（一）Kubernetes弹性扩缩容实践

2018-11-12

操作步骤

1. 登录容器服务控制台，首先创建一个应用部署，选择使用模板创建，模板内容如下：

```yaml
apiVersion: apps/v1beta1
kind: Deployment
metadata:
  name: php-apache
  labels:
    app: php-apache
spec:
  replicas: 1
  selector:
    matchLabels:
      app: php-apache
  template:
    metadata:
      labels:
        app: php-apache
    spec:
      containers:
      - name: php-apache
        image: registry.cn-hangzhou.aliyuncs.com/ringtail/hpa-example:v1.0
        ports:
        - containerPort: 80
        resources:
          requests:
            memory: "300Mi"
            cpu: "250m"
---
apiVersion: v1
kind: Service
metadata:
  name: php-apache
  labels:
    app: php-apache
spec:
  selector:
    app: php-apache
  ports:
  - protocol: TCP
    name: http
    port: 80
    targetPort: 80
  type: ClusterIP
```

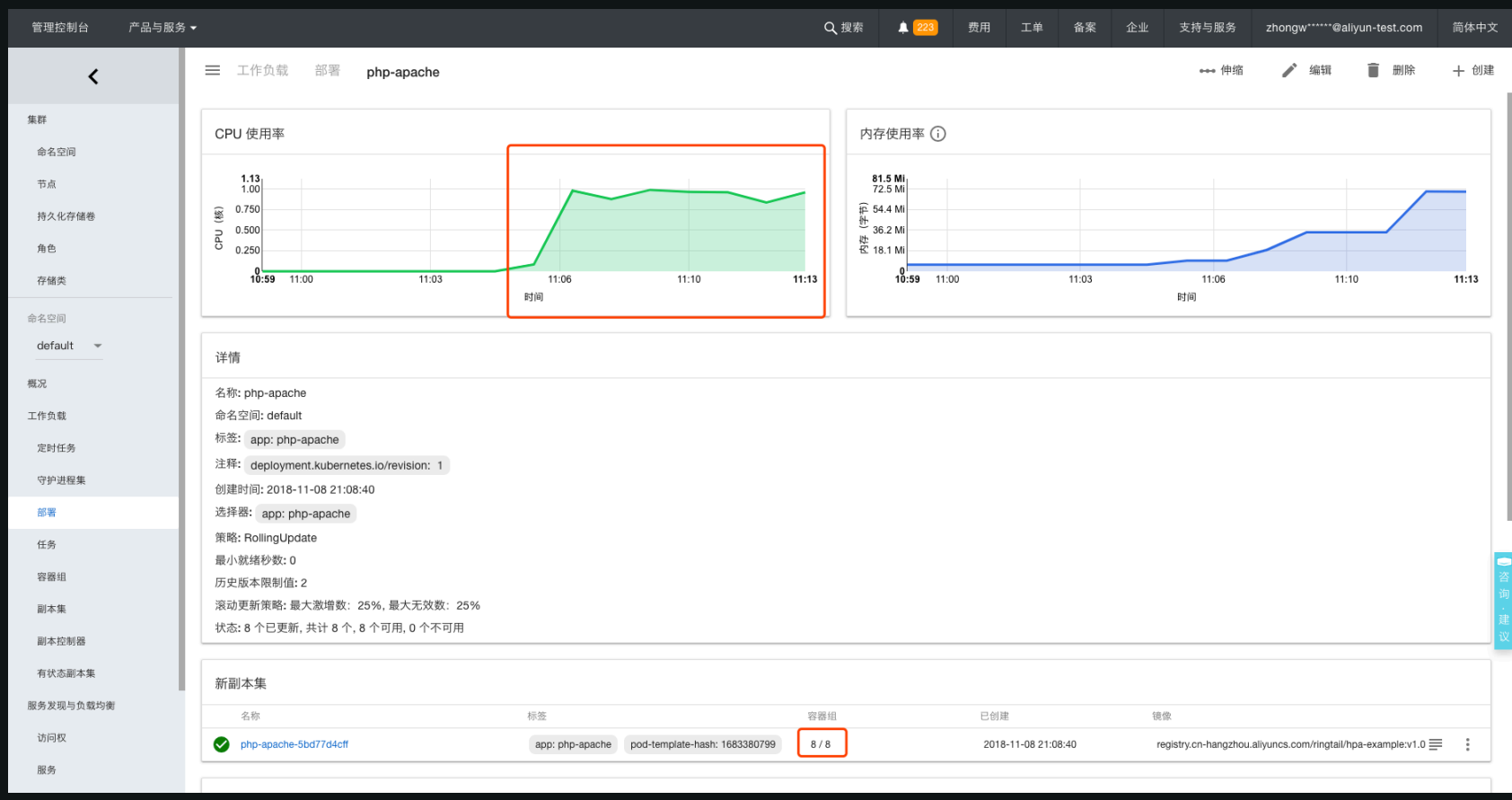
2. 部署压测模组HPA模板

```yaml
apiVersion: autoscaling/v1
kind: HorizontalPodAutoscaler
metadata:
  name: php-apache
  namespace: default
spec:
  scaleTargetRef:
    apiVersion: apps/v1beta1
    kind: Deployment
    name: php-apache
  minReplicas: 1
  maxReplicas: 10
  targetCPUUtilizationPercentage: 50
```

