# 创业公司的









### Agenda:

- 1. 背景介绍
- 2. Docker 之于 测试开发
- 3. Docker 之于 线上部署

# CuriosityChina is a digital and tech company focusing on the development of Social CRM, building a one stop social media customer/user management platform - CURIO.

### By tracking, analyzing and combining the data of

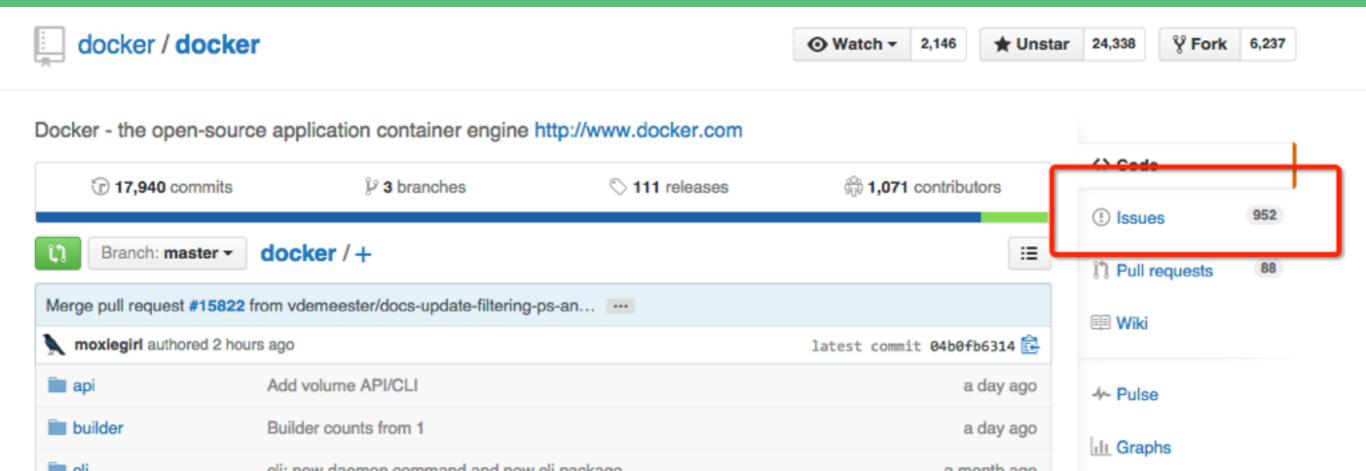
clients' customer/user behavior across all online channels, planning and executing strategically according to the clients' brand DNA/features, CuriosityChina improves the performances across social media platforms particularly on WeChat and Weibo, enlarges or builds up the CRM database, and brings higher quality and more loyal customers.

We have offices in Beijing, Shanghai, Hong Kong and Paris, providing international working environments with employees from all over the world.









### STEP 1

引入到开发环境中

## 目标

- 1. 新人加入团队能快速上手
- 2. 按需配置



### 应用程序运行环境的依赖描述!



之于

应用程序



之于



Godeps

之于



= pip

之于









Core OS +















### Docker Compose







```
docker-compose.yml 372 Bytes
```

```
msupervisor:
         image: dev
         volumes:
             - /home/vagrant/shared/codes/golang/src:/go/src
 5
         ports:
 6
            - "80:8080"
             - "9088:49895"
        links:
             - redis
10
            - mongo
11
        working_dir: /go/src/c
12
13
     redis:
14
         image: redis
15
         ports:
16
             - "6379:6379"
17
18
     mongo:
19
         image: mongo-rs
20
         ports:
21
             - "27017:27017"
```



#### "

#### Do you have a web interface?

KDocker-Web									
Containers in local C Create									
Images	ID	Description	Image	Command	Port	Status	Action		
Registry	fabf0688	pm-test123	dev:latest	/bin/bash	49895 -> 9088 80 -> 8080	Up About a minute	Attach Pause Stop Commit Remove		
	cc3646d6	pm-test123/redis,/pm-test123-redis	docker.cn/docker/redis:2.8.17	/entrypoint.sh redis-server	-> 6379	Up About a minute	Attach Pause Stop Commit Remove		
	c07f3ba5	pm-test123/mongo-rs,/pm-test123- mongo	mongo-rs:latest	/bin/sh -c 'mongodreplSet mm0logpath /var/log/mongodb/mongo.log smallfilesnoprealloc'	-> 27017	Up About a minute	Attach Pause Stop Commit Remove		
	8750584d	pm-pages-new	dev:latest	/bin/bash		Exited (0) 6 hours ago	Attach Pause Start Commit Remove		
	4b5c4116	pm-wechat-statistics	dev:latest	/bin/bash	80 -> 5000	Exited (0) 3 days	Attach Pause Start		

