第 节

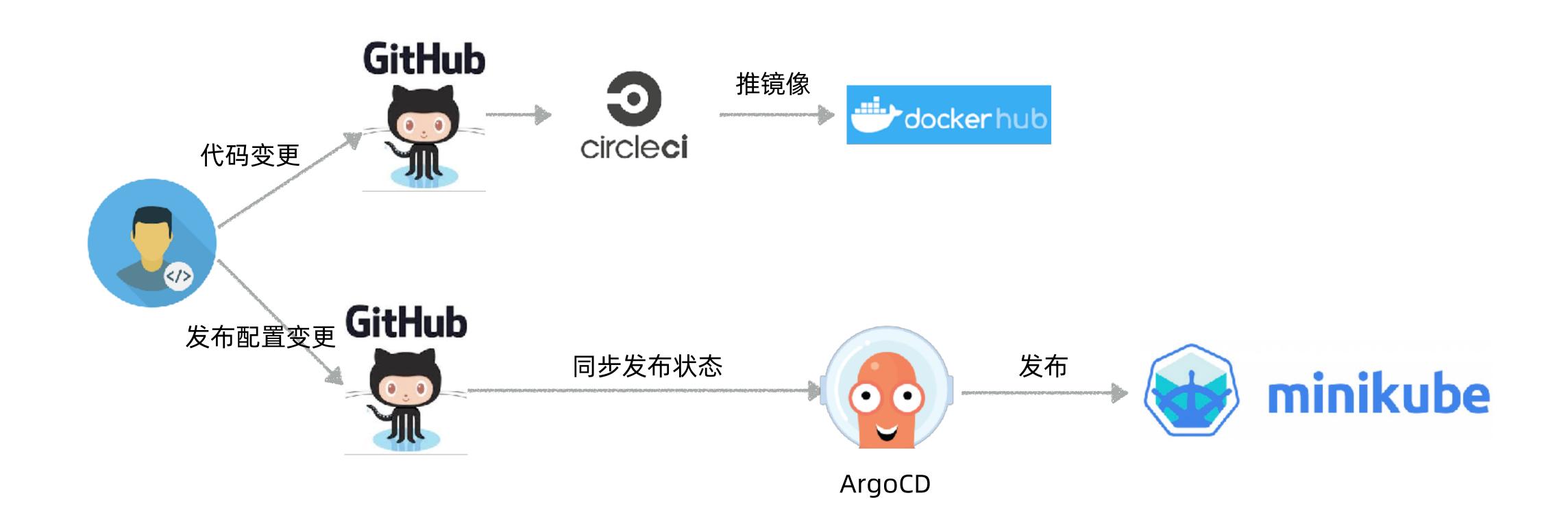
PetClinic微服务的GitOps流水线演示

本课内容

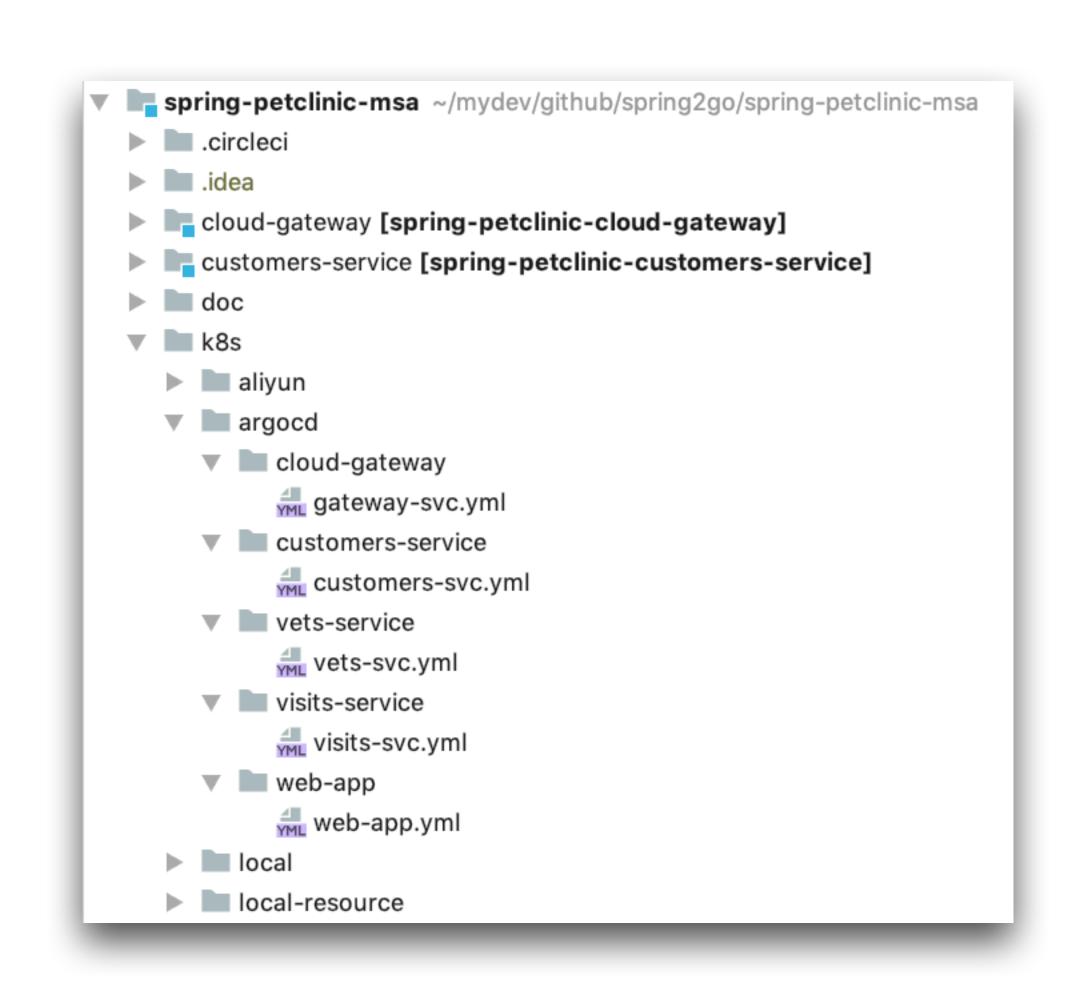
- · 演示PetClinic微服务的端到端CI/CD/GitOps流水线,基于CircleCI和ArgoCD
 - · PetClinic项目源码添加面向ArgoCD的K8s发布文件
 - · ArgoCD应用配置
 - · 发布原版PetClinic微服务
 - ·修改微服务代码触发CI
 - · 修改K8s发布文件触发CD
 - · 校验PetClinic微服务更新
 - 环境清理



