k8s-7、k8s+springboot项目升级,降级

笔记本: <Inbox>

创建时间: 2020/4/3 12:02 **更新时间**: 2020/4/3 13:47

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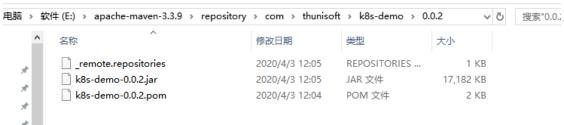
(1) 首先搭建在k8s上搭建完springBoot项目

(2) 创建一个v0.0.2版本的springBoot项目,将pom中的版本升高一级

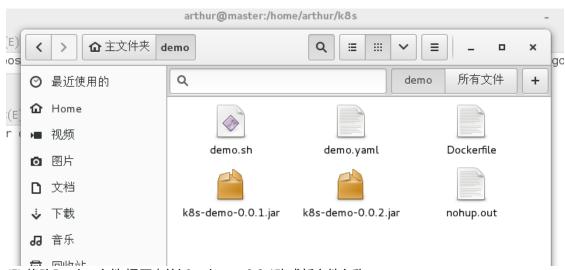
```
0 1 <?xml version="1.0" encoding="UTF-8"?>
 20roject xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
       xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 https://maven.apache.org/xsd/maven-4.0.0.xsd">
        <modelVersion>4.0.0</modelVersion>
 6
            <groupId>org.springframework.boot</groupId>
            <artifactId>spring-boot-starter-parent</artifactId>
 8
            <version>2.2.5.RELEASE
 9
           <relativePath/>
 10
        </parent>
        <groupId>com.thunisoft</groupId>
11
        <artifactId>k%s demo</artifactId>
 13
        <version>0.0.2
15
        <description>Demo project for Spring Bopt</description>
```

(3) 创建出来新的jar包

查看



(4) 将jar包放到虚拟机demo问价夹中



(5) 修改Docker文件,把原来的k8s-demo-0.0.1改成新文件名称



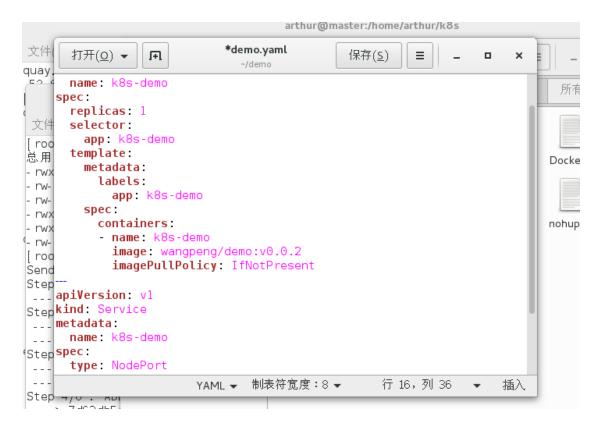
(6) 直接docker命令,创建镜像文件

```
docker build -t wangpeng/demo:v0.0.2 .
```

创建成功

```
2375 4月
                                          2 19:34 nohup.out
- rw-----. 1 root
                     root
[root@master demo] # docker build - t wangpeng/demo: v0.0.2 .
Sending build context to Docker daemon 35.2MB
Step 1/6 : FROM java:8
 ---> d23bdf5b1b1b
Step 2/6: MAINTAINER wangpeng
 ---> Using cache
 ---> ecc6081 aa32d
Step 3/6 : VOLUME /tmp
 ---> Using cache
 --->5 f461 9754 ad2
Step 4/6 : ADD k8s-demo-0.0.2.jar demo.jar
--- > 7d63db54ef82
Step 5/6 : EXPOSE 8999
---> Running in cce5a6302e5a
Removing intermediate container cce5a6302e5a
 ---> b1 a1 95 d51 e3 b
Step 6/6 : ENTRYPOINT ["java","-jar","/demo.jar"]
 ---> Running in c1b0a8d3c5ba
Removing intermediate container c1b0a8d3c5ba
 --->6138b6b58a92
Successfully built 6138b6b58a92
Successfully tagged wangpeng/demo:v0.0.2
| root@master demo|#
```

