云起实验室体验

5小时轻松搞定RocketMQ

RocketMQ 常用的使用场景、监控、运维问题排查及处理方案。

⊡ 5个实验　　⚇ 118　　⏱ 4.5小时　　★★★★⯪ 9.2分

已加入课程

课程简介

可学习到

- 如何入门RocketMQ和一些基本使用演示
- 可以快速学习全场景的发送、消费消息
- 快速学会如何基本运维RocketMQ
- 快速学会一些高级运维方式
- 如何搭建一站式RocketMQ监控告警

相关产品

⊟ 云服务器ECS

收起 ∧

授课教师

李伟
RocketMQ北京社区联合发起人

推荐实践系列课　　　　更多

阿里云云服务器从入门到精通

⊡ 10个实验　⚇ 13.0万　⏱ 12小时　　去学习

Linux基础入门

⊡ 11个实验　⚇ 3.2万　⏱ 17小时　　去学习

程序语言实战学习

⊡ 11个实验　⚇ 2.9万　⏱ 17小时　　去学习

课程章节　　**实验报告**

第1章 RocketMQ - 云原生消息事件流融合处理平台

- **实验1**　RocketMQ入门级使用演示　⏱ 1小时　　　　　▤ 查看详情　⚐ 开始实验

　　　　从源码编译、部署broker、部署namesrv，使用java客户端首发消息等一站式入门RocketMQ

- **实验2**　RocketMQ高级使用演示　⏱ 1小时　　　　　　▤ 查看详情　⚐ 开始实验

实验一

实验手册　　云产品资源　　实验报告

实验云账号，创建资源后生成　　　　　　　　收起 ∧

子用户名称:	u-0zoob3ec@1704971854404492	⧉
子用户密码:	Jz8Zx9Fj6Sl2Le7G	⧉
AK ID:	LTAI5tNadggwGWSvbAbZ4g7z	⧉
AK Secret:	oC6vcfrlZTuZmSWGeVTDKwT9Qn9eKH	⧉

注意：
若登录子账号，请打开隐私窗口进行登录。 ❓

一键复制子账号登录链接

```
drwxr-xr-x 3 root root  4096 Mar 10 11:55 acl
drwxr-xr-x 3 root root  4096 Mar 10 11:55 broker
drwxr-xr-x 3 root root  4096 Mar 10 11:55 client
drwxr-xr-x 3 root root  4096 Mar 10 11:55 common
drwxr-xr-x 2 root root  4096 Mar 10 11:55 dev
drwxr-xr-x 5 root root  4096 Mar 10 11:55 distribution
drwxr-xr-x 4 root root  4096 Mar 10 11:55 docs
drwxr-xr-x 3 root root  4096 Mar 10 11:55 example
drwxr-xr-x 3 root root  4096 Mar 10 11:55 filter
drwxr-xr-x 3 root root  4096 Mar 10 11:55 logging
drwxr-xr-x 3 root root  4096 Mar 10 11:55 namesrv
drwxr-xr-x 3 root root  4096 Mar 10 11:55 openmessaging
-rw-r--r-- 1 root root 24061 Mar 10 11:55 pom.xml
drwxr-xr-x 3 root root  4096 Mar 10 11:55 remoting
drwxr-xr-x 3 root root  4096 Mar 10 11:55 srvutil
drwxr-xr-x 3 root root  4096 Mar 10 11:55 store
drwxr-xr-x 3 root root  4096 Mar 10 11:55 style
drwxr-xr-x 3 root root  4096 Mar 10 11:55 test
drwxr-xr-x 3 root root  4096 Mar 10 11:55 tools
```

3. 编译和打包源码

```
mvn -Prelease-all -DskipTests clean install -U
```

看到如下结果就是成功了

```
[INFO] --- maven-install-plugin:2.5.2:install (default-install) @ rocketmq-distribution ---
[INFO] Installing /tiger/tmp/rocketmq/distribution/pom.xml to /root/.m2/repository/org/apache/ro
```

