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3

节

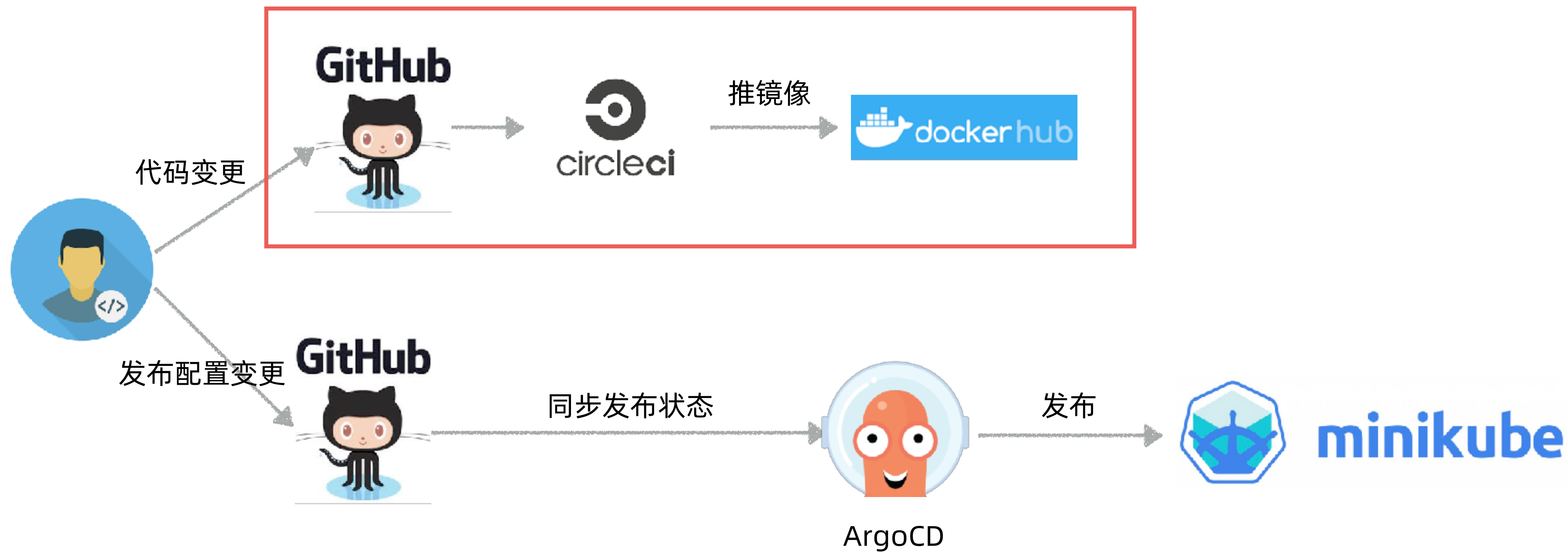
使用CircleCI持续集成Petclinic微服务

本课内容

- 演示如何使用CircleCI对Petclinic微服务进行持续集成



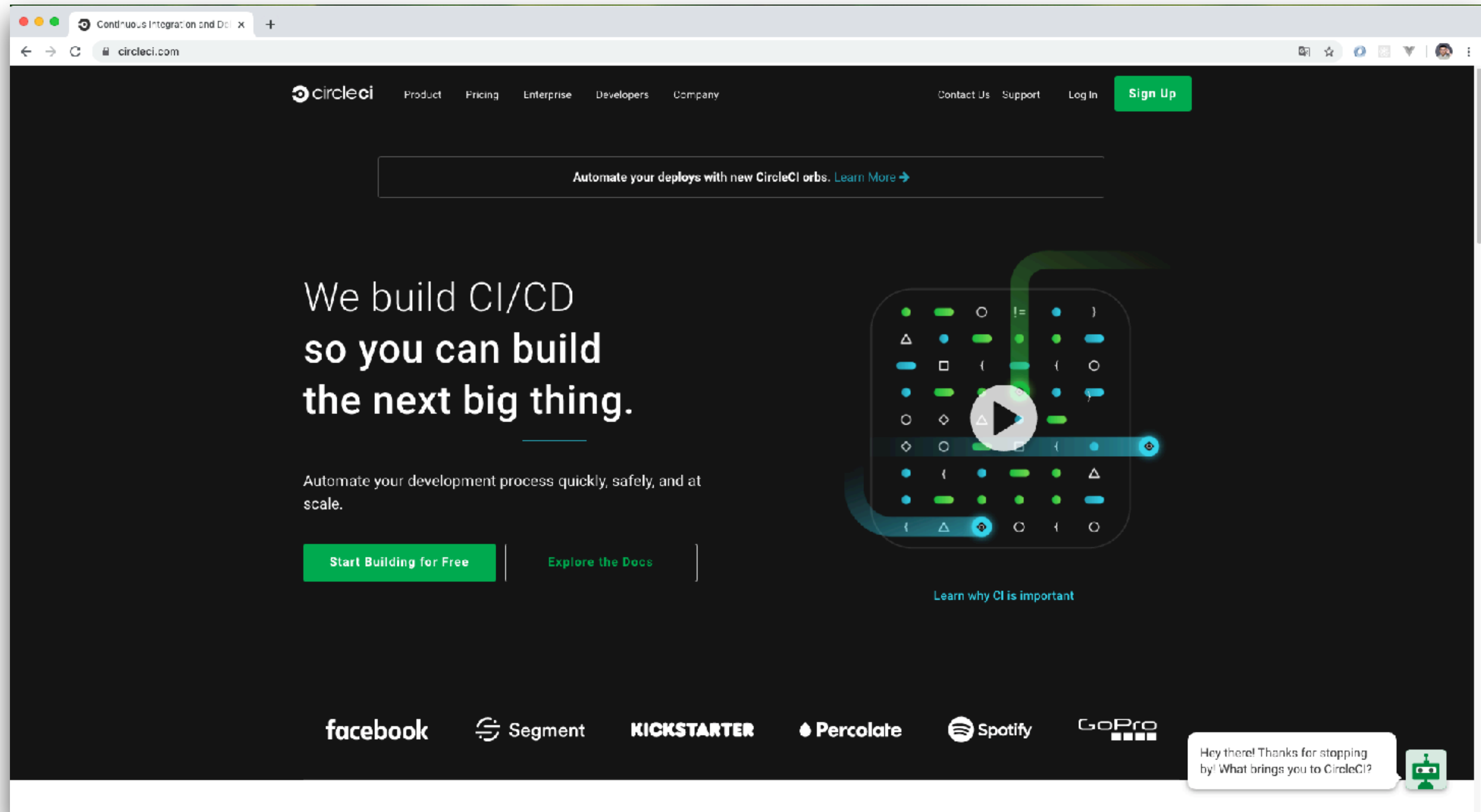
Petclinic微服务GitOps流水线



添加.circleci/config.yml

github.com/spring2go/spring-petclinic-msa			
archbobo support argocd		✓ Latest commit dd81348 21 hours ago	
📁 .circleci	dummy change, just for testing circle ci	yesterday	
📁 cloud-gateway	support argocd	21 hours ago	
📁 customers-service	support argocd	21 hours ago	
📁 doc/images	add aliyun k8s deploy arch image	2 months ago	
📁 k8s	support argocd	21 hours ago	
📁 vets-service	support argocd	21 hours ago	
📁 visits-service	support argocd	21 hours ago	
📁 web-app	support argocd	21 hours ago	
📄 .gitignore	initial commit	2 months ago	
📄 LICENSE	initial commit	2 months ago	
📄 README.md	add aliyun k8s deploy arch image	2 months ago	
📄 pom.xml	support circleci	2 days ago	
📄 project-dirs	support circleci	2 days ago	

circleci.com



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By signing up, you are agreeing to our [Terms of Service](#) and [Privacy Policy](#). We ask for read/write access to make your experience seamless on CircleCI.

