[5] Side-car Container Pod □□

□□□ Pod□□ nginx □□□□□□ □□□□□ □□□□ □□.

□ □□□□□ varlog□□ □□□ □□□ □□□ □□□□□ □□□□ □□□ □ □□□ access.log, error.log□ □□□□ □□□. (read, write)

□□□ Pod□□ log □□ □□□□□□ □□□□□ □□ □ □□□□.

□ □□□□□ varlog □□□ □□□□□ □□□□ □□□ □ □□□ □□ access.log, error.log□ □□ □□□□. (read only)

□ □, □ log□□ □□□□□ side-car □□□□□□ □□ nginx □□□□□ main □□□□□□ □□ □ □□□ side-car container □□□□ □□.

□Side-car Container Pod

- An existing Pod needs to be integrated into the Kubernetes muilt-in logging architecture (e.g. kubectl logs).
  Adding a streaming sidecar container is a good and common way to accomplish this requirement.
- TASK
  - Add a sidecar container named `sidecar`, using the `busybox` image to the existing pod `eshop-cart-app`.
  - The new sidecar container has to run the following command: */bin/sh -c “tail -n+1 -F /var/log/cart-app.log”*
  - Use a volume, mounted at `/var/log`, to make the log file `cart-app.log` available to the sidecar container.
  - Don’t modify the cart-app.

Reference

docs□□ sidecar container □□

Logging Architecture

□□

```
# eshop-cart-app pod □□
[user@console ~]$ kubectl get pod eshop-cart-app

# □□ running □□ eshop-cart-app□□□ pod□ yaml □□□□ □□□ □ eshop.yaml □□□□□ □□□□ □□
[user@console ~]$ kubectl get pod eshop-cart-app -o yaml > eshop.yaml

[user@console ~]$ ls
eshop.yaml

# docs□ □□□ ex□ □□□ □□□ □□
# □□□ □□ □□□□ -> □□□ □□ □□□□□ □□□□□ □□□ □□ □□□□
# □□□□ □□□□ □□□ □□□□ □□.
# □, □□ □□□□ □□ yaml□□□□
# kind, metadata, spec □□□ □□□
# spec□□ containers□ □□ □□□ □□□□□ □□□□ □□

spec:
□containers:
□- command:
#□□□□□ □□□□ □□ □□□ □□□□
#volumeMouts, mountPath, name□ □□□□
#□□ □□□□□ (- command:)□ □□ □□ □□
□- name: sidecar
□  image: busybox
    args: [/bin/sh, -c, 'tail -n+1 -F /var/log/cart-app.log']
    volumeMounts:
    - name: varlog
      mountPath: /var/log

:wq

# □□□ □□ pod □□
[user@console ~]$ kubectl delete pod eshop-cart.app

# eshop.yaml □□□ □□□□ pod □□
[user@console ~]$ kubectl apply -f eshop.yaml

# □□□ pod □□
[user@console ~]$ kubectl get pods
```

```
# □□□□ □□□□ □ log□ □□□□ □□.
# sidecar □□ □□□ □□□□□ □□□ □□□□□□ □□
[user@console ~]$ kubectl logs eshop-cart-app -c sidecar
```

□□TIP!!

Pod YAML□□□ 2□□ □□□□□ □□ □□□ □□□□ □□.

□□□ main container□ □□ □□ (□□ □□)

□□□ □□□ side-car container□ □□ □□ (□□ □□)

□□□□ (62□)

An existing Pod needs to be integrated into the Kubernetes built-in logging architecture (e. g. kubectl logs).

Adding a streaming sidecar container is a good and common way to accomplish this requirement. Task: Add a sidecar container named sidecar, using the busybox Image, to the existing Pod bigcorp-app. The new sidecar container has to run the following command: */bin/sh -c tail -n+1 -f /var/log/big-corp-app.log* Use a Volume, mounted at /var/log, to make the log file big-corp-app.log available to the sidecar container.

Context: k8s

Don’t modify the specification of the existing container other than adding the required volume mount.

- □□

  ```
  kubectl config use-context k8s
  ```

  ```
  # bigcorp-app□□□ pod□ □□□ □□
  kubectl get pods
  ```

  ```
  kubectl get pod bigcorp-app -o yaml > bigcorp.yaml
  ```

```
vi bigcorp.yaml


...
spec:
  containers:
  ...
  - name: sidecar
    image: busybox
    args: [/bin/sh, -c, 'tail -n+1 -f /var/log/big-corp-app.log']
    volumeMounts:
    - name: varlog
      mountPath: /var/log
...


:wq
```

```
kubectl delete pod bigcorp-app
```

```
# yaml pod
kubectl apply -f bigcorp.yaml
```

```
# bigcorp-app pod sidecar
kubectl logs bigcorp-app -c sidecar
```

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