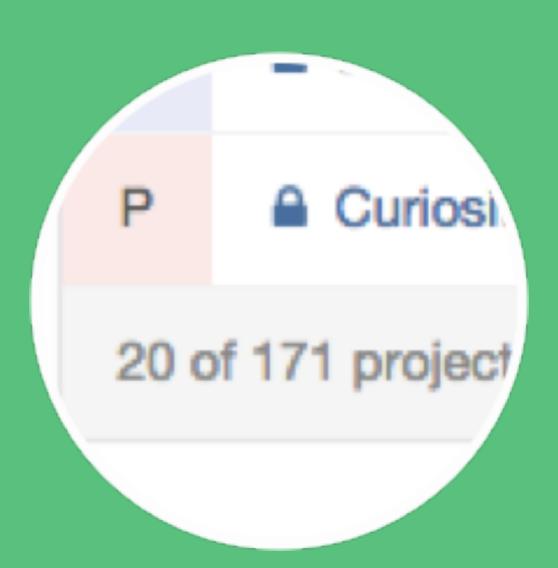
### 引入到开发环境中





### Business Driven

# 项目太多

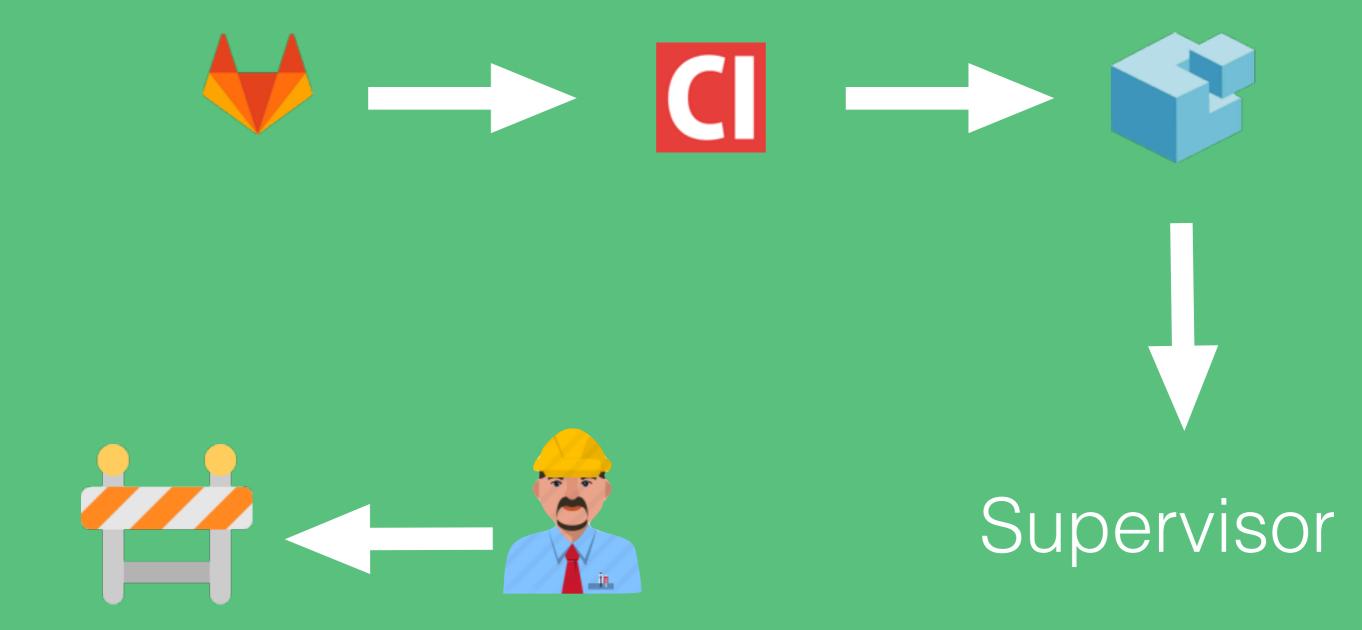


# 扩容麻烦

olas-3	● 活跃	rtr- 5y8epftm	192
ach-qixi-11	<ul><li>活跃</li></ul>	rtr- 5y8epftm	121
ach-qixi-8	● 活跃	rtr- 5y8epftm	120
ach-qixi-12	● 活跃	rtr- 5y8epftm	121
-helpcenter	● 活跃	rtr- 5y8epftm	122
-helpcenter-dashboard	● 活跃	rtr- 5y8epftm	122
-question-phone-2	● 活跃	rtr- 5y8epftm	122
genew-2	● 活跃	rtr- 5y8epftm	121
olas-2	● 活跃	rtr- 5y8epftm	192
olas-1	● 活跃	rtr- 5y8epftm	192
-command	<ul><li>活跃</li></ul>	rtr- 5y8epftm	122
-qrcode	<ul><li>活跃</li></ul>	rtr- 5y8epftm	122
-datacenter-1	<ul><li>活跃</li></ul>	rtr- 5y8epftm	122

# 定制化





### 目标

- 1. 自动的服务发现(负载均衡)
- 2. 计算资源调度,最大利用机器的资源
- 3. CI 流程自动化
- 4. 监控系统
- 5. 开发/部署环境统一
- 6. 可扩展