Start building

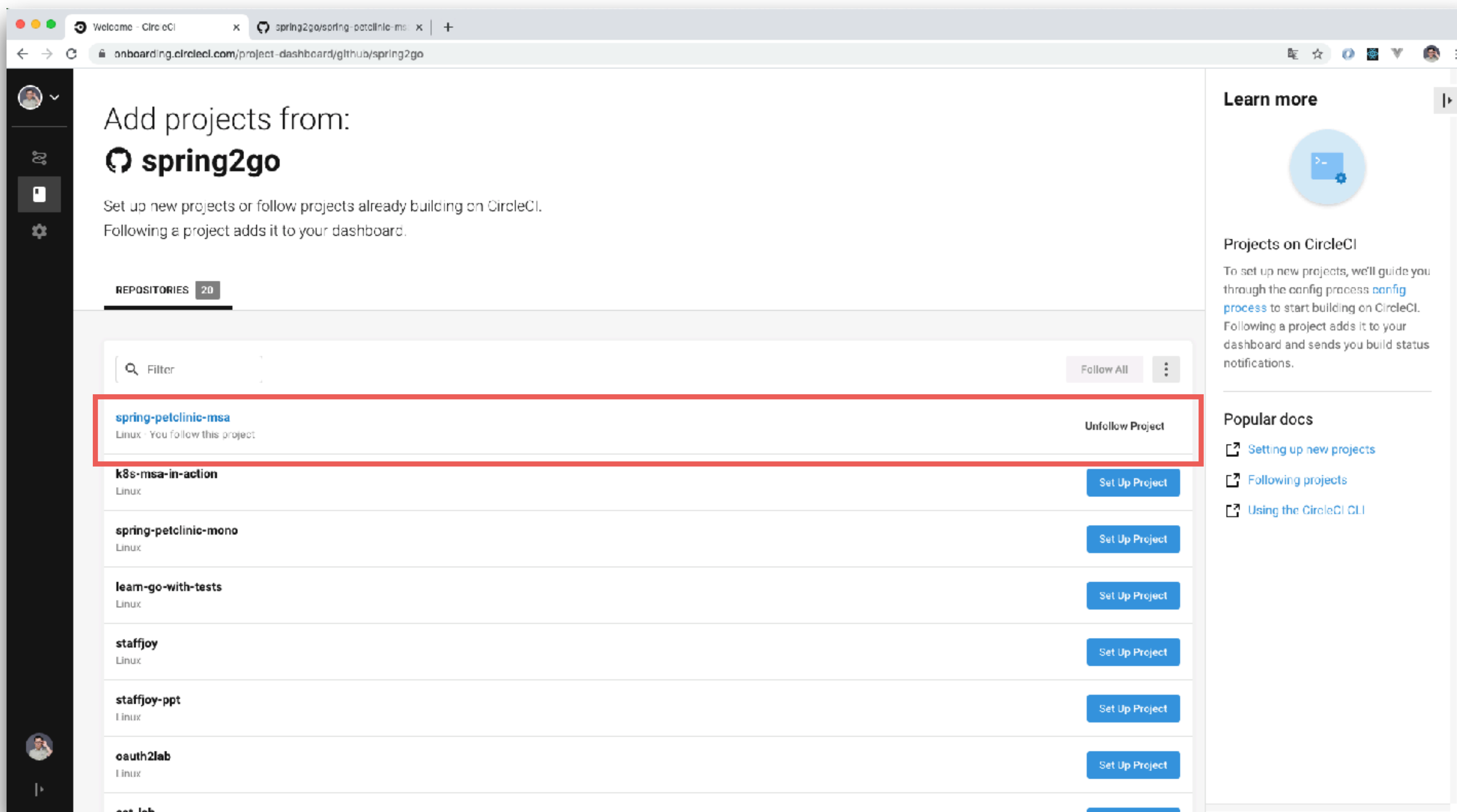


Sign up With GitHub



Sign up With Bitbucket

设置项目[手动添加config.yml]



添加环境变量

Environment Variables - spring

spring2go/spring-petclinic-cus

ui.circleci.com/settings/project/github/spring2go/spring-petclinic-msa/enviro

Project Settings

spring-petclinic-msa

Overview

Advanced

Environment Variables

SSH Keys

API Permissions

Jira Integration

Environment Variables

Environment variables let you add sensitive data (e.g. API keys) to your jobs rather than placing them in the repository. The value of the variables cannot be read or edited in the app once they are set.

