



kubernetes

入门介绍

what is kubernetes?

kubernetes是谷歌开源的开源容器管理系统

- docker
- containerd
- Kata Containers
- 等兼容 Kubernetes 的 CRI (Container Runtime Interface) 接口的容器

kubernetes installation

两种安装方式

- 全手动安装

 - etcd docker kubernetes flannel (kubernetes-dashboard)

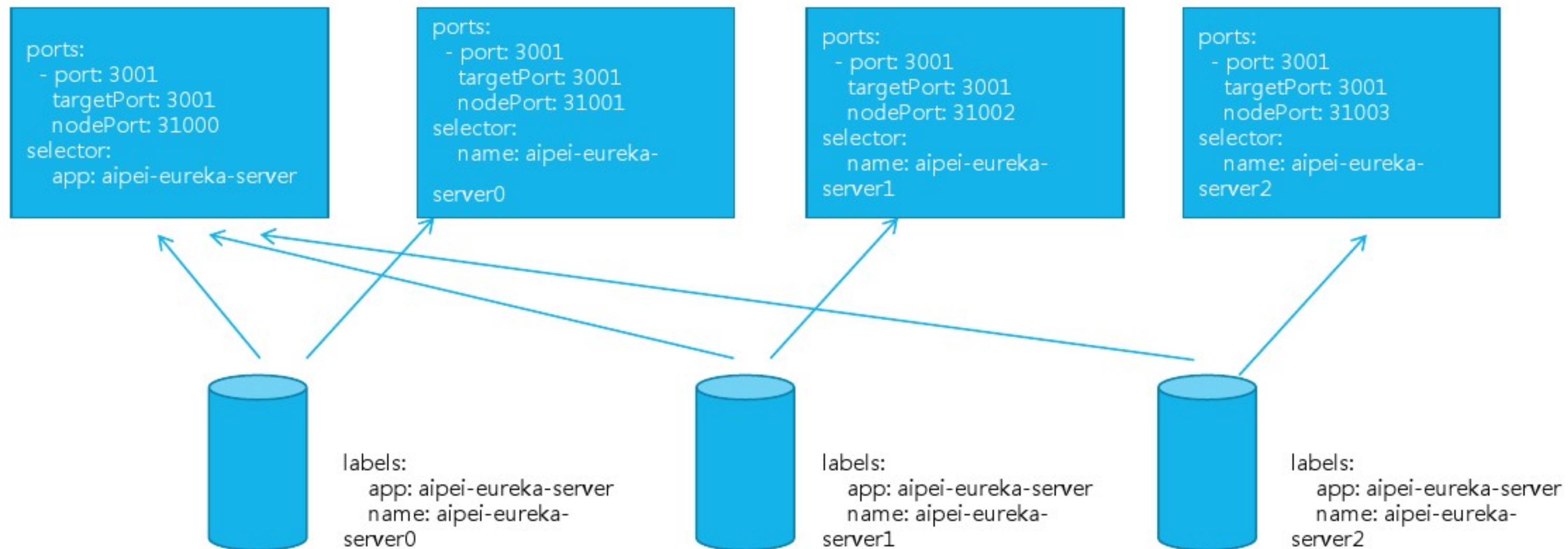
- 自动安装

 - <https://github.com/zhuchuangang/k8s-install-scripts>

very important conception

- Pod
- Node
- Namespace
- Service
- Replication Controller(RC)
- Deployment
- Job
- StatefulSet

Demo



Rolling-update

- Deployment

```
kubectl set image deployment/review-demo review-demo=library/review-demo:0.0.1
```

```
--namespace=scm
```

```
kubectl edit deployment/review-demo --namespace=scm
```

- Replication controller

```
kubectl rolling-update rc-demo-nginx-v0.1 --update-period=10s -f rc-demo-  
v0.2.yaml
```

```
kubectl rolling-update frontend --image=image:v2
```

Limit&AutoScale

apiVersion: v1

kind: Pod

metadata:

 name: limit

spec:

 containers:

 - name: web

 image: nginx

 resources:

 limits:

 cpu: 100m

 memory: 500Mi

- `kubectl scale --replicas=3 rs/foo`
- `kubectl scale --current-replicas=2 --replicas=3 deployment/mysql`
- `kubectl autoscale deployment php-apache --cpu-percent=80 --min=1 --max=10`

QA





thank you

