## apollo-1：apollo配置中心单机模拟分布式部署

**原创；微信公众号：千里行走；**

**受限图片大小限制，有些图片不是很清晰，可以到微信公众号查看；**

1.随着微服务和容器化大行起到，配置中心的重要性越来越高，携程的apollo(几月eureka)是其中的佼佼者。

2.真实分布式部署类似，部署在3台机器即可。

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正文

**(1).mysql5.7安装(centos7)**

vi /etc/yum.repos.d/mysql-community.repo

开启5.7-server的enabled=1,别的版本关掉。

yum install mysql安装

service mysqld start 启动

注意记住临时密码。然后登陆Mysql，修改root密码：ALTER USER 'root'@'localhost' IDENTIFIED BY 'newPassword123@';

SHOW VARIABLES WHERE Variable\_name = 'version';  查看版本

mysql -uroot -pnewPassword123@

**(2).导入数据库**

有可能地址发生变更，请到master/对应tag下找到对应sql。

https://github.com/ctripcorp/apollo/blob/master/scripts/sql/apolloconfigdb.sql

https://github.com/ctripcorp/apollo/blob/master/scripts/sql/apolloportaldb.sql

mysql -uroot -pnewPassword123@ < a.sql

**(3).下载安装包**

最新release:https://github.com/ctripcorp/apollo/releases

Apollo v1.0.0 Release

apollo-adminservice-1.0.0-github.zip

41.2 MB

apollo-configservice-1.0.0-github.zip

43.9 MB

apollo-portal-1.0.0-github.zip

32.7 MB

**(4).单机模拟分布式部署环境部署&拓扑&配置**

4.1.apollo-dev机器:

(4.1.a.)config-service配置.

4.1.a.1.apollo-dev-x/apollo-configservice-1.0.0/scripts/startup.sh 配置不一样

LOG\_DIR=/data/coohua/logs/apollo-dev/apollo-dev-1/apollo-config-service-dev1-100003171

LOG\_DIR=/data/coohua/logs/apollo-dev/apollo-dev-2/apollo-config-service-dev2-100003172

LOG\_DIR=/data/coohua/logs/apollo-dev/apollo-dev-3/apollo-config-service-dev3-100003173

/data/coohua/logs/apollo-staging/apollo-staging/apollo-config-service-staging

SERVER\_PORT=8080

SERVER\_PORT=8081

SERVER\_PORT=8082

注释掉：apollo-configservice.conf 中的：

LOG\_FOLDER

mkdir -p /data/coohua/logs/apollo-dev/apollo-dev-1/apollo-config-service-dev1-100003171

mkdir -p /data/coohua/logs/apollo-dev/apollo-dev-2/apollo-config-service-dev2-100003172

mkdir -p /data/coohua/logs/apollo-dev/apollo-dev-3/apollo-config-service-dev3-100003173

4.1.a.2.apollo-dev-x/apollo-configservice-1.0.0/config/app.properties 配置不一样

appId=100003171

appId=100003172

appId=100003173

4.1.a.3.apollo-dev-x/apollo-configservice-1.0.0/config/application-github.properties  配置都一样

# DataSource

spring.datasource.url = jdbc:mysql://localhost:3306/ApolloConfigDB?characterEncoding=utf8

spring.datasource.username = root

spring.datasource.password = newPassword123@

(4.1.b.)admin-service配置.

4.1.b.1.apollo-dev-1/apollo-adminservice-1.0.0/scripts/startup.sh  配置不一样

LOG\_DIR=/data/coohua/logs/apollo-dev/apollo-dev-1/apollo-admin-service-dev1-100004171

LOG\_DIR=/data/coohua/logs/apollo-dev/apollo-dev-2/apollo-admin-service-dev2-100004172

LOG\_DIR=/data/coohua/logs/apollo-dev/apollo-dev-3/apollo-admin-service-dev3-100004173

SERVER\_PORT=8090

SERVER\_PORT=8091

SERVER\_PORT=8092

注释掉：apollo-adminservice.conf 中的：

LOG\_FOLDER

mkdir -p /data/coohua/logs/apollo-dev/apollo-dev-1/admin-service-dev1-100004171

mkdir -p /data/coohua/logs/apollo-dev/apollo-dev-2/admin-service-dev2-100004172

mkdir -p /data/coohua/logs/apollo-dev/apollo-dev-3/admin-service-dev3-100004173

4.1.b.2.apollo-dev-x/apollo-adminservice-1.0.0/config/app.properties 配置不一样

appId=100004171

appId=100004172

appId=100004173

4.1.b.3.apollo-dev-x/apollo-adminservice-1.0.0/config/application-github.properties 配置都一样

# DataSource

spring.datasource.url = jdbc:mysql://localhost:3306/ApolloConfigDB?characterEncoding=utf8

spring.datasource.username = root

spring.datasource.password = newPassword123@

(4.1.c.)portal配置.全局所有环境的portal都通过dev的portal操作.

