VI. Processes with Stateless Containers

Relevant Documentation

- Twelve-Factor App: VI. Processes
- Security Context

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 VI-processes-start
```

Edit the app deployment YAML:

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

In the deployment Pod spec, add a new `emptyDir` volume under `volumes` :

```
    volumes:
    - name: added-items-log
      emptyDir: {}

    ...
```

Mount the volume to the server container:

```
    containers:

    ...

    - name: uloe-server
      ...

      volumeMounts:
      - name: added-items-log
        mountPath: /usr/src/app/added_items.log
        subPath: added_items.log
        readOnly: false

      ...
```

Make the container file system read only:

```
    containers:

    ...

    - name: uloe-server
      securityContext:
        readOnlyRootFilesystem: true

      ...
```

Deploy the changes:

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