Name	Value	
CIRCLE_TOKEN	xxxx64eb	×
DOCKER_PASS	xxxx5108	×
DOCKER_USER	xxxxg2go	×

Add Variable

CircleCI

spring2go/spring-petclinic-cus

account.circleci.com/settings/user/tokens?return-to=https%3A%2F%2Fapp.circleci.com%2Fgithub%2Fspring2go%...

User Settings

架构师波波

Account Integrations

Notifications

Privacy & Security

Personal API Tokens

Organization Plans

Beta Program

Personal API Tokens

Tokens you have generated that can be used to access the CircleCI API. Apps using these tokens can act as you and have full read- and write-permissions!

API Tokens

Create New Token

spring_petclinic_msa_ci_token

Mon Feb 17 2020, 下午11:59:22

×

查看项目Pipeline

spring2go 架构师波波

Pipelines

Project Settings

Filters: spring-petclinic-msa All Pipelines All Branches

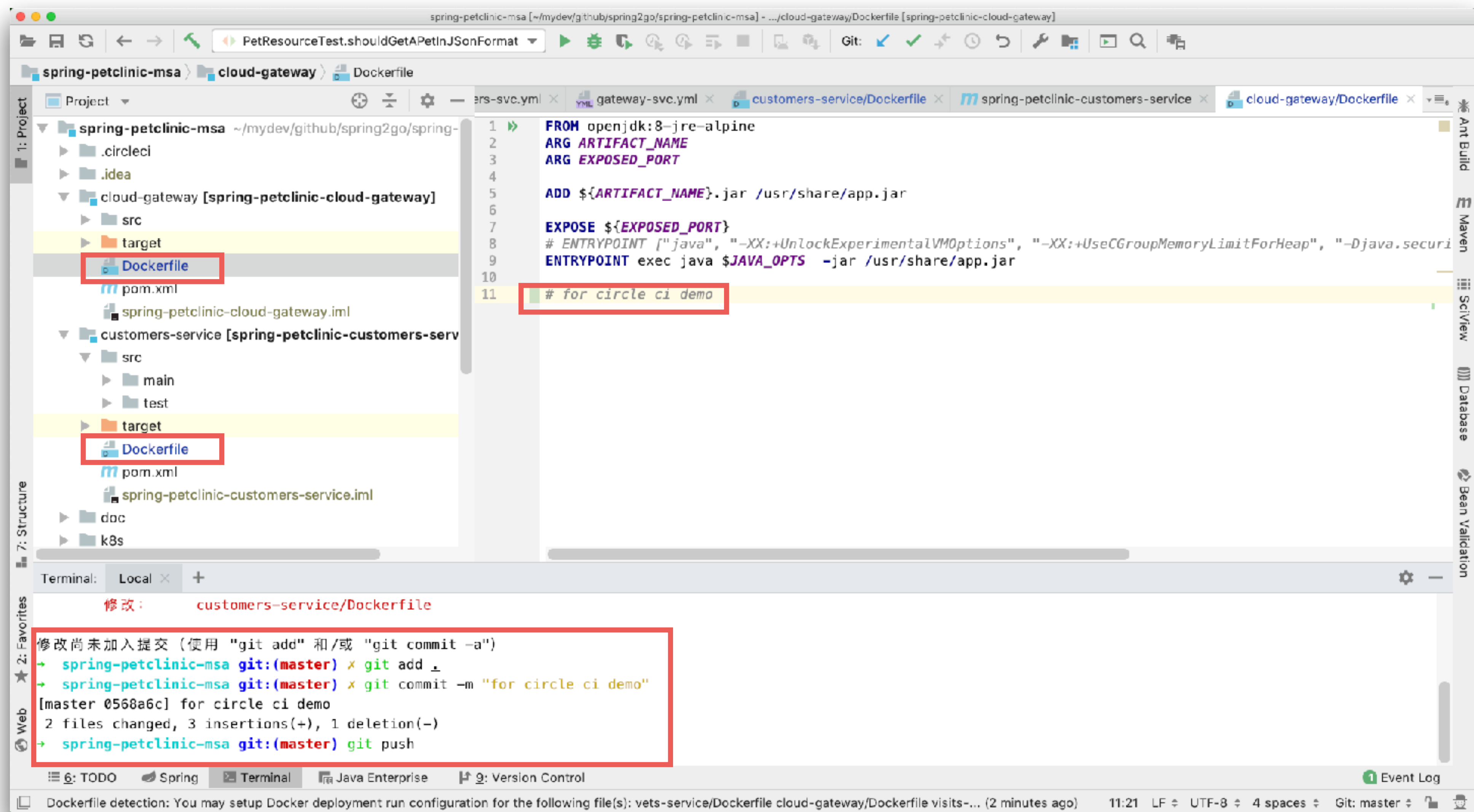
PIPELINE	STATUS	WORKFLOW	BRANCH	COMMIT	STARTED	DURATION
#33	SUCCESS	workflow	master	support argood	24 hours ago	19s
#32	SUCCESS	cloud-gateway	master		24 hours ago	43s
#31	SUCCESS	workflow	master	test argood support for gateway	24 hours ago	8s
#30	SUCCESS	web-app	master		1 day ago	2m 0s
#29	SUCCESS	visits-service	master		1 day ago	1m 13s
#28	SUCCESS	vets-service	master		1 day ago	1m 14s
#27	SUCCESS	customers-service	master		1 day ago	54s
#26	SUCCESS	cloud-gateway	master		1 day ago	54s
#25	SUCCESS	workflow	master	support argood	1 day ago	21s
#24	SUCCESS	customers-service	master		1 day ago	52s
#23	SUCCESS	workflow	master	dummy change, just for testing circle ci	1 day ago	11s
#22	FAILED	customers-service	master		1 day ago	43s
#21	SUCCESS	workflow	master	dummy change, just for testing circle ci	1 day ago	20s
#20	SUCCESS	workflow	master	refactor circleci config	1 day ago	10s