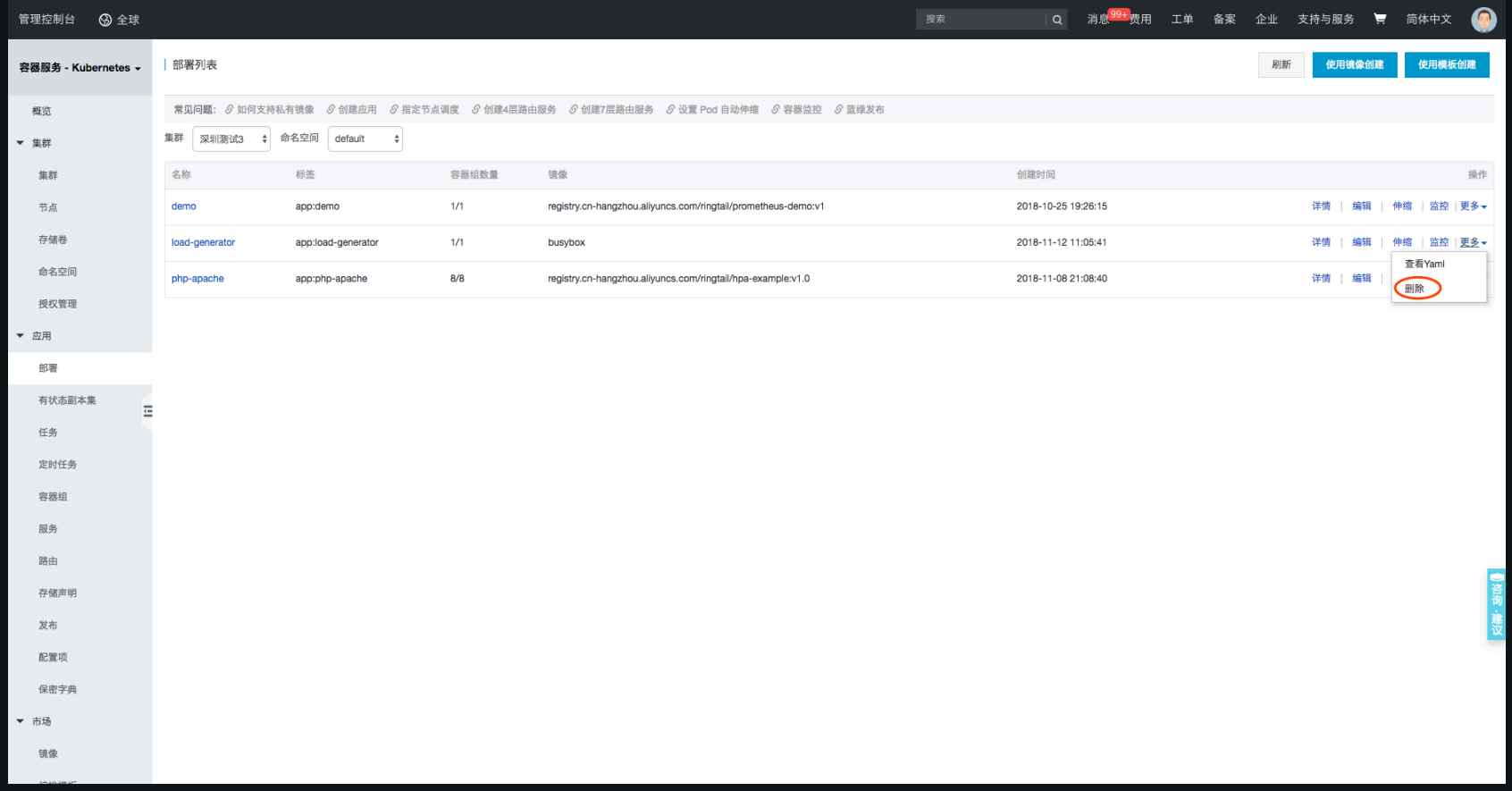
3. 开启压力测试

```yaml
apiVersion: apps/v1beta1
kind: Deployment
metadata:
  name: load-generator
  labels:
    app: load-generator
spec:
  replicas: 1
  selector:
    matchLabels:
      app: load-generator
  template:
    metadata:
      labels:
        app: load-generator
    spec:
      containers:
      - name: load-generator
        image: busybox
        command:
          - "sh"
          - "-c"
          - "while true; do wget -q -O- http://php-apache.default.svc.cluster.local; done"
```

