

BEIJING 2018

多云应用管理平台架构设计

演讲者 / 迟连义







基于实践经验总结和提炼的品牌专栏 尽在**【极客时间】**





重拾极客时间,提升技术认知。



大纲

- ▶背景
- ▶功能
- ▶架构
- ▶应用场景

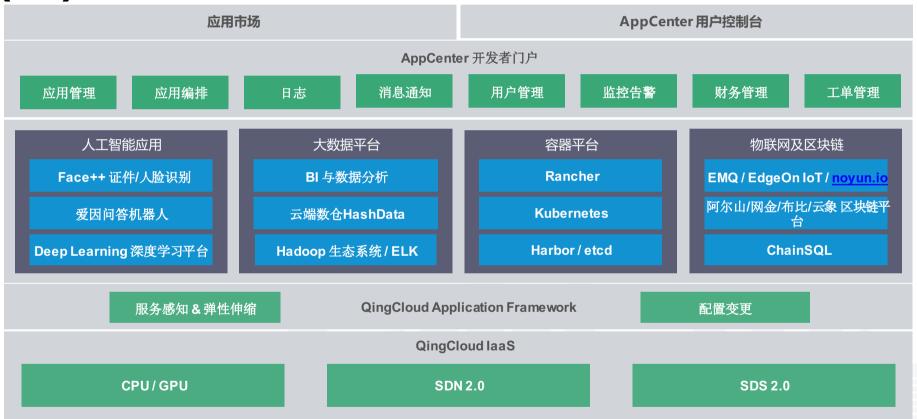


背景

- ▶多云是趋势
- ▶应用程序管理
- ▶建立生态



(硬)背景



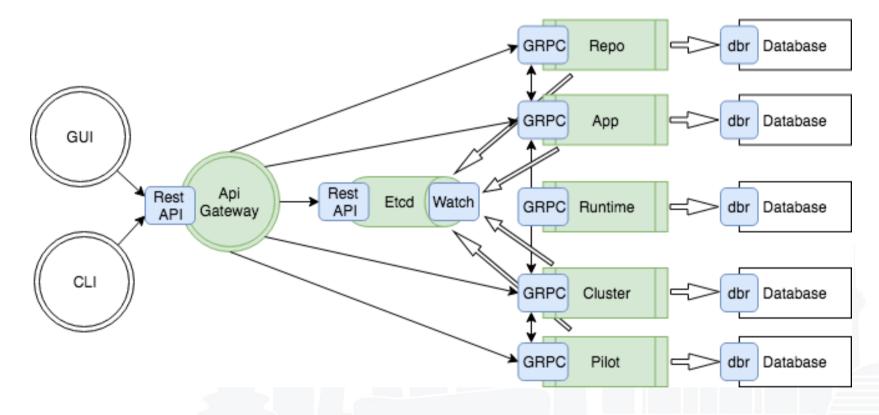
OPEN**P!TRIX**

Run any application at any scale on any infrastructure

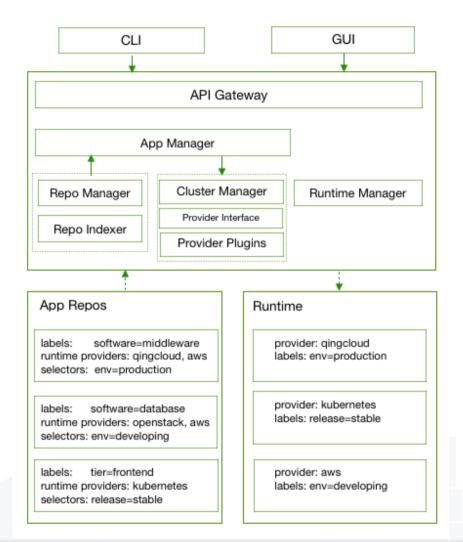
功能

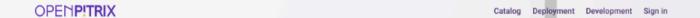


微服务架构



架构概览





Application Management Platform on Multi-Cloud Environment.