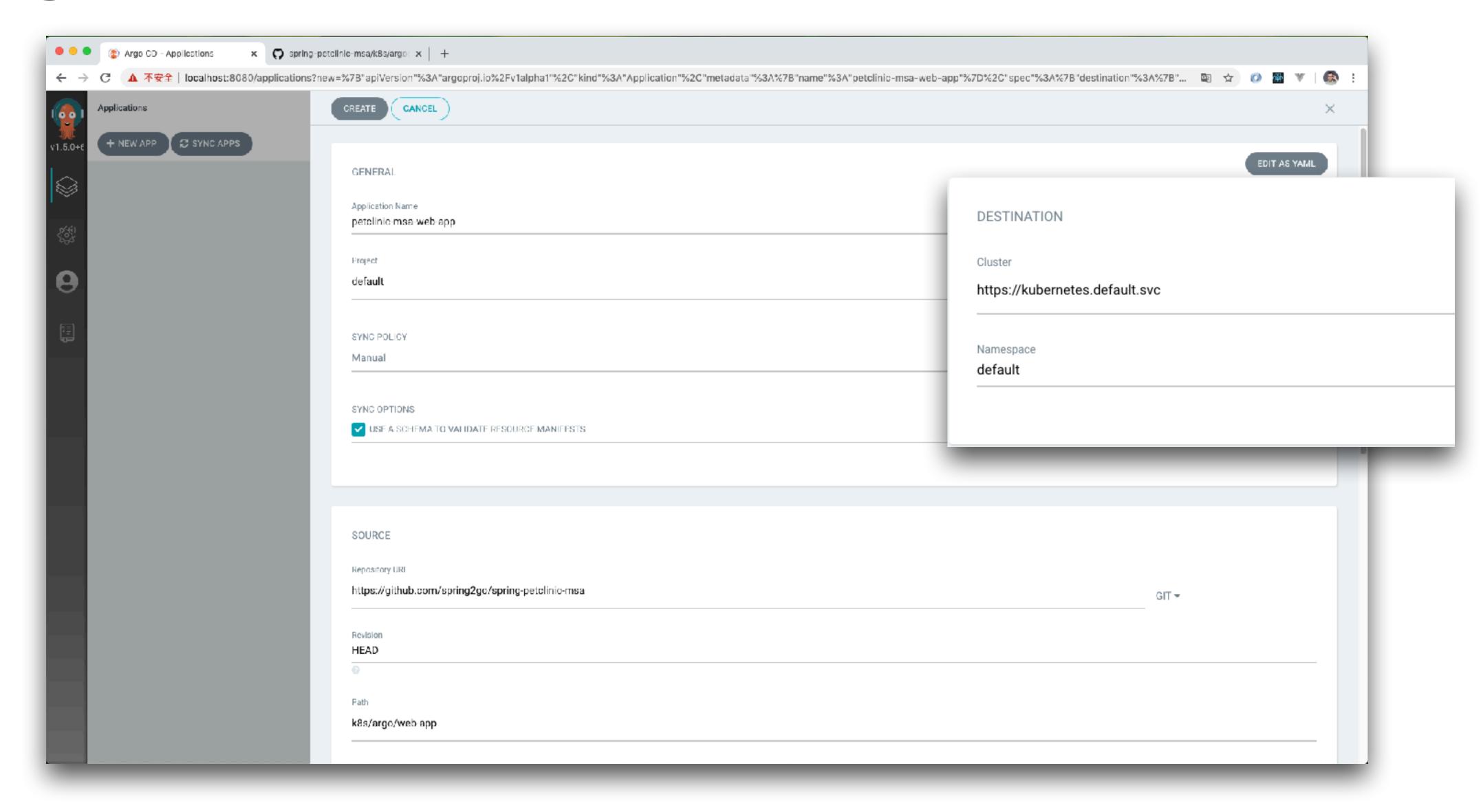
Petclinic微服务GitOps流水线



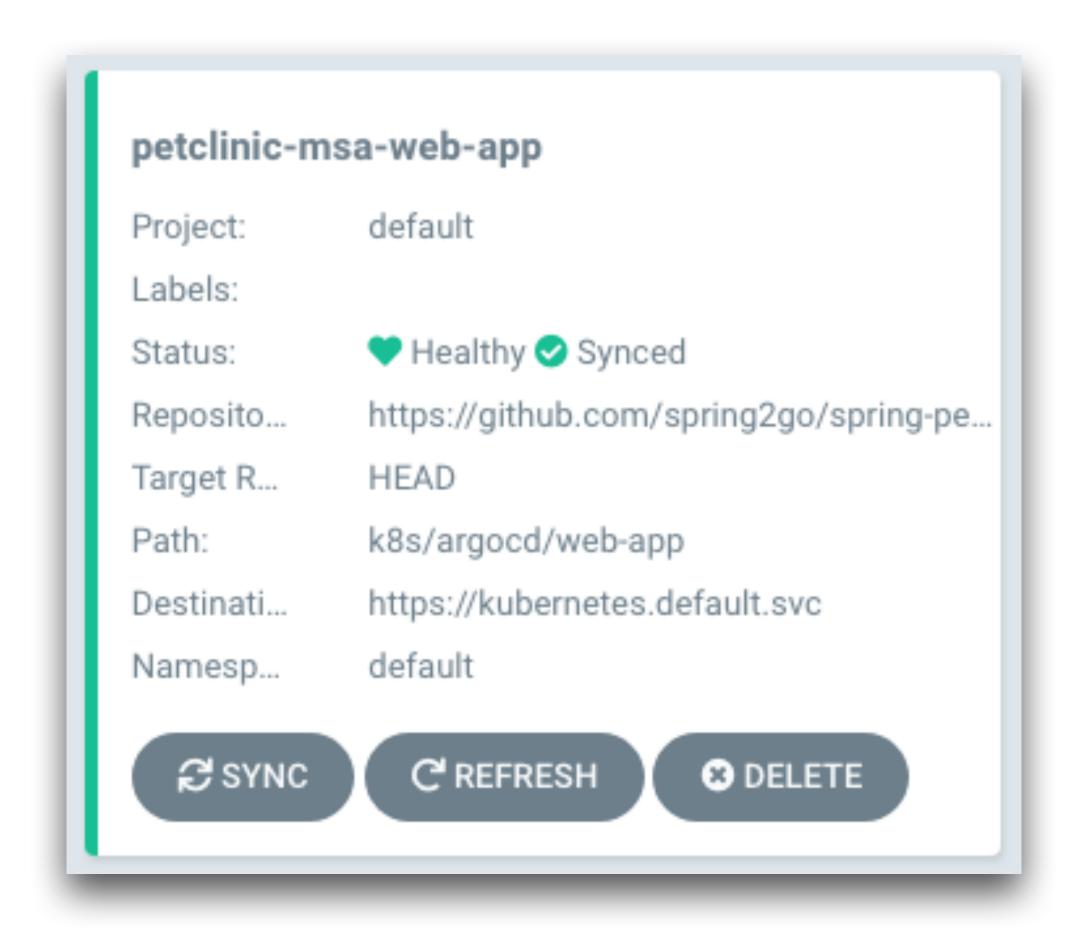
PetClinic微服务添加面向ArgoCD的发布文件



ArgoCD应用配置



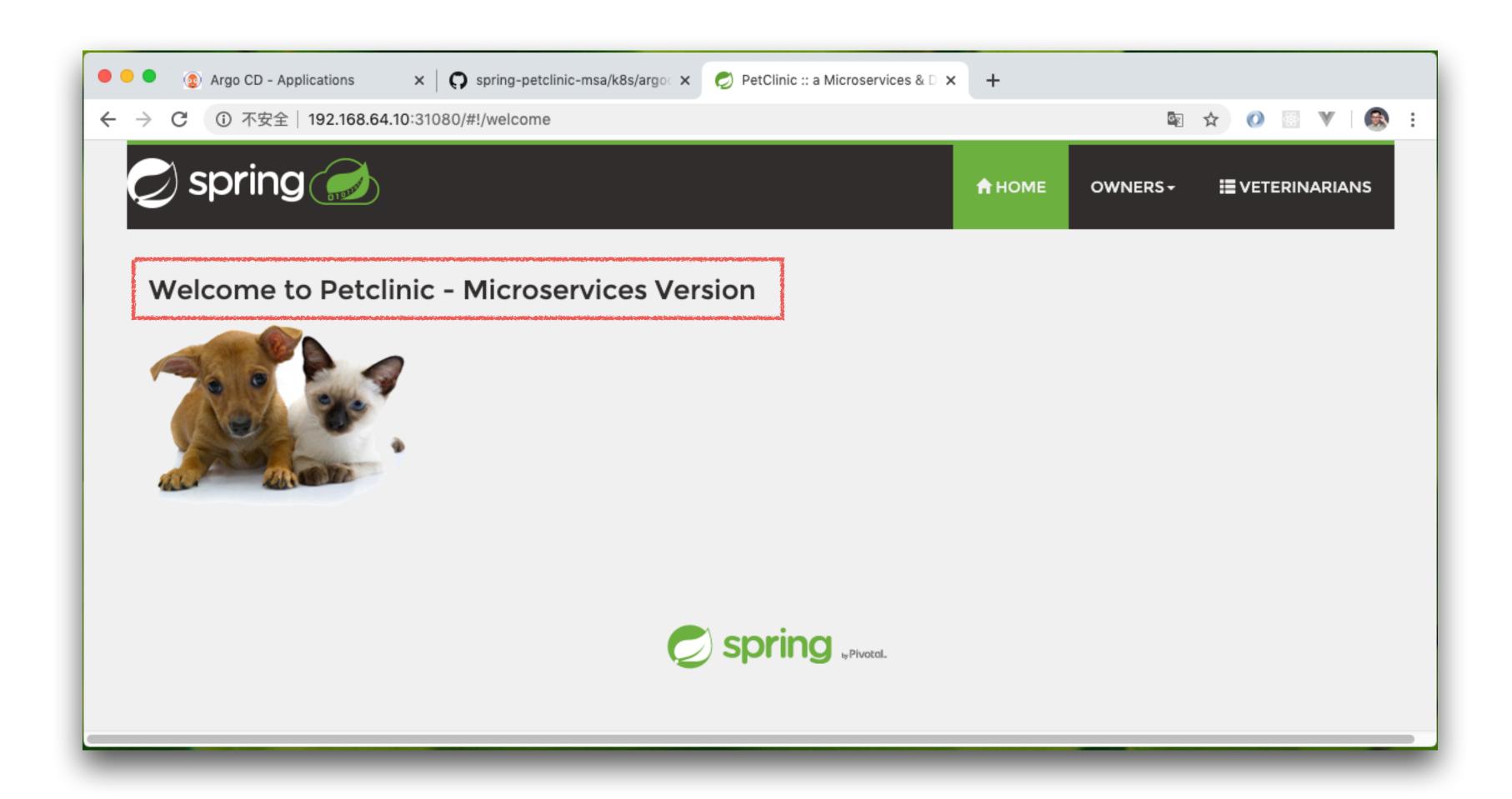
初次同步应用



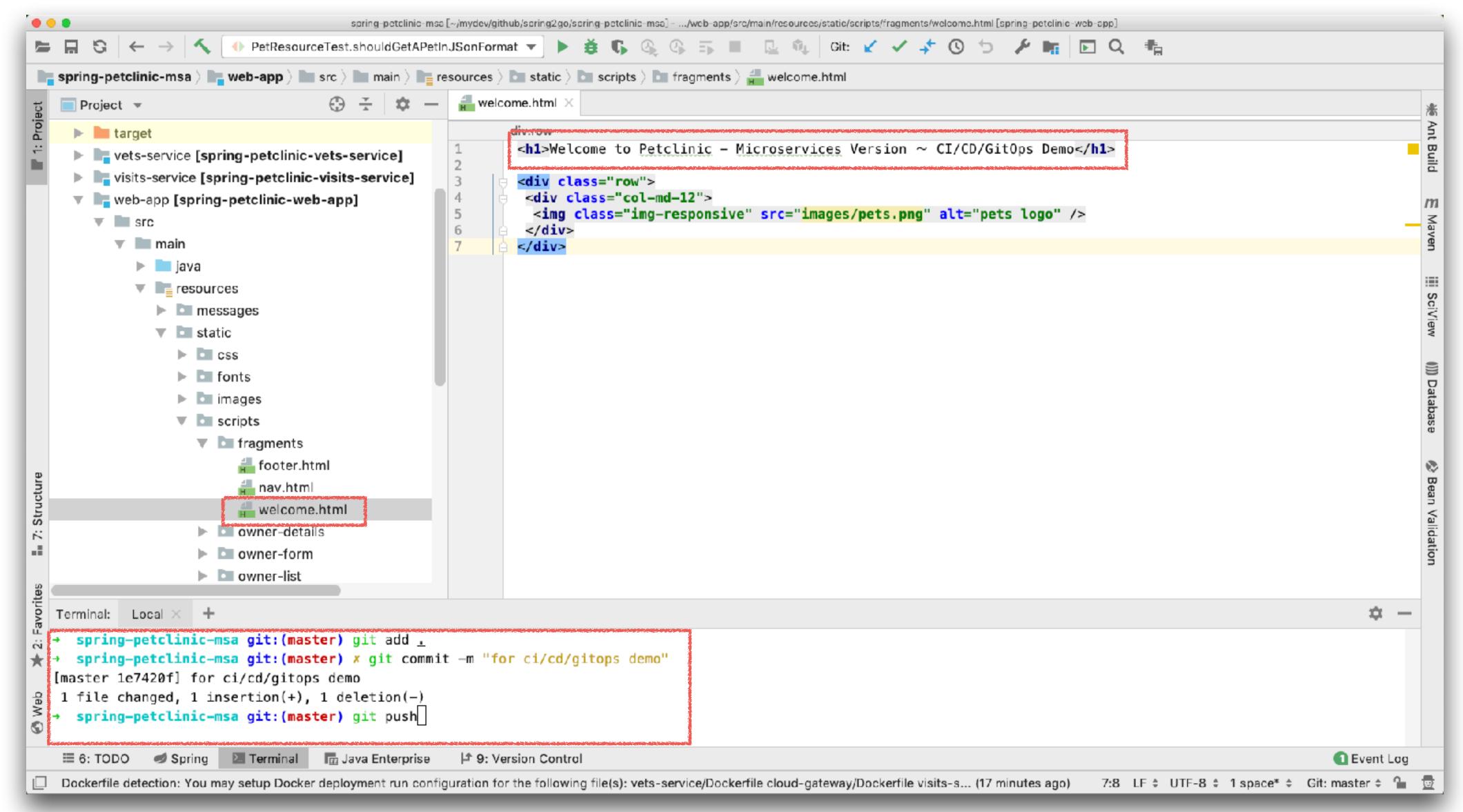
发布原版PetClinic微服务

```
1. william@jskill: ~/mydev/github/spring2go/spring-petclinic-msa/k8s/local (zsh)
× kubectl (kubectl) #1 × ..msa/k8s/local (zsh) #2
  local git:(master) pwd
/Users/william/mydev/github/spring2go/spring-petclinic-msa/k8s/local
→ local git:(master) ls
customers-svc.yml ingress
                                    visits-svc.yml
gateway-svc.yml vets-svc.yml
                                    web-app.yml
→ local git:(master) kubectl apply -f .
deployment.apps/customers created
service/customers created
deployment.apps/gateway created
service/gateway created
deployment.apps/vets created
service/vets created
deployment.apps/visits created
service/visits created
deployment.apps/web created
service/web created
  local git:(master) kubectl get po
NAME
                                     STATUS
                                                           AGE
                             READY
                                                RESTARTS
customers-5468b6f54f-dtmwr
                            1/1
                                     Running 0
                                                           12s
gateway-cf658f568-pxwlk
                             1/1
                                     Running 0
                                                           12s
vets-fd6d6c964-gczxt
                             1/1
                                     Running 0
                                                           12s
visits-58d7dbf5cd-qwhq2
                             0/1
                                     Running 0
                                                           12s
web-7bc7767bbb-7nb42
                             1/1
                                     Running 0
                                                           12s
  local git:(master)
```

