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# 打包

### 在工程目录下执行:

```
1 mvn clean package -Pdev
2 或者
3 mvn clean package -Ppub
```

## 会在工程目录的 /target目录下生成 alloc-release-x.x.x.tar.gz

## 部署

```
T 下载alloc最新包https://github.com/mpusher/alloc/releases

2 解压下载的tar包tar -zvxf alloc-release-x.x.x.tar.gz

3 修改 conf 目录下的 vi mpush.conf文件,修改方式参照mpush server 部署

4 给bin目录下的脚本增加执行权限chmod u+x *.sh

5 执行./mp.sh start 启动服务,查看帮助直接执行./mp.sh

6 cd logs目录,cat mpush.out查看服务是否启动成功
```

# 目录结构

#### 命令输出release目录结构:

```
1 cd /d D:\mpush-alloc-0.8.0
2 tree /F >D:\mpush-alloc-0.8.0\tree.txt
```

#### mpush-alloc-0.8.0目录结构

```
1  | LICENSE
2  | README.md
3  | tree.txt
4  |
5  | bin
6  | bootstrap.jar
7  | env-mp.sh
8  | mp.sh
9  | set-env.sh
10  |
11  | conf
12  | logback.xml
13  | mpush.conf
```

```
14
15 └─lib
barchart-udt-bundle-2.3.0.jar
17 commons-lang3-3.6.jar
18 commons-pool2-2.4.2.jar
19 config-1.3.1.jar
20 curator-client-2.11.1.jar
21 curator-framework-2.11.1.jar
   curator-recipes-2.11.1.jar
22
23 curator-x-discovery-2.11.1.jar
24 fastjson-1.2.36.jar
25 guava-20.0.jar
   jackson-core-asl-1.9.13.jar
26
    jackson-mapper-asl-1.9.13.jar
27
   javassist-3.21.0-GA.jar
28
   jcl-over-slf4j-1.7.25.jar
29
   jedis-2.9.0.jar
30
31 jline-0.9.94.jar
32
   jul-to-slf4j-1.7.25.jar
33 log4j-1.2.16.jar
34 log4j-over-slf4j-1.7.25.jar
   logback-classic-1.2.3.jar
    logback-core-1.2.3.jar
    mpush-api-0.8.0.jar
37
    mpush-cache-0.8.0.jar
38
    mpush-client-0.8.0.jar
    mpush-common-0.8.0.jar
40
    mpush-monitor-0.8.0.jar
41
    mpush-netty-0.8.0.jar
42
   mpush-tools-0.8.0.jar
43
   mpush-zk-0.8.0.jar
44
    netty-buffer-4.1.8.Final.jar
45
   netty-codec-4.1.8.Final.jar
46
    netty-codec-http-4.1.8.Final.jar
47
    netty-common-4.1.8.Final.jar
48
    netty-handler-4.1.8.Final.jar
49
    netty-resolver-4.1.8.Final.jar
    netty-transport-4.1.8.Final.jar
52
    netty-transport-native-epoll-4.1.8.Final-linux-x86_64.jar
    netty-transport-sctp-4.1.8.Final.jar
54
    netty-transport-udt-4.1.8.Final.jar
    slf4j-api-1.7.25.jar
    zookeeper-3.4.8.jar
56
57
```

## 脚本

#### env-mp.sh

```
#!/usr/bin/env bash
MP_BIN_DIR="${MP_BIN_DIR:-/usr/bin}"
MPUSH_PREFIX="${MP_BIN_DIR}/.."
MPUSH_HOME=$MPUSH_PREFIX
if [ "x$MP_CFG_DIR" = "x" ] 如果MP_CFG_DI
then
  if [ -e "${MPUSH_PREFIX}/conf" ]; then
   MP_CFG_DIR="$MP_BIN_DIR/../conf"
   MP_CFG_DIR="$MP_BIN_DIR/../etc/mpush"
  fi
if [ "x${MP_DATA_DIR}" = "x" ] 如果为空
then
   MP_DATA_DIR="${MPUSH_PREFIX}/tmp"
if [ "x${MP_LOG_DIR}" = "x" ]
then
   MP_LOG_DIR="${MPUSH_PREFIX}/logs" 指定日志目录
if [ -f "${MP_BIN_DIR}/set-env.sh" ]; then 如果存在此文件
  . "${MP_BIN_DIR}/set-env.sh"
if [ "x$MP_CFG" = "x" ]
```

```
MP_CFG="mpush.conf"
MP_CFG="$MP_CFG_DIR/$MP_CFG"
if [ -f "$MP_BIN_DIR/java.env" ]
then
   . "$MP_BIN_DIR/java.env"
if [ x{MP_LOG4J_PROP}" = "x" ]
then
   MP_LOG4J_PROP="INFO,CONSOLE"
if [ "$JAVA_HOME" != "" ]; then
 JAVA="$JAVA_HOME/bin/java"
 JAVA=java
CLASSPATH="$MP_CFG_DIR:$CLASSPATH" conf目录加入到classpath
if [ -e "${MPUSH_PREFIX}"/../lib/plugins/*.jar ]; then
 LIB_PATH=("${MPUSH_PREFIX}"/../lib/plugins/*.jar)
for i in "${LIB_PATH[@]}"
   CLASSPATH="$i:$CLASSPATH"
done
case "`uname`" in
   CYGWIN*) cygwin=true ;; 判定为cygwin则设置为true
   if $cygwin
then
   CLASSPATH=`cygpath -wp "$CLASSPATH"`
```