Q Search apps in Openpitrix..

CATEGORIES

Software Infrastructure

Business Software

Development

Operation and Maintenance

Security

Analysis

Uncategoires

Newest



Redis Cloud

Enterprise-Class Redis for Developers



ObjectRocket for MongoDB

High-Performance MongoDB with Fanatical Support™ and DBAs



JawsDB Maria

MariaDB, the open source drop-in replacement for MySQL now available on Heroku

Softwrae Infrastructure



Redis Cloud Enterprise-Class Redis for



Storj Distributed object storage



Treasure Data

Big Data Hadoop Analytics

more...



Heroku Redis

Reliable and powerful Redis



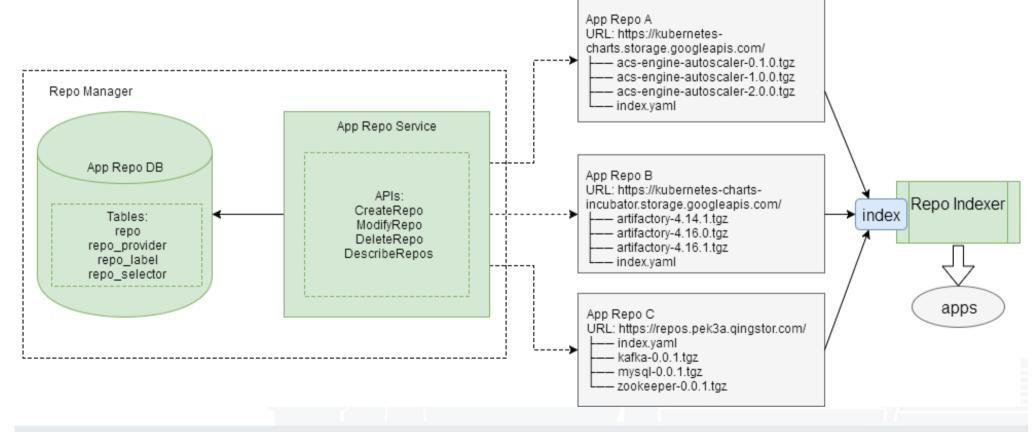
Heroku Postgres Reliable and powerful

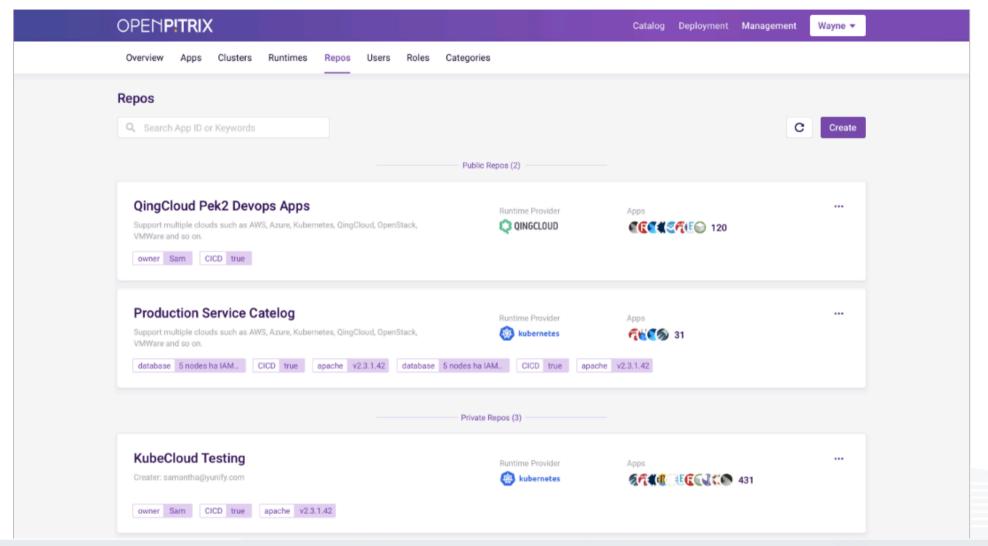


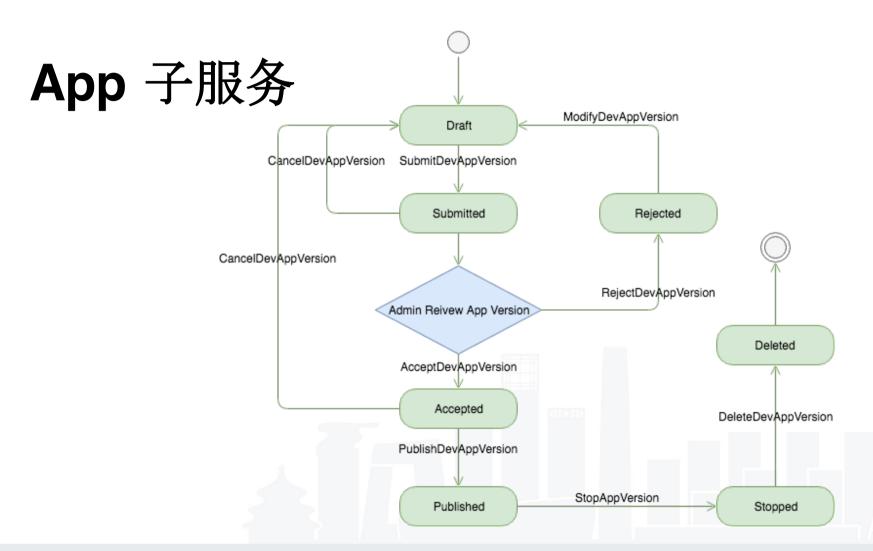
openredis

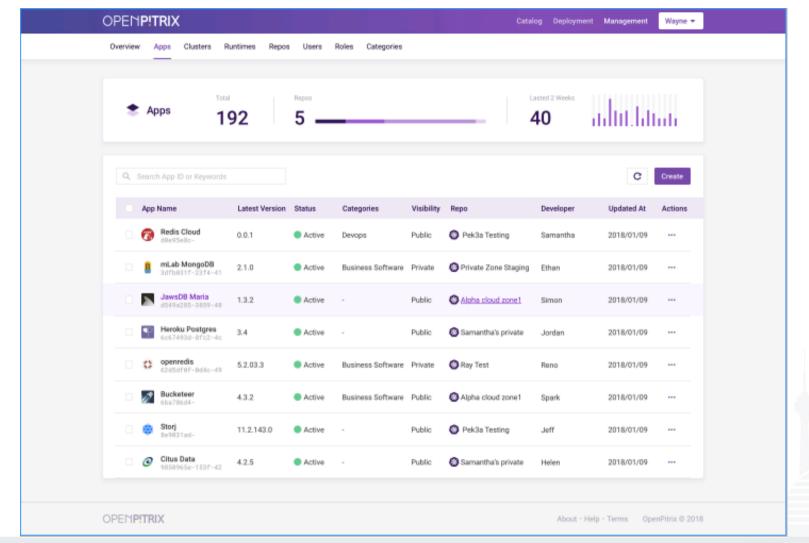
Dependable Redis Hosting.

