

# Kafka集群管理工具kafka-manager的安装使用

## Kafka集群管理工具 kafka-manager 的安装使用

### 一.kafka-manager简介

kafka-manager是目前最受欢迎的kafka集群管理工具，最早由雅虎开源，用户可以在Web界面执行一些简单的集群管理操作。具体支持以下内容：

- 管理多个集群
- 轻松检查群集状态（主题，消费者，偏移，代理，副本分发，分区分发）
- 运行首选副本选举
- 使用选项生成分区分配以选择要使用的代理
- 运行分区重新分配（基于生成的分配）
- 使用可选主题配置创建主题（0.8.1.1具有与0.8.2+不同的配置）
- 删除主题（仅支持0.8.2+并记住在代理配置中设置delete.topic.enable = true）
- 主题列表在指示标记为删除的主题（仅支持0.8.2+）
- 批量生成多个主题的分区分配，并可选择要使用的代理
- 批量运行重新分配多个主题的分区
- 将分区添加到现有主题
- 更新现有主题的配置

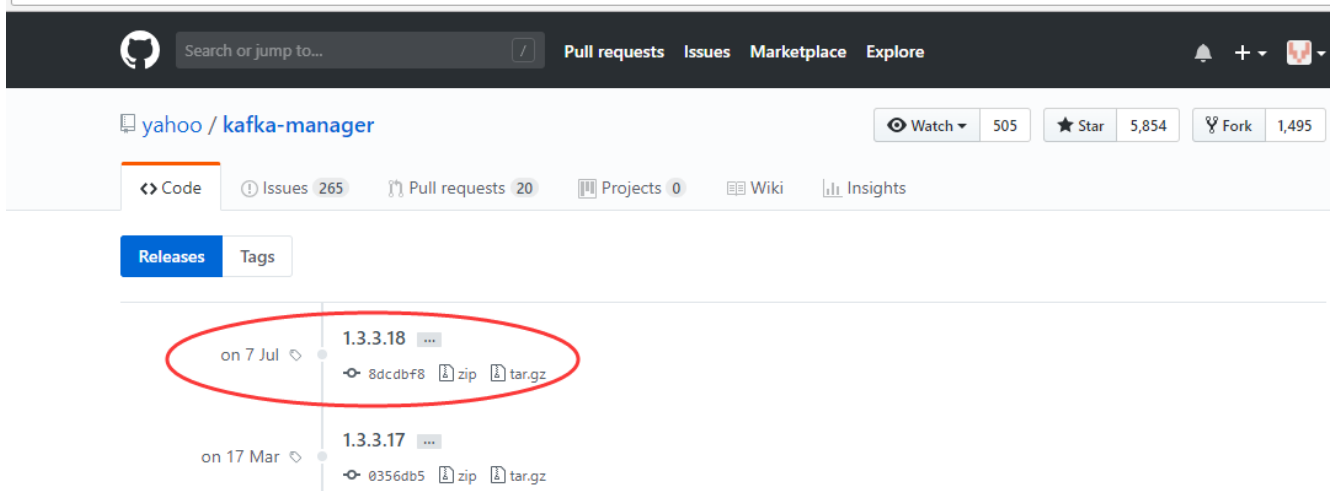
kafka-manager 项目地址：<https://github.com/yahoo/kafka-manager>

### 二.kafka-manager安装

#### 1.下载安装包

使用Git或者直接从Releases中下载，这里我们下载 1.3.3.18 版本：<https://github.com/yahoo/kafka-manager/releases>

 GitHub, Inc. [US] | <https://github.com/yahoo/kafka-manager/releases>



```
[admin@node21 software]$ wget https://github.com/yahoo/kafka-manager/archive/1.3.3.18.zip
```

