## **Labels and Selectors**

Labels are the mechanism you use to organize Kubernetes objects. A label is a key-value pair with certain restrictions concerning length and allowed values but without any pre-defined meaning.

Let's create a pod that initially has one label (env=development):

```
kubectl create -f https://raw.githubusercontent.com/mhausenblas/kbe/mast
er/specs/labels/pod.yaml
pod "labelex" created
kubectl get pods --show-labels
NAME
                                        READY
                                                  STATUS
                                                                       RES
TARTS
        AGE
                  LABELS
labelex
                                        0/1
                                                  ContainerCreating
        26s
                  env=development
```

You can add a label to the pod as:

To use a label for filtering, for example to list only pods that have an owner that equals michael, use the --selector option.

The --selector option can be abbreviated to -1

```
kubectl get pods--selector owner=admaticNAMEREADYSTATUSRESTARTSAGElabelex1/1Running05mkubectl get pods-1env=development
```

NAME	READY	STATUS	RESTARTS	AGE
labelex	1/1	Running	0	6m

Kubernetes objects also support set-based selectors.

kubectl get pods -l 'env in (production, development)'NAMEREADYSTATUSRESTARTSAGElabelex1/1Running06m