

Day 18 ContainerOps介绍



大纲

- 什么是 持续集成/持续交付
- 常用CI/CD工具介绍
- 容器化为 集成/交付 带来了什么
- 华为容器化CI/CD流水线介绍
- 创建一条流水线

什么是持续集成 & 持续交付

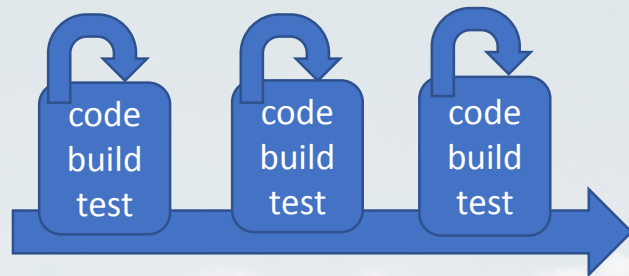
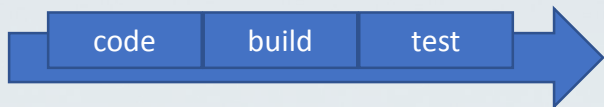
持续集成（英语：Continuous integration，缩写CI）是一种软件 engineering 流程，是将所有软件工程师对于软件的工作副本持续集成到共享主线（mainline）的一种举措。

持续交付（英语：Continuous delivery，缩写为CD），是一种软件 engineering 手法，让软件产品的产出过程在一个短周期内完成，以保证软件可以稳定、持续的保持在随时可以释出的状况。它的目标在于让软件的建置、测试与释出变得更快以及更频繁。

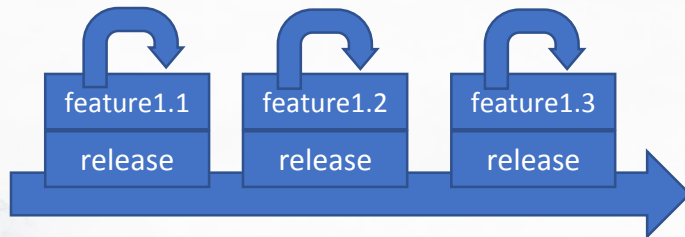
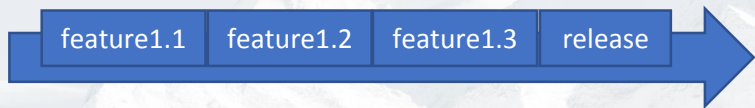
--维基百科

什么是持续集成 & 持续交付

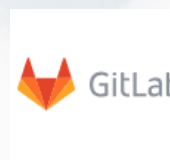
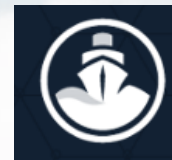
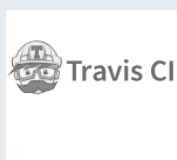
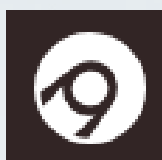
持续集成(CI)



持续集成(CD)



常用的CI/CD工具及使用



Jenkins

MultiJob Project -Master

添加说明
禁用项目

Job	S	W	Last Success	Last Failure	Last Duration	Console
-Master			53 分	11 days	10 分	
-Compile			52 分	11 days	4 分 49 秒	
-Statistics			52 分	N/A	1 分 4 秒	
-SmokeTest&LLT&Build						
-MANAGE-LLT			N/A	N/A	N/A	
-MANAGE-Build			N/A	N/A	N/A	
-MANAGE-Pack			47 分	N/A	5 分 36 秒	

图标: S M L

Build History 构建历史

find x

- #356 2018-11-5 下午4:00
- #355 2018-11-4 下午4:00
- #354 2018-11-3 下午4:41

GitLabCi

The screenshot shows the GitLab CI Pipelines interface for a project named 'test10'. The top navigation bar includes links for Projects, Groups, Activity, Milestones, and Snippets. The left sidebar contains a menu with Overview, Repository, Registry, Issues, Merge Requests, and CI / CD. Under CI / CD, the Pipelines section is selected. The main content area displays a table of pipeline runs. The table has columns for Status, Pipeline, Commit, Stages, and a dropdown menu. Two pipeline runs are shown, both with a 'passed' status. The first run is #24 by 'latest' on the 'master' branch with commit '1d754d1e', and the second run is #23 by 'latest' on the 'master' branch with commit '9672d16d'. Both runs were executed 3 weeks ago and took 00:00:40 and 00:00:39 respectively. The interface also includes buttons for 'Run Pipeline', 'Clear Runner Caches', and 'CI Lint'.