⟩_ 2. root@iZuf69vrc8gmq5udq80c0rZ:/tiger/tmp/rocketmq ✕

```
Last login: Sat Jun 25 13:51:11 2022 from 118.31.243.49

Welcome to Alibaba Cloud Elastic Compute Service !

User Tips:
For better compatibility, Alibaba Cloud Linux 2 manages network settings via
network-scripts by default instead of former systemd-networkd.
More details please refer to:
https://help.aliyun.com/knowledge_detail/182049.html

[root@iZuf69vrc8gmq5udq80c0rZ ~]# mkdir -p /tiger/tmp
[root@iZuf69vrc8gmq5udq80c0rZ ~]# cd /tiger/tmp
[root@iZuf69vrc8gmq5udq80c0rZ tmp]# git clone --branch release-4.9.3 https://github.com/apache/rock
Cloning into 'rocketmq'...
remote: Enumerating objects: 103606, done.
remote: Counting objects: 100% (194/194), done.
remote: Compressing objects: 100% (130/130), done.
remote: Total 103606 (delta 42), reused 146 (delta 22), pack-reused 103412
Receiving objects: 100% (103606/103606), 30.91 MiB | 15.95 MiB/s, done.
Resolving deltas: 100% (40688/40688), done.
[root@iZuf69vrc8gmq5udq80c0rZ tmp]# cd rocketmq
[root@iZuf69vrc8gmq5udq80c0rZ rocketmq]# ll
total 128
drwxr-xr-x 3 root root  4096 Jun 25 13:51 acl
drwxr-xr-x 3 root root  4096 Jun 25 13:51 broker
-rw-r--r-- 1 root root   997 Jun 25 13:51 BUILDING
drwxr-xr-x 3 root root  4096 Jun 25 13:51 client
drwxr-xr-x 3 root root  4096 Jun 25 13:51 common
-rw-r--r-- 1 root root  1996 Jun 25 13:51 CONTRIBUTING.md
drwxr-xr-x 2 root root  4096 Jun 25 13:51 dev
drwxr-xr-x 5 root root  4096 Jun 25 13:51 distribution
drwxr-xr-x 4 root root  4096 Jun 25 13:51 docs
drwxr-xr-x 3 root root  4096 Jun 25 13:51 example
drwxr-xr-x 3 root root  4096 Jun 25 13:51 filter
-rw-r--r-- 1 root root 11356 Jun 25 13:51 LICENSE
drwxr-xr-x 3 root root  4096 Jun 25 13:51 logging
drwxr-xr-x 3 root root  4096 Jun 25 13:51 namesrv
-rw-r--r-- 1 root root   169 Jun 25 13:51 NOTICE
drwxr-xr-x 3 root root  4096 Jun 25 13:51 openmessaging
-rw-r--r-- 1 root root 24061 Jun 25 13:51 pom.xml
-rw-r--r-- 1 root root  6069 Jun 25 13:51 README.md
drwxr-xr-x 3 root root  4096 Jun 25 13:51 remoting
drwxr-xr-x 3 root root  4096 Jun 25 13:51 srvutil
drwxr-xr-x 3 root root  4096 Jun 25 13:51 store
drwxr-xr-x 3 root root  4096 Jun 25 13:51 style
drwxr-xr-x 3 root root  4096 Jun 25 13:51 test
drwxr-xr-x 3 root root  4096 Jun 25 13:51 tools
[root@iZuf69vrc8gmq5udq80c0rZ rocketmq]#
```

```
[INFO]
[INFO] Apache RocketMQ 4.9.4-SNAPSHOT ..................... SUCCESS [ 32.400 s]
[INFO] rocketmq-logging 4.9.4-SNAPSHOT ................... SUCCESS [  5.003 s]
[INFO] rocketmq-remoting 4.9.4-SNAPSHOT ................... SUCCESS [  2.888 s]
[INFO] rocketmq-common 4.9.4-SNAPSHOT ................... SUCCESS [  4.269 s]
[INFO] rocketmq-client 4.9.4-SNAPSHOT ................... SUCCESS [  7.707 s]
[INFO] rocketmq-store 4.9.4-SNAPSHOT ................... SUCCESS [  3.526 s]
[INFO] rocketmq-srvutil 4.9.4-SNAPSHOT ................... SUCCESS [  0.828 s]
[INFO] rocketmq-filter 4.9.4-SNAPSHOT ................... SUCCESS [  1.977 s]
[INFO] rocketmq-acl 4.9.4-SNAPSHOT ......................... SUCCESS [  1.070 s]
[INFO] rocketmq-broker 4.9.4-SNAPSHOT ................... SUCCESS [  4.473 s]
[INFO] rocketmq-tools 4.9.4-SNAPSHOT ................... SUCCESS [  2.802 s]
[INFO] rocketmq-namesrv 4.9.4-SNAPSHOT ................... SUCCESS [  0.861 s]
[INFO] rocketmq-test 4.9.4-SNAPSHOT ................... SUCCESS [  5.923 s]
[INFO] rocketmq-openmessaging 4.9.4-SNAPSHOT .............. SUCCESS [  1.579 s]
[INFO] rocketmq-example 4.9.4-SNAPSHOT ................... SUCCESS [  7.671 s]
[INFO] rocketmq-distribution 4.9.4-SNAPSHOT .............. SUCCESS [01:34 min]
[INFO]
```

```
total 52504
drwxr-xr-x 2 root root     4096 Jun 25 13:54 archive-tmp
-rw-r--r-- 1 root root       87 Jun 25 13:55 checkstyle-cachefile
-rw-r--r-- 1 root root     6066 Jun 25 13:55 checkstyle-checker.xml
-rw-r--r-- 1 root root       83 Jun 25 13:55 checkstyle-result.xml
drwxr-xr-x 3 root root     4096 Jun 25 13:54 maven-shared-archive-resources
drwxr-xr-x 3 root root     4096 Jun 25 13:55 rocketmq-4.9.4-SNAPSHOT
-rw-r--r-- 1 root root 26838897 Jun 25 13:55 rocketmq-4.9.4-SNAPSHOT.tar.gz
-rw-r--r-- 1 root root 26892451 Jun 25 13:55 rocketmq-4.9.4-SNAPSHOT.zip
[root@iZuf69vrc8gmq5udq80c0rZ target]#
```

```
[root@iZuf69vrc8gmq5udq80c0rZ broker1]# ps -ef | grep rocketmq
root      7945  7941  0 13:58 pts/1    00:00:00 sh /tiger/rocketmq/namesrv1/bin/runserver.sh org.apache.rocketmq.namesrv.NamesrvStartup
root      7962  7945  8 13:58 pts/1    00:00:02 /usr/local/services/1-java/bin/java -server -Xms4g -Xmx4g -Xmn2g -XX:MetaspaceSize=128m -XX:MaxMetaspaceSize=320m -XX:+UseConcMarkSweepGC -XX:+U
seCMSCompactAtFullCollection -XX:CMSInitiatingOccupancyFraction=70 -XX:+CMSParallelRemarkEnabled -XX:SoftRefLRUPolicyMSPerMB=0 -XX:+CMSClassUnloadingEnabled -XX:SurvivorRatio=8 -XX:-UseParNewG