# 生产环节的尝试

### 第一次尝试

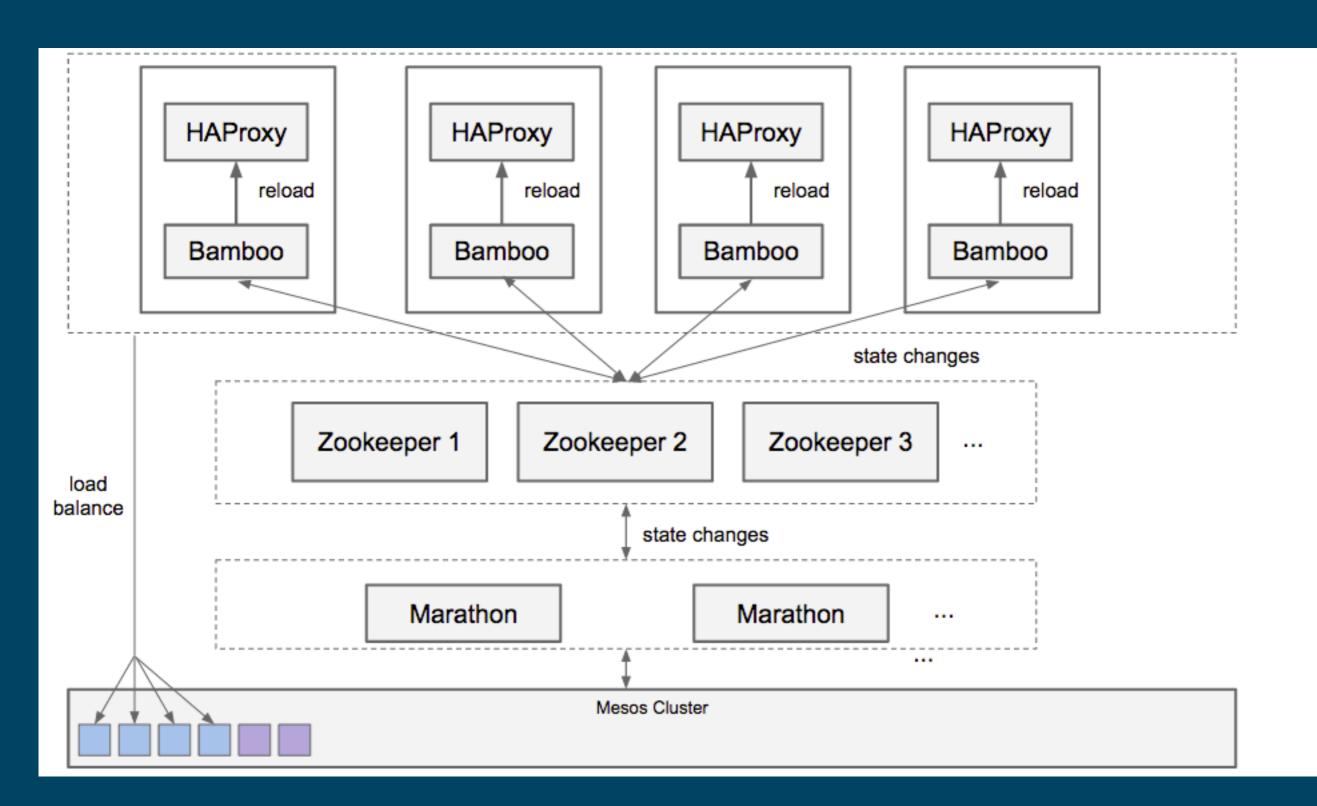


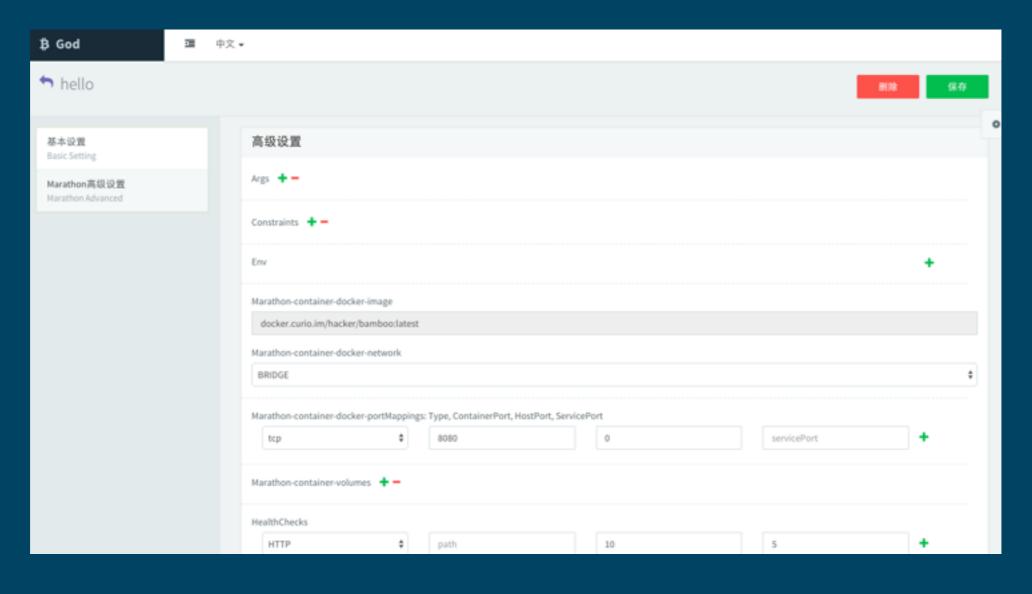
#### 快速失败

