-VTUK/CKAExampleYaml/master/nginx-svc-and-deployment.yaml
```

- Gather the events from a given pod from this deployment
- Gather the events from the replicaset created from this deployment
- Gather the events from the service from this deployment
    - Acquire the list of endpoints associated with this service
    - How are the endpoints determined?
- Which kubectl command would display all the logs from the pods created from this deployment?