C -verbose:gc -Xloggc:/dev/shm/rmq_srv_gc_%p_%t.log -XX:+PrintGCDetails -XX:+PrintGCDateStamps -XX:+UseGCLogFileRotation -XX:NumberOfGCLogFiles=5 -XX:GCLogFileSize=30m -XX:-OmitStackTraceInFas
tThrow -XX:-UseLargePages -cp .:/tiger/rocketmq/namesrv1/bin/../conf/:/tiger/rocketmq/namesrv1/bin/../lib/*:.:/usr/local/services/1-java/lib/dt.jar:/usr/local/services/1-java/lib/tools.jar org.
apache.rocketmq.namesrv.NamesrvStartup
root      8051  7191  0 13:59 pts/1    00:00:00 grep --color=auto rocketmq
```

```
SendResult [sendStatus=SEND_OK, msgId=7F000001220E452B3A4136ABE9240000, offsetMsgId=C0A80A0B00002A9F0000000000000000, messageQueue=MessageQueue [topic=TopicTest, brokerName=fe17484542b2, queueId=0], queueOffset=0]
SendResult [sendStatus=SEND_OK, msgId=7F000001220E452B3A4136ABE9400001, offsetMsgId=C0A80A0B00002A9F00000000000000BE, messageQueue=MessageQueue [topic=TopicTest, brokerName=fe17484542b2, queueId=1], queueOffset=0]
SendResult [sendStatus=SEND_OK, msgId=7F000001220E452B3A4136ABE9440002, offsetMsgId=C0A80A0B00002A9F000000000000017C, messageQueue=MessageQueue [topic=TopicTest, brokerName=fe17484542b2, queueId=2], queueOffset=0]
SendResult [sendStatus=SEND_OK, msgId=7F000001220E452B3A4136ABE9480003, offsetMsgId=C0A80A0B00002A9F000000000000023A, messageQueue=MessageQueue [topic=TopicTest, brokerName=fe17484542b2, queueId=3], queueOffset=0]
SendResult [sendStatus=SEND_OK, msgId=7F000001220E452B3A4136ABE94D0004, offsetMsgId=C0A80A0B00002A9F00000000000002F8, messageQueue=MessageQueue [topic=TopicTest, brokerName=fe17484542b2, queueId=0], queueOffset=1]
SendResult [sendStatus=SEND_OK, msgId=7F000001220E452B3A4136ABE94F0005, offsetMsgId=C0A80A0B00002A9F00000000000003B6, messageQueue=MessageQueue [topic=TopicTest, brokerName=fe17484542b2, queueId=1], queueOffset=1]
SendResult [sendStatus=SEND_OK, msgId=7F000001220E452B3A4136ABE9510006, offsetMsgId=C0A80A0B00002A9F0000000000000474, messageQueue=MessageQueue [topic=TopicTest, brokerName=fe17484542b2, queueId=2], queueOffset=1]
SendResult [sendStatus=SEND_OK, msgId=7F000001220E452B3A4136ABE9530007, offsetMsgId=C0A80A0B00002A9F0000000000000532, messageQueue=MessageQueue [topic=TopicTest, brokerName=fe17484542b2, queueId=3], queueOffset=1]
```

```
ConsumeMessageThread_please_rename_unique_group_name_4_14 Receive New Messages: [MessageExt [brokerName=fe17484542b2, queueId=1, storeSize=192, queueOffset=62, sysFlag=0, bornTimestamp=1647010036380, bornHost=/192.
168.10.11:43661, storeTimestamp=1647010036381, storeHost=/192.168.10.11:10911, msgId=C0A80A0B00002A9F000000000000BA52, commitLogOffset=47698, bodyCRC=535965367, reconsumeTimes=0, preparedTransactionOffset=0, toStr
ng()=Message{topic='TopicTest', flag=0, properties={MIN_OFFSET=0, MAX_OFFSET=250, CONSUME_START_TIME=1647010045198, UNIQ_KEY=7F000001220E452B3A4136ABEA9C00F9, CLUSTER=DefaultCluster, TAGS=TagA}, body=[72, 101, 108
108, 111, 32, 82, 111, 99, 107, 101, 116, 77, 81, 32, 50, 52, 57], transactionId='null'}]]
ConsumeMessageThread_please_rename_unique_group_name_4_15 Receive New Messages: [MessageExt [brokerName=fe17484542b2, queueId=1, storeSize=192, queueOffset=61, sysFlag=0, bornTimestamp=1647010036375, bornHost=/192.
168.10.11:43661, storeTimestamp=1647010036376, storeHost=/192.168.10.11:10911, msgId=C0A80A0B00002A9F000000000000B752, commitLogOffset=46930, bodyCRC=373580444, reconsumeTimes=0, preparedTransactionOffset=0, toStr
ng()=Message{topic='TopicTest', flag=0, properties={MIN_OFFSET=0, MAX_OFFSET=250, CONSUME_START_TIME=1647010045198, UNIQ_KEY=7F000001220E452B3A4136ABEA9700F5, CLUSTER=DefaultCluster, TAGS=TagA}, body=[72, 101, 108
108, 111, 32, 82, 111, 107, 101, 116, 77, 81, 32, 50, 52, 53], transactionId='null'}]]
```

```
remote: Enumerating objects: 18, done.
remote: Counting objects: 100% (18/18), done.
remote: Compressing objects: 100% (12/12), done.
remote: Total 18 (delta 4), reused 13 (delta 3), pack-reused 0
Unpacking objects: 100% (18/18), done.
[root@iZuf69vrc8gmq5udq80c0rZ demos]# cd 03-golang-demo/
[root@iZuf69vrc8gmq5udq80c0rZ 03-golang-demo]# go build
go: finding github.com/rocketmq101/rocketmq-client-go/v2 v2.1.1-tc3
go: finding github.com/tidwall/gjson v1.13.0
go: finding github.com/smartystreets/goconvey v1.6.4
go: finding github.com/stathat/consistent v1.0.0
go: finding github.com/tidwall/pretty v1.2.0
go: finding github.com/tidwall/match v1.1.1
can't load package: package 03-golang-demo: unknown import path "03-golang-demo": cannot find module providing package 03-golang-demo
[root@iZuf69vrc8gmq5udq80c0rZ 03-golang-demo]#
[root@iZuf69vrc8gmq5udq80c0rZ 03-golang-demo]# ./main xxx.xxx.xxx.xxx:9876
-bash: ./main: Is a directory
[root@iZuf69vrc8gmq5udq80c0rZ 03-golang-demo]# 
```

