

# Kafka监控工具

测试服kafka的监控部署在（跳板机）172.16.17.102:/usr/local/src/kafka-eagle-web-1.4.5

都需要自己改配置，建议自己按以下步骤搭建

访问<http://172.16.17.102:8048/ke> admin/123456

## 1. 下载编译后的包

下载kafka-eagle-web-1.4.5-bin.tar.gz

下载地址: <https://github.com/smartloli/kafka-eagle/releases>

## 2. 解压目录，配置环境变量，需要JDK8+

修改/etc/profile, 修改后执行. /etc/profile立即生效

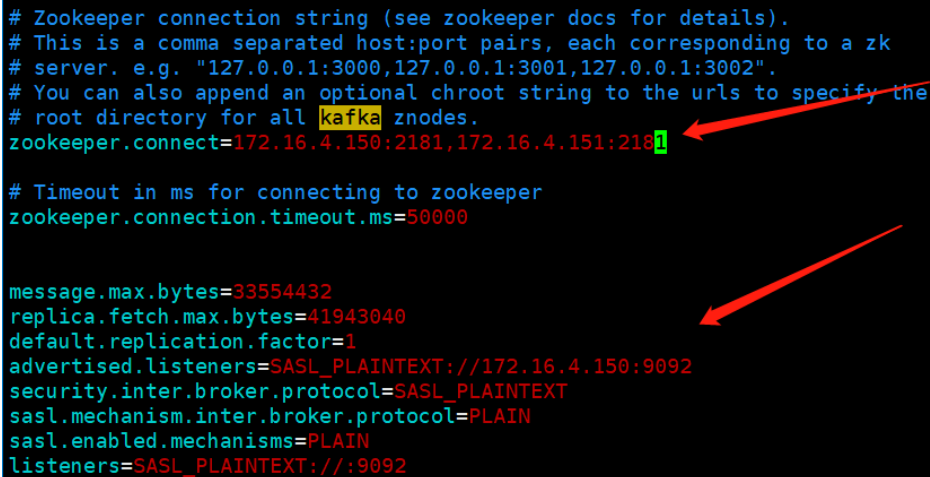
```
export KE_HOME=/data/kafka-eagle-web-1.4.5
export JAVA_HOME=/usr/java/default
export JRE_HOME=$JAVA_HOME/jre
export CLASSPATH=$JAVA_HOME/lib:$JRE_HOME/lib:$CLASSPATH
export PATH=$JAVA_HOME/bin:$JRE_HOME/bin:$PATH
export PATH=$PATH:$KE_HOME/bin
```

## 3. cd \$KE\_HOME/conf, 配置文件参考一下附件

配置kafka\_client\_jaas.conf      配置system-config.properties

1)vim system-config.properties

#配置参考服务器kafka配置 /usr/local/qingteng/kafka/config/server.properties



```
# Zookeeper connection string (see zookeeper docs for details).
# This is a comma separated host:port pairs, each corresponding to a zk
# server. e.g. "127.0.0.1:3000,127.0.0.1:3001,127.0.0.1:3002".
# You can also append an optional chroot string to the urls to specify the
# root directory for all kafka znodes.
zookeeper.connect=172.16.4.150:2181,172.16.4.151:2181!

# Timeout in ms for connecting to zookeeper
zookeeper.connection.timeout.ms=50000

message.max.bytes=33554432
replica.fetch.max.bytes=41943040
default.replication.factor=1
advertised.listeners=SASL_PLAINTEXT://172.16.4.150:9092
security.inter.broker.protocol=SASL_PLAINTEXT
sasl.mechanism.inter.broker.protocol=PLAIN
sasl.enabled.mechanisms=PLAIN
listeners=SASL_PLAINTEXT://:9092
```