Welcome to a preview of the new CircleCI Job experience

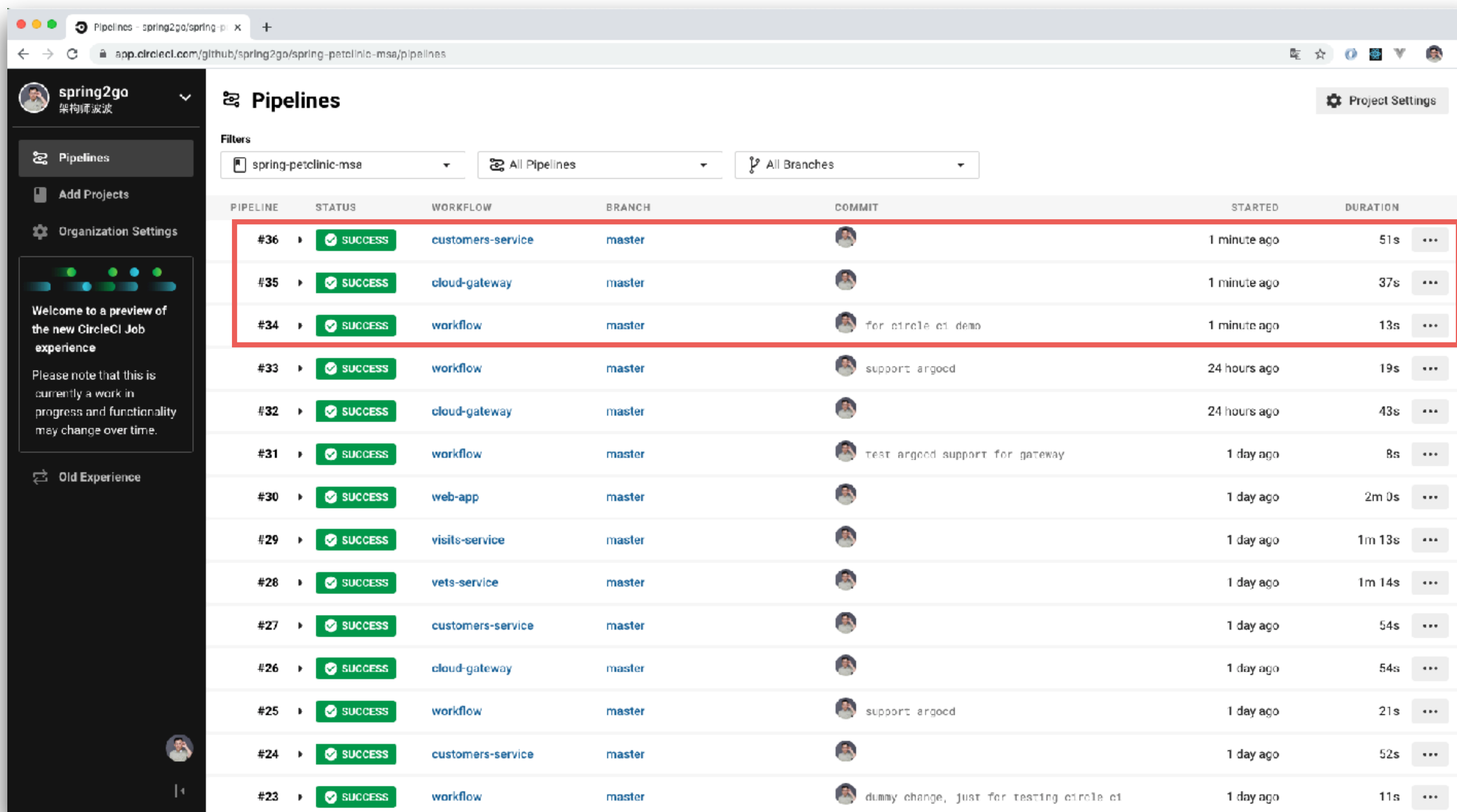
Please note that this is currently a work in progress and functionality may change over time.

Old Experience

简单修改Petclinic微服务+提交



CircleCI构建触发



PIPELINE	STATUS	WORKFLOW	BRANCH	COMMIT	STARTED	DURATION
#36	SUCCESS	customers-service	master		1 minute ago	51s
#35	SUCCESS	cloud-gateway	master		1 minute ago	37s
#34	SUCCESS	workflow	master	for circle ci demo	1 minute ago	13s
#33	SUCCESS	workflow	master	support argood	24 hours ago	19s
#32	SUCCESS	cloud-gateway	master		24 hours ago	43s
#31	SUCCESS	workflow	master	test argood support for gateway	1 day ago	8s
#30	SUCCESS	web-app	master		1 day ago	2m 0s
#29	SUCCESS	visits-service	master		1 day ago	1m 13s
#28	SUCCESS	vets-service	master		1 day ago	1m 14s
#27	SUCCESS	customers-service	master		1 day ago	54s
#26	SUCCESS	cloud-gateway	master		1 day ago	54s
#25	SUCCESS	workflow	master	support argood	1 day ago	21s
#24	SUCCESS	customers-service	master		1 day ago	52s
#23	SUCCESS	workflow	master	dummy change, just for testing circle ci	1 day ago	11s

主 workflow 执行结果

The screenshot displays the CircleCI interface for a build job named 'build (34)'. The job status is 'SUCCESS'. The build duration is 6s, and it finished 4 minutes ago. The build is associated with the repository 'spring2go/spring-petclinic-msa' and the branch 'master'.