实验二

RocketMQ高级使用演示 详情▣

实验手册　　云产品资源　　实验报告

实验云账号，创建资源后生成　　收起 ∧

子用户名称： 子用户名称内容

子用户密码： 子用户密码内容

AK ID： AK ID内容

AK Secret： AK Secret内容

1. 第0节 实验环境说明

实验环境

4

1. 体验手册 tab
   a. 体验环境的阿里云子账号信息（目前RocketMQ系列实验中没有使用）
   b. 实验操作手册
2. 云产品资源 tab
   a. 同上
   b. 实验环境使用的云服务器（ecs实例），带一个公网ip，可以在本地访问，很重要，需要大家记住如何找，以后的实验会用到。
3. 体验报告。小伟老师希望大家多多填写，我们多多优化，帮助大家快速方便的通过实验了解RocketMQ
4. 实验环境，这里是一个ecs实例。centos7.9
5. 实验体验时间倒计时，一般是1h。

5.7%

资源创建中...

```
14:15:27.350 [NettyClientSelector_1] INFO RocketmqRemoting - closeChannel: close the connection to remote address[] result: true
14:15:27.350 [NettyClientSelector_1] INFO RocketmqRemoting - closeChannel: close the connection to remote address[] result: true
14:15:27.360 [NettyClientSelector_1] INFO RocketmqRemoting - closeChannel: close the connection to remote address[] result: true
14:15:47.201 [NettyClientSelector_1] INFO RocketmqRemoting - closeChannel: close the connection to remote address[] result: true
14:15:57.062 [NettyClientSelector_1] INFO RocketmqRemoting - closeChannel: close the connection to remote address[] result: true
14:15:57.193 [NettyClientSelector_1] INFO RocketmqRemoting - closeChannel: close the connection to remote address[] result: true
14:16:07.207 [NettyClientSelector_1] INFO RocketmqRemoting - closeChannel: close the connection to remote address[] result: true
14:16:27.063 [NettyClientSelector_1] INFO RocketmqRemoting - closeChannel: close the connection to remote address[] result: true
14:16:27.194 [NettyClientSelector_1] INFO RocketmqRemoting - closeChannel: close the connection to remote address[] result: true
14:16:27.210 [NettyClientSelector_1] INFO RocketmqRemoting - closeChannel: close the connection to remote address[] result: true
14:16:27.213 [NettyClientSelector_1] INFO RocketmqRemoting - closeChannel: close the connection to remote address[] result: true
14:16:47.220 [NettyClientSelector_1] INFO RocketmqRemoting - closeChannel: close the connection to remote address[] result: true
14:16:57.063 [NettyClientSelector_1] INFO RocketmqRemoting - closeChannel: close the connection to remote address[] result: true
14:16:57.194 [NettyClientSelector_1] INFO RocketmqRemoting - closeChannel: close the connection to remote address[] result: true
14:17:07.219 [NettyClientSelector_1] INFO RocketmqRemoting - closeChannel: close the connection to remote address[] result: true
14:17:07.221 [NettyClientSelector_1] INFO RocketmqRemoting - closeChannel: close the connection to remote address[] result: true
14:17:27.059 [NettyClientSelector_1] INFO RocketmqRemoting - closeChannel: close the connection to remote address[] result: true
14:17:27.193 [NettyClientSelector_1] INFO RocketmqRemoting - closeChannel: close the connection to remote address[] result: true
14:17:27.224 [NettyClientSelector_1] INFO RocketmqRemoting - closeChannel: close the connection to remote address[] result: true
14:17:27.229 [NettyClientSelector_1] INFO RocketmqRemoting - closeChannel: close the connection to remote address[] result: true
```

```
[INFO] Scanning for projects...
[INFO]
[INFO] -------------------< org.example:06-all-java-demos >--------------------
[INFO] Building 06-all-java-demos 1.0-SNAPSHOT
[INFO] --------------------------------[ jar ]---------------------------------
[INFO]
[INFO] --- maven-clean-plugin:2.5:clean (default-clean) @ 06-all-java-demos ---
[INFO] Deleting /data/demos/06-all-java-demos/target
[INFO]
[INFO] --- maven-resources-plugin:2.6:resources (default-resources) @ 06-all-java-demos ---
[WARNING] Using platform encoding (UTF-8 actually) to copy filtered resources, i.e. build is platform dependent!
[INFO] skip non existing resourceDirectory /data/demos/06-all-java-demos/src/main/resources
[INFO]
[INFO] --- maven-compiler-plugin:3.1:compile (default-compile) @ 06-all-java-demos ---
[INFO] Changes detected - recompiling the module!
[WARNING] File encoding has not been set, using platform encoding UTF-8, i.e. build is platform dependent!
[INFO] Compiling 9 source files to /data/demos/06-all-java-demos/target/classes
[INFO]
[INFO] --- maven-resources-plugin:2.6:testResources (default-testResources) @ 06-all-java-demos ---
[WARNING] Using platform encoding (UTF-8 actually) to copy filtered resources, i.e. build is platform dependent!
[INFO] skip non existing resourceDirectory /data/demos/06-all-java-demos/src/test/resources
[INFO]
[INFO] --- maven-compiler-plugin:3.1:testCompile (default-testCompile) @ 06-all-java-demos ---
[INFO] No sources to compile
[INFO]
[INFO] --- maven-surefire-plugin:2.12.4:test (default-test) @ 06-all-java-demos ---
[INFO] No tests to run.
[INFO]
[INFO] --- maven-jar-plugin:2.4:jar (default-jar) @ 06-all-java-demos ---
[INFO] Building jar: /data/demos/06-all-java-demos/target/06-all-java-demos-1.0-SNAPSHOT.jar
[INFO] ------------------------------------------------------------------------
[INFO] BUILD SUCCESS
[INFO] ------------------------------------------------------------------------
[INFO] Total time:  2.278 s
[INFO] Finished at: 2022-06-25T14:18:57+08:00
[INFO] ------------------------------------------------------------------------
```

