Pulsar源码编译启动

源码下载并导入Idea中

git地址: https://github.com/apache/pulsar

如果通过git下载慢,可以直接下载压缩包,https://github.com/apache/pulsar/releases

idea环境准备

打包时跳过单元测试: mvn install -DskipTests

如果win10存在权限问题,需要修改注册表: regedit

 $HKEY_LOCAL_MACHINE \label{local_machine} IN EVALUE \label{lo$

修改这个路径下的键值: EnableLUA 从1设置为0, 然后重启电脑

standalone模式启动

启动类: PulsarStandaloneStarter.java

添加配置:

在idea中打开Edit Configurations窗口,分别在下面的选项中填上对应的参数,有些文件地址需要改为自己本机地址

VM options:

```
-Dlog4j.configurationFile=D:\workspace\pulsar\conf\log4j2.yaml
-Djute.maxbuffer=10485760
-Djava.net.preferIPv4Stack=true
-Dpulsar.allocator.exit_on_oom=true
-Dio.netty.recycler.maxCapacity.default=1000
-Dio.netty.recycler.linkCapacity=1024
-Xms2q
-Xmx2g
-XX:MaxDirectMemorySize=2g
-XX:+UseG1GC
-XX:MaxGCPauseMillis=10
-XX:+ParallelRefProcEnabled
-XX:+UnlockExperimentalVMOptions
-XX:+AggressiveOpts
-XX:+DoEscapeAnalysis
-XX:ParallelGCThreads=2
-XX:ConcGCThreads=2
-XX:G1NewSizePercent=50
-XX:+DisableExplicitGC
-XX:-ResizePLAB
-Dpulsar.log.appender=RoutingAppender
-Dpulsar.log.dir=D:/pulsar-dev/logs
-Dpulsar.log.level=info
-Dpulsar.routing.appender.default=Console
-Dpulsar.functions.process.container.log.dir=D:/pulsar-dev/logs
-Dpulsar.functions.java.instance.jar=D:/workspace/pulsar/pulsar-
functions/runtime-all/target/java-instance.jar
```

```
-Dpulsar.functions.python.instance.file=D:/workspace/pulsar/pulsar-functions/instance/target/python-instance/python_instance_main.py
-Dpulsar.functions.extra.dependencies.dir=D:/workspace/pulsar/instances/deps
-Dpulsar.functions.instance.classpath=D:/workspace/pulsar/pulsar-broker/target/pulsar-broker.jar
-javaagent:D:/repo/caches/modules-2/files-
2.1/org.aspectj/aspectjweaver/1.8.2/4963c0bef4748d5ad039cc26c1ac32a082eb755e/asp
ectjweaver-1.8.2.jar
-Dzookeeper.4lw.commands.whitelist=*
-Dzookeeper.snapshot.trust.empty=true
-Dpulsar.log.file=pulsar-standalone.log
```

Program arguments:

--config D:/workspace/pulsar/conf/standalone.conf

配置好后,直接运行PulsarStandaloneStarter类即可,这是启动了一个单机版的pulsar,成功启动后可以进行测试。

集群模式启动

将broker加入到集群中,条件允许可以再搭建三个centos7环境,构建一个pulsar集群,最后将IDEA中启动的broker加入到集群中,操作如下:

启动类: PulsarBrokerStarter

在idea中打开Edit Configurations窗口,分别在下面的选项中填上对应的参数,

VM options:

```
-Dlog4j.configurationFile=D:\workspace\pulsar\conf\log4j2.yaml
-Djute.maxbuffer=10485760
-Djava.net.preferIPv4Stack=true
-Dpulsar.allocator.exit_on_oom=true
-Dio.netty.recycler.maxCapacity.default=1000
-Dio.netty.recycler.linkCapacity=1024
-Xms2g
-Xmx2g
-XX:MaxDirectMemorySize=2g
-XX:+UseG1GC
-XX:MaxGCPauseMillis=10
-XX:+ParallelRefProcEnabled
-XX:+UnlockExperimentalVMOptions
-XX:+AggressiveOpts
-XX:+DoEscapeAnalysis
-XX:ParallelGCThreads=2
-XX:ConcGCThreads=2
-XX:G1NewSizePercent=50
-XX:+DisableExplicitGC
-XX:-ResizePLAB
-Dpulsar.log.appender=RoutingAppender
-Dpulsar.log.dir=D:/pulsar-dev/logs
-Dpulsar.log.level=info
-Dpulsar.routing.appender.default=Console
```

```
-Dpulsar.functions.process.container.log.dir=D:/pulsar-dev/logs
-Dpulsar.functions.java.instance.jar=D:/workspace/pulsar/pulsar-functions/runtime-all/target/java-instance.jar
-Dpulsar.functions.python.instance.file=D:/workspace/pulsar/pulsar-functions/instance/target/python-instance/python_instance_main.py
-Dpulsar.functions.extra.dependencies.dir=D:/workspace/pulsar/instances/deps
-Dpulsar.functions.instance.classpath=D:/workspace/pulsar/pulsar-broker/target/pulsar-broker.jar
-javaagent:D:/repo/caches/modules-2/files-
2.1/org.aspectj/aspectjweaver/1.8.2/4963c0bef4748d5ad039cc26c1ac32a082eb755e/asp
ectjweaver-1.8.2.jar
-Dpulsar.log.file=pulsar-standalone.log
```

idea中不用再配置broker.conf,启动时会使用项目路径下的broker.conf,我的是D:\workspace\pulsar\conf\broker.conf

broker.conf中主要需要修改的内容如下:

```
# Zookeeper quorum connection string
zookeeperServers=192.168.40.128:2181,192.168.40.129:2181,192.168.40.130:2181
# Configuration Store connection string
configurationStoreServers=192.168.40.128:2181,192.168.40.129:2181,192.168.40.130
:2181
# 本机IP地址
advertisedAddress=192.168.24.240
clusterName=pulsar-cluster-1
```

其他配置基本不用改变,zookeeperServers和configurationStoreServers配置的是pulsar集群使用的zk 地址

然后启动PulsarBrokerStarter,PulsarBrokerStarter启动成功过后可到pulsar集群环境中去通过如下命令查看:

bin/pulsar-admin brokers list pulsar-cluster

结果如下图所示, 说明本机已经加入到集群中了

```
-rw-r--r--. 1 root root 6612 1月 22 2020 NOTICE
-rw-r--r--. 1 root root 1269 1月 22 2020 README
[root@localhost apache-pulsar-2.8.1]# bin/pulsar-admin brokers list pulsar-cluster
"192.168.40.130:8080"
"192.168.40.128:8080"
[root@localhost apache-pulsar-2.8.1]# bin/pulsar-admin brokers list pulsar-cluster
192.168.24.240:8080"
"192.168.40.130:8080"
"192.168.40.129:8080"
"192.168.40.129:8080"
[root@localhost apache-pulsar-2.8.1]# □
```