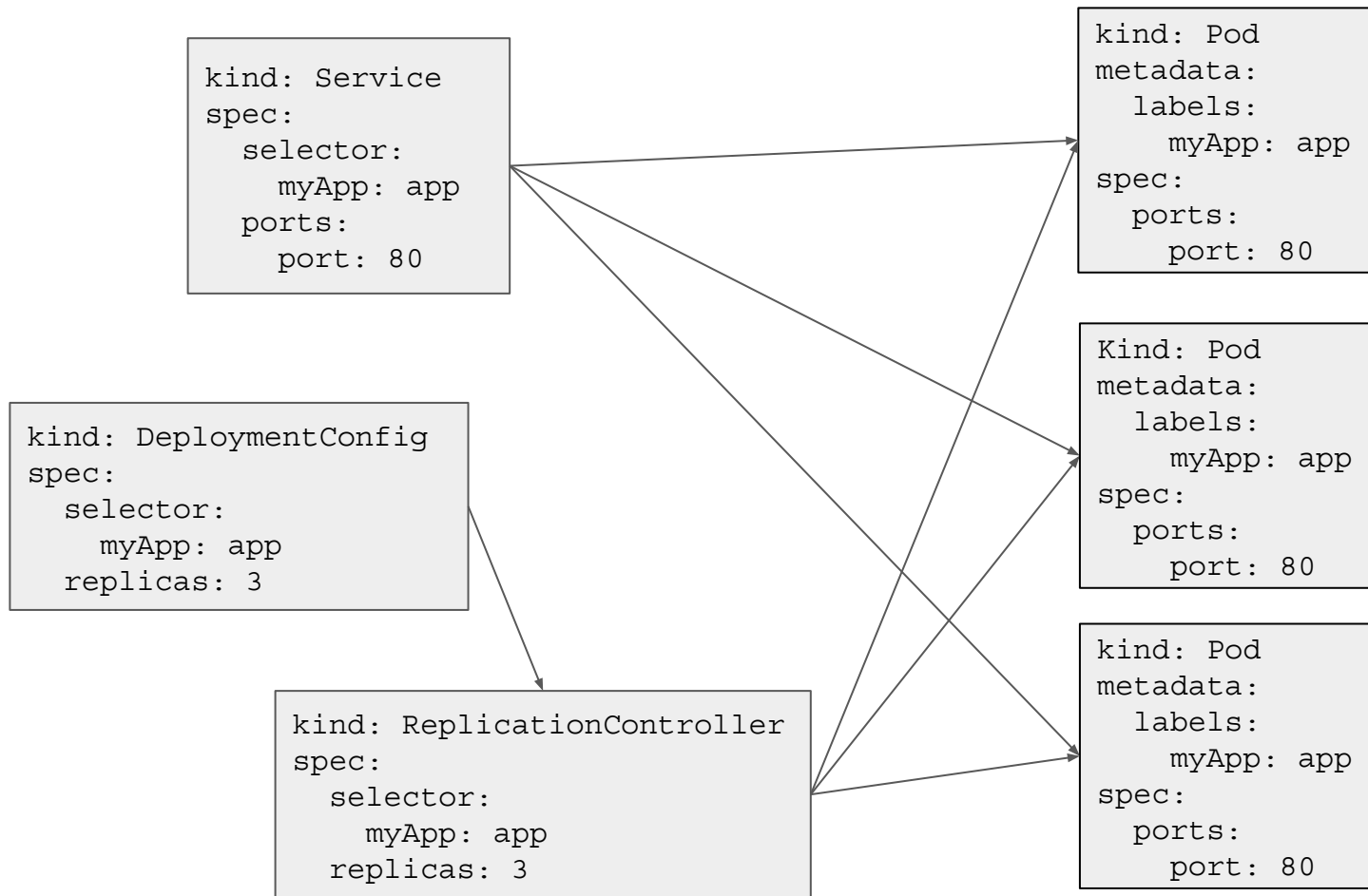




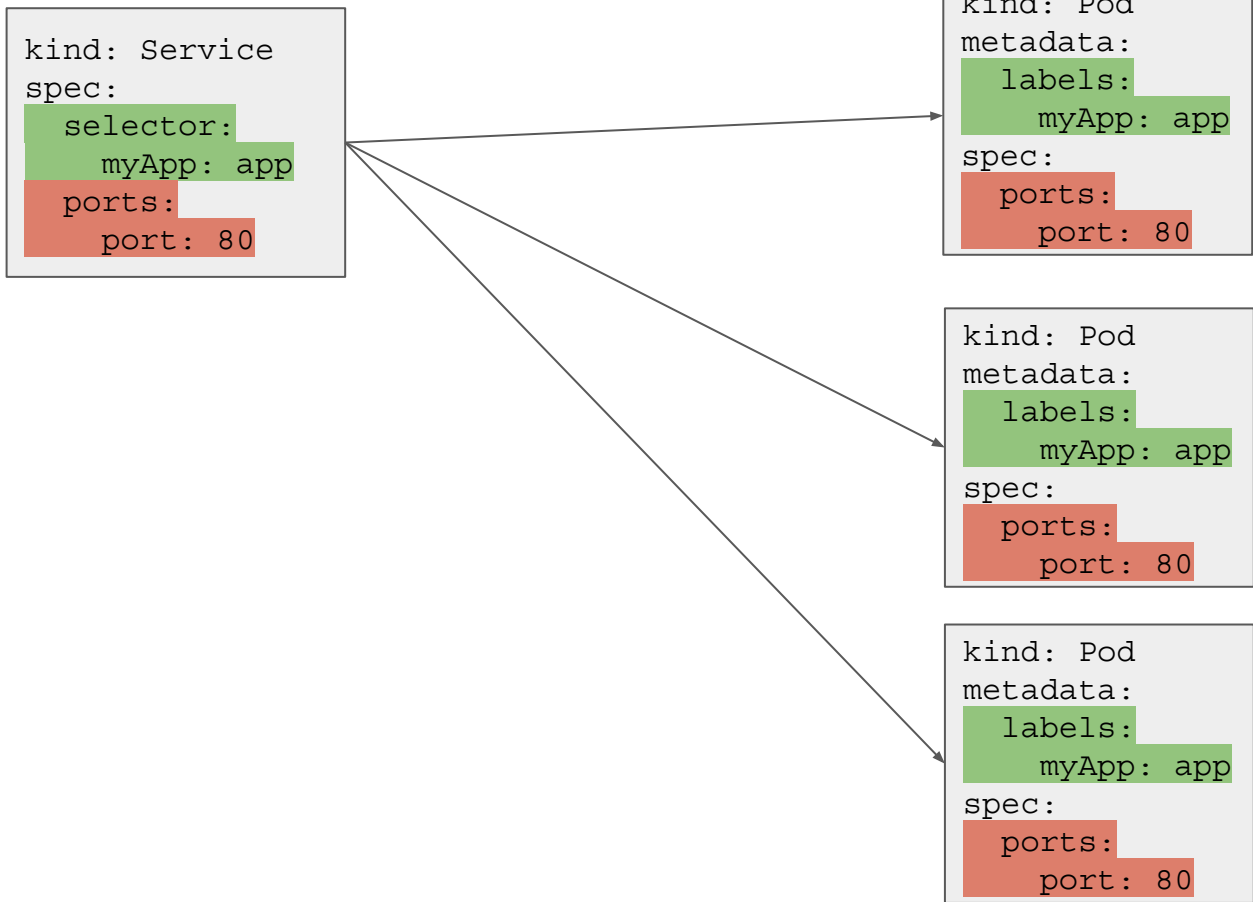
LAB 4

OpenShift

Peter Schiffer
Jan Wozniak



```
kind: Service
spec:
  selector:
    myApp: app
  ports:
    port: 80
```



A diagram illustrating the relationship between a Service and Pods in Kubernetes. On the left, a Service object is shown with a selector 'myApp: app' and a port '80'. Three arrows originate from the Service object and point to three separate Pod objects on the right. Each Pod object has the same labels 'myApp: app' and port '80', indicating that the Service is routing traffic to all Pods in the cluster that match the selector.