实验三

实验手册　　云产品资源　　实验报告

实验云账号，创建资源后生成　　　　　　　　收起 ∧

子用户名称:	u-sq8syi9k@1105471854403716	⎘
子用户密码:	Ua5Kl5Ty6Pt8Xn5P	⎘
AK ID:	LTAI5tNPgoQZH8iJ5eSzGMKS	⎘
AK Secret:	qgHfHxVC3gBcjZSsJdkm3r3GaHih5q	⎘

注意：　　　　　　　　　　　　　　　　⑦
若登录子账号，请打开隐私窗口进行登录。

一键复制子账号登录链接

2. 第1节 如何编译、部署RocketMQ dashboard

如何编译、部署RocketMQ dashboard。

本教程会以如何利用源码编译并打包RocketMQ为例，演示如何下载、编译任意版本的RocketMQ。

0. 启动一个集群 (已启动则不用操作)

1. 安装git、jdk、maven等工具 **(当前实验环境已经安装好。参考或者baidu/google)**

- jdk安装
  - jdk 下载: https://www.oracle.com/hk/java/technologies/javase/javase8-archive-downloads.html
  - jdk 安装
    - macos: https://juejin.cn/post/6844903878694010893
    - windows: https://www.runoob.com/w3cnote/windows10-java-setup.html
- maven安装
  - maven 下载二进制:
    https://dist.apache.org/repos/dist/release/maven/maven-3/
  - maven 安装(windows + macos): https://www.runoob.com/maven/maven