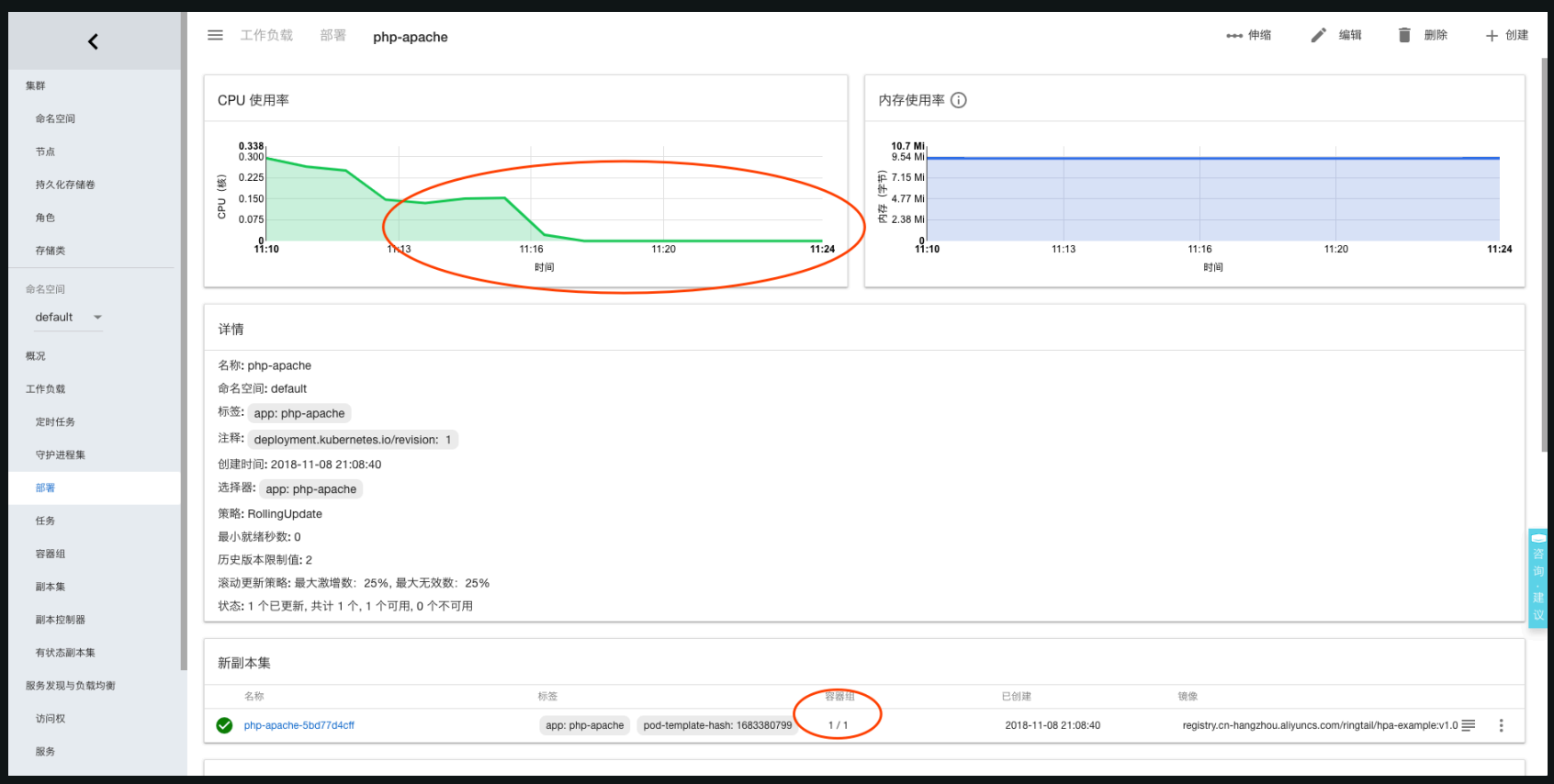
4. 检查扩容状态



5. 关闭压测应用



6. 检查缩容状态



About

This theme was developed by Jonathan Klughertz. The source code is available on Github. Create Websites. Make Magic.

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