4.1.c.1.apollo-dev-x/apollo-portal-1.0.0/apollo-portal.conf 配置不一样

LOG\_DIR=/data/coohua/logs/apollo-dev/apollo-dev-1/apollo-portal-dev1-100005171

LOG\_DIR=/data/coohua/logs/apollo-dev/apollo-dev-2/apollo-portal-dev2-100005172

LOG\_DIR=/data/coohua/logs/apollo-dev/apollo-dev-3/apollo-portal-dev3-100005173

SERVER\_PORT=8070

SERVER\_PORT=8071

SERVER\_PORT=8072

注释掉：apollo-portal.conf 中的：

LOG\_FOLDER

mkdir -p /data/coohua/logs/apollo-dev/apollo-dev-1/apollo-portal-dev1-100005171

mkdir -p /data/coohua/logs/apollo-dev/apollo-dev-2/apollo-portal-dev2-100005172

mkdir -p /data/coohua/logs/apollo-dev/apollo-dev-3/apollo-portal-dev3-100005173

4.1.c.2.apollo-dev-x/apollo-portal-1.0.0/config/app.properties 配置不一样

appId=100005171

appId=100005172

appId=100005173

4.1.c.3.apollo-dev-x/apollo-portal-1.0.0/config/apollo-env.properties 配置不一样,域名不一样（如果是在同一台机器，则端口不一样）

apollo-dev-1

#local.meta=http://localhost:8080

dev.meta=http://apollo-dev-1:8080

#fat.meta=http://fill-in-fat-meta-server:8080

#uat.meta=http://fill-in-uat-meta-server:8080

#lpt.meta=${lpt\_meta}

#pro.meta=http://fill-in-pro-meta-server:8080

4.1.c.4.apollo-dev-x/apollo-portal-1.0.0/config/application-github.properties 配置都一样

# DataSource

spring.datasource.url = jdbc:mysql://localhost:3306/ApolloPortalDB?characterEncoding=utf8

spring.datasource.username = root

spring.datasource.password = newPassword123@

**(5).更改apollo数据库中的配置**

5.1.更改ApolloConfigDB.ServerConfig中的eureka地址为集群

apollo-dev-1 apollo-dev-2 apollo-dev-3

eureka.service.url

update ServerConfig set value="http://apollo-dev-1:8080/eureka/,http://apollo-dev-2:8081/eureka/,http://apollo-dev-3:8082/eureka/"  where `key`="eureka.service.url"\G

原值：

update ServerConfig set value="http://localhost:8080/eureka/"  where `key`="eureka.service.url"\G

5.2.调整ApolloPortalDB配置

配置项统一存储在ApolloPortalDB.ServerConfig表中，也可以通过管理员工具 - 系统参数页面进行配置。

apollo.portal.envs - 可支持的环境列表

DEV,FAT,UAT,PRO

初始值只有DEV

update ServerConfig set value='DEV,UAT,PRO' where id=1;