Repo 子服务









部署问题

▶规范问题 -- 如何定义一个应用

▶解决:

➤ 微服务应用: Helm 规范

▶ 传统应用:沿用青云 AppCenter 规范

package.json # A json file containing app information

cluster.json.tmpl # A manifest tmpl file

config.json # A json file containing configuration values

LICENSE # OPTIONAL: The license or markdown file or link

README.md # OPTIONAL: A human-readable README file

locale/zh-cn.json # OPTIONAL: Containing language translation



config.json

```
"kev": "MYSQL",
"label": "MYSOL",
"description": "MySql properties",
"type": "array",
"properties": [
        "key": "cpu",
        "label": "CPU",
        "description": "CPUs of each node",
        "type": "integer",
        "default": 1,
        "range": [1,2,4,8,16],
        "required": "yes"
    },
        "key": "memory",
        "label": "Memory",
        "description": "memory of each node (in MB)",
        "type": "integer",
        "default": 2048,
        "range": [2048,8192,16384,32768,49152],
        "required": "yes"
```

第2步: MySql数据库设置

CPU* ● 1核 ● 2核 ● 4核 ● 8核 ● 16核 *每个节点的CPU 数量*内存* ● 2 G ● 8 G ● 16 G ● 32 G ● 48 G *每个节点的内存大小(单位MB)*数量* 1 ▼ *集群中的节点数量*实例类型* ● 性能型 ● 超高性能型 *创建的实例类型,例如超高性能,高性能*



cluster.json.tmpl

```
"name": "{{.cluster.name}}",
"description": "{{.cluster.description}}",
"subnet": "{{.cluster.subnet}}",
"nodes": [{
  "role": "zk".
  "container": {
     "type": "docker",
     "image": "gcr.io/google_samples/k8szk:v2"
  "count": "{{.cluster.role_name.count}}",
  "cpu": "{{.cluster.role_name.cpu}}",
  "memory": "{{.cluster.role_name.memory}}",
  "services": {
     "init": {
        "nodes_to_execute_on": 1,
        "post_start_service": false,
        "cmd": "/opt/zookeeper/bin/init-service.sh"
     "start": {
        "cmd": "/opt/zookeeper/bin/start-service.sh"
```

部署问题

▶映像问题 -- 应用映像如何分发到多云环境

▶解决:

