第 5 节

将Petclinic微服务部署到阿里云K8s环境

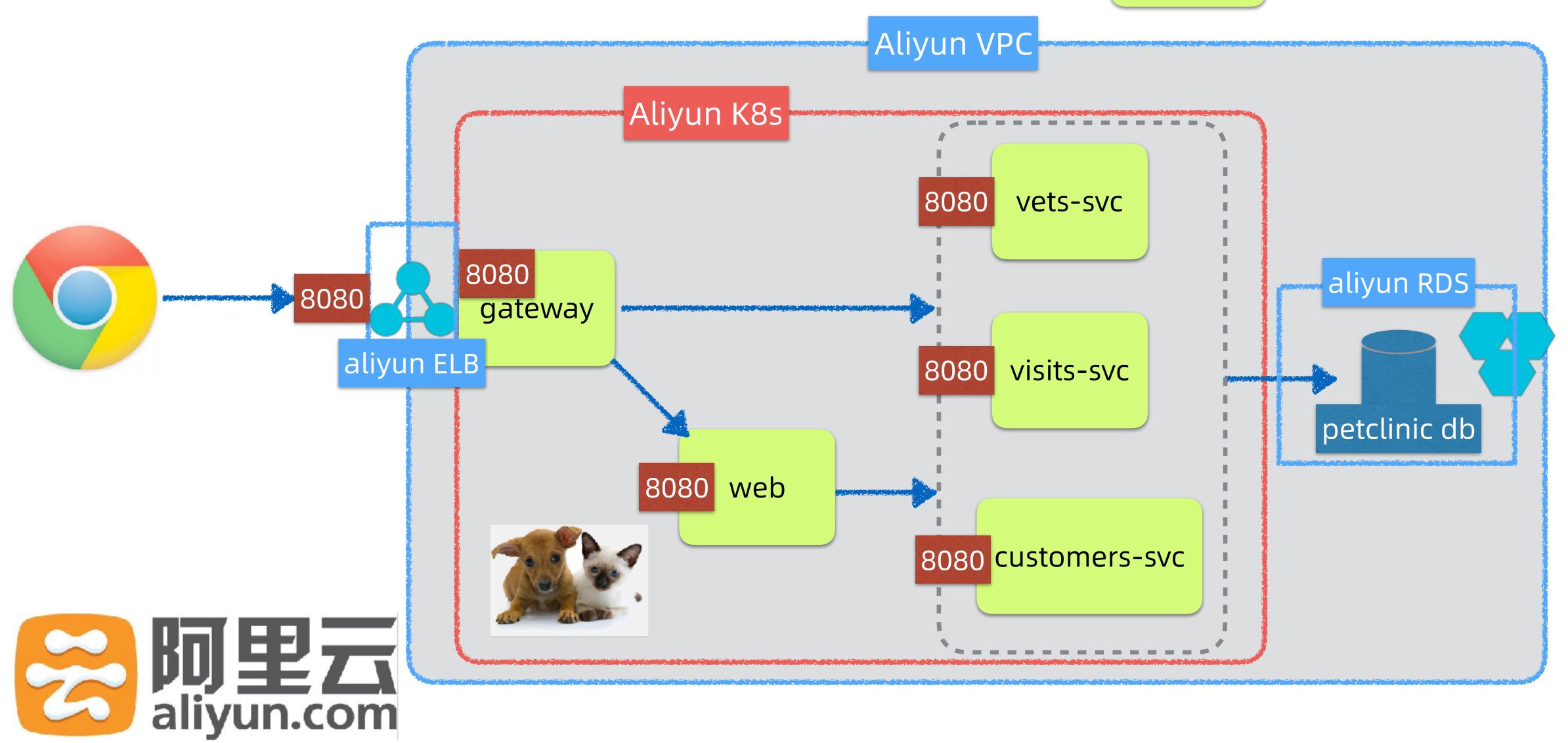
## 本课内容

- · 将Petclinic微服务部署到阿里云K8s环境
- 微服务扩容和缩容演示
- 删除阿里云资源



### Petclinic阿里云K8s部署架构

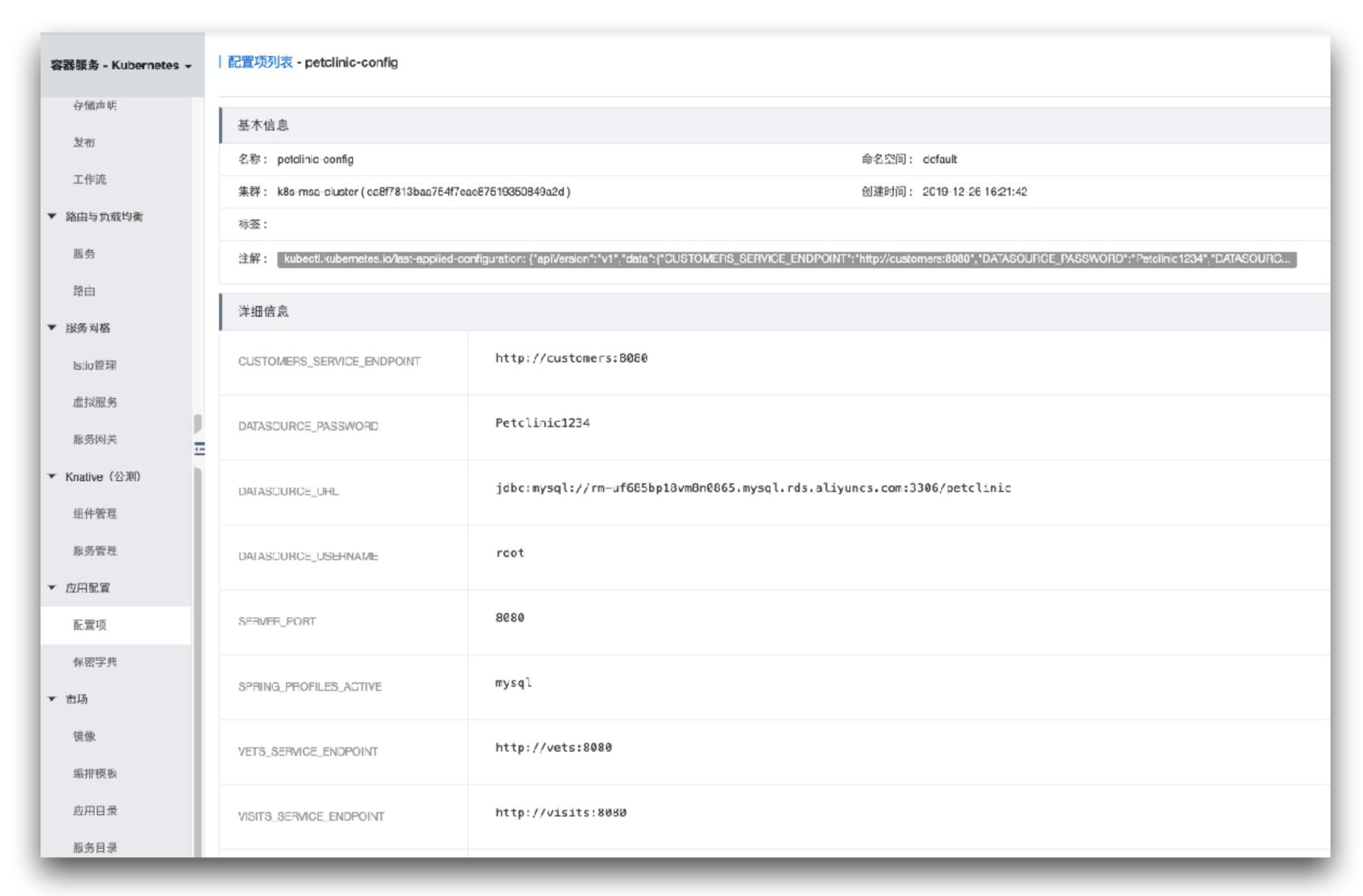




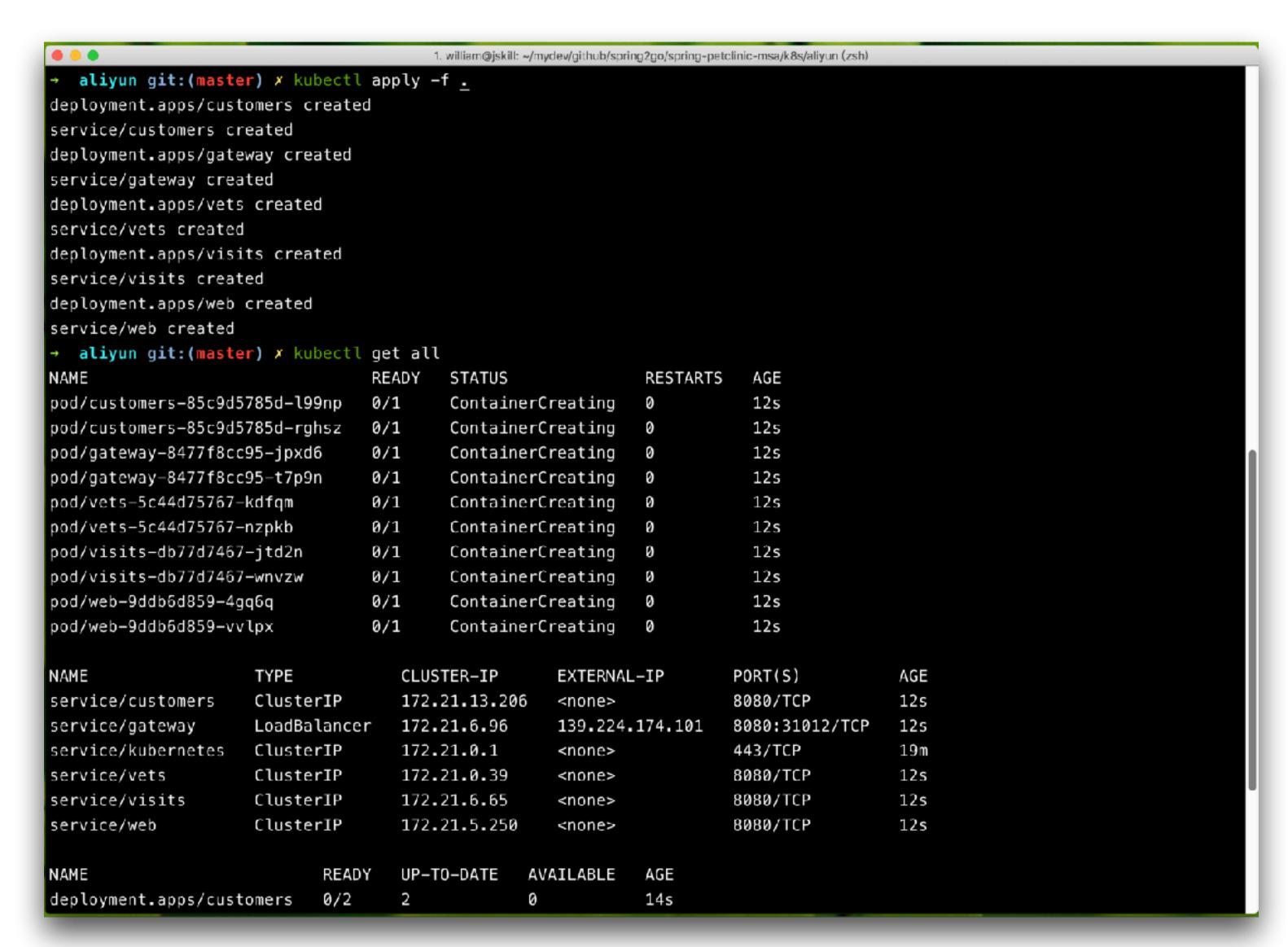
## 部署petclinic-config

```
1. william@jskill: ~/mydev/github/spring2go/spring-petclinic-msa/k8s/aliyun/config (zsh)
  cd mydev/github/spring2go/spring-petclinic-msa
  spring-petclinic-msa git:(master) x ls
LICENSE
                         customers-service
                                                                             vets-service
                                                   pom.xml
                                                   spring-petclinic-msa.iml visits-service
README.md
                         doc
cloud-gateway
                         k8s
                                                   target
                                                                             web-app
  spring-petclinic-msa git:(master) x cd k8s/aliyun
  aliyun git:(master) x ls
                  customers-svc.yml gateway-svc.yml vets-svc.yml
config
                                                                          visits-svc.yml
                                                                                            web-app.yml
  aliyun git:(master) x cd config
  config git:(master) x kubectl apply -f .
configmap/petclinic-config created
  config git:(master) x kubectl get cm
NAME
                   DATA AGE
petclinic-config 9
                          8s
  config git:(master) x
```