#### 2.解压安装包

```
[admin@node21 software]$ mv 1.3.3.18.zip kafka-manager-1.3.3.18.zip
[admin@node21 software]$ unzip kafka-manager-1.3.3.18.zip -d /opt/module/
[admin@node21 software]$ cd /opt/module/
[admin@node21 module]$ ll
drwxr-xr-x  9 admin admin 268 May 27 00:33 jdk1.8
drwxr-xr-x  7 admin admin 122 Jun 14 11:44 kafka_2.11-1.1.0
drwxrwxr-x  9 admin admin 189 Jul  7 04:44 kafka-manager-1.3.3.18
drwxr-xr-x 11 admin admin 4096 May 29 10:14 zookeeper-3.4.12
[admin@node21 module]$ ls kafka-manager-1.3.3.18/
app build.sbt conf img LICENCE project public README.md sbt src target test
```

#### 3.sbt编译

1) yum安装sbt(因为kafka-manager需要sbt编译)

```
[admin@node21 ~]$ curl https://bintray.com/sbt/rpm/rpm > bintray-sbt-rpm.repo
[admin@node21 ~]$ sudo mv bintray-sbt-rpm.repo /etc/yum.repos.d/
[admin@node21 ~]$ sudo yum install sbt
```

修改仓库地址：（sbt默认下载库文件很慢，还时不时被打断），我们可以在用户目录下创建 touch ~/.sbt/repositories, 填上阿里云的镜像 # vi ~/.sbt/repositories

```
[repositories]
local
aliyun: http://maven.aliyun.com/nexus/content/groups/public/
typesafe: http://repo.typesafe.com/typesafe/ivy-releases/, [organization]/[module]/(scala_[scalaVersion]/)(sbt_[sbtVersion]/)
```

```
[revision]/[type]/[artifact](-[classifier]).[ext], bootOnly
sonatype-oss-releases
maven-central
sonatype-oss-snapshots
```

复制代码

验证：检查sbt是否安装成功，查看命令输出，发现已经成功可以从maven.aliyun.com/nexus下载到依赖即表示成功

```
[admin@node21 ~]$ sbt-version
```

## 2) 编译kafka-manager

```
[admin@node21 kafka-manager-1.3.3.18]$ ./sbt clean dist
```

看到打印这个消息 Getting org.scala-sbt sbt 0.13.9 (this may take some time)... 就慢慢等吧，可以到~/sbt/boot/update.log 查看sbt更新日志。sbt更新好，就开始下载各种jar包，最后看到：Your package is ready in /opt/module/kafka-manager-1.3.3.18/target/universal/kafka-manager-1.3.3.18.zip 证明编译好了。

```
[info] Your package is ready in /opt/module/kafka-manager-1.3.3.18/target/universal/kafka-manager-1.3.3.18.zip
[info]
[success] Total time: 783 s, completed Sep 4, 2018 9:26:02 AM
[admin@node21 kafka-manager-1.3.3.18]$
```

## 4.安装

环境准备：Java 8+ kafka集群搭建参考：[CentOS7.5搭建Kafka2.11-1.1.0集群](#)

### 重新解压编译好的kafka-manager-1.3.3.18.zip

```
[admin@node21 kafka-manager-1.3.3.18]$ ls
```

```
bin  conf  lib  README.md  share
```

### 修改配置文件



复制代码

```
[admin@node21 kafka-manager-1.3.3.18]$ pwd
```

```
/opt/module/kafka-manager-1.3.3.18
```

```
[admin@node21 kafka-manager-1.3.3.18]$ ls conf/
```

```
application.conf  consumer.properties  logback.xml  logger.xml  routes
```

```
[admin@node21 kafka-manager-1.3.3.18]$ sudo vi conf/application.conf
```

修改kafka-manager.zkhosts列表为自己的zk节点

```
kafka-manager.zkhosts="node21:2181,node22:2181,node23:2181"
```



复制代码

```
#kafka-manager.zkhosts="kafka-manager-zookeeper:2181"
kafka-manager.zkhosts="node21:2181,node22:2181,node23:2181"
```