---

华东2(上海)i-uf64bosp88t0glwlqwpp　u-sq8syi9k　root@106.14.76.125↻

⟩＿ 2. root@iZuf64bosp88t0glwlqwppZ:~ ✕

```
Last login: Sat Jun 25 14:23:26 2022 from 118.31.243.216

Welcome to Alibaba Cloud Elastic Compute Service !

User Tips:
For better compatibility, Alibaba Cloud Linux 2 manages network settings via
network-scripts by default instead of former systemd-networkd.
More details please refer to:
https://help.aliyun.com/knowledge_detail/182049.html

[root@iZuf64bosp88t0glwlqwppZ ~]#
```

```
[INFO] --- maven-resources-plugin:2.7:testResources (default-testResources) @ rocketmq-dashboard ---
[INFO] Not copying test resources
[INFO]
[INFO] --- maven-compiler-plugin:3.5.1:testCompile (default-testCompile) @ rocketmq-dashboard ---
[INFO] Not compiling test sources
[INFO]
[INFO] --- maven-surefire-plugin:2.19.1:test (default-test) @ rocketmq-dashboard ---
[INFO] Tests are skipped.
[INFO]
[INFO] --- maven-jar-plugin:3.0.0:jar (default-jar) @ rocketmq-dashboard ---
[INFO] Building jar: /tiger/tmp/rocketmq-dashboard/target/rocketmq-dashboard-1.0.1-SNAPSHOT.jar
[INFO]
[INFO] --- maven-site-plugin:3.5.1:attach-descriptor (attach-descriptor) @ rocketmq-dashboard ---
[INFO]
[INFO] --- spring-boot-maven-plugin:2.6.0:repackage (default) @ rocketmq-dashboard ---
[INFO] Replacing main artifact with repackaged archive
[INFO] ------------------------------------------------------------------------
[INFO] BUILD SUCCESS
[INFO] ------------------------------------------------------------------------
[INFO] Total time:  31.967 s
[INFO] Finished at: 2022-06-25T14:25:29+08:00
[INFO] ------------------------------------------------------------------------
```

```
drwxr-xr-x 2 root root     4096 Jun 25 14:25 antrun
-rw-r--r-- 1 root root    13183 Jun 25 14:25 checkstyle-cachefile
-rw-r--r-- 1 root root     5852 Jun 25 14:25 checkstyle-checker.xml
-rw-r--r-- 1 root root    14321 Jun 25 14:25 checkstyle-result.xml
drwxr-xr-x 6 root root     4096 Jun 25 14:25 classes
drwxr-xr-x 3 root root     4096 Jun 25 14:25 generated-sources
drwxr-xr-x 2 root root     4096 Jun 25 14:25 maven-archiver
drwxr-xr-x 3 root root     4096 Jun 25 14:25 maven-shared-archive-resources
drwxr-xr-x 3 root root     4096 Jun 25 14:25 maven-status
drwxr-xr-x 3 root root     4096 Jun 25 14:25 node
-rw-r--r-- 1 root root 67594923 Jun 25 14:25 rocketmq-dashboard-1.0.1-SNAPSHOT.jar
-rw-r--r-- 1 root root  3566834 Jun 25 14:25 rocketmq-dashboard-1.0.1-SNAPSHOT.jar.original
[root@iZuf64bosp88t0glwlqwppZ target]#
```

```
ddj.mi.log :
14:26:07,210 |-INFO in ch.qos.logback.core.rolling.SizeAndTimeBasedFNATP@7e32c033 - Roll-over at midnight.
14:26:07,213 |-INFO in ch.qos.logback.core.rolling.SizeAndTimeBasedFNATP@7e32c033 - Setting initial period to Sat Jun 25 14:26:07 CST 2022
14:26:07,216 |-WARN in ch.qos.logback.core.rolling.SizeAndTimeBasedFNATP@7e32c033 - SizeAndTimeBasedFNATP is deprecated. Use SizeAndTimeBasedRollingPolicy instead
14:26:07,216 |-WARN in ch.qos.logback.core.rolling.SizeAndTimeBasedFNATP@7e32c033 - For more information see http://logback.qos.ch/manual/appenders.html#SizeAndTimeBasedRollingPolicy
14:26:07,218 |-INFO in ch.qos.logback.core.joran.action.NestedComplexPropertyIA - Assuming default type [ch.qos.logback.classic.encoder.PatternLayoutEncoder] for [encoder] property
14:26:07,221 |-INFO in ch.qos.logback.core.rolling.RollingFileAppender[FILE] - Active log file name: /root/logs/consolelogs/rocketmq-console.log
14:26:07,221 |-INFO in ch.qos.logback.core.rolling.RollingFileAppender[FILE] - File property is set to [/root/logs/consolelogs/rocketmq-console.log]
14:26:07,222 |-INFO in ch.qos.logback.classic.joran.action.RootLoggerAction - Setting level of ROOT logger to INFO
14:26:07,222 |-INFO in ch.qos.logback.core.joran.action.AppenderRefAction - Attaching appender named [STDOUT] to Logger[ROOT]
14:26:07,223 |-INFO in ch.qos.logback.core.joran.action.AppenderRefAction - Attaching appender named [FILE] to Logger[ROOT]
14:26:07,223 |-INFO in ch.qos.logback.classic.joran.action.ConfigurationAction - End of configuration.
14:26:07,224 |-INFO in ch.qos.logback.classic.joran.JoranConfigurator@7ab2bfe1 - Registering current configuration as safe fallback point


  .   ___          _            __ _ _
 /\\ / ___'_ __ _ _(_)_ __  __ _ \ \ \ \
( ( )\___ | '_ | '_| | '_ \/ _` | \ \ \ \
 \\/  ___)| |_)| | | | | || (_| |  ) ) ) )
  '  |____| .__|_| |_|_| |_\__, | / / / /
 =========|_|==============|___/=/_/_/_/
 :: Spring Boot ::                (v2.6.0)

[2022-06-25 14:26:08.123] INFO background-preinit - HV000001: Hibernate Validator 6.2.0.Final
[2022-06-25 14:26:08.166] INFO main - Starting App v1.0.1-SNAPSHOT using Java 1.8.0_202 on iZuf64bosp88t0glwlqwppZ with PID 7407 (/tiger/tmp/rocketmq-dashboard/target/rocketmq-dashboard-1.0.1-SNAPSHOT.jar started by root in /tiger/tmp/rocketmq-dashboard/target)
[2022-06-25 14:26:08.166] INFO main - No active profile set, falling back to default profiles: default
[2022-06-25 14:26:11.078] INFO main - setNameSrvAddrByProperty nameSrvAddr=127.0.0.1:39876
[2022-06-25 14:26:11.427] INFO main - Tomcat initialized with port(s): 30904 (http)
[2022-06-25 14:26:11.442] INFO main - Initializing ProtocolHandler ["http-nio-30904"]
[2022-06-25 14:26:11.442] INFO main - Starting service [Tomcat]
[2022-06-25 14:26:11.442] INFO main - Starting Servlet engine: [Apache Tomcat/9.0.55]
[2022-06-25 14:26:11.517] INFO main - Initializing Spring embedded WebApplicationContext
[2022-06-25 14:26:11.517] INFO main - Root WebApplicationContext: initialization completed in 3216 ms
[2022-06-25 14:26:12.682] INFO main - Adding welcome page: class path resource [static/index.html]
[2022-06-25 14:26:12.973] INFO main - Exposing 1 endpoint(s) beneath base path '/actuator'
[2022-06-25 14:26:13.031] INFO main - Starting ProtocolHandler ["http-nio-30904"]
[2022-06-25 14:26:13.051] INFO main - Tomcat started on port(s): 30904 (http) with context path ''
[2022-06-25 14:26:13.079] INFO main - Started App in 5.698 seconds (JVM running for 6.48)
RocketMQLog:WARN No appenders could be found for logger (io.netty.util.internal.InternalThreadLocalMap).
RocketMQLog:WARN Please initialize the logger system properly.
[2022-06-25 14:26:30.294] INFO scheduling-1 - create MQAdmin instance ClientConfig [namesrvAddr=127.0.0.1:39876, clientIP=172.16.21.197, instanceName=1656138390073, clientCallbackExecutorThrea
ds=2, pollNameServerInterval=30000, heartbeatBrokerInterval=30000, persistConsumerOffsetInterval=5000, pullTimeDelayMillsWhenException=1000, unitMode=false, unitName=null, vipChannelEnabled=tr
ue, useTLS=false, language=JAVA, namespace=null, mqClientApiTimeout=3000]
[2022-06-25 14:26:30.438] ERROR scheduling-1 - Unexpected error occurred in scheduled task
java.lang.RuntimeException: org.apache.rocketmq.remoting.exception.RemotingConnectException: connect to [127.0.0.1:39876] failed
```

```
[2022-06-25 14:28:12.144] INFO NettyClientSelector_1 - closeChannel: close the connection to remote address[] result: true
[2022-06-25 14:28:12.144] WARN commons-pool-evictor-thread - validateObject failed, clusterInfo = null
[2022-06-25 14:28:12.153] INFO commons-pool-evictor-thread - destroy object ClientConfig [namesrvAddr=127.0.0.1:39876, clientIP=172.16.21.197, instanceName=1656138480002, clientCallbackExecuto
rThreads=2, pollNameServerInterval=30000, heartbeatBrokerInterval=30000, persistConsumerOffsetInterval=5000, pullTimeDelayMillsWhenException=1000, unitMode=false, unitName=null, vipChannelEnab
led=true, useTLS=false, language=JAVA, namespace=null, mqClientApiTimeout=3000]
```