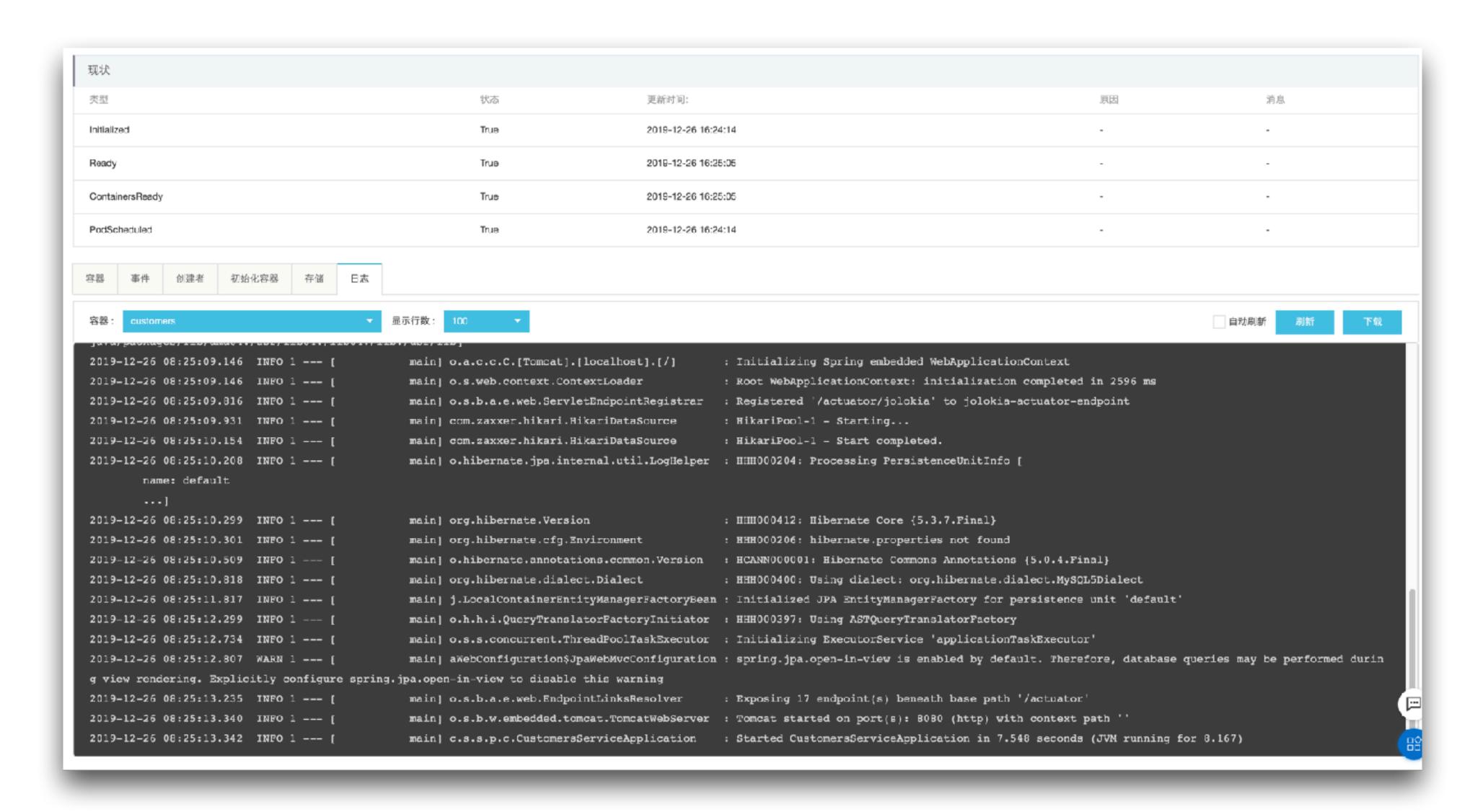
# 校验petclinic-config



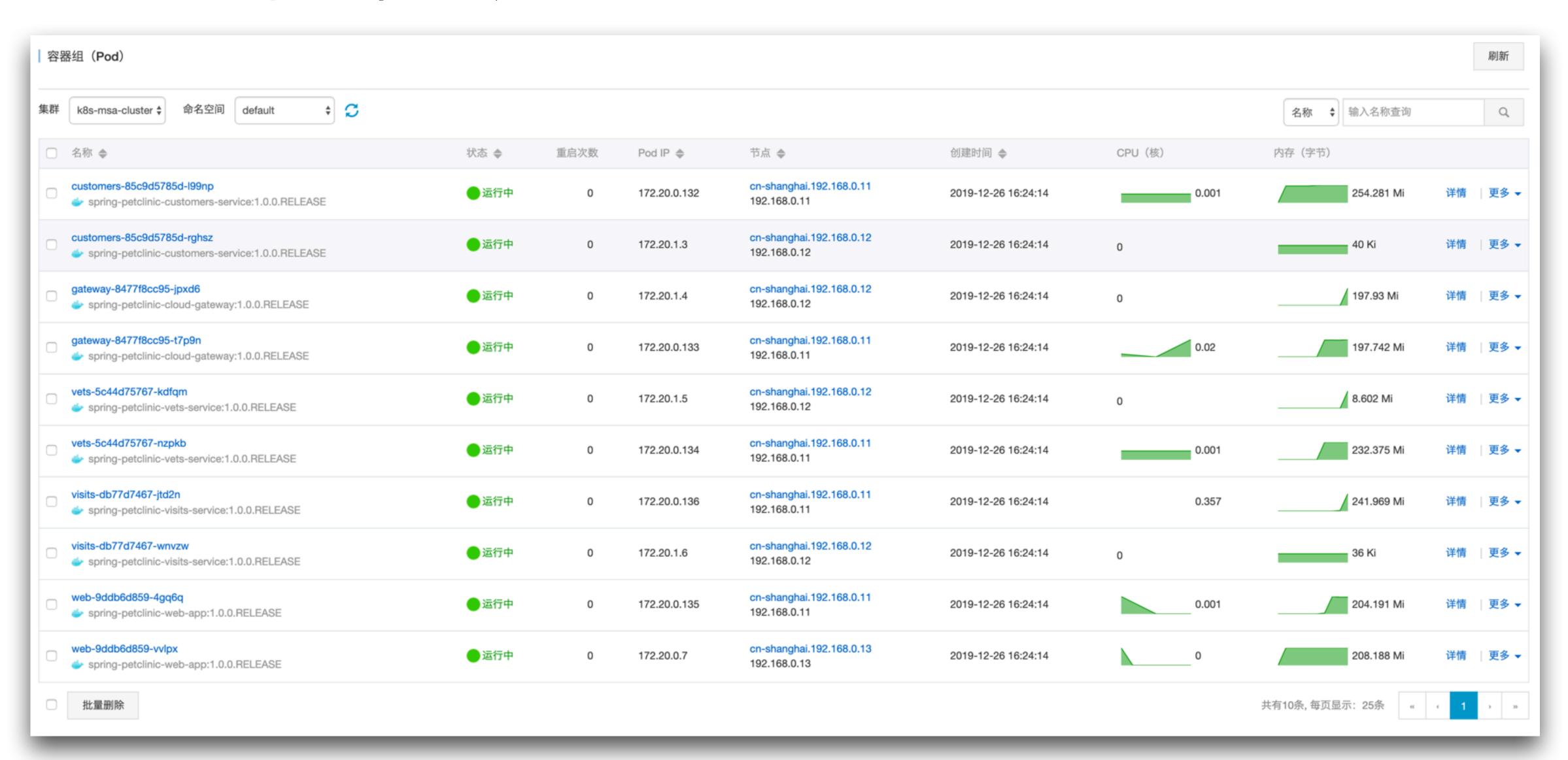
# 部署petclinic微服务



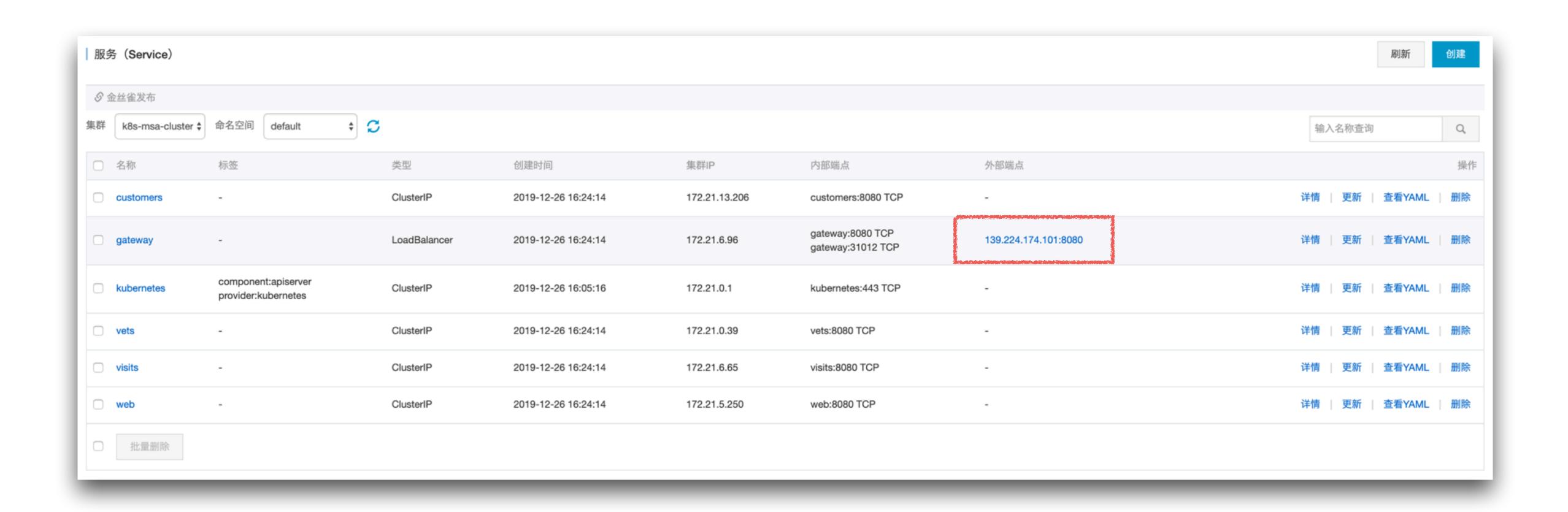
#### 查看Pod日志



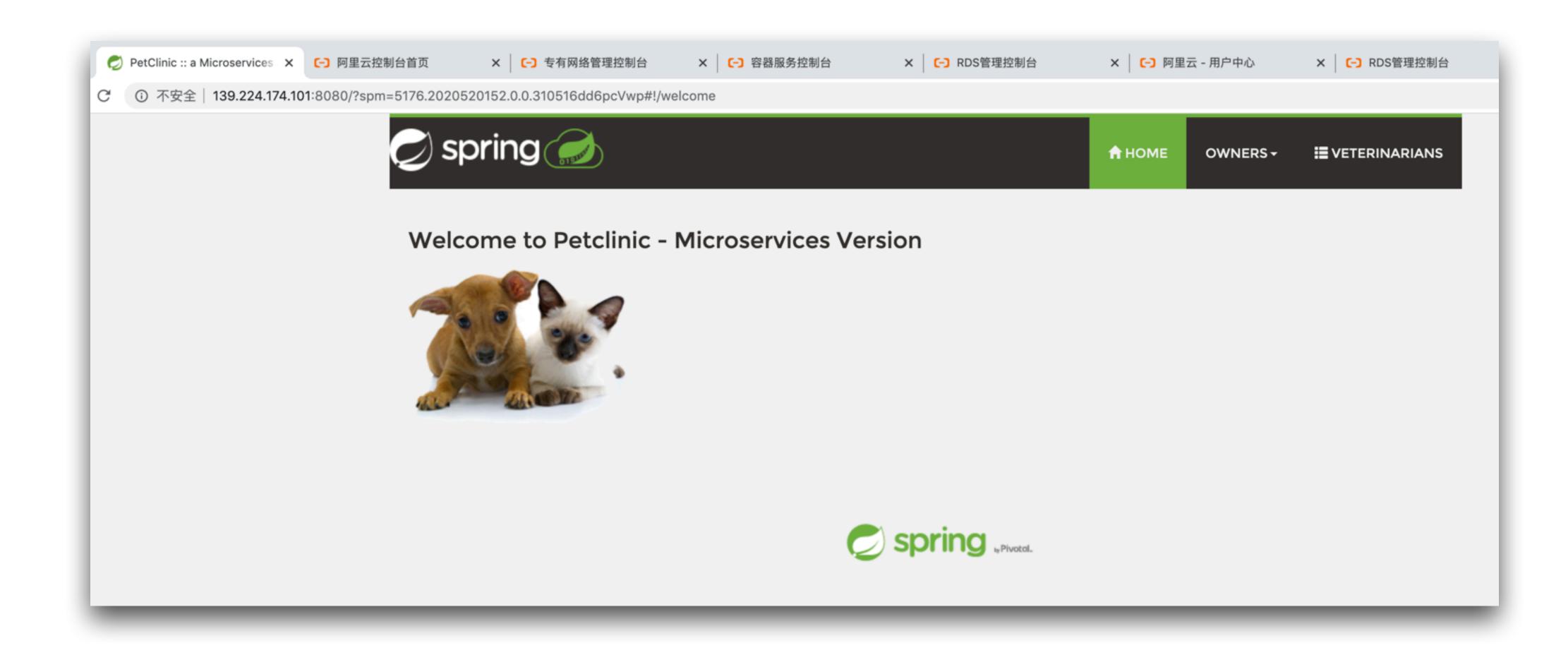