#### set-env.sh

```
#!/usr/bin/env bash
#开启远程调试
#JVM_FLAGS="$JVM_FLAGS -Xrunjdwp:transport=dt_socket,server=y,suspend=n,address=8008"

#GC配置
#运行模式 整个堆内存大小 GC算法
#JVM_FLAGS="$JVM_FLAGS -server -Xmx1024m -Xms1024m -XX:+UseG1GC -XX:MaxGCPauseMillis=200"
#GC日志 发生00M时创建堆内存转储文件
#JVM_FLAGS="$JVM_FLAGS -Xloggc:$MP_LOG_DIR/gc.log -XX:+PrintGCDetails -XX:+PrintGCDateStamps"
#发生00M后的操作
#JVM_FLAGS="-XX:+HeapDumpOnOutOfMemoryError -XX:HeapDumpPath=$MP_LOG_DIR -XX:OnOutOfMemoryError=$MP_BIN_DIR/restart.sh"
```

```
• • •
#!/usr/bin/env bash
MP_BIN="${BASH_SOURCE-$0}"
MP_BIN="$(dirname "${MP_BIN}")"
MP_BIN_DIR="$(cd "${MP_BIN}"; pwd)" bin
if [ -e "$MP_BIN/../libexec/env-mp.sh" ]; then 是否存在此
     "$MP_BIN_DIR/../libexec/env-mp.sh"
  . "$MP_BIN_DIR/env-mp.sh" 执行此脚
# up the JVM to accept JMX remote management:
# http://java.sun.com/javase/6/docs/technotes/guides/management/agent.html
# by default we allow local JMX connections
if [ "x$JMXLOCALONLY" = "x" ]
then
JMXLOCALONLY=false
fi
设置为false
if [ "x$JMXDISABLE" = "x" ] || [ "$JMXDISABLE" = 'false' ] 如果JMX是开
  echo "MPush JMX enabled by default" >&2
  # for some reason these two options are necessary on jdk6 on Ubuntu
# accord to the docs they are not necessary, but otw jconsole cannot
    \label{local-only-prop} \textbf{MP\_MAIN} = \texttt{"-Dcom.sun.management.jmxremote.local.only=\$JMXLOCALONLY"}
    if [ "x$JMXAUTH" = "x" ]
      JMXAUTH=false
    fi
if [ "x$JMXSSL" = "x" ]
      JMXSSL=false
    if [ "x$JMXL0G4J" = "x" ]
      JMXL0G4J=true
    echo "MPush remote JMX authenticate set to $JMXAUTH" >62

echo "MPush remote JMX authenticate set to $JMXAUTH" >62

echo "MPush remote JMX sel set to $JMXAUTH" >62
    echo "MPush remote JMX ssl set to $JMXSSL" >&2
    echo "MPush remote JMX log4j set to $JMXLOG4J" >62
MP_MAIN="-Dcom.sun.management.jmxremote -Dcom.sun.management.jmxremote.port=$JMXPORT -
Dcom.sun.management.jmxremote.authenticate=$JMXAUTH -Dcom.sun.management.jmxremote.ssl=$JMXSSL -Dmpush.jmx.log4j.disable=$JMXLOG4J"
    echo "JMX disabled by user request" >62 如果JMX是禁用的
MP_MAIN="$MP_MAIN -jar $MP_BIN_DIR/bootstrap.jar"
if [ "x$SERVER_JVM_FLAGS" != "x" ]
    JVM FLAGS="$SERVER JVM FLAGS $JVM FLAGS"
   MP_CFG="$MP_CFG_DIR/$2"
```

```
MP CFG="$2"
 if $cygwin
   MP_CFG=`cygpath -wp "$MP_CFG"`
   MP_CFG='cygpath -wp "SMP_CFG" 将cygwin路径转换为win路
# cygwin has a "kill" in the shell itself, gets confused
KILL=/bin/kill 设定win下的kill
KILL=kill ||inux ki||
fi
echo "Using config: $MP_CFG" >&2
GREP=/usr/xpg4/bin/grep
dRl
;;;
*)
   GREP=grep 其他系统,直接指定gro
esac 退出case
if [ -z "$MP_PID_FILE" ]; then 如果MP_PID_FILE串的长度为0

# MP_DATA_DIR="$($GREP "^[[:space:]]*dataDir" "$MP_CFG" | sed -e 's/.*=//')"
if [ ! -d "$MP_DATA_DIR" ]; then 如果不存在/xxx/tmp数据目录,则创建一
fi
    MP_PID_FILE="$MP_DATA_DIR/mpush_server.pid" 指定进程PID文件
    mkdir -p "$(dirname "$MP_PID_FILE")" 创建进程PID文件目录
_MP_DAEMON_OUT="$MP_LOG_DIR/mpush.out" 日志文件
case $1 in
    echo -n "Starting mpush ..."

if [ -f "$MP_PID_FILE" ]; then 如果PID文件存在

if kill -0 `cat "$MP_PID_FILE"` > /dev/null 2>&1; then 检查进程是否存在