- ➤ 微服务应用: Docker image 分发方式
- ▶ 传统应用: Vm image 由平台自动创建并 share



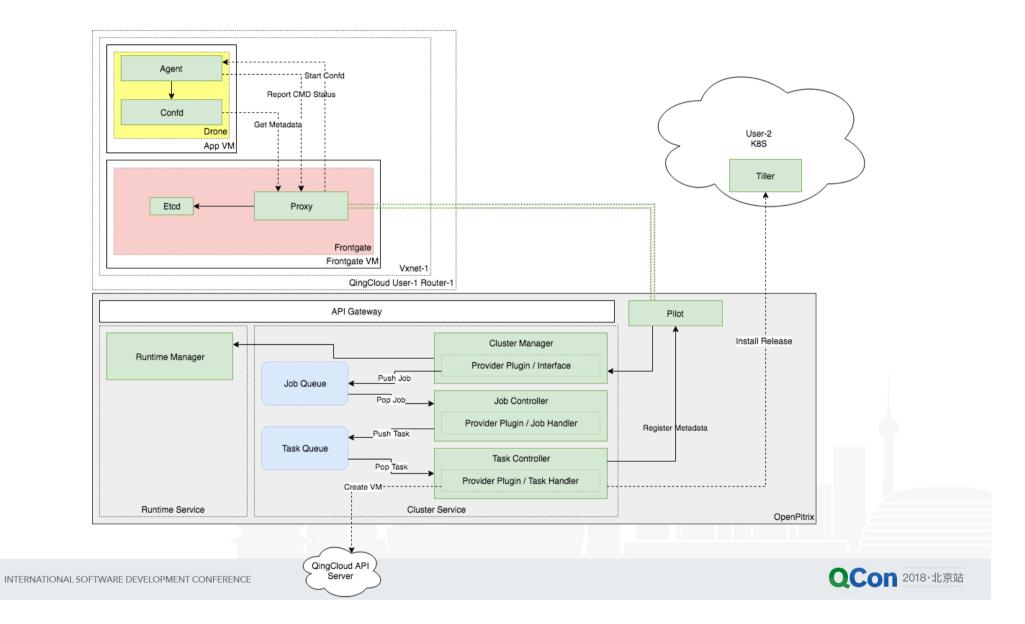
部署问题

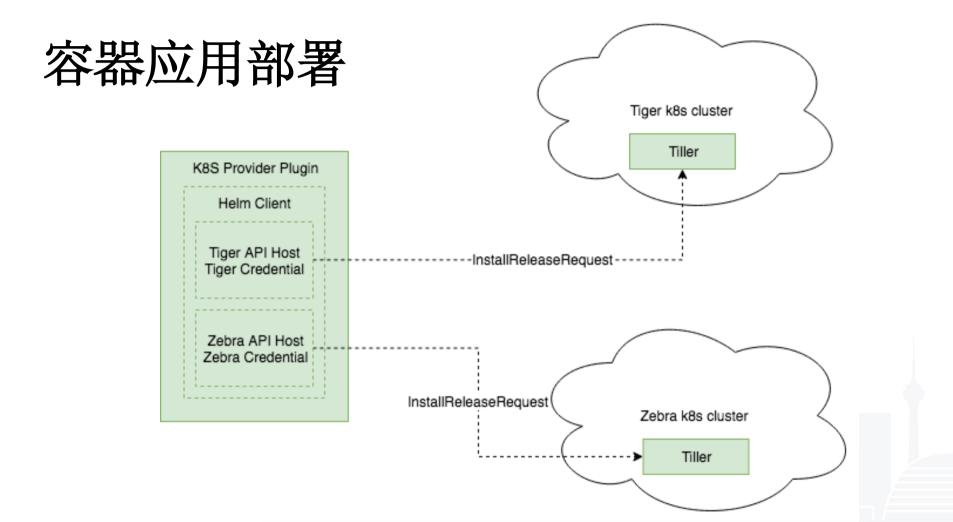
▶网络问题 -- 如何操作云主机执行命令

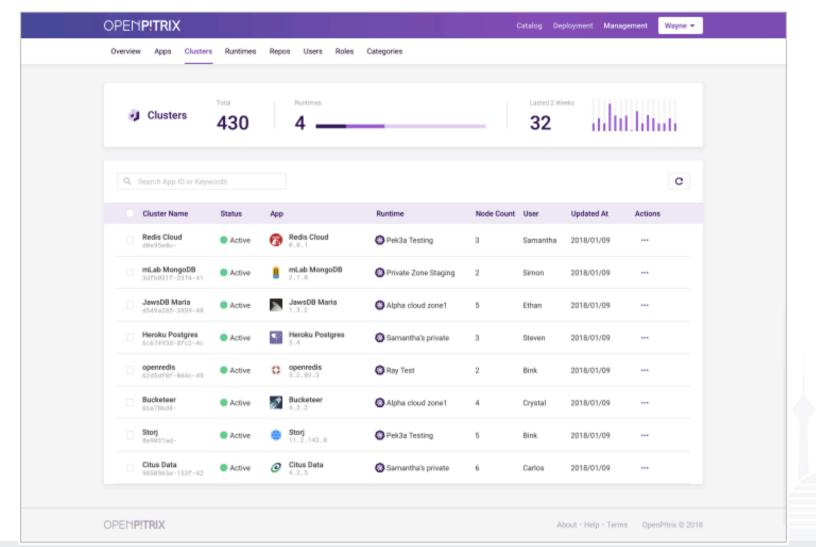
▶解决:

- ➤ 微服务应用: 经由 Kubernetes 的 api server
- ▶ 传统应用: 经由 Pilot + Frontgate + Drone 通路









应用场景

- ▶多云 (混合云) 一站式应用管理平台
- ▶云管平台(CMP)整合
- ▶可以作为Kubernetes的一个应用管理系统



关于 OPEN**P!TRIX**

➤官网: https://openpitrix.io/

▶开源: https://github.com/openpitrix

➤ Slack: openpitrix.slack.com





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