RocketMQ Deployment Guide

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NDP Media

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Prerequisite Software

OS: 64bit Java SDK 1.7.x 64bit Git Maven 3.2.x Jetty

Make sure you have set JAVA_HOME, PATH, M2_HOME properly.

Clone Source Repository

Source code of this project is hosted on github: link

To clone the source, execute the following command: git clone https://github.com/lizhanhui/Alibaba_RocketMQ.git

Build

cd Alibaba_RocketMQ sh install.sh

Deploy Name Server Cluster Manager Server

At present we have two management portals: rocketmq-cockpit(referred as cockpit) and rocketmq-console(referred as console). Cockpit is to manage name server list, internal and public IP mapping. Future planned features will include monitoring running status of the whole cluster status. Console contains tools of MQ administration tools. These are identical to console commands like "mqadmin sub-command option-list".

To deploy these two web application, we need a web container, say jetty. Latest version of jetty is preferred. You may download jetty http://www.eclipse.org/downloads/

Unzip and add a soft link in user home folder, pointing to the folder of your

jetty.

Modify start.ini, change default port to 80.

```
104 ## HTTP port to listen on
105 jetty.port=80
```

Execute shell script Alibaba_RocketMQ/deploy_webapps.sh

Use root account to start jetty: cd ~/jetty screen java -jar start.jar

Open a browser, visit http://localhost Login as root/password

You may manage name server list and IP mapping later on.

Deploy RocketMQ

- 1 Configure And Build
 - Generate SSL Key/Certificate Pair()

Use bin/ssl_key_cer.sh generate key/certificate pair

Add certificate to java trust key store as below

"sudo keytool -import -alias NDPMedia -file cer.pem -keystore \${JAVA_HOME}/jre/lib/security/cacerts"

Configure SSL Settings

Enable ROCKETMQ_ENABLE_SSL=true environment variable or add -Denable_ssl=true option while starting up.

You may refer to bin/tools.sh to enable SSL.

- sh install.sh
- Set ROCKETMQ_HOME, pointing this environment variable to ~/Alibaba_RocketMQ/devenv.
- 2 Deploy Name Server
 - Edit System hosts file by adding the following entry, pointing to the Name Server Manager Site: rocketmq.api
 IP
 - Go to devenv/bin folder and execute the following command:
 sh start.sh nameserver
 - Go to http://COCKPIT-IP/cockpit/name-server/ add this name server to the list.
- 3 Deploy Broker

Go to devenv/bin and execute the following command to start master sync broker:

sh start.sh broker mast async

Execute the following command to start slave sync broker:

sh start.sh broker master async

Add IP Mapping

Go to http://COCKPIT-IP/cockpit/ip/ to add internal IP and public IP mapping for this broker.

4 Verification

At devenv/bin, execute the following commands; you should see the following cluster list once your broker is running correctly:

```
[lizhanhui@lizhanhui bin]$ sh mqadmin clusterList
Java HotSpot(TM) 64-Bit Server VM warning: ignoring option PermSize=128m; support was removed in 8.0
Java HotSpot(TM) 64-Bit Server VM warning: ignoring option MaxPermSize=128m; support was removed in 8.0
#Cluster Name #Broker Name #BID #Addr #Version #InTPS #OutTPS
Lizhanhui@lizhanhui bin]$ sh mqadmin topicList
Java HotSpot(TM) 64-Bit Server VM warning: ignoring option PermSize=128m; support was removed in 8.0
Java HotSpot(TM) 64-Bit Server VM warning: ignoring option PermSize=128m; support was removed in 8.0
Java HotSpot(TM) 64-Bit Server VM warning: ignoring option MaxPermSize=128m; support was removed in 8.0
FFSET_MOVED_EVENT
FORKer-a
TBW102
SELF_TEST_TOPIC
DefaultCluster
[lizhanhui@lizhanhui bin]$
```

Application Example

For clients, these java options are required to set properly:

```
JAVA_OPT="${JAVA_OPT} -Drocketmq.namesrv.domain=rocketmq.api"
JAVA_OPT="${JAVA_OPT} -Denable_ssl=true"
JAVA_OPT="${JAVA_OPT} -DRocketMQClientKeyStorePassword=changeit"
JAVA_OPT="${JAVA_OPT} -DRocketMQClientTrustKeyStorePassword=changeit"
JAVA_OPT="${JAVA_OPT} -DRocketMQClientKeyPassword=changeit"
JAVA_OPT="${JAVA_OPT} -Duse_elastic_ip=true"
```

On default, Java key store \${Alibaba_RocketMQ}conf/client.ks should be copied to /home/dev/Alibaba_RocketMQ/devenv/conf/client.ks

1 Producer

See

https://github.com/lizhanhui/Alibaba_RocketMQ/blob/ssl/rocketmq-example/src/main/java/com/alibaba/rocketmq/example/quickstart/Producer.java

2 Consumer

See

https://github.com/lizhanhui/Alibaba_RocketMQ/blob/ssl/rocketmq-example/src/main/java/com/alibaba/rocketmq/example/quickstart/Consumer.java

Contact

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