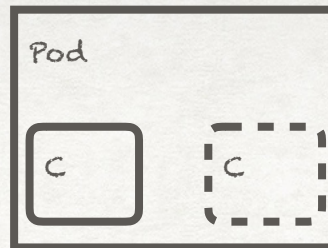


# OPENSIFT RESOURCE TYPES

By Kelvin Lai



# Pod, Service & Route:



```
{
  "kind": "Pod",
  "apiVersion": "v1",
  "metadata": {
    "name": "podName",
    "labels": {
      "name": "podLabel"
    }
  },
  "spec": {
    "containers": [
      {
        "name": "conName",
        "image": "registry/image-name",
        "ports": [
          {
            "containerPort": 8080
          }
        ]
      }
    ]
  }
}
```

```
{
  "kind": "Service",
  "apiVersion": "v1",
  "metadata": {
    "name": "serviceName"
  },
  "spec": {
    "ports": [
      {
        "port": 12345,
        "targetPort": 8080
      }
    ],
    "selector": {
      "name": "podLabel"
    }
  }
}
```

```
{
  "kind": "Route",
  "apiVersion": "v1",
  "metadata": {
    "name": "routeName"
  },
  "spec": {
    "host": "appName.cloudName.com",
    "to": {
      "kind": "Service",
      "name": "serviceName"
    }
  }
}
```

External Network



# Persistent Storage:

```
{
  "kind": "PersistentVolume",
  "apiVersion": "v1",
  "metadata": {
    "name": "pvName",
    "labels": {
      "volType": "ssd"
    }
  },
  "spec": {
    "capacity": {
      "storage": "2Gi"
    },
    "accessModes": [ "ReadWriteMany" ],
    "nfs": {
      "path": "/path/exportName",
      "server": "hfs.example.com"
    }
  }
}
```

Matches all labels

ReadWriteOnce  
ReadWriteMany  
ReadOnlyMany

```
{
  "kind": "PersistentVolumeClaim",
  "apiVersion": "v1",
  "metadata": {
    "name": "pvcName"
  },
  "spec": {
    "accessModes": [ "ReadWriteMany" ],
    "resources": {
      "requests": {
        "storage": "2Gi"
      }
    },
    "selector": {
      "matchLabels": {
        "volType": "ssd"
      }
    }
  }
}
```

```
{
  "kind": "Pod",
  "apiVersion": "v1",
  "metadata": {
    "name": "podName",
    "labels": {
      "name": "podLabel"
    }
  },
  "spec": {
    "containers": [
      {
        "name": "conName",
        "image": "registry/image-name",
        ...
        "volumeMounts": [
          {
            "name": "volName",
            "mountPath": "/local/path"
          }
        ]
      }
    ],
    "volumes": [
      {
        "name": "volName",
        "persistentVolumeClaim": {
          "claimName": "pvcName"
        }
      }
    ]
  }
}
```

Project