(7) 修改demo.yaml文件,修改镜像名称



(8) 执行项目升级命令

查询镜像命令 docker images

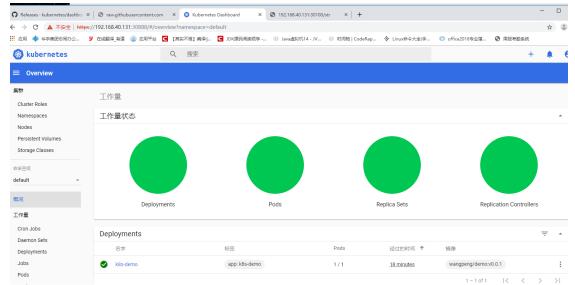




创建一个deployment 命令: kubectl create deployment [部署名称] --image=[镜像名称]:[版本号]

```
kubectl create deployment k8s-demo --image=wangpeng/demo:v0.0.1
```

在页面查看 deployment k8s-demo



点击右侧编辑发现,创建出来的容器名称和k8s-demo不符合,可以在网页上直接修改成k8s-demo 编辑风源

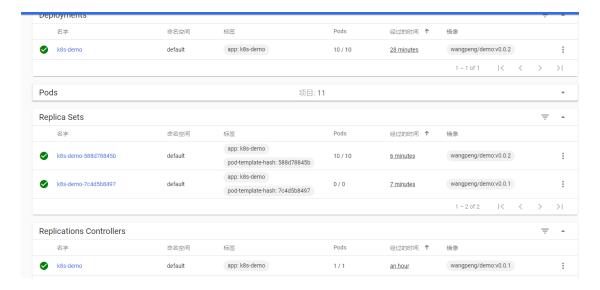
```
YAML
           JSON
 100 -
           metadata:
 101
             creationTimestamp: null
 102 +
            labels:
 103
              app: k8s-demo
          spec:
             container
 106 -
               – nar<sub>e</sub>: demo
 107
                image: 'wangpeng/demo:v0.0.1'
                resources: {}
 108
 109
                 terminationMessagePath: /dev/termination-log
 110
                 terminationMessagePolicy: File
 111
                imagePullPolicy: IfNotPresent
            restartPolicy: Always
 112
 113
            terminationGracePeriodSeconds: 30
            dnsPolicy: ClusterFirst
 114
 115
             securityContext: {}
            schedulerName: default-scheduler
 116
 117 -
        strategy:
          type: RollingUpdate
 118
 119 +
          rollingUpdate:
 120
            maxUnavailable: 25%
 121
             maxSurge: 25%
        revisionHistoryLimit: 10
 122
 123
        progressDeadlineSeconds: 600
 124 - status:

  此操作相当于: kubectl apply -f ⟨spec.yaml⟩
```

执行升级命令 kubectl set image deployments /[空间名称] [服务名称]=[镜像名称]:[版本号]

```
[root@master demo]# kubectl set image deployments/k8s-demo k8s-
demo=wangpeng/demo:v0.0.2
deployment.apps/k8s-demo image updated
```

不清楚这里升级是否正确如果不正确,可以在页面上升级服务的版本



选择右侧三个点,点击编辑将镜像版本号修改最新版本,将v0.0.1修改成v0.0.2保存

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```
YAML
            JSON
 100 -
           metadata:
 101
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 102 -
             labels:
 103
              app: k8s-demo
 104 -
           spec:
 105 -
             container
               - name: demo
image: 'wangpeng/demo:v0.0.1'
resources: {}
 106 -
 107
 108
                 {\tt terminationMessagePath: /dev/termination-log}
 109
 110
                 terminationMessagePolicy: File
 111
                 imagePullPolicy: IfNotPresent
 112
             restartPolicy: Always
 113
             terminationGracePeriodSeconds: 30
 114
             dnsPolicy: ClusterFirst
 115
             securityContext: {}
 116
             {\tt schedulerName: default-scheduler}
 117 -
        strategy:
          type: RollingUpdate
 118
 119 -
          rollingUpdate:
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        revisionHistoryLimit: 10
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        progressDeadlineSeconds: 600
 124 - status:

● 此操作相当于: kubectl apply -f ⟨spec.yaml⟩
```

项目版本就升级了

后面会讲解K8S共享存储