kafka-eagle配置文件如下，需修改zk路径、kafka加密方式，创建db文件，单机则只用填一条信息

```
#####
# multi zookeeper & kafka cluster list
#####
kafka.eagle.zk.cluster.alias=cluster1 #别名
cluster1.zk.list=172.16.4.150:2181,172.16.4.151:2182 #zk路径, 支持和非集群

cluster1.kafka.eagle.sasl.enable=true
cluster1.kafka.eagle.sasl.protocol=SASL_PLAINTEXT 加密方式参考kafaka配置
cluster1.kafka.eagle.sasl.mechanism=PLAIN
cluster1.kafka.eagle.sasl.jaas.config=org.apache.kafka.common.security.plain.PlainLoginModule
required username="qingteng" password="bLCbh0k4SYq28KF9";
cluster1.kafka.eagle.sasl.client.id=
cluster1.kafka.eagle.sasl.cgroup.enable=false
cluster1.kafka.eagle.sasl.cgroup.topics=

#####
# kafka sqlite jdbc driver address
#####
kafka.eagle.driver=org.sqlite.JDBC
kafka.eagle.url=jdbc:sqlite:/hadoop/kafka-eagle/db/ke.db 手动创建该文件
kafka.eagle.username=root
kafka.eagle.password=123456
```

注意：这里kafka的密码也要修改

备注：docker-compose版本中kafka注册到zk中以kafka:9092注册进去，因此需要单独配置（假设ke在docker-compose主机中部署）

vi /etc/hosts

10.172.16.13 zookeeper

10.172.16.14 kafka

保存后重启网络

再次配置以上的zk地址为zookeeper:2181通过域名和端口访问，否则无法获取到consumer

2) 配置kafka密码，vim \$KE\_HOME/conf/kafka\_client\_jaas.conf

(查看kafka密码可以在服务器上执行python /data/app/www/titan-web/config\_scripts/config.py --get\_plain，输入kafka选项)

```
KafkaClient {
  org.apache.kafka.common.security.plain.PlainLoginModule required
  username="qingteng"
  password="bLCbh0k4SYq28KF9";
};
```

3) 特别注意

```
mkdir -p /hadoop/kafka-eagle/db/
touch /hadoop/kafka-eagle/db/ke.db
chmod -R 777 $KE_HOME
```

4) 网络不好时，需要配置超时时间

修改 \$KE\_HOME/kms/conf/server.xml connectionTimeout maxHttpHeaderSize

```
<Connector port="8048" protocol="HTTP/1.1" URIEncoding="UTF-8" minSpareThreads="25" maxSpareThreads="75" enableLookups="false"
disableUploadTimeout="true" connectionTimeout="100" acceptCount="500" maxThreads="500" maxProcessors="1000" minProcessors="5"
useURIVValidationHack="false" compression="on" compressionMinSize="2048"
compressableMimeType="text/html,text/xml,text/javascript,text/css,text/plain" redirectPort="8443" maxHttpHeaderSize="10240000"/>
```

4. 修改服务器kafka配置，每个kafka实例的配置都需要修改。(以下配置不修改不影响查看consumers图形)

1) /usr/local/qingteng/kafka/bin/kafka-server-start.sh

```
#添加
export JMX_PORT="9999"

#添加位置
if [ "x$KAFKA_HEAP_OPTS" = "x" ]; then
    export KAFKA_HEAP_OPTS="-Xmx1536M -Xms1G"
    #添加
    export JMX_PORT="9999"
fi
```

2) /usr/local/qingteng/kafka/bin/kafka-run-class.sh

```
#添加
#-Djava.rmi.server.hostname=172.16.4.150 #kafka机器对外的IP
#JVM settings
if [ -z "$KAFKA_JMX_OPTS" ]; then
    KAFKA_JMX_OPTS="-Dcom.sun.management.jmxremote -Djava.rmi.server.hostname=172.16.4.150 -Dcom.sun.management.jmxremote.
authenticate=false -Dcom.sun.management.jmxremote.ssl=false "
fi
```

```
# JMX settings
if [ -z "$KAFKA_JMX_OPTS" ]; then
    KAFKA_JMX_OPTS="-Dcom.sun.management.jmxremote -Djava.rmi.server.hostname=172.16.4.150 -Dcom.
sun.management.jmxremote.authenticate=false -Dcom.sun.management.jmxremote.ssl=false "
fi
```

