Kubernetes Cheat Sheet

ThoughtWorks

kubectl create commands

// create a pod from image with deployment
```
kubectl run ubuntu --image=ubuntu
```
// create an object from a manifest
```
kubectl create -f nginx-pod.yaml
```

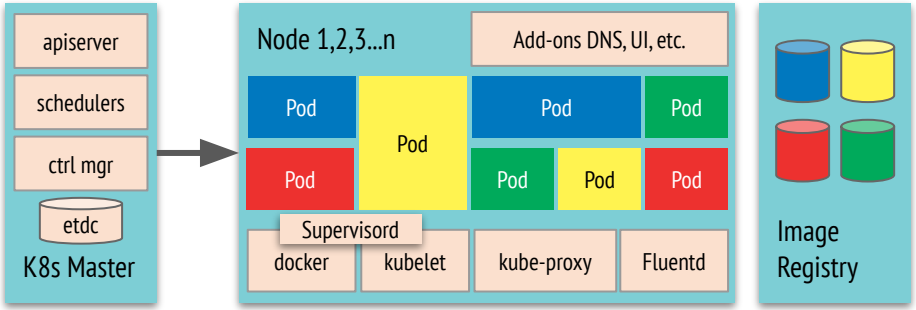
kubectl basic object commands

```
kubectl <command> <object>
```
common commands are **get, describe, delete**
common objects are **pod, service, deployment**

```
kubectl get pods -n=kube-system // list all pods
kubectl describe pod nginx // describe a pod
kubectl delete pod nginx // destroy a pod
```

kubectl troubleshooting commands

// get into the container running in pod nginx-hlb
```
kubectl exec -it nginx-hlb /bin/sh
```
// get logs of container running in pod nginx-hlb
```
kubectl logs -f nginx-hlb
```



kubectl deployment commands

// undo, pause & resume rolling updates
```
kubectl rollout [undo|pause|resume] deploy nginx
```
// scale replicasets to 3 pods
```
kubectl scale rs nginx --replicas=3
```

k8s object manifest

```
apiVersion: apps/v1
kind: Deployment  // object type
metadata:
  name: my-nginx  // name of the deployment
spec:
  replicas: 3  // no of pods in cluster
  selector:
    matchLabels:
      app: nginx  // find matching labels to create cluster
  template:
    metadata:
      labels:
        app: nginx  // labels used for matching
    spec:
      containers:
      - name: nginx-hlb
        image: nginx:1.7.9  // image name with tag
        ports:
        - containerPort: 80  // port to be exposed
```