

## 159

### 99. Managing Application logs

various logging mechanisms in K8s

#### logging in Docker:-

⇒ I run a docker container called event-simulator  
all that it does is generate random events, simulating  
a web-server

```
> docker run kodekloud/event-simulator
```

```
2018-10-06 15:57:15,931 - root - INFO - USER1 logged in
USER2 logged out
USER2 is viewing page 2
USER3 is viewing page 3
USER4 is viewing page 1
USER2 logged out
USER logged in
```

These are events streamed to the standard output  
by the application

⇒ Now, if I were to run the Docker container in the  
background in a detached mode using the `-d` option,  
I won't see the logs

⇒ If I wanted to view the logs, I could use the  
`docker logs` command followed by the container id,  
The `-f` option helps us see the live log trail.

```
> docker logs -f ecf
```



## Logs - Kubernetes

We create a pod with the same Docker Image using the pod-definition file

### event-simulator.yaml

apiVersion: v1

kind: Pod

metadata:

name: event-simulator-pod

spec:

containers:

- name: event-simulator

image: kodekloud/event-simulator

> kubectl create -f event-simulator.yaml

> kubectl logs -f event-simulator.yaml

⇒ Once the pod is running, we can view the logs this command, we use the -f option to stream the log's file

⇒ These logs are specific to the container running inside the pod

We know that

K8S pods can have multiple docker images in them

### Event-simulator.yaml

apiVersion: v1

kind: Pod

metadata:

name: event-simulator-pod

spec:

containers:

- name: event-simulator

image: kodekloud/event-simulator

- name: image-processor

image: some-image-processor

```
>kubectl logs -f event-simulator-pod
```

⇒ If there are multiple containers within a pod, you must specify the name of the container explicitly in the command like above [event-simulator-pod]

⇒ Otherwise, it will yell asking you to specify a name

```
>kubectl logs -f event-simulator-pod event-simulator
```

In the above command, I will specify the name of the first container event-simulator & that prints the relevant log messages