```
kind: Pod
metadata:
  labels:
    myApp: app
spec:
  ports:
    port: 80
```

```
kind: Pod
metadata:
  labels:
    myApp: app
spec:
  ports:
    port: 80
```

```
kind: Pod
metadata:
  labels:
    myApp: app
spec:
  ports:
    port: 80
```

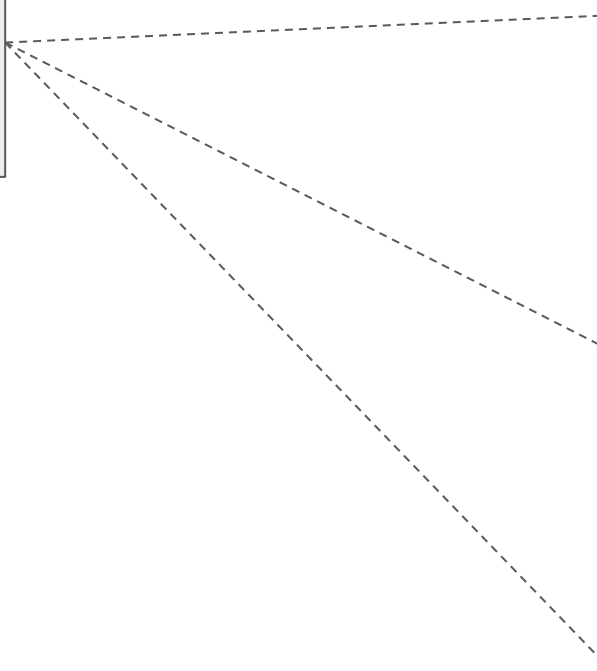
```
kind: Service
spec:
  selector:
    myApp: app
  ports:
    port: 80