### Pod全部正常启动



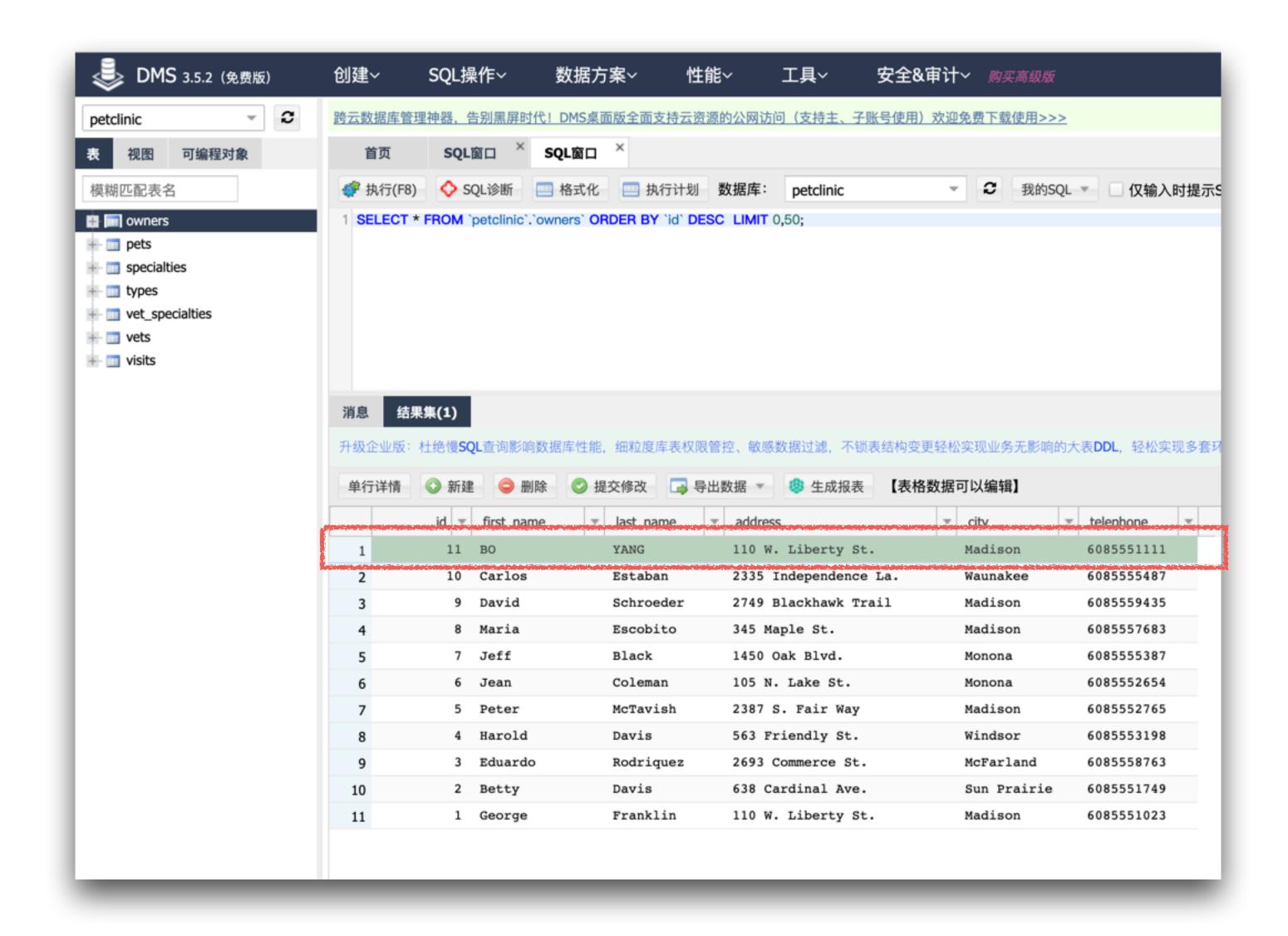
### LoadBalancer外网IP和端口



### 浏览器校验Petclinic微服务



#### 校验RDS数据库数据添加成功



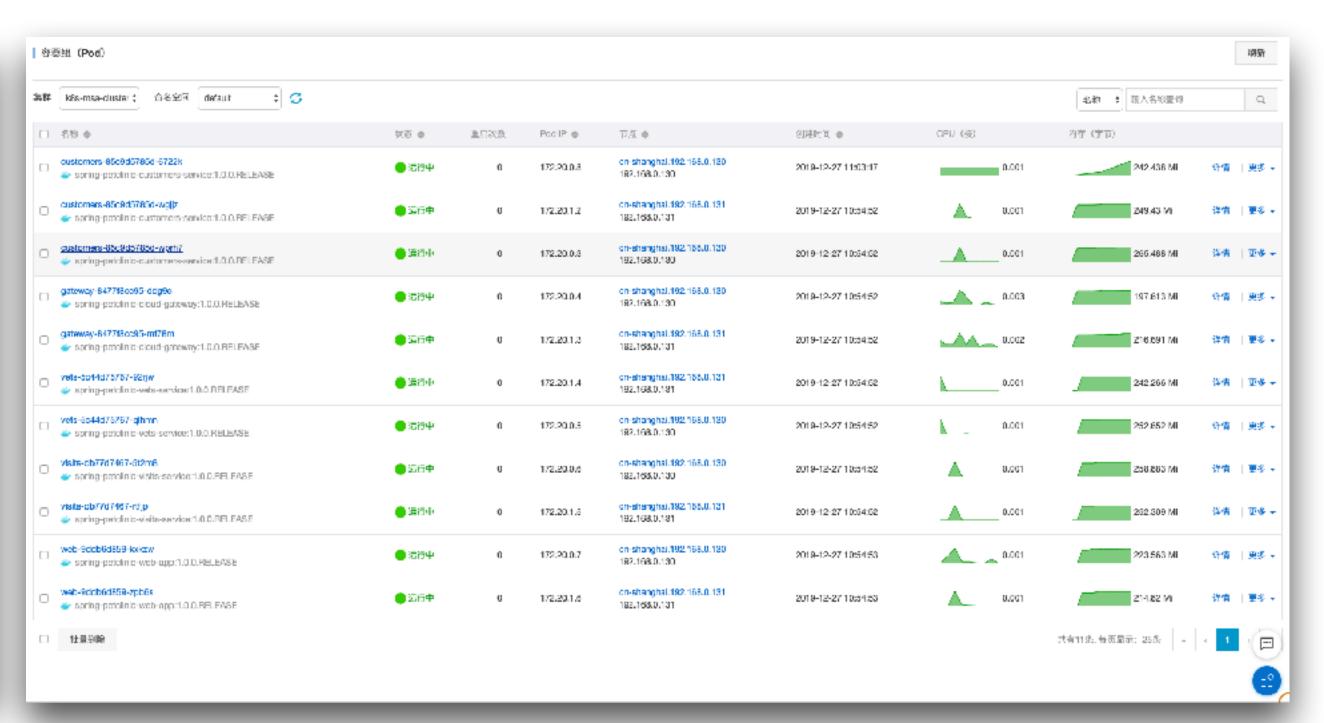
# 扩容演示

```
1 apiVersion: apps/v1
 2 kind: Deployment
 3 metadata:
 4 name: customers
5 spec:
     selector:
       matchLabels:
       app: customers
     replicas: 5
 9
10
     template:
11
       metadata:
12
         labels:
13
           app: customers
14
       spec:
15
         containers:
16
           name: customers
17
             image: spring2go/spring-petclinic-customers-service:1.0.0.RELEASE
18
             envFrom:
              - configMapRef:
19
                  name: petclinic-config
20
```