## 5.启动服务

启动zk集群，kafka集群，再启动kafka-manager服务。

bin/kafka-manager 默认的端口是9000，可通过 -Dhttp.port, 指定端口; -Dconfig.file=conf/application.conf指定配置文件:

```
[admin@node21 kafka-manager-1.3.3.18]$ nohup bin/kafka-manager -Dconfig.file=conf/application.conf -Dhttp.port=8080 &
```

jps查看进程

```
1 node21 x 2 node22 x 3 node23 x
[admin@node21 kafka-manager-1.3.3.18]$ j
5928 Jps
5625 QuorumPeerMain
5657 Kafka
5514 ProdServerStart
[admin@node21 kafka-manager-1.3.3.18]$
```

## 6.编写服务启动脚本

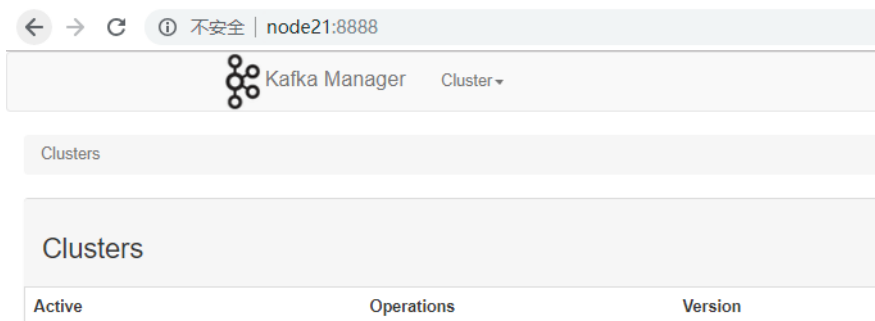
```
chmod +x kafka-manager.sh
```

```
nohup /opt/module/kafka-manager-1.3.3.18/bin/kafka-manager -Dconfig.file=/opt/module/kafka-manager-1.3.3.18/conf/application.conf
```

```
-Dhttp.port=8888 >/opt/module/kafka-ma
```

```
nager-1.3.3.18/kafka-manager.log 2>&1 &
```

WebUI查看：<http://node21:8888/> 出现如下界面则启动成功。



## 三.kafka-manager配置

### 1.新建Cluster

点击【Cluster】>【Add Cluster】打开如下添加集群配置界面：输入集群的名字（如Kafka-Cluster-1）和 Zookeeper 服务器地址（如localhost:2181），选择最近的Kafka版本

← Add Cluster

Cluster Name

kafka-cluster-1

Cluster Zookeeper Hosts

node21:2181,node22:2181,node23:2181

Kafka Version

1.1.0 ▾

☒ Enable JMX Polling (Set JMX\_PORT env variable before starting kafka server)

JMX Auth Username

JMX Auth Password

其他broker的配置可以根据自己需要进行配置，默认情况下，点击【保存】时，会提示几个默认值为1的配置错误，需要配置为 $\geq 2$ 的值。提示如下。

brokerViewThreadPoolSize

2

Must be greater or equal to 2

brokerViewThreadPoolQueueSize

1000

offsetCacheThreadPoolSize

2 ▾

Must be greater or equal to 2

offsetCacheThreadPoolQueueSize

1000

kafkaAdminClientThreadPoolSize

2

Must be greater or equal to 2

新建完成后，保存运行界面如下：

Clusters / kafka-cluster-1 / Summary

Cluster Information

|            |                                     |
|------------|-------------------------------------|
| Zookeepers | node21:2181 node22:2181 node23:2181 |
| Version    | 1.1.0                               |

Cluster Summary

|        |   |         |   |
|--------|---|---------|---|
| Topics | 4 | Brokers | 3 |
|--------|---|---------|---|

node21:8080/clusters/kafka-cluster-1/brokers

Kafka Manager

kafka-cluster-1

Cluster

Brokers

Topic

Preferred Replica Election

Reassign Partitions

Consumers

Clusters / kafka-cluster-1 / Brokers

Brokers

| Id | Host           | Port           | JMX Port | Bytes In | Bytes Out |
|----|----------------|----------------|----------|----------|-----------|
| 0  | 192.168.100.21 | PLAINTEXT:9092 | -1       | 0.00     | 0.00      |
| 1  | 192.168.100.22 | PLAINTEXT:9092 | -1       | 0.00     | 0.00      |
| 2  | 192.168.100.23 | PLAINTEXT:9092 | -1       | 0.00     | 0.00      |

