XI. Logs with k8s Container Logging

Relevant Documentation

- Twelve-Factor App: XI. Logs
- K8s Logging Architecture
- `kubectl` Cheat Sheet

Lesson Reference

Switch to the source code directory:

```
cd ~/content-designing-applications-for-kubernetes
```

Optional: If you want to start with a clean slate, check out the start tag for this lesson. However, you could lose any local changes you have made if you do this:

```
git reset --hard HEAD

git checkout XI-logs-start -f
```

Edit the source code for the server:

```
vi src/server/index.js
```

There is a `log` function that writes to a file. Change this function to simply write log data to the console:

```
log = function(data) {
  console.log(data);
}
```

Build a new server image:

```
docker build -t <Your Docker Hub username>/uloe-server:0.0.4 --target server .
```

Push the image:

```
docker push <Your Docker Hub username>/uloe-server:0.0.4
```

Deploy the new code:

```
vi uloe-app.yml
```

Change the image version for the server to the new image:

```
      containers:
      - name: uloe-server
        image: <Your Docker Hub username>/uloe-server:0.0.4
```

```
kubectl apply -f uloe-app.yml -n production
```

Get a list of Pods:

```
kubectl get pods -n production
```

Copy the name of one of the `uloe` deployment Pods and view its logs:

```
kubectl logs <Pod name> -n production -c uloe-server
```