echo $command already running as process `cat "$MP_PID_FILE"`.
     echo -n "Starting mpush ... "
     nohup "$JAVA" "-Dmp.home=$MPUSH_HOME" "-Dmp.conf=$MP_CFG" -cp "$CLASSPATH" $JVM_FLAGS $MP_MAIN > "$_MP_DAEMON_QUT" 2>&1 < /dev/null &
     if [ $? -eq 0 ]
      case "$OSTYPE" in
       *solaris*)
       -solin/echo "${!}\\c" > "$MP_PID_FILE"
;;
*)
/bin/echo -n $! > "$MP_PID_FILE" 置到PID文件中
      esac
if [ $? -eq 0 ]; 如果设置成功
        sleep 1
echo STARTED 睡眠1S,输出STARTED
       echo FAILED TO WRITE PID
      ;;
start-foreground)
"$JAVA" "-Dmp.
             "-Dmp.home=$MPUSH_HOME" "-Dmp.conf=$MP_CFG" -cp "$CLASSPATH" $JVM_FLAGS $MP_MAIN 前台方式
    echo "\"$JAVA\" $MP_MAIN "
     echo "\"-Dmp.home=$MPUSH_HOME -Dmp.conf=$MP_CFG\" "
echo "$JVM_FLAGS "
    echo "-cp \"$CLASSPATH\" "
echo "> \"$_MP_DAEMON_OUT\" 2>&1 < /dev/null"
 ;;
stop) mns
     '/ mp.sh stop
echo "Stopping mpush ... "
if [!-f "$MP_PID_FILE"] 如果不存在进程PID文件
      echo "no mpush to stop (could not find file $MP_PID_FILE)"  则认为没有可停止的应
      lse
$KILL -15 $(cat "$MP_PID_FILE")  等待应用退出,然后终止进程
       SLEEP=30
       while [ $SLEEP -ge 0 ]; do -qe:大士等于
kill -0 $(cat "$MP_PID_FILE") >/dev/null 2>&1 检查讲程是否存在 存在=0,不存在=1
         if [ $? -gt 0 ]; then
```

```
if [ $? != 0 ]; then 如果删除
if [ -w "$MP_PID_FILE" ]; then
                 cat /dev/null > "$MP_PID_FILE" 地方化
                echo "The PID file could not be removed or cleared."
            echo STOPPED
           break
          if [ $SLEEP -gt 0 ]; then
           .T [ $SLEEP -gt 0 ]; then
echo "stopping ... $SLEEP_COUNT"   如果睡眠时间 > 0,输出睡眠次数,线
            sleep 1
           T[$SLEEP -eq 0]; then 如果睡眠时间=0 echo "MPUSH did not stop in time." 30S,应用还未停止,打印线程栈、强制退出 echo "To aid diagnostics a thread dump has been written to standard out." kill -3 `cat "$MP_PID_FILE"` 打印线误比 echo "force stop MMNEW
          if [ $SLEEP -eq 0 ]; then 如果睡眠
            echo "force stop MPUSH.
           kill -9 `cat "$MP_PID_FILE"` 唱制条进程
            echo STOPPED
         SLEEP=`expr $SLEEP - 1`
         SLEEP_`expr $SLEEP - 1` 每次循环,睡眠时间-
SLEEP_COUNT=`expr $SLEEP_COUNT + 1` 睡眠冷物+
;;
upgrade)
     shift
     echo "upgrading the servers to 3.*"
"$JAVA" -cp "$CLASSPATH" $JVM_FLAGS com.mpush.tools.upgrade.UpgradeMain ${@}
     echo "Upgrading ...
;;
restart)
     art) <sup>量后</sup>
shift shift 参数左移,每次运行shift(不带参数)销毁一个参数,后面的参数
"$0" stop ${@} mp.sh xxx 经过shift移除了xxx之后,变为执行mp.sh stop
steep 1
     "$0" start ${@} 执行mp.sh start
status)
    # -q is necessary on some versions of linux where nc returns too quickly, and no stat result is output
clientPortAddress=`$GREP "^[[:space:]]*clientPortAddress[^[:alpha:]]" "$MP_CFG" | sed -e 's/.*=//'`
     if ! [ $clientPortAddress ]
         clientPortAddress="localhost"
     clientPort=`$GREP "^[[:space:]]*connect-server-port[^[:alpha:]]" "$MP_CFG" | sed -e 's/.*=//'`
     telnet 127.0.0.1 3002
    echo "Usage: $0 {start|start-foreground|stop|restart|status|upgrade|print-cmd}" >62
```

#### shell 脚本知识

- 17 -le:小于等于
- **-ge:**大于等于
- **-lt:**小于
- **-gt**: 大于