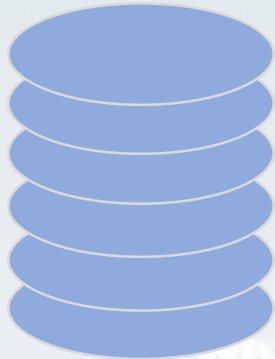
Administrator > test10 > Pipelines

All 2 Pending 0 Running 0 Finished 2 Branches Tags Run Pipeline Clear Runner Caches CI Lint

Status	Pipeline	Commit	Stages	
passed	#24 by latest	master -> 1d754d1e Update main.go	✓ ✓	00:00:40 3 weeks ago
passed	#23 by latest	master -> 9672d16d Update main.go	✓ ✓	00:00:39 3 weeks ago

容器化为 集成/交付 带来了什么

容器镜像:



docker file:

```
FROM ubuntu:14.04
ENV CATALINA_HOME /usr/tomcat
RUN apt-get install tomcat7
ADD /workdir/webapp.war
EXPOSE 8080
CMD ["catalina.sh", "run"]
```

操作系统

系统配置

系统软件

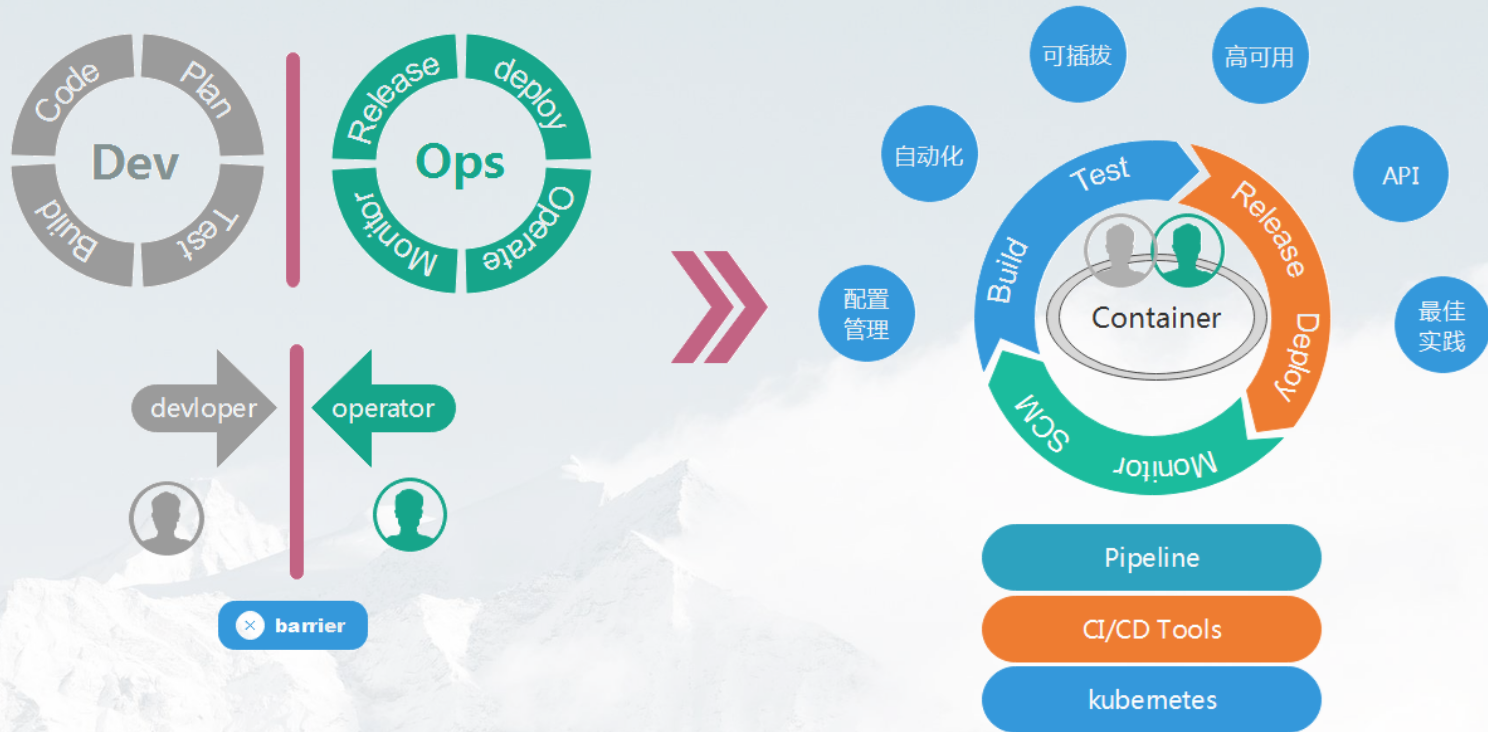
应用war

应用配置

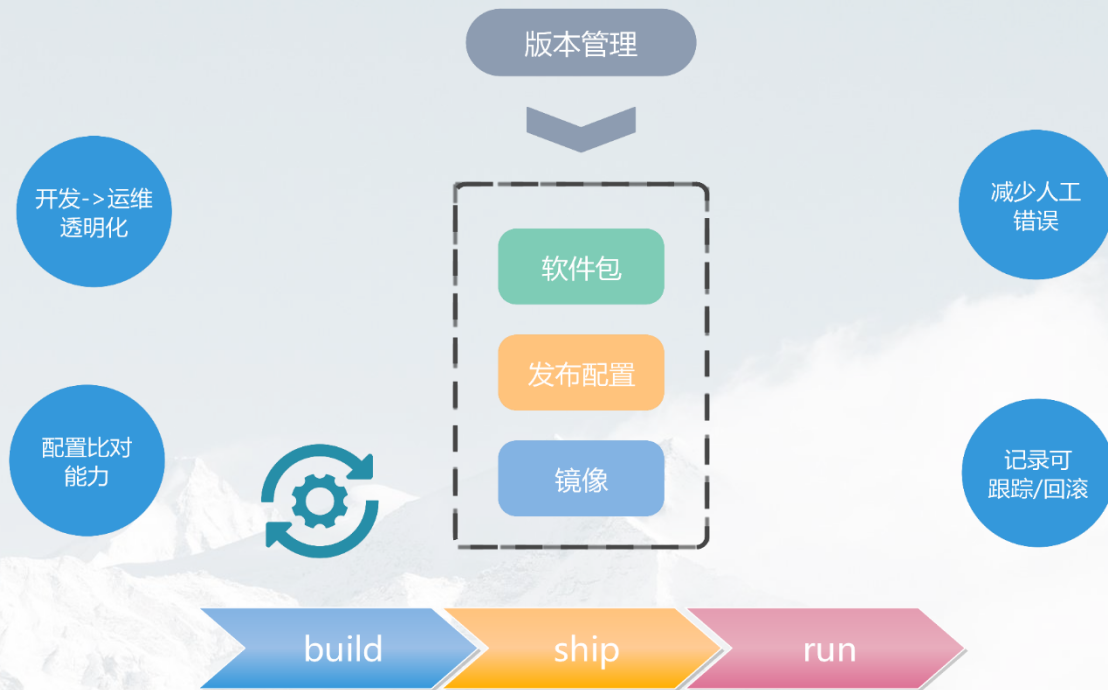
容器化为 集成/交付 带来了什么



华为容器化CI/CD流水线



华为容器化CI/CD流水线



基于不同ci过程的流水线

基于源代码
构建镜像并发布



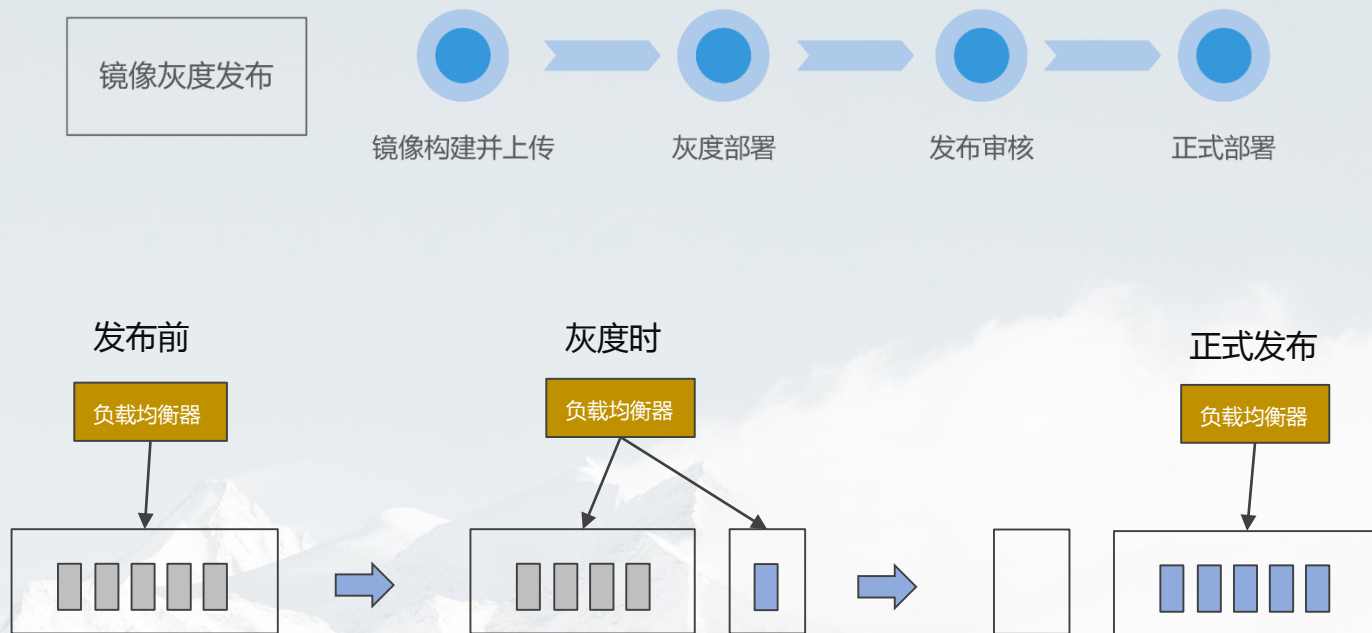
基于二进制
构建镜像并发布



对接三方jenkins
构建镜像并发布



更好的发布过程



Thank you.

把数字世界带入每个人、每个家庭、
每个组织，构建万物互联的智能世界。

Bring digital to every person, home, and
organization for a fully connected,
intelligent world.

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