实验四

RocketMQ运维自我实践 详情⊟

实验手册　　云产品资源　　实验报告

⋊⋉ 华东2(上海)i-uf6fssjpk6qn6in2ftxu　u-blkvdptt　root@101.133.132.130⌷

›_ 2. root@iZuf6fssjpk6qn6in2ftxuZ:~ ✕

实验云账号，创建资源后生成　　　　　收起 ∧

子用户名称:	u-blkvdptt@1915471854401972	⎘
子用户密码:	By4Wx2Au4Xs4Kl9K	⎘
AK ID:	LTAI5tPKdvH1QUMhuZPTgAVv	⎘
AK Secret:	kJY2xxhVaEYz3p4OGOX8YuKXwORtUU	⎘

注意：　　　　　　　　　　　　　🔞
若登录子账号，请打开隐私窗口进行登录。

一键复制子账号登录链接

云服务器 ECS

弹性IP:	101.133.132.130	⎘
私有地址:	172.16.20.162	⎘
用户:	root	⎘
密码:	Jy7Sz2Km2Wk5	⎘
实例:	i-uf6fssjpk6qn6in2ftxu	⎘
实例名:	u-blkvdptt	⎘
地域:	华东 2 (上海)	⎘

```
Last login: Sat Jun 25 14:30:39 2022 from 47.96.60.213

Welcome to Alibaba Cloud Elastic Compute Service !

User Tips:
For better compatibility, Alibaba Cloud Linux 2 manages network settings via
network-scripts by default instead of former systemd-networkd.
More details please refer to:
https://help.aliyun.com/knowledge_detail/182049.html

[root@iZuf6fssjpk6qn6in2ftxuZ ~]#
```

```yaml
server:
  port: 30904
  servlet:
    encoding:
      charset: UTF-8
      enabled: true
      force: true
## SSL setting
#  ssl:
#    key-store: classpath:rmqcngkeystore.jks
#    key-store-password: rocketmq
#    key-store-type: PKCS12
#    key-alias: rmqcngkey

spring:
  application:
    name: rocketmq-dashboard

logging:
  config: classpath:logback.xml

rocketmq:
  config:
    # if this value is empty,use env value ro
    # configure multiple namesrv addresses to
    namesrvAddrs:
      - 127.0.0.1:39876
    # if you use rocketmq version < 3.5.8, ro
```

实验五

实验手册　　云产品资源　　实验报告

实验云账号，创建资源后生成　　　　　　　　收起 ∧

子用户名称: u-fmyothse@1510771854402955

子用户密码: Lw3Rk4Fv5Mf6Qz4X

AK ID: LTAI5tEbodKtoteTELE9Rn4Y

AK Secret: 8A4Hob9ZuQ4PhDuk4gbOa0p0zXdqE5

注意: ?
若登录子账号，请打开隐私窗口进行登录。

一键复制子账号登录链接

云服务器 ECS

弹性IP: 101.133.139.2

私有地址: 172.16.1.201

用户: root

密码: Ql5Bm9Nh8Cd8

实例: i-uf68v61q34158nmwi5mr

实例名: u-fmyothse

地域: 华东 2 (上海)