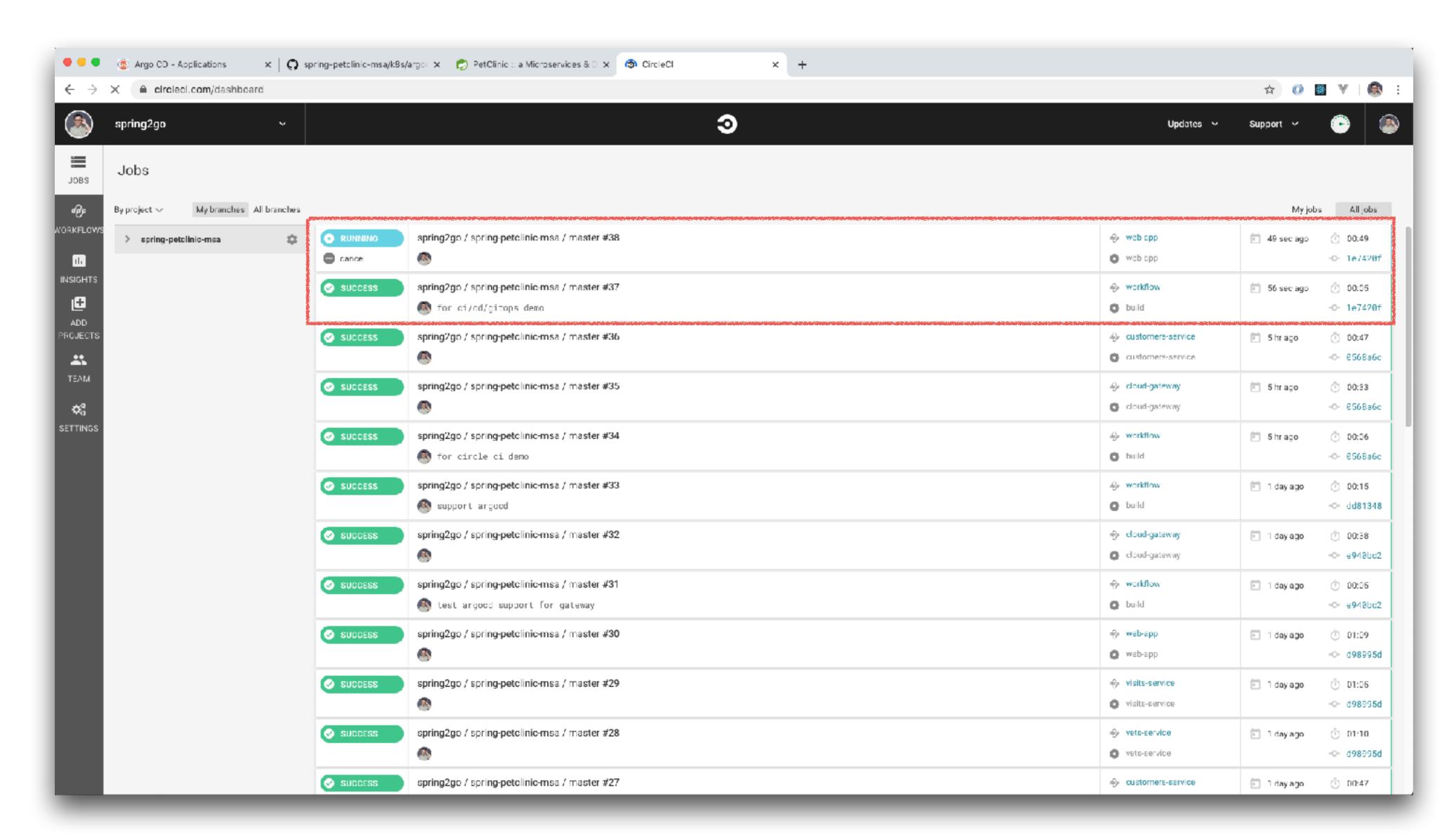
校验PetClinic发布成功



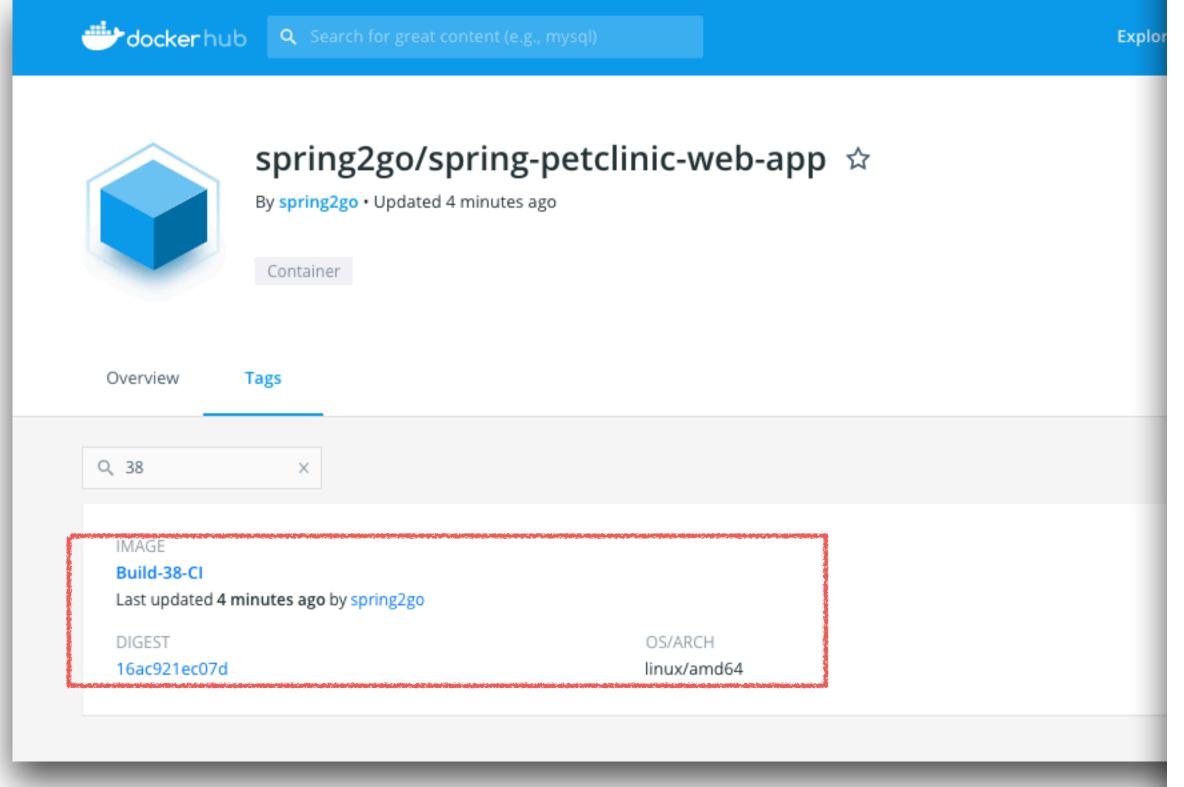
修改web-app代码并提交github

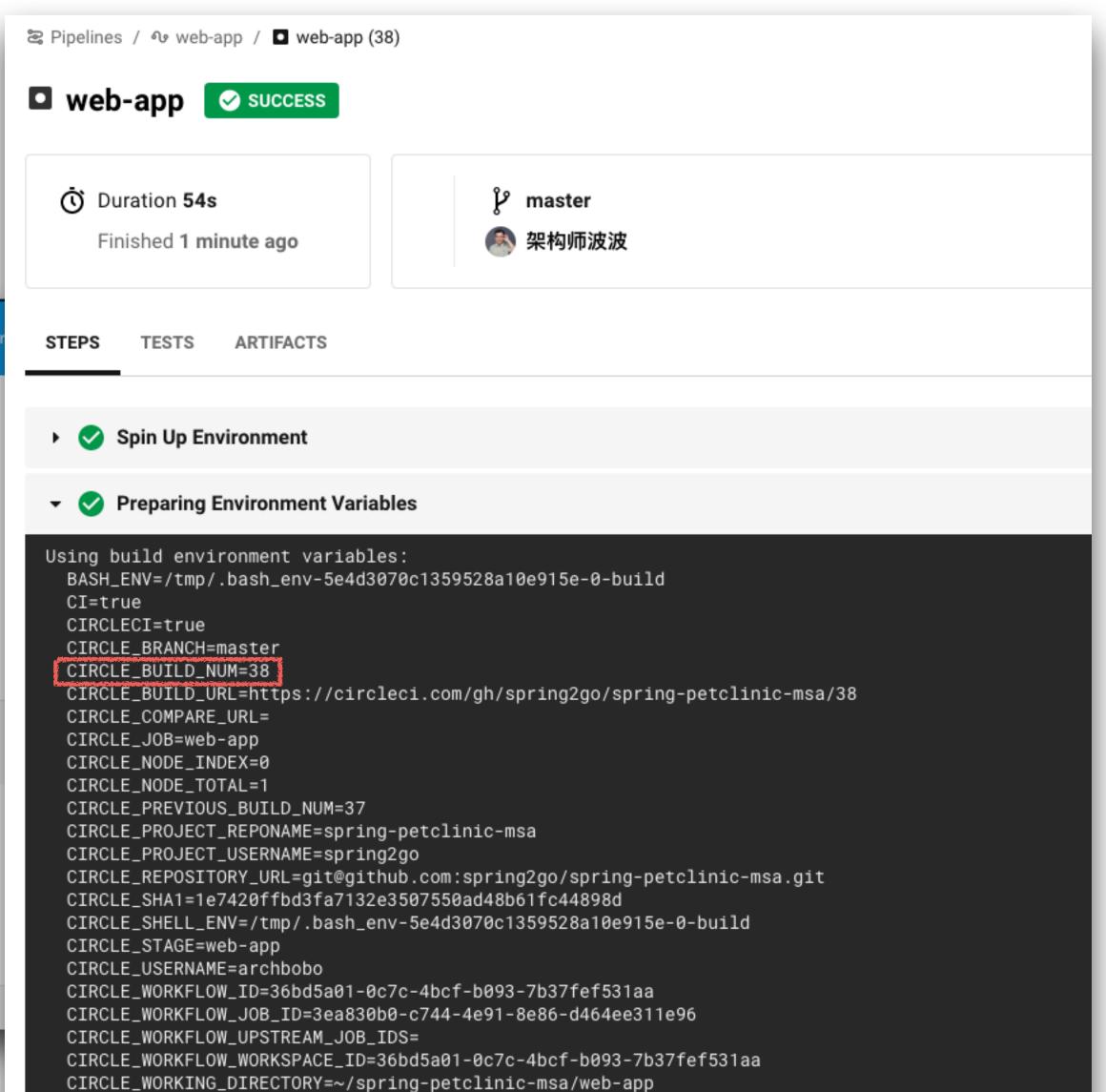


校验CircleCI触发

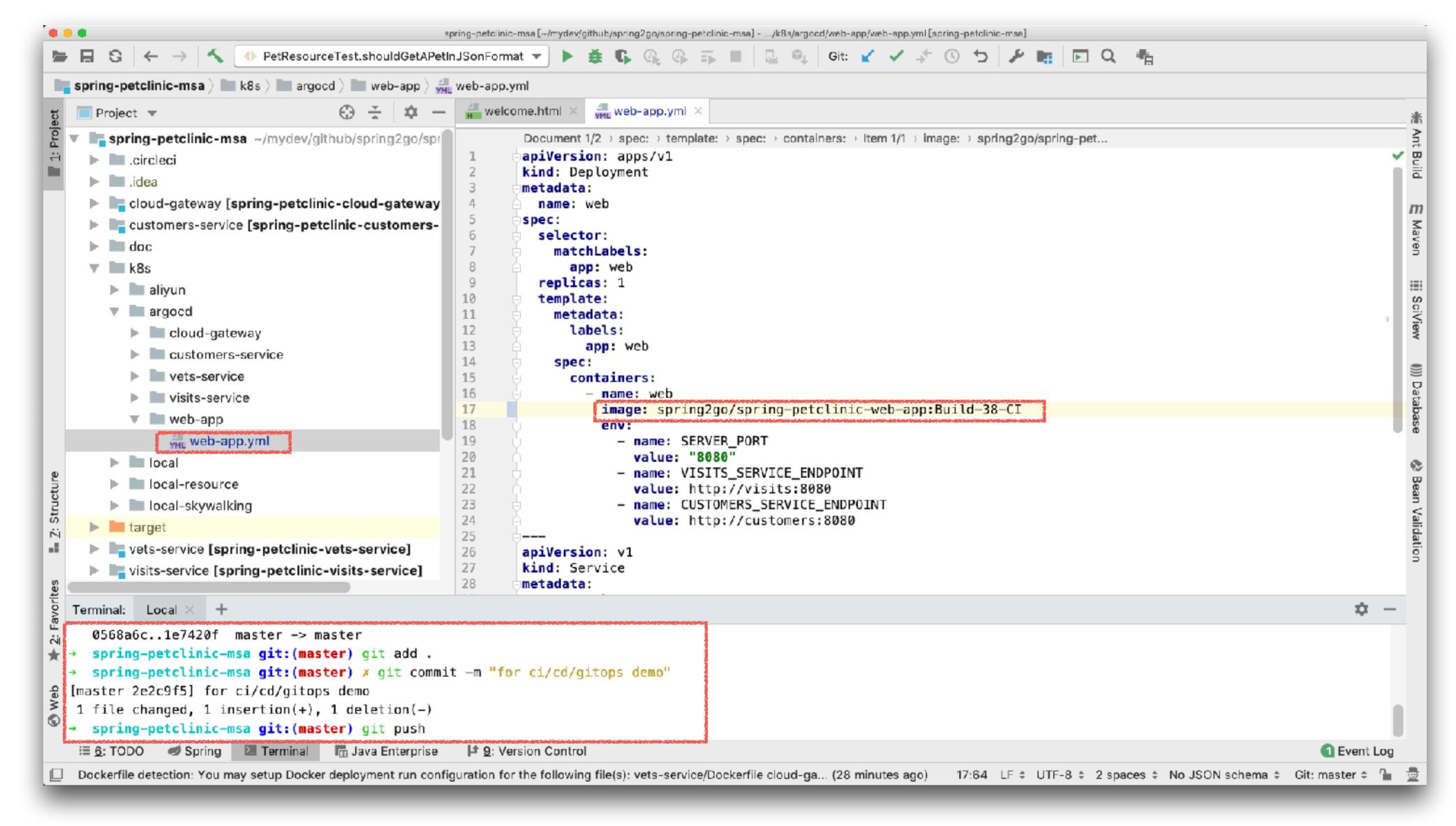


校验镜像上传成功

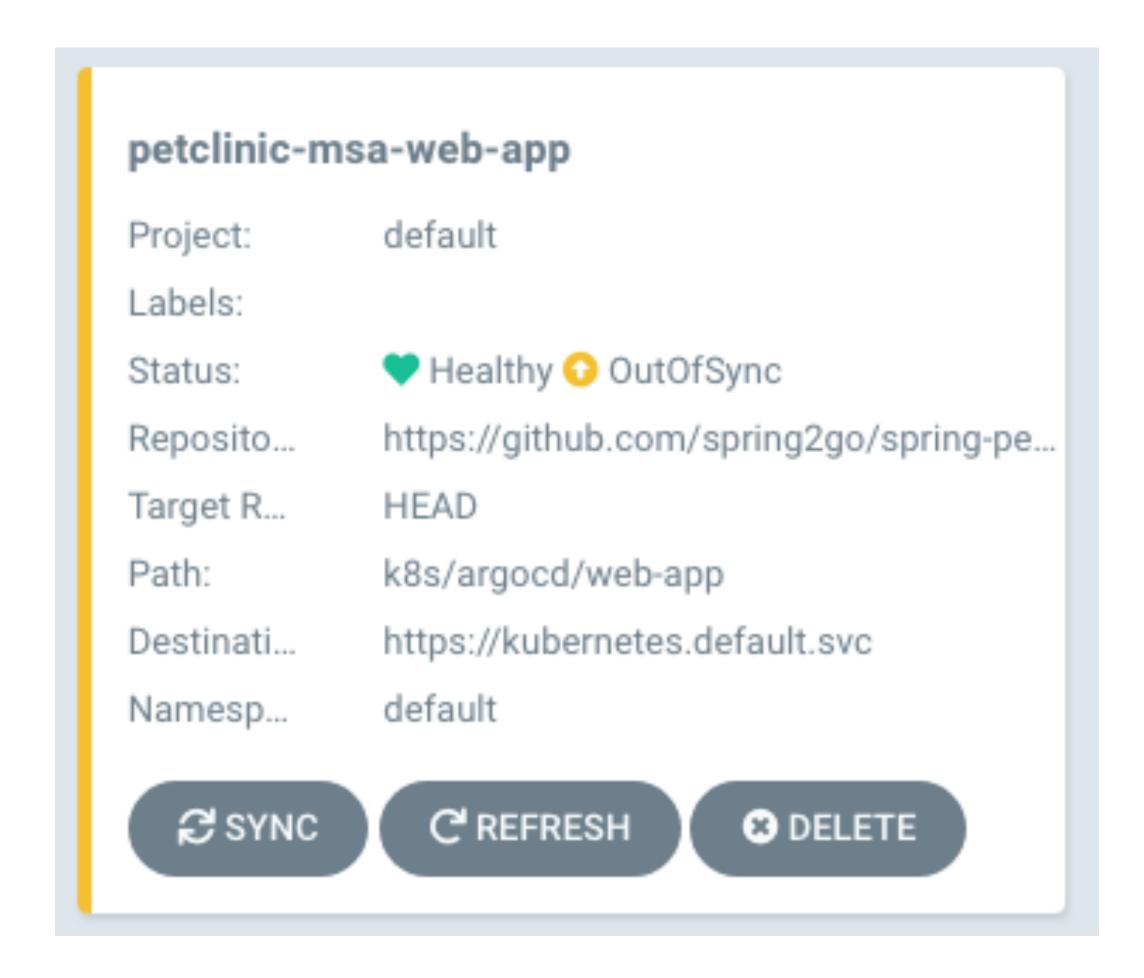




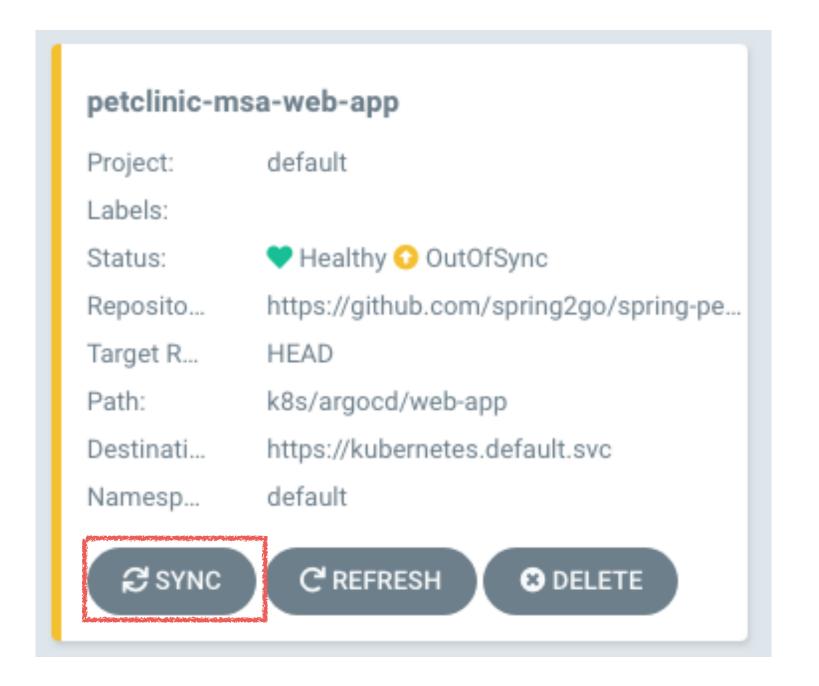
修改web-app的k8s发布文件并提交github

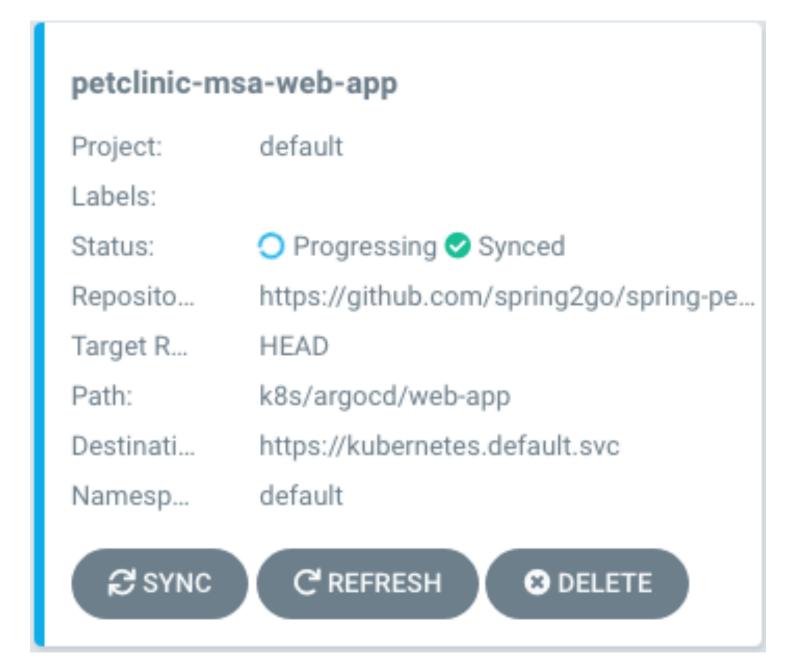


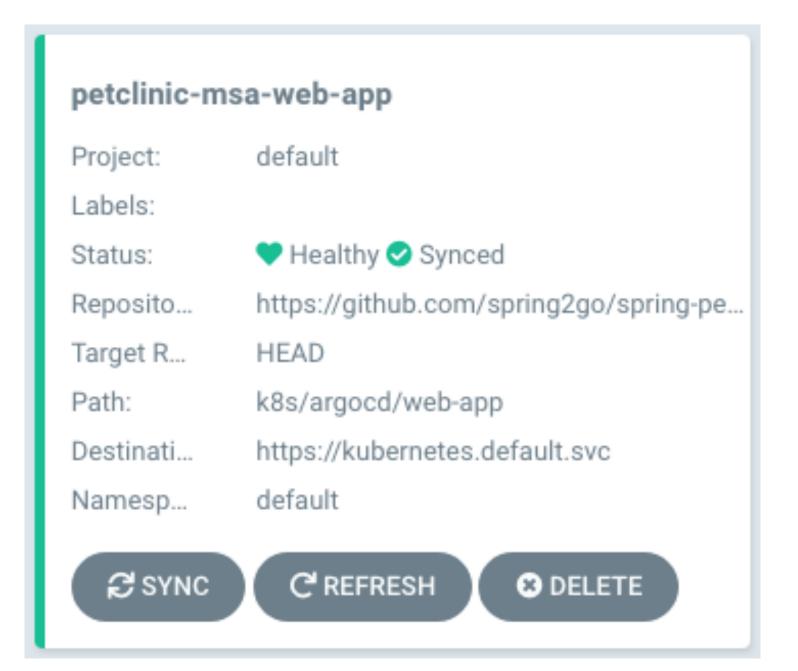
ArgoCD侦测到配置失去同步OutOfSync



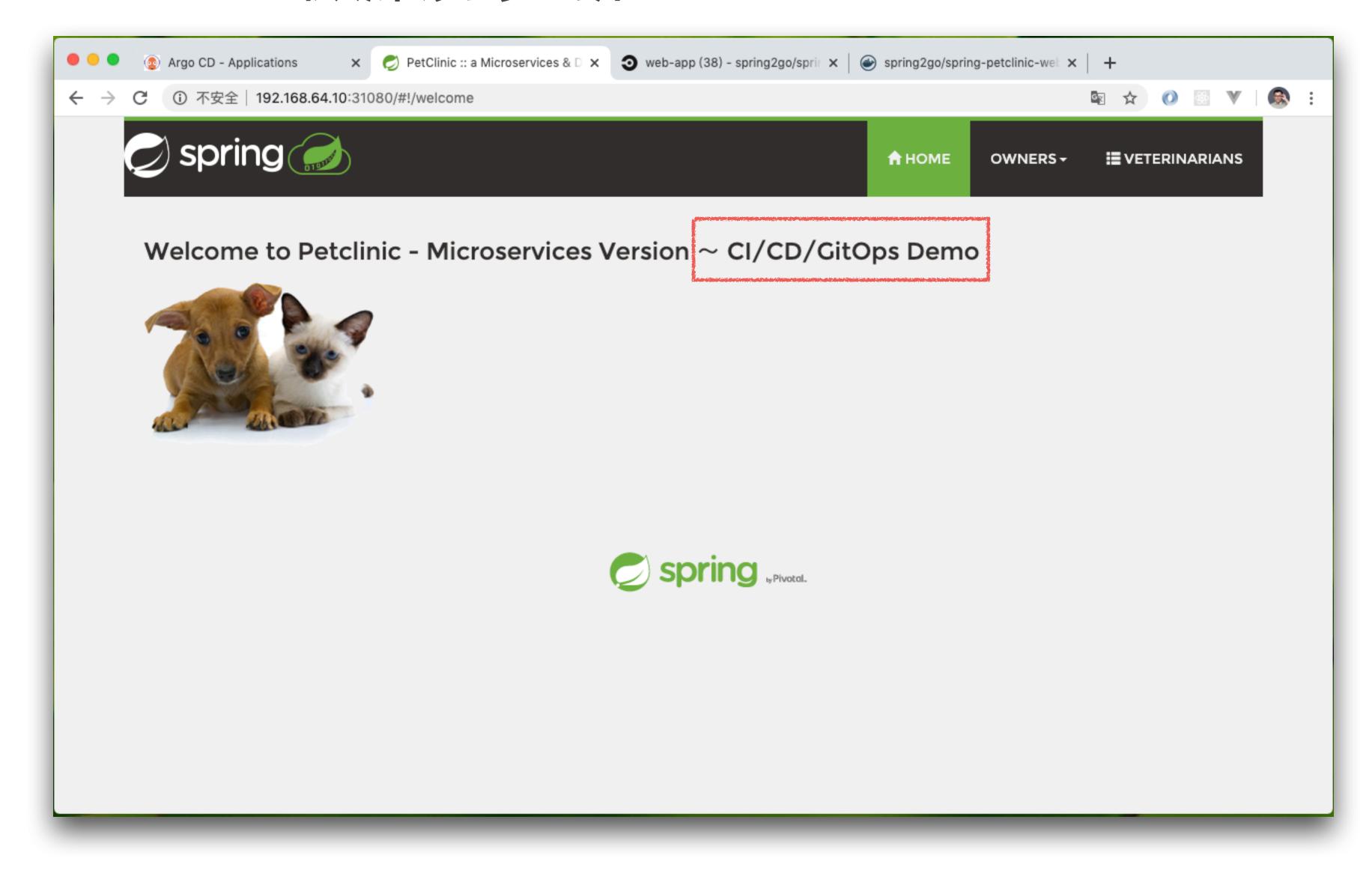
点击SYNC同步配置







校验PetClinic微服务更新



环境清理

```
. .
                             1. william@jskill: ~/mydev/github/spring2go/spring-petclinic-msa/k8s/local
  kubectl (kubectl) #1 X ..msa/k8s/local (zsh) #2
  local git:(master) pwd
/Users/william/mydev/github/spring2go/spring-petclinic-msa/k8s/local
  local git:(master) ls
customers-svc.yml ingress
                                     visits-svc.yml
gateway-svc.yml vets-svc.yml
                                     web-app.yml
  local git:(master) kubectl delete -f .
deployment.apps "customers" deleted
service "customers" deleted
deployment.apps "gateway" deleted
service "gateway" deleted
deployment.apps "vets" deleted
service "vets" deleted
deployment.apps "visits" deleted
service "visits" deleted