<b>● ●</b>		1. willi	am@jskill: ~/myde	sv/glthub/spring2go/s	spring-peto	dinic-msa/k8s/allyun (zsh)		
replicaset.apps/web-	-9ddb6d859	2	2	2 2		8m33s		
→ aliyun git:(maste	er) 🗴 kubectl	get all						
NAME		READY	STATUS	RESTARTS	AGE			
pod/customers-85c9d5	5785d-6722k	1/1	Running	0	103s			
pod/customers-85c9d5	5785d-gjskr	1/1	Running	Ø	103s			
pod/customers-85c9d5	5785d-jzvg7	1/1	Running	0	103s			
pod/customers-85c9d5	5785d-wgjjz	1/1	Running	Ø	10m			
pod/customers-85c9d	5785d-wprh7	1/1	Running	0	10m			
pod/gateway-8477f8co	c95-ddg9c	1/1	Running	Ø	10m			
pod/gateway-8477f8co	c95-mf78m	1/1	Running	0	10m			
pad/vets-5c44d75767-	-92rjw	1/1	Running	0	10m			
pod/vets-5c44d75767-	-qlhmn	1/1	Running	0	10m			
pod/visits-db77d7467-5t2m8		1/1	Running	0	10m			
pod/visits-db77d7467-rtfjp		1/1	Running	0	10m			
pod/web-9ddb6d859-kxkzw		1/1	Running	0	10m			
pod/web-9ddb6d859-zp	pb6s	1/1	Running	0	10m			
NAME	TYPE		TER-IP	EXTERNAL-	-IP	PORT(S)	AGE	
service/customers	ClusterIP		21.8.44	<none></none>		8080/TCP	10m	
service/gateway	LoadBalance		21.8.36	106.15.17	2.146	8080:30741/TCP	10m	
service/kubernetes	ClusterIP		21.0.1	<none></none>		443/TCP	34m	
service/vets	ClusterIP		21.4.150	<none></none>		8080/TCP	<b>10</b> m	
service/visits	ClusterIP		21.4.61	<none></none>		8080/TCP	10m	
service/web	ClusterIP	172.	21.12.169	<none></none>		B080/TCP	<b>10</b> m	

### 缩容演示

```
1 apiVersion: apps/v1
2 kind: Deployment
3 metadata:
     name: customers
   spec:
     selector:
       matchLabels:
         app: customers
     replicas: 3
10
     template:
11
       metadata:
12
         labels:
           app: customers
13
14
       spec:
15
         containers:
16
           name: customers
             image: spring2go/spring-petclinic-customers-service:1.0.0.RELEASE
             envFrom:
               - configMapRef:
19
                   name: petclinic-config
20
```



## 删除K8s集群



	集群名称/ID	标签	集群类型	地域 (全部) ▼	网络类型	集群状态	节点个数	创建时间	版本	操作
ı	k8s-msa-cluster ca8f7813baa754f7eae87519350849a2d	•	Kubernetes 托管版	华东2	虚拟专有网络 vpc-uf6l3150b4w	<b>沿 删除中</b>	3	2019-12-26 16:04:39	1.14.8-aliyun.1	管理   <b>查看日志</b>   控制台 集群扩容   <b>更多▼</b>

## 删除RDS数据库



## 删除Switch和VPC





### 本课小结



- · 将Petclinic微服务部署到阿里云环境
- 扩容缩容演示
- 删除阿里云资源