```

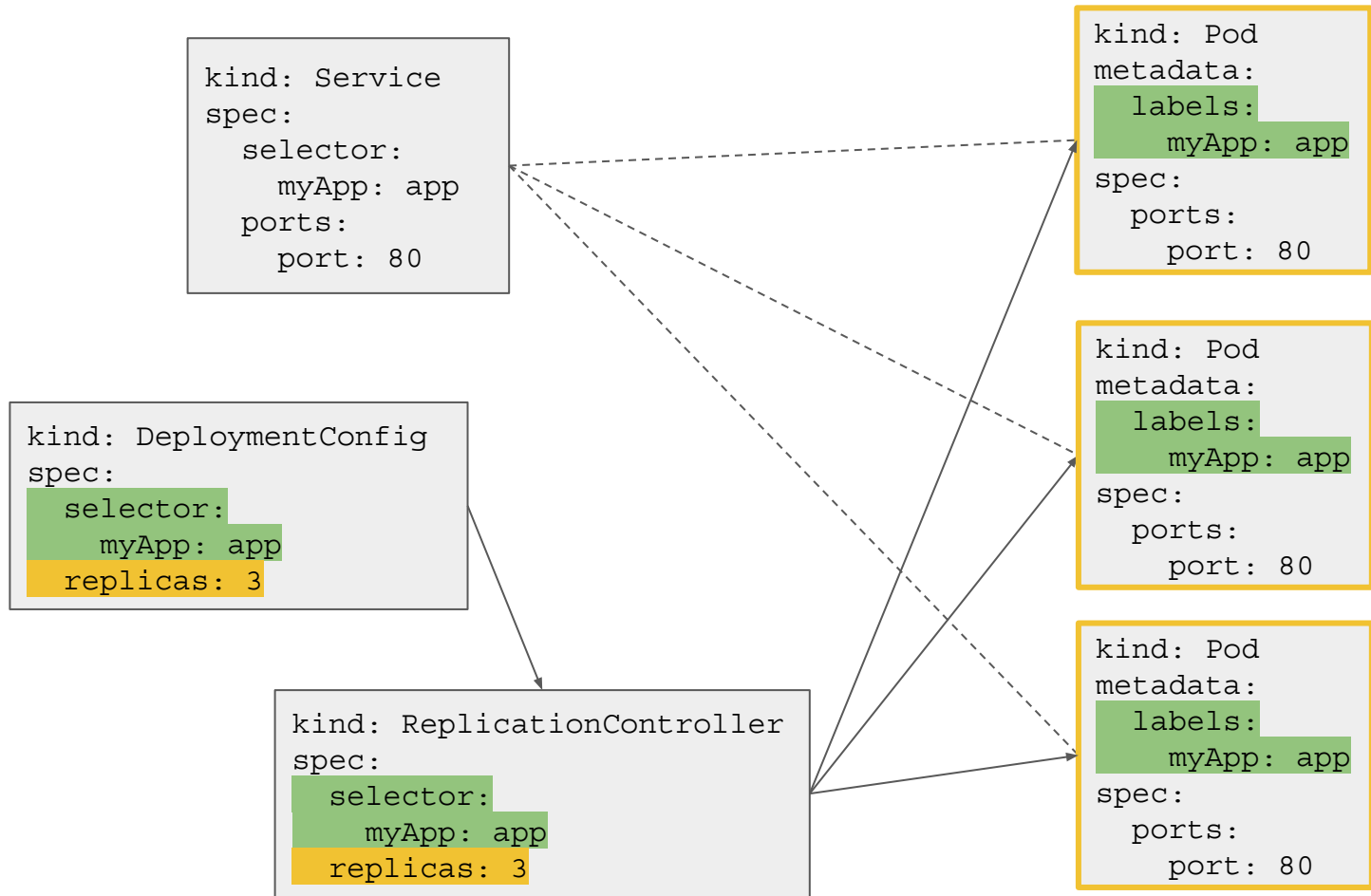
```
kind: DeploymentConfig
spec:
  selector:
    myApp: app
  replicas: 3
```

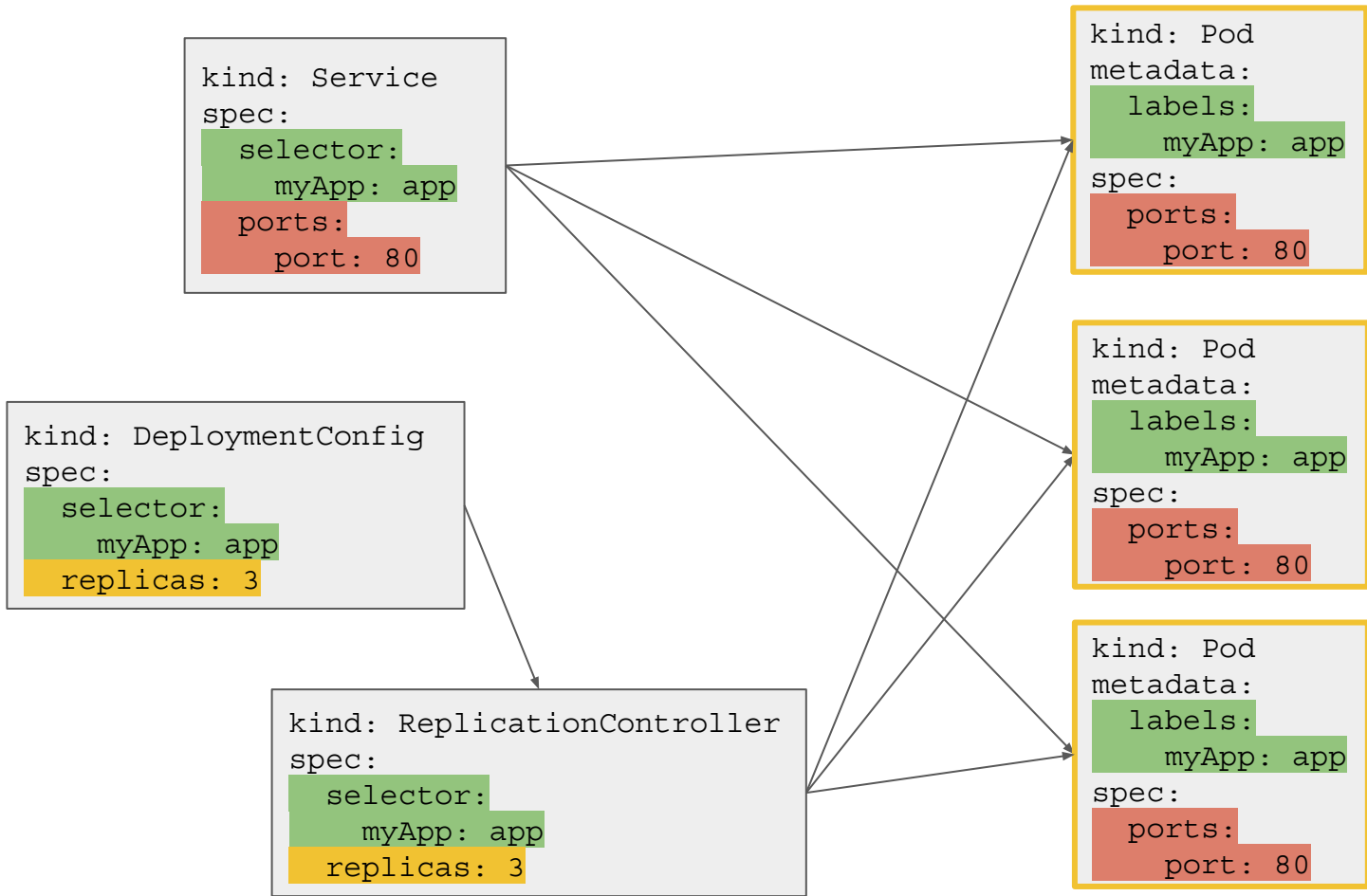
```
kind: Pod
metadata:
  labels:
    myApp: app
spec:
  ports:
    port: 80
```

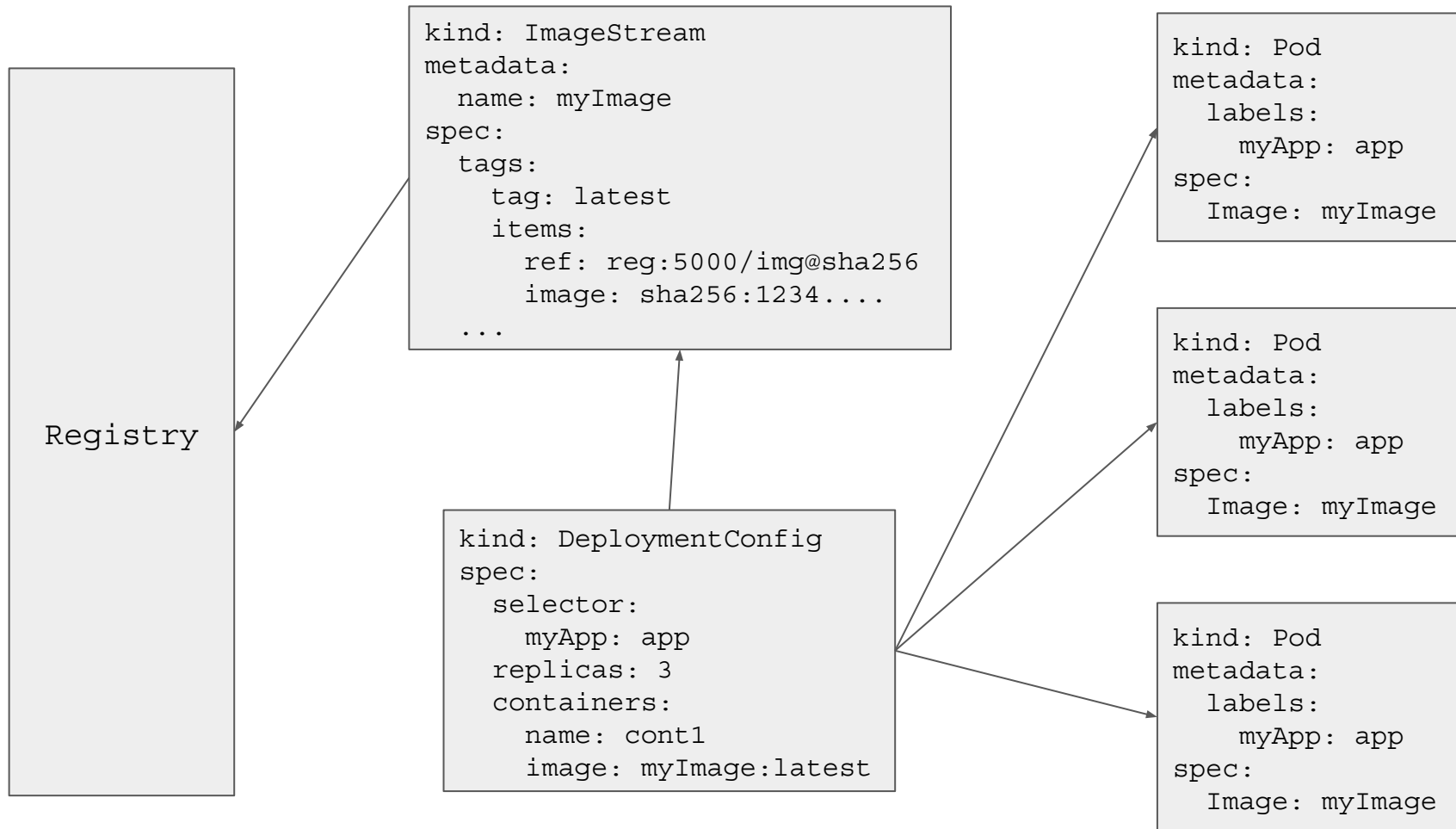
```
kind: Pod
metadata:
  labels:
    myApp: app
spec:
  ports:
    port: 80
