THE LINUX FOUNDATION | Education

Exercise 10.4: Use Labels to Manage Resources

1. Try to delete all Pods with the `system=secondary` label, in all namespaces.

```
student@cp:~$ kubectl delete pods -l system=secondary \
          --all-namespaces
```

```
pod "nginx-one-74dd9d578d-fcpmv" deleted
pod "nginx-one-74dd9d578d-sts5l" deleted
```

2. View the Pods again. New versions of the Pods should be running as the controller responsible for them continues.

```
student@cp:~$ kubectl -n accounting get pods
```

```
NAME                         READY     STATUS    RESTARTS   AGE
nginx-one-74dd9d578d-ddt5r   1/1       Running   0          1m
nginx-one-74dd9d578d-hfzml   1/1       Running   0          1m
```

3. We also gave a label to the deployment. View the deployment in the accounting namespace.

```
student@cp:~$ kubectl -n accounting get deploy --show-labels
```

```
NAME       READY  UP-TO-DATE  AVAILABLE  AGE  LABELS
nginx-one  2/2    2           2          10m  system=secondary
```

4. Delete the deployment using its label.

```
student@cp:~$ kubectl -n accounting delete deploy -l system=secondary
```

```
deployment.apps "nginx-one" deleted
```

5. Remove the label from the secondary node. Note that the syntax is a minus sign directly after the key you want to remove, or `system` in this case.

```
student@cp:~$ kubectl label node worker system-
```

```
node/worker unlabeled
```