deployment.apps "web" deleted
service "web" deleted
→ local git:(master) kubectl get po
                              READY
                                      STATUS
NAME
                                                     RESTARTS
                                                                 AGE
customers-5468b6f54f-dtmwr
                              0/1
                                      Terminating
                                                                 84m
gateway-cf658f568-pxwlk
                              0/1
                                      Terminating
                                                                 84m
vets-fd6d6c964-gczxt
                              0/1
                                      Terminating
                                                                 84m
visits-58d7dbf5cd-qwhq2
                              0/1
                                                                 84m
                                       Terminating
web-5bbd77664f-qtswr
                              0/1
                                       Terminating 0
                                                                 61m
→ local git:(master) kubectl get po
No resources found in default namespace.
  local git:(master)
```

```
    william@jskill: ~/temp/argo-cd-master/manifests (zsh)

  kubecti (kubecti) • $1 × ..ter/manifests (zsh) $2
   temp cd argo-cd-master
   argo-cd-master ls
                         Procfile
                                                 errors
                                                                          server
                                                 examples
                                                                          test
                                                                          ui
                                                 hack
                                                                          uid_entrypoint.sh
                                                 manifests
                         assets
                                                 mkdocs.yml
                                                                          util
                         cmd
                                                                          white-list
                         common
                                                 pkg
                         controller
                                                 reposerver