```

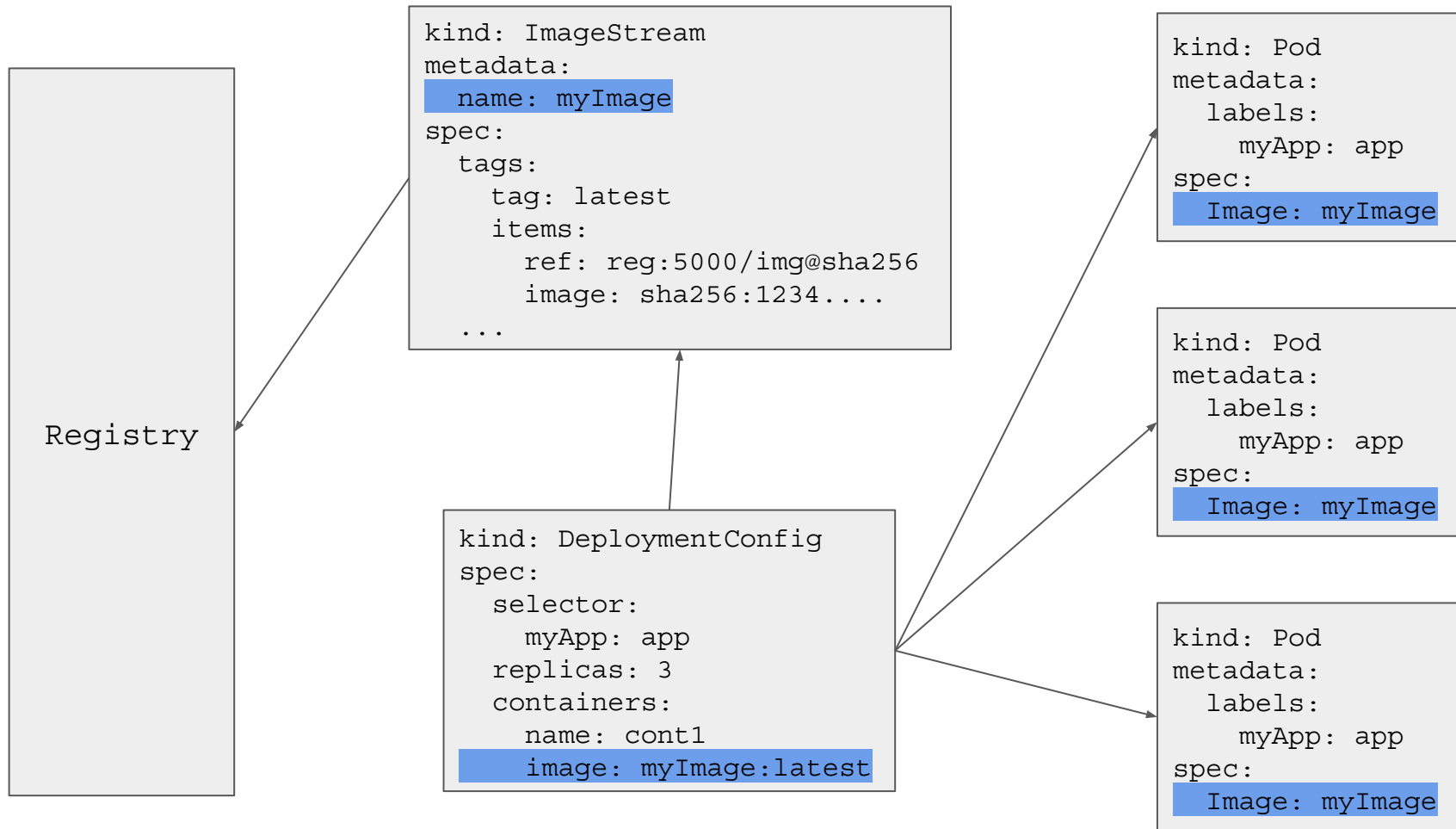
```
kind: Pod
metadata:
  labels:
    myApp: app
spec:
  ports:
    port: 80
```













```
kind: ImageStream
metadata:
  name: myImage
spec:
  tags:
    tag: latest
  items:
    ref: reg:5000/img@sha256
    image: sha256:1234....
```

A horizontal arrow points from the right side of the ImageStream manifest box to the left side of the DeploymentConfig manifest box, indicating that the DeploymentConfig depends on the ImageStream.

```
kind: DeploymentConfig
spec:
  selector:
    myApp: app
  replicas: 3
  containers:
    name: cont1
    image: myImage:latest
  triggers:
    type: ImageChange
```

```
$ oc import-image reg:5000/img:abc myImage
```

```
# reg:5000/img:abc -> sha256: XYZ
```

```
kind: ImageStream
metadata:
  name: myImage
spec:
  tags:
    tag: latest
  items:
    ref: reg:5000/img@sha256
    image: sha256:XYZ
```

```
kind: DeploymentConfig
spec:
  selector:
    myApp: app
  replicas: 3
  containers:
    name: cont1
    image: myImage:latest
  triggers:
    type: ImageChange
```

github.com/pschiffe/cloud2