3) 重启kafka服务,一定要重启kafka服务

```
service kafkad restart
```

5. 启动监控软件, 'http://ip:8048/ke'

账号:admin,密码:123456

```
$KE_HOME/bin/ke.sh start
日志在$KE_HOME/logs中, 可以排查问题
```

```
[2020-03-27 19:42:36] INFO: Start up log success. [172.0.0.1:8048/ke]
### | 100%
[2020-03-27 19:42:36] INFO: Status Code[0]
[2020-03-27 19:42:36] INFO: [Job done!]
Welcome to

K A F K A   E A G L E

Version 1.4.5 -- Copyright 2016-2020
*****
* Kafka Eagle Service has started success.
* Welcome, Now you can visit 'http://127.0.0.1:8048/ke'
* Account:admin ,Password:123456
*****
* <Usage> ke.sh [start|status|stop|restart|stats] </Usage>
* <Usage> https://www.kafka-eagle.org/ </Usage>
*****
[root@test-java-server kafka-eagle-web-1.4.5]#
```

5 查看数据

以下操作可以看到topic生产和消费速度。

Kafka Eagle

cluster1 V1.4.5 Administrator

Dashboard

Topic

**Consumers**

Cluster

Metrics

Alarm

System

BScreen

Consumers overview

List all consumers information.

Consumers Info

Search: conf

ID	Group	Topics	Node	Active Topics	Active Threads
1	tc_outgoing_packet_consumer	2	172.16.4.150:9092	2	3
2	tc_incoming_packet_consumer	1	172.16.4.150:9092	1	3
3	tc_cloud_task_consumer	1	172.16.4.150:9092	1	1
4	tc_agent_offline_consumer	1	172.16.4.150:9092	1	1
5	linux_docker_container	1	172.16.4.150:9092	1	3
6	agent_conf	1	172.16.4.150:9092	1	3
7	consumer_group_QTEVENT_0326	1	172.16.4.150:9092	1	3
8	tc_frame_packet_consumer	1	172.16.4.150:9092	1	3

Showing 1 to 10 of 56 entries

Previous 1 2 3 4 5 6 Next

点击

Consumers

List all consumers information

Consumers Info

Details of the consumer group

Consumer Topic

ID	Topic	Consumer Status
1	QTEVENT	Running

Showing 1 to 1 of 1 entries

Previous 1 Next

Search: QT

ID	Group	Topics	Node	Active Topics	Active Threads
1	consumer_group_QTJOB	1	172.16.6.213:9092	1	1
2	consumer_group_QTKB	1	172.16.6.181:9092	1	1
3	consumer_group_QTEVENT	1	172.16.6.181:9092	1	3

### Consumers Offsets details

List the current consumers's offsets of topic.

QTEVENT

点击

Partition	LogSize	Offset	Lag	Owner	Created	Modify
2	7484522	7484514	8	172.16.6.97-consumer_group_QTEVENT_directes_2-be168435-d02b-4651-8608-530011aba239	2020-03-27 20:27:52	2020-03-27 20:27:52
1	7484804	7484795	9	172.16.6.97-consumer_group_QTEVENT_directes_1-3d65c1bb-92dd-44e6-8f6d-0916ffb389e5	2020-03-27 20:27:52	2020-03-27 20:27:52
0	7484659	7484649	10	172.16.6.97-consumer_group_QTEVENT_directes_0-a61dc37d-ddef-4907-8d50-f8e3f86d4b00	2020-03-27 20:27:52	2020-03-27 20:27:52

Showing 1 to 3 of 3 entries

Previous 1 Next

创建者

Offsets Realtime details

2020-03-27 To 2020-03-27

List the current consumers's application realtime offsets of topic. Observe whether there is blocking by the trend of lag value.

➡

235

msg / min

Producer Rates

➡

246

msg / min

Consumer Rates