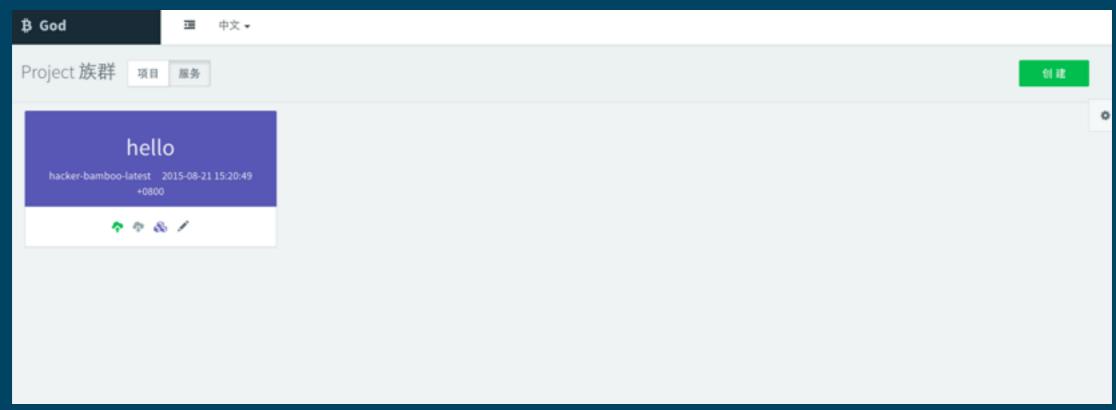
- 1. 青云的CoreOS最初的镜像版本有问题
- 2. CoreOS 更新不方便(翻墙)
- 3. CoreOS 迭代速度快,暂时稳定
- 4. etcd 2.0 将替换 0.46

