

Logging

1. Introduction

- useful for debugging
- to see what's going on inside the containers

2. Creating a pod

- that writes to stdout and stderr

```
hadoop@k8s-00:~$ kubectl create -f https://raw.githubusercontent.com/mhausenblas/kbe/master/specs/logging/pod.yaml
pod "logme" created
```

3. To view the 5 most recent logs use

```
hadoop@k8s-00:~$ kubectl logs --tail=5 logme -c gen
Mon Jun 18 05:42:04 UTC 2018
Mon Jun 18 05:42:05 UTC 2018
Mon Jun 18 05:42:05 UTC 2018
Mon Jun 18 05:42:06 UTC 2018
Mon Jun 18 05:42:06 UTC 2018
```

where **-tail=n** specifies the **n** recent logs

- **-since=n secs** option, which is used to see the log details since the last **n** seconds

```
hadoop@k8s-00:~$ kubectl logs -f --since=10s logme -c gen
Mon Jun 18 05:45:59 UTC 2018
Mon Jun 18 05:45:59 UTC 2018
Mon Jun 18 05:46:00 UTC 2018
Mon Jun 18 05:46:00 UTC 2018
Mon Jun 18 05:46:01 UTC 2018
Mon Jun 18 05:46:01 UTC 2018
Mon Jun 18 05:46:02 UTC 2018
```

- to view the logs on the containers that have already completed their tasks, we can do follows
- create a pod **oneshot**

```
hadoop@k8s-00:~$ kubectl create -f https://raw.githubusercontent.com/mhausenblas/kbe/master/specs/logging/oneshotpod.yaml
```

```
pod "oneshot" created
```

- we can see that the pod has completed it's task

```
hadoop@k8s-00:~$ kubectl get pods
```

NAME	READY	STATUS	RESTARTS	AGE
badpod	0/1	CrashLoopBackOff	15	39m
hc	1/1	Running	0	45m
logme	1/1	Running	0	8m
oneshot	0/1	Completed	3	51s
ready	1/1	Running	0	33m

- still we can get the logs of the completed tasks as follows

```
hadoop@k8s-00:~$ kubectl logs -p oneshot -c gen
```

```
9
8
7
6
5
4
3
2
1
```