The build steps are listed as follows:

- Spin Up Environment (7s)
- Preparing Environment Variables (0s)
- Checkout code (0s)
- Determine which directories have changed (2s)

The output of the 'Determine which directories have changed' step is shown below, with the modified directories highlighted in a red box:

```
#!/bin/bash -eo pipefail
git diff --no-commit-id --name-only -r `git log -n 2 --oneline --pretty=format:"%h" | tail -n1` | cut -d/ -f1 | sort -u > projects
printf "Modified directories:\n"
cat projects
while read project; do
  if grep -Fxq $project project-dirs; then
    printf "\nTriggerring build for project: '$project'
    curl -s -u ${CIRCLE_TOKEN} -d build_parameters[CIRCLE_JOB]=$project https://circleci.com/api/v1.1/project/github/${CIRCLE_PROJECT_USERNAME}/${CIRCLE_PROJECT_REPONAME}/tree/${CIRCLE_BRANCH}
  fi
done < projects

Modified directories:
cloud-gateway
customers-service

Triggerring build for project: cloud-gateway{
  "compare" : null,
  "previous successful build" : {
    "build_num" : 33,
    "status" : "success",
    "build_time_millis" : 15886
  },
  "build_parameters" : {
```

customers-service构建任务执行结果

spring2go
架构师波波

Pipelines

Add Projects

Organization Settings

Welcome to a preview of the new CircleCI Job experience

Please note that this is currently a work in progress and functionality may change over time.

Old Experience

Pipelines / customers-service / customers-service (36)

customers-service SUCCESS

Duration 47s
Finished 5 minutes ago

master
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STEPS

TESTS

ARTIFACTS

Spin Up Environment

3s

Preparing Environment Variables

0s

Checkout code

0s

Setup a remote Docker engine

1s

Login to Dockerhub

0s

Restoring Cache

5s

mvn dependency:go-offline

2s

Saving Cache

0s

mvn clean package -Ddocker.image.tag=Build-\${CIRCLE_BUILD_NUM}-CI -Ddockerfile.maven.settings.auth=false

17s

mvn dockerfile:push -Ddocker.image.tag=Build-\${CIRCLE_BUILD_NUM}-CI

11s

Uploading artifacts

2s

校验镜像成功上传

customers-service (36) - spring x

spring2go/spring-petclinic-cus x


+

hub.docker.com/r/spring2go/spring-petclinic-customers-service/tags?page=1&na

Try the two-factor authentication

dockerhub

Search for great content (e.g., mysql)



spring2go/spring-petclinic-customers

By [spring2go](#) • Updated 8 minutes ago

Container

Overview

Tags

Q 36 x

Sort by Latest

IMAGE

Build-36-CI

Last updated 8 minutes ago by [spring2go](#)

DIGEST

df024c786436

OS/ARCH

linux/amd64

COMPRESSED SIZE ⓘ

90.34 MB

docker pull spring2go/spring-petclini


customers-service

SUCCESS

🕒 Duration 47s

Finished 5 minutes ago

🔗 master

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STEPS

TESTS

ARTIFACTS

▶

✓

 Spin Up Environment

▼

✓

 Preparing Environment Variables

Using build environment variables:

BASH_ENV=/tmp/.bash_env-5e4ce48c4be40c75e88b4410-0-build

CI=true

CIRCLECI=true

CIRCLE_BRANCH=master

CIRCLE_BUILD_NUM=36

CIRCLE_BUILD_URL=https://circleci.com/gh/spring2go/spring-petclinic-msa/36

CIRCLE_COMPARE_URL=

CIRCLE_JOB=customers-service

CIRCLE_NODE_INDEX=0

本课小结



- 演示利用CircleCI对Petclinic微服务进行持续集成
 - 手动添加.circleci/config.yml
 - 生成Personal Access Token
 - 环境变量：CIRCLE_TOKEN/DOCKER_USER/DOCKER_PASS
 - 通过步骤日志窗口调试问题