### 第二次尝试









#### 失败:理想很丰满,现实很骨感



- 1. 没有zookeeper的运维经验
- 2. Marathon 的 event bus 不稳定
- 3. 应用无故的死掉,Mesos Cluster 瘫痪

只有对当下的自己合适且必须, 也确实在用的东西, 才会留在你的空间里。

—《断·舍·离》

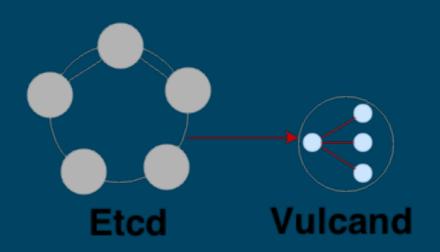
### 第三次尝试





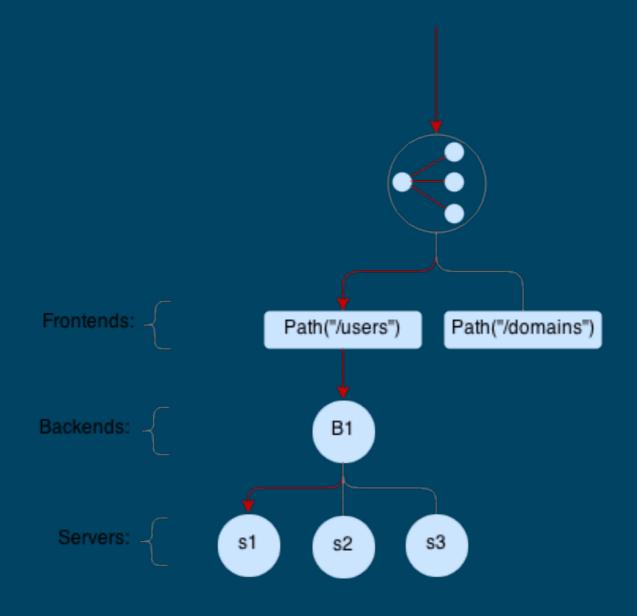
### VM的应用





### VM的应用



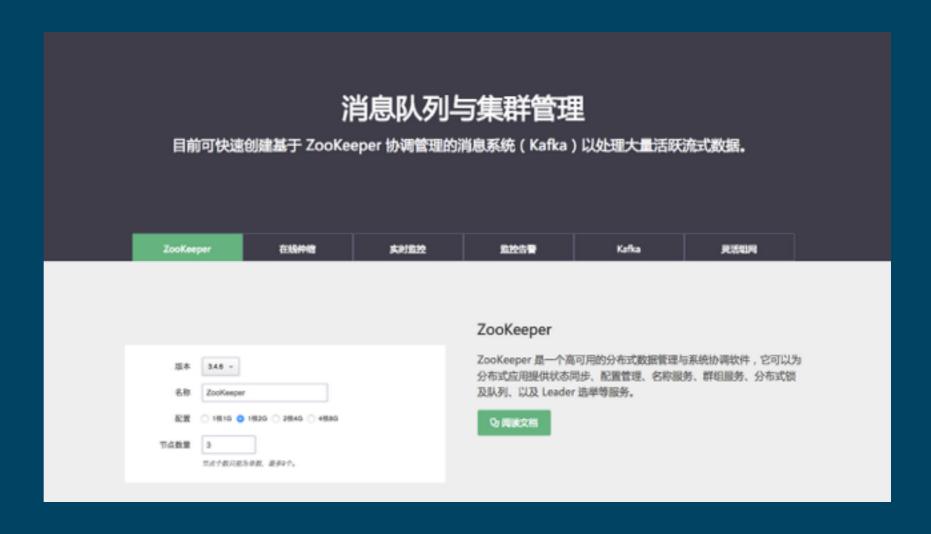


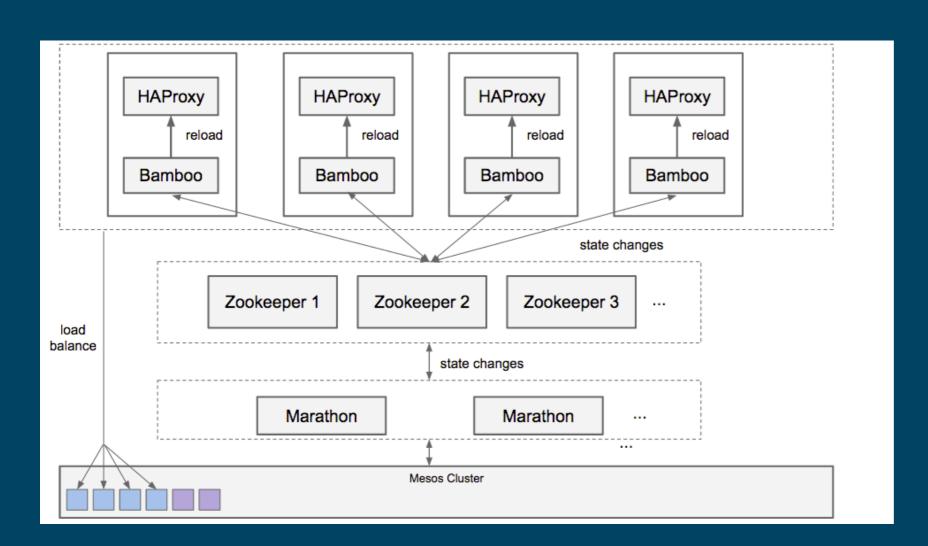
### Container 的应用



#### zookeeper 和 Mesos-Master 系统隔离



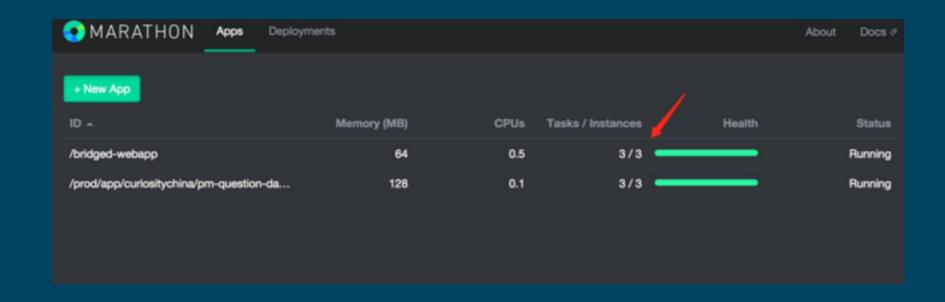








```
(venv)→ curio-cli git:(master) x curio --help
Usage: curio [OPTIONS] COMMAND [ARGS]...
 CuriosityChina Internal Tools.
Options:
 -v, --verbose Enables verbose mode.
  -h, --help
                 Show this message and exit.
Commands:
  apps Get all apps running in marathon.
 lc Luanch the common service in web browser.
 ps Resize the apps.
(venv)→ curio-cli git:(master) x curio apps all
                                                                           VERSION
                                                                                                                        MEM
                                                                                                                               INSTANCES
                                                                                                              CPUS
/bridged-webapp
                                                                           2015-08-21T23:06:25.953Z
                                                                                                                0.5
                                                                                                                         64.0 2
/prod/app/curiositychina/pm-question-dashboard-76b37a-2015-08-22-00
                                                                           2015-08-21T22:08:09.413Z
                                                                                                                0.1
                                                                                                                        128.0
(venv)→ curio-cli git:(master) x curio ps /bridged-webapp
Please enter number you want to resize?; 3
{u'deploymentId': u'6383e901-baf4-4ed6-94df-b1901bcfa1b4', u'version': u'2015-08-22T10:08:50.128Z'}
(venv)→ curio-cli git:(master) *
```





- 1. 现有的开发环节中一定要有自动部署
- 2. container中一定要有健康检查
- 3. marathon 的 task 需要考虑人类的感受
- 4. docker 是以 scalability 弥补 availability

# Join US







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#### CURIOSITYCHINA

DigitalActivation