

Section 6. „Pod Controllers Part 1 – Introduction and ReplicaSet”

Links:

<https://github.com/pythonincontainers/k8s-controllers>

Commands:

```
$ git clone https://github.com/pythonincontainers/k8s-controllers
$ cd k8s-controllers
$ atom .
$ kubectl apply -f single-pod/just-a-pod.yml
$ kubectl get pod
$ kubectl get namespace
$ kubectl get pod --namespace kube-system
$ kubectl describe pod my-pod
$ kubectl get pods -o yaml my-pod
$ kubectl apply -f single-pod/tester.yml
$ kubectl get pods -o wide
$ kubectl exec -it tester curl 172.17.0.5:5000 # Update IP address of a Pod
$ kubectl apply -f single-pod/just-a-service.yml
$ kubectl get service
$ kubectl describe service just-a-service
$ kubectl exec -it tester curl just-a-service:5000
$ kubectl delete pod my-pod
$ kubectl get pod
```

Python in Containers Course Materials

```
$ kubectl describe service just-a-service
$ kubectl exec -it tester curl just-a-service:5000
$ kubectl delete service just-a-service
$ kubectl delete pod tester
$ kubectl apply -f ReplicaSet/rs.yml
$ kubectl get replicaset -o wide
$ kubectl describe replicaset my-rs
$ kubectl get pod -o wide
$ kubectl delete pod my-rs-... # Update Pod name
$ kubectl get pod -o wide
$ kubectl delete replicaset my-rs
$ kubectl get pod -o wide
$ kubectl apply -f ReplicaSet/adopted-pod.yml
$ kubectl get pod
$ kubectl apply -f ReplicaSet/rs.yml
$ kubectl get pod -o wide
$ kubectl apply -f ReplicaSet/rs-service.yml
$ kubectl apply -f ReplicaSet/rs-ingress.yml
$ kubectl delete ingress rs-ingress
$ kubectl delete service rs-service
$ kubectl delete rs my-rs
```