**(6).启动**

apollo-dev-1/apollo-configservice-1.0.0/scripts/startup.sh

apollo-dev-1/apollo-adminservice-1.0.0/scripts/startup.sh

apollo-dev-1/apollo-portal-1.0.0/scripts/startup.sh

apollo-dev-2/apollo-configservice-1.0.0/scripts/startup.sh

apollo-dev-2/apollo-adminservice-1.0.0/scripts/startup.sh

apollo-dev-2/apollo-portal-1.0.0/scripts/startup.sh

apollo-dev-3/apollo-configservice-1.0.0/scripts/startup.sh

apollo-dev-3/apollo-adminservice-1.0.0/scripts/startup.sh

apollo-dev-3/apollo-portal-1.0.0/scripts/startup.sh

**(7).验证**

以apollo-dev-1为例：

portal: http://192.32.6.103:8070/

eureka/configservice: http://192.32.6.103:8080/

adminservice: http://192.32.6.103:8090/

**(8).关闭**

apollo-dev-1/apollo-configservice-1.0.0/scripts/shutdown.sh

apollo-dev-1/apollo-adminservice-1.0.0/scripts/shutdown.sh

apollo-dev-1/apollo-portal-1.0.0/scripts/shutdown.sh

apollo-dev-2/apollo-configservice-1.0.0/scripts/shutdown.sh

apollo-dev-2/apollo-adminservice-1.0.0/scripts/shutdown.sh

apollo-dev-2/apollo-portal-1.0.0/scripts/shutdown.sh

apollo-dev-3/apollo-configservice-1.0.0/scripts/shutdown.sh

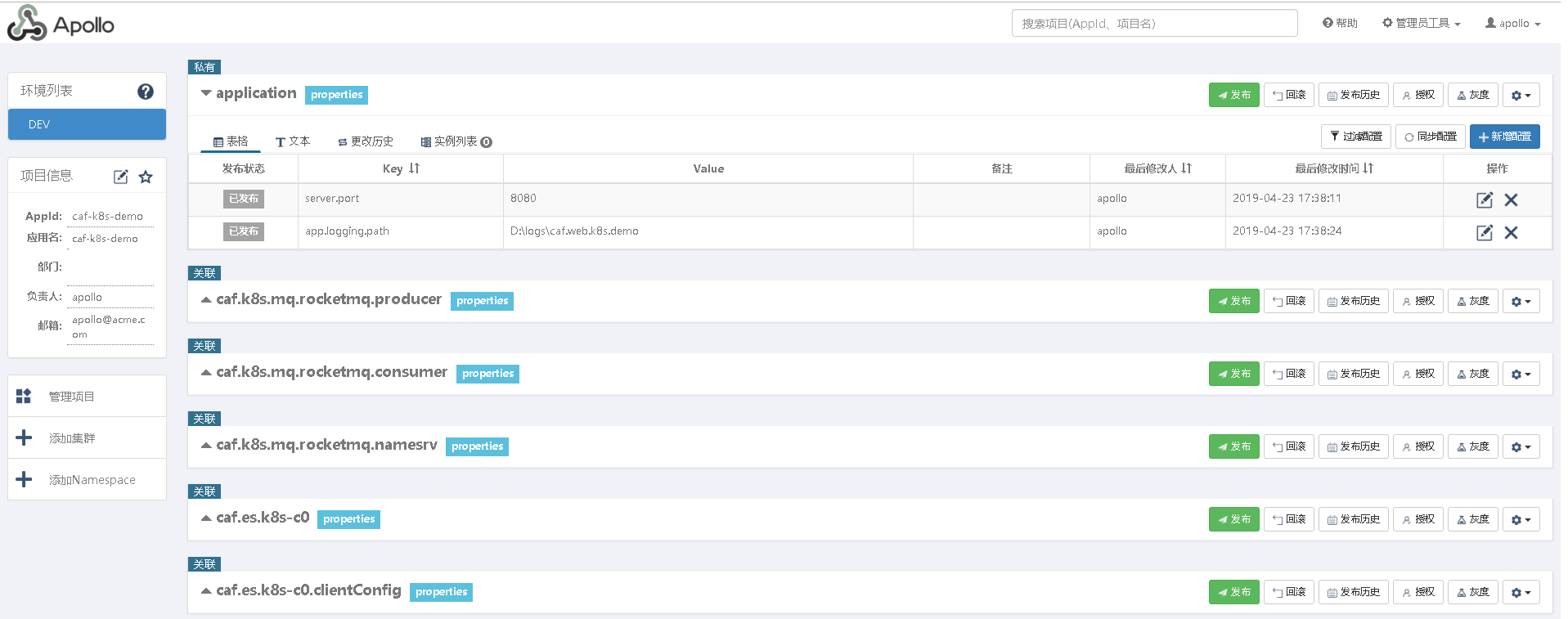
apollo-dev-3/apollo-adminservice-1.0.0/scripts/shutdown.sh

apollo-dev-3/apollo-portal-1.0.0/scripts/shutdown.sh

默认用户名：apollo

默认密码：admin





**(9).参考资料**

1.官方github地址：

https://github.com/ctripcorp/apollo