                                                 resource_customizations
                         docs
   argo-cd-master cd manifests
   manifests ls
                                               install.yaml
                       cluster-rbac
                                               namespace-install
                       crds
base
                                               namespace-install.yaml
cluster-install
                       ha
  manifests kubectl delete -n argocd -f install.yaml
warning: deleting cluster-scoped resources, not scoped to the provided namespace
customresourcedefinition.apiextensions.k8s.io "applications.argoproj.io" deleted
customresourcedefinition.apiextensions.k8s.io "appprojects.argoproj.io" deleted
serviceaccount "argocd-application-controller" deleted
serviceaccount "argood-dex-server" deleted
serviceaccount "argocd-server" deleted
role.rbac.authorization<u>.kas in "argood-application-controller" deleted</u>
                                        1. william@jskill: ~/temp/argo-cd-master/manifests (zsh)
role.rbac.authorization
                          kubectl (kubectl) *#1 × ..ter/manifests (zsh) #2
role.rbac.authorization
                        → manifests kubectl get ns
clusterrole.rbac.autho
                       NAME
                                                   STATUS
                                                              AGE
                        argocd
                                                   Active
                                                              5h9m
                        default
                                                   Active
                                                              29d
                        kube-node-lease
                                                   Active
                                                              29d
                        kube-public
                                                   Active
                                                              29d
                        kube-system
                                                   Active
                                                              29d
                        kubernetes-dashboard
                                                   Active
                        → manifests kubectl delete ns argocd
                        namespace "argocd" deleted
                        → manifests
```

本课小结



- · PetClinic微服务的CI/CD/GitOps流水线
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