**Metrics-server**

command:

- /metrics-server

- --kubelet-insecure-tls

**1.1.部署带有资源请求的Deployment**

原生的只支持CPU

# 编写Deployment

apiVersion: apps/v1

kind: Deployment

metadata:

name: damon

labels:

app: nginx

spec:

replicas: 1

selector:

matchLabels:

app: nginx-pod

template:

metadata:

labels:

app: nginx-pod

spec:

containers:

- name: nginx

image: nginx:1.9.0

imagePullPolicy: IfNotPresent

ports:

- containerPort: 80

resources:

requests:

cpu: "100m"

kubectl expose deployment damon

**3. 创建HPA**

kubectl autoscale deployment damon --max=10 --min=1 --cpu-percent=80

**4. 增加cpu负载验证pod是否扩容**

watch -n1 'kubectl top pod && kubectl get hpa && kubectl get pod'

# 安装压力测试工具WebBench

yum -y install gcc

git clone <https://github.com/EZLippi/WebBench.git>

cd WebBench

make ; make install

# 压力测试,递增的扩容，并不是一次扩容到最大值

webbench -c 1000 -t 60 http://10.43.77.199/

watch -n1 'kubectl get hpa && kubectl top pod && kubectl get pod'

kubectl top node

kubectl cluster-info

kubectl get componentstatuses

kubectl -n kube-system get pod

维护和应用迁移

drain node --ignore-daemon-set --delete...

<https://github.com/kubernetes-sigs/metrics-server/tree/master/manifests/base>