## **Init-Containers**

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## **Overview**

Create a manifest file for a Pod that contains one application container and two init containers.

```
cat > init-containers.yaml <<EOF</pre>
 apiVersion: v1
 kind: Pod
 metadata:
   name: myapp
   labels:
     app: myapp
 spec:
   containers:
   - name: myapp-container
     image: busybox
     command: ['sh', '-c', 'echo The app is running! && sleep 3600']
   initContainers:
   - name: init-myservice
     image: busybox
     command: ['sh', '-c', 'until nslookup myservice; do echo waiting for myservice; sleep 2; done;']
   - name: init-mydb
     image: busybox
     command: ['sh', '-c', 'until nslookup mydb; do echo waiting for mydb; sleep 2; done;']
 E0F
Create the Pod
 kubectl create -f init-containers.yaml
Verify the Pod is not ready.
 kubectl get pods -l app=myapp
```

Observe the logs within the first init container. nslookup will continue to run in this container until it can resolve myservice.

```
kubectl logs -f myapp -c init-myservice
```

Create a manifest file for the myservice Service.

```
cat > init-myservice.yaml <<EOF
kind: Service
apiVersion: v1
metadata:
   name: myservice
   labels:
      app: myapp
spec:
   ports:
      - protocol: TCP
      port: 80
      targetPort: 9376
EOF</pre>
```

Create the service.

```
kubectl create -f init-myservice.yaml
```

Observe the first init-container's logs again.

```
kubectl logs -f myapp -c init-myservice
```

Now that it can resolve the name, the second init-container has kicked off.

```
kubectl logs -f myapp -c init-mydb
```

Create a manifest file for mydb service.

```
cat > init-mydb.yaml <<EOF
kind: Service
apiVersion: v1
metadata:
   name: mydb
   labels:
     app: myapp
spec:
   ports:
     - protocol: TCP
     port: 80
     targetPort: 9377
EOF</pre>
```

Create the mydb service.

```
kubectl create -f init-mydb.yaml
```

Observe the second container's logs again.

```
kubectl logs -f myapp -c init-mydb
```

As soon as the name resolves, verify the primary container is running.

```
kubectl logs -f myapp -c myapp-container
```

## Clean Up

Delete the pod and services that we defined for the application.

```
kubectl delete pod,svc -l app=myapp
```

View any remaining resources.

```
kubectl get all
```