华东2(上海)i-uf68v61q34158nmwi5mr　u-fmyothse　root@101.133.139.2

>_ 2. root@iZuf68v61q34158nmwi5mrZ:~ ×

```
Last login: Sat Jun 25 14:36:30 2022 from 118.31.243.71

Welcome to Alibaba Cloud Elastic Compute Service !

User Tips:
For better compatibility, Alibaba Cloud Linux 2 manages network settings via
network-scripts by default instead of former systemd-networkd.
More details please refer to:
https://help.aliyun.com/knowledge_detail/182049.html

[root@iZuf68v61q34158nmwi5mrZ ~]#
```

```
[INFO] --- maven-resources-plugin:3.1.0:testResources (default-testResources) @ rocketmq-exporter ---
[INFO] Not copying test resources
[INFO]
[INFO] --- maven-compiler-plugin:3.8.0:testCompile (default-testCompile) @ rocketmq-exporter ---
[INFO] Not compiling test sources
[INFO]
[INFO] --- maven-surefire-plugin:2.22.1:test (default-test) @ rocketmq-exporter ---
[INFO] Tests are skipped.
[INFO]
[INFO] --- jacoco-maven-plugin:0.8.7:report (report) @ rocketmq-exporter ---
[INFO] Skipping JaCoCo execution due to missing execution data file.
[INFO]
[INFO] --- maven-jar-plugin:3.1.1:jar (default-jar) @ rocketmq-exporter ---
[INFO] Building jar: /tiger/tmp/rocketmq-exporter/target/rocketmq-exporter-0.0.2-SNAPSHOT.jar
[INFO]
[INFO] --- spring-boot-maven-plugin:2.1.2.RELEASE:repackage (repackage) @ rocketmq-exporter ---
[INFO] Replacing main artifact with repackaged archive
[INFO] ------------------------------------------------------------------------
[INFO] BUILD SUCCESS
[INFO] ------------------------------------------------------------------------
[INFO] Total time:  6.468 s
[INFO] Finished at: 2022-06-25T14:37:25+08:00
[INFO] ------------------------------------------------------------------------
```

```
total 31300
drwxr-xr-x 3 root root     4096 Jun 25 14:37 classes
drwxr-xr-x 3 root root     4096 Jun 25 14:37 generated-sources
drwxr-xr-x 2 root root     4096 Jun 25 14:37 maven-archiver
drwxr-xr-x 3 root root     4096 Jun 25 14:37 maven-status
-rw-r--r-- 1 root root 31943503 Jun 25 14:37 rocketmq-exporter-0.0.2-SNAPSHOT.jar
-rw-r--r-- 1 root root    87382 Jun 25 14:37 rocketmq-exporter-0.0.2-SNAPSHOT.jar.original
```

```
[root@iZuf68v61q34158nmwi5mrZ 3-prometheus]# ./restart.sh
root     7380  7373  0 14:38 pts/0    00:00:00 ./prometheus --web.enable-lifecycle --config.file=prometheus.yml --storage.tsdb.no-lockfile --web.listen-address=0.0.0.0:30902 --web.max-connect
ions=100 --query.max-samples=100000 --query.timeout=1m --query.max-concurrency=20
root     7382  7373  0 14:38 pts/0    00:00:00 grep prometheus
```

```
[root@iZuf68v61q34158nmwi5mrZ 3-prometheus]# ./reload.sh
ts=2022-06-25T06:38:25.551Z caller=main.go:475 level=info msg="No time or size retention was set so using the default time retention" duration=15d
ts=2022-06-25T06:38:25.551Z caller=main.go:512 level=info msg="Starting Prometheus" version="(version=2.33.5, branch=HEAD, revision=03831554a51946f28c7cdc6be7282c687092327b)"
ts=2022-06-25T06:38:25.551Z caller=main.go:517 level=info build_context="(go=go1.17.8, user=root@773960a14680, date=20220308-16:57:09)"
ts=2022-06-25T06:38:25.551Z caller=main.go:518 level=info host_details="(Linux 4.19.91-25.6.al7.x86_64 #1 SMP Thu Feb 10 19:15:17 CST 2022 x86_64 iZuf68v61q34158nmwi5mrZ (none))"
ts=2022-06-25T06:38:25.551Z caller=main.go:519 level=info fd_limits="(soft=65535, hard=65535)"
ts=2022-06-25T06:38:25.551Z caller=main.go:520 level=info vm_limits="(soft=unlimited, hard=unlimited)"
ts=2022-06-25T06:38:25.554Z caller=web.go:570 level=info component=web msg="Start listening for connections" address=0.0.0.0:30902
ts=2022-06-25T06:38:25.555Z caller=main.go:923 level=info msg="Starting TSDB ..."
ts=2022-06-25T06:38:25.559Z caller=tls_config.go:195 level=info component=web msg="TLS is disabled." http2=false
ts=2022-06-25T06:38:25.563Z caller=head.go:493 level=info component=tsdb msg="Replaying on-disk memory mappable chunks if any"
ts=2022-06-25T06:38:25.563Z caller=head.go:527 level=info component=tsdb msg="On-disk memory mappable chunks replay completed" duration=29.245µs
ts=2022-06-25T06:38:25.563Z caller=head.go:533 level=info component=tsdb msg="Replaying WAL, this may take a while"
ts=2022-06-25T06:38:25.565Z caller=head.go:604 level=info component=tsdb msg="WAL segment loaded" segment=0 maxSegment=0
ts=2022-06-25T06:38:25.565Z caller=head.go:610 level=info component=tsdb msg="WAL replay completed" checkpoint_replay_duration=24.667µs wal_replay_duration=1.648524ms total_replay_duration=1.7
21506ms
ts=2022-06-25T06:38:25.566Z caller=main.go:944 level=info fs_type=EXT4_SUPER_MAGIC
ts=2022-06-25T06:38:25.566Z caller=main.go:947 level=info msg="TSDB started"
ts=2022-06-25T06:38:25.566Z caller=main.go:1128 level=info msg="Loading configuration file" filename=prometheus.yml
ts=2022-06-25T06:38:25.571Z caller=main.go:1165 level=info msg="Completed loading of configuration file" filename=prometheus.yml totalDuration=4.109909ms db_storage=1.262µs remote_storage=1.99
1µs web_handler=552ns query_engine=990ns scrape=1.928638ms scrape_sd=48.038µs notify=44.087µs notify_sd=13.415µs rules=1.674µs
ts=2022-06-25T06:38:25.571Z caller=main.go:896 level=info msg="Server is ready to receive web requests."
ts=2022-06-25T06:38:57.221Z caller=main.go:1128 level=info msg="Loading configuration file" filename=prometheus.yml
ts=2022-06-25T06:38:57.223Z caller=main.go:1165 level=info msg="Completed loading of configuration file" filename=prometheus.yml totalDuration=1.371044ms db_storage=1.947µs remote_storage=2.16
2µs web_handler=555ns query_engine=1.562µs scrape=361.865µs scrape_sd=30.122µs notify=20.633µs notify_sd=10.975µs rules=2.372µs
```

```
[root@iZuf68v61q34158nmwi5mrZ 4-grafana]# ./restart.sh
nohup: appending output to 'nohup.out'
root        7493   7487   0 14:39 pts/0     00:00:00 [grafana-server]
root        7495   7487   0 14:39 pts/0     00:00:00 grep grafana-server
```

```
.   ____          _            __ _ _
/\\ / ___'_ __ _ _(_)_ __  __ _ \ \ \ \
( ( )\___ | '_ | '_| | '_ \/ _` | \ \ \ \
\\/  ___)| |_)| | | | | || (_| |  ) ) ) )
  '  |____| .__|_| |_|_| |_\__, | / / / /
 =========|_|==============|___/=/_/_/_/
 :: Spring Boot ::        (v2.1.2.RELEASE)

2022-06-24 09:47:13.745]  INFO Starting RocketMQExporterApplication v0.0.2-SNAPSHOT on iZuf6afotb3dmocnl
05 (/tiger/tmp/rocketmq-exporter/target/rocketmq-exporter-0.0.2-SNAPSHOT.jar started by root in /tiger/t
er/target)
2022-06-24 09:47:13.752]  INFO No active profile set, falling back to default profiles: default
2022-06-24 09:47:15.763]  INFO Tomcat initialized with port(s): 30903 (http)
2022-06-24 09:47:15.787]  INFO Initializing ProtocolHandler ["http-nio-30903"]
```

Import

Import dashboard from file or Grafana.com

Options

Name

RocketMQ监控

Folder

General

Unique identifier (UID)

The unique identifier (UID) of a dashboard can be used for uniquely identify a dashboard between multiple Grafana installs. The UID allows having consistent URLs for accessing dashboards so changing the title of a dashboard will not break any bookmarked links to that dashboard.

WQS4SOFMz   **Change uid**

Prometheus

Prometheus

Import   **Cancel**