

[14] init container Pod

init container

docs init container

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init container is a container that runs before the main container.

init container runs before the main container and can be used to perform tasks like setting up the environment.

init container AWS user data

Tip!

init container CKA CKAD

Additional init container

- Add an init container to web-pod(which has been defined in spec file /data/cka/webpod.yaml)
- The init container should create an empty file named /workdir/data.txt
- If /workdir/data.txt is not detected, the Pod should exit.
- Once the spec file has been updated with the init container definition, the Pod should be created.



```
[user@console ~]$ vi /data/cka/webpod.yaml
```

```
apiVersion: v1
kind: Pod
metadata:
  name: web-pod
spec:
  containers:
  - image: busybox:1.28
    name: main
    command: ['sh', '-c', 'if [ !-f /workdir/data.txt ];then exit 1;else sleep 300;fi']
    volumeMounts:
    - name: workdir
      mountPath: "/workdir"
      # TODO: add permissions
  initContainers:
  - name: init
    image: busybox:1.28
    command: ['sh', '-c', "touch /workdir/data.txt"]
    volumeMounts:
    - name: workdir
      mountPath: "/workdir"
      # TODO: add permissions
  volumes:
  - name: workdir
    emptyDir: {}
```

```
:wq
```

```
[user@console ~]$ kubectl apply -f /data/cka/webpod.yaml
```

```
[user@console ~]$ kubectl get pods
```

```
web-pod 1/1 pod 1/1
```

Task (40%)

Perform the following tasks: Add an init container to hungry-bear (which has been defined in spec file /opt/KUCC00108/pod-spec-KUC C00108.yaml)

The init container should create an empty file named /workdir/calm.txt If /workdir/calm.txt is not detected, the pod should exit.

Once the spec file has been updated with the init container definition, the pod should be created

- 

```
vi /opt/KUCC00108/pod-spec-KUC C00108.yaml
```

```
apiVersion: v1
```

```
kind: Pod
```

```
metadata:
```

```
  name: hungry-bear
```

```
spec:
```

```
  volumes:
```

```
  - name: workdir
```

```
    emptyDir: {}
```

```
  containers:
```

```
  - image: alpine
```

```
    name: checker
```

```
    command: ["/bin/sh", "-c", "if [ -f /workdir/calm.txt ]; then sleep 100000; else exit 1; fi"]
```

```
    volumeMounts:
```

```
    - name: workdir
```

```
      mountPath: /workdir
```

```
  initContainers:
```

```
  - name: init-myservice
```

```
    image: alpine
```

```
    command: ["/bin/sh", "-c", "touch /workdir/calm.txt"]
```

```
    volumeMounts:
```

```
    - name: workdir
```

```
      mountPath: /workdir
```

```
:wq
```

```
kubectcl apply -f /opt/KUCC00108/pod-spec-KUC C00108.yaml
```

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