



云原生实战

持续集成/持续交付全流程流水线工具的落地

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0. DevOps 生命周期

1. 实验准备

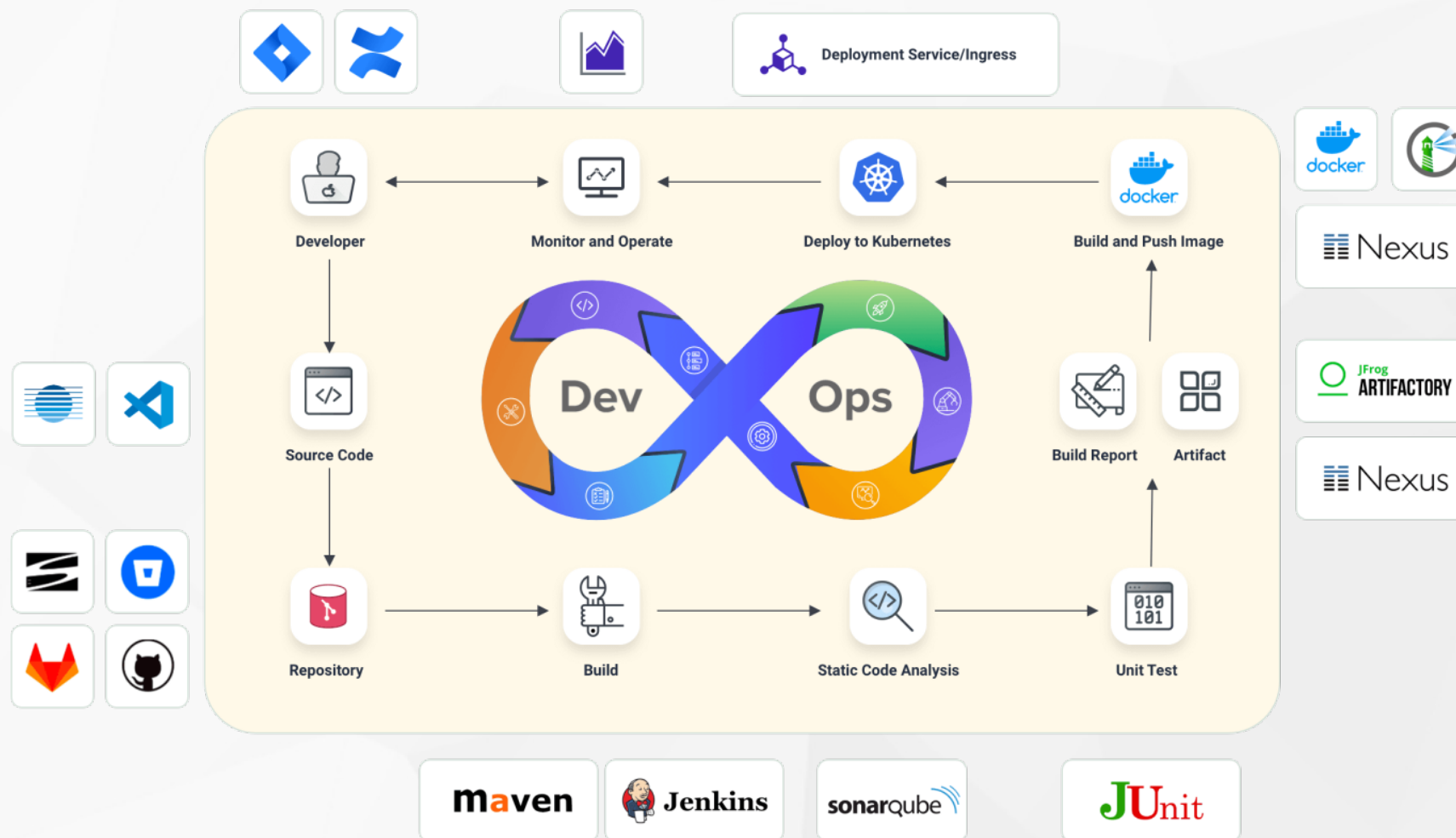
2. 质量扫描、单元测试和制品管理

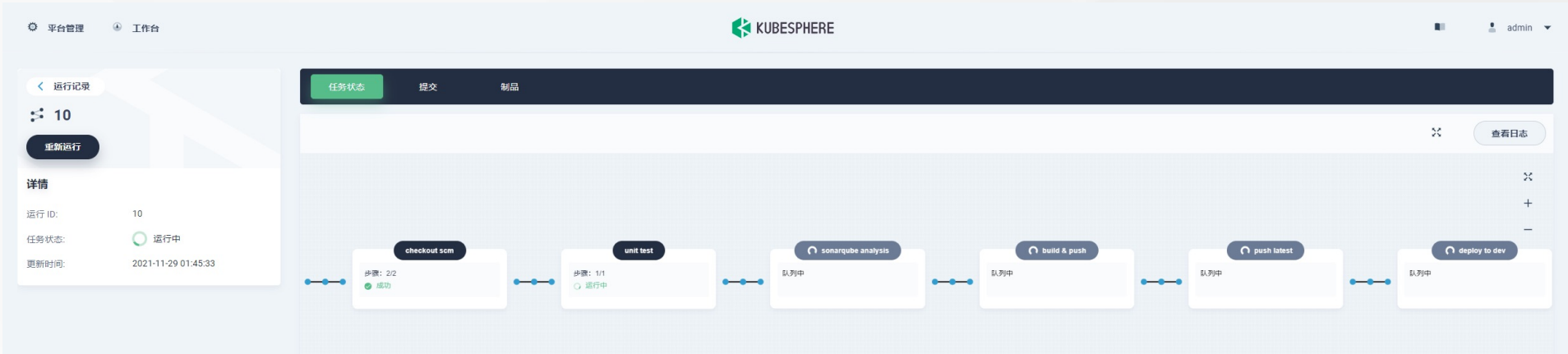
3. 自动测试构建

4. 自动部署

DevOps 生命周期

KubeSphere Container Platform





0.1. 搭建好 KubeSphere 3.2.1 (及以上版本) 并启用 DevOps

- [KubeSphere DevOps 系统](#)

0.2. 搭建 SonarQube 并配置到 KubeSphere

- [将 SonarQube 集成到流水线 \(kubesphere.com.cn\)](#)

1. 创建 DevOps 项目

- demo

2. 创建 Demo 项目

- kubesphere-sample-dev

3. Fork Demo 仓库

- <https://gitlab.com/ks-devops/devops-maven-sample>
- 修改 sonarqube 分支下的 Jenkinsfile-online

4. 创建流水线所需要的凭证信息

- dockerhub-id
- sonar-token
- demo-kubeconfig
- gitlab-id

5. 创建多分支流水线

- devops-maven-sample



应用商店

工作台

KUBESPHERE

project-regular

流水线列表

graphical-pipeline

编辑信息

更多操作

详情

DevOps 工程: demo-devops

状态: 成功

同步状态: 成功

更新时间: 2021年 6月 10日 16:41

健康

健康状态

分支数量

流水线

代码质量

活动

检测结果

sonarqube

代码质量检查 已通过

行数 118

Bug 0 个

代码漏洞 1 个

容易出错 0 行

覆盖率 0.0 %

问题

阻断 0

严重 1

重要 0

次要 0

提示 0

io.kubernetes.devops:devops-sample:src/main/java/io/kubernetes/devops/HelloWorldController.java

Add a "method" parameter to this "@RequestMapping" annotation.

严重 漏洞 行号: 15

单元测试



Platform Workbench KUBESPHERE admin

Run Records 6 Rerun

Details

Runs: 6

Task Status: Running

Update Time: 2021-11-29 00:07:31

Task Status Commits Artifacts

Pipeline Run Logs

Stage checkout scm Duration: 2.94 min Refresh View Logs Download Logs

Stage unit test

Stage sonarqube analysis

Stage build & push

```
200 kB/s)
[INFO]
[INFO] -----
[INFO] T E S T S
[INFO] -----
[INFO] Running io.kubernetes.devops.HelloWorldControllerTest
[INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.173 s - in
io.kubernetes.devops.HelloWorldControllerTest
[INFO]
[INFO] Results:
[INFO]
[INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0
[INFO]