Combined Metrics

| Rate                        | Mean | 1 min | 5 min | 15 min |
|-----------------------------|------|-------|-------|--------|
| Messages in /sec            | 0.00 | 0.00  | 0.00  | 0.00   |
| Bytes in /sec               | 0.00 | 0.00  | 0.00  | 0.00   |
| Bytes out /sec              | 0.00 | 0.00  | 0.00  | 0.00   |
| Bytes rejected /sec         | 0.00 | 0.00  | 0.00  | 0.00   |
| Failed fetch request /sec   | 0.00 | 0.00  | 0.00  | 0.00   |
| Failed produce request /sec | 0.00 | 0.00  | 0.00  | 0.00   |

node21:8080/clusters/kafka-cluster-1/topics

Kafka Manager

kafka-cluster-1

Cluster

Brokers

Topic

Preferred Replica Election

Reassign Partitions

Consumers

Clusters / kafka-cluster-1 / Topics

Operations

Generate Partition Assignments

Run Partition Assignments

Add Partitions

Topics

Show 10 entries

Search:

| Topic              | # Partitions | # Brokers | Brokers Spread % | Brokers Skew % | Brokers Leader Skew % | # Replicas | Under Replicated % |
|--------------------|--------------|-----------|------------------|----------------|-----------------------|------------|--------------------|
| __consumer_offsets | 50           | 3         | 100              | 0              | 0                     | 1          | 0                  |
| calllog            | 3            | 3         | 100              | 0              | 0                     | 1          | 0                  |
| firstTopic         | 3            | 3         | 100              | 0              | 33                    | 3          | 0                  |
| secondTopic        | 1            | 1         | 33               | 0              | 0                     | 1          | 0                  |

Showing 1 to 4 of 4 entries

Previous

1

Next

## 四.kafka-manager管理

### 1.新建主题

Topic---Create

node21:8080/clusters/kafka-cluster-1/createTopic

Kafka Manager

kafka-cluster-1

Cluster

Brokers

Topic

Preferred Replica Election

Reassign Partitions

Consumers

Clusters / kafka-cluster-1 / Topics / Create Topic

Create Topic

Topic

TestTopic

retention.ms

Partitions

3

max.message.bytes

Replication Factor

2

segment.index.bytes

segment.bytes

Create

Cancel

### 2.查看主题

Topic---list

← TestTopic

Topic Summary

|                             |     |
|-----------------------------|-----|
| Replication                 | 2   |
| Number of Partitions        | 3   |
| Sum of partition offsets    | 0   |
| Total number of Brokers     | 3   |
| Number of Brokers for Topic | 3   |
| Preferred Replicas %        | 100 |
| Brokers Skewed %            | 0   |
| Brokers Leader Skewed %     | 0   |
| Brokers Spread %            | 100 |
| Under-replicated %          | 0   |

Metrics

| Rate | Mean | 1 min | 5 min | 15 min |
|------|------|-------|-------|--------|
|------|------|-------|-------|--------|

Operations

Delete Topic

Reassign Partitions

Generate Partition Assignments

Add Partitions

Update Config

Manual Partition Assignments

Partitions by Broker

| Broker | # of Partitions | # as Leader | Partitions | Skewed? | Leader Skewed? |
|--------|-----------------|-------------|------------|---------|----------------|
| 0      | 2               | 1           | (1,2)      | false   | false          |
| 1      | 2               | 1           | (0,2)      | false   | false          |
| 2      | 2               | 1           | (0,1)      | false   | false          |

Consumers consuming from this topic

Please enable consumer polling [here](#).