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 02:53 min
[INFO] Finished at: 2021-11-28T16:11:24Z
[INFO] -----
```

View Logs

build & push

Close

⚙️ 平台管理

👤 工作台

KUBESPHERE

admin

< 运行记录

🔍 13

重新运行


详情

运行 ID: 13

任务状态: 成功

更新时间: 2021-11-29 02:24:45

任务状态 提交 制品

名称	大小	下载
target/devops-sample-0.0.1-SNAPSHOT.jar	16.50 MB	

总数: 1

GitLab

GitLab Servers

GitLab Server

Display Name

https://gitlab.com

A unique name for the server

Server URL

https://gitlab.com

The url to the GitLab server

Credentials

gitlab-id

Add

The Personal Access Token for GitLab APIs access

Web Hook

☒ Manage Web Hooks

Do you want to automatically manage GitLab Web Hooks on Jenkins Server?

System Hook

☒ Manage System Hooks

Do you want to automatically manage GitLab System Hooks on Jenkins Server?

Secret Token

Concealed

Change Password

The secret token used while setting up hook url in the GitLab server

Root URL for hooks

Jenkins root URL to use in hooks URL (if different from the public Jenkins root URL)

Credentials verified for user ks-devops

Test connection

Delete

Add GitLab Server

GitLab

Menu

Search GitLab

Hook executed successfully: HTTP 200

Wiki page events

☐ Deployment events
URL is triggered when a deployment starts, finishes, fails, or is canceled

☐ Feature flag events
URL is triggered when a feature flag is turned on or off

☐ Releases events
URL is triggered when a release is created or updated

SSL verification

☒ Enable SSL verification

Add webhook

Project Hooks (1)

http://42.42.42.42:30180/gitlab-webhook/post

Push Events Tag Push Events Merge Requests Events

SSL Verification: enabled

Test Edit Delete

平台管理

工作台

KUBESPHERE

admin

运行记录

11

重新运行

详情

运行 ID:

11

任务状态:

已暂停

更新时间:

2021-11-29 01:57:40

任务状态

提交

制品

查看日志

push latest

步骤: 2/2

成功

deploy to dev

等待输入

deploy to dev?

Proceed

终止

push with tag

队列中

队列中



谢谢观看