## ibotcluster

### ibotcluster:1.1

#### Dockerfile

|  |
| --- |
| #构建ibot\_cluser  FROM centos:6.9  ENV CLUSTER\_DIR=/usr/local/ibotcluster  ENV ROBOT\_DIR=$CLUSTER\_DIR/robot  ENV MANAGER\_DIR=$CLUSTER\_DIR/manager  ENV DBTOOL\_DIR=$CLUSTER\_DIR/dbtool  ENV ROBOT\_PROPERTIES=$ROBOT\_DIR/webapps/robot/WEB-INF/classes/app.properties  ENV MANAGER\_PROPERTIES=$MANAGER\_DIR/webapps/manager/WEB-INF/classes/app.properties  ENV DBTOOL\_PROPERTIES=$CLUSTER\_DIR/dbtool/classes/app.properties  ENV JAVA\_HOME /usr/java/jdk1.6.0\_45  ENV PATH=$PATH:$JAVA\_HOME/bin/  ENV MYSQL\_CONF=/etc/my.cnf  ENV MYSQL\_ROOT\_PASSWORD=root  WORKDIR $CLUSTER\_DIR  #添加中文支持  RUN set -ex \  && rm -rf /etc/localtime && ln -s /usr/share/zoneinfo/Asia/Shanghai /etc/localtime \  && yum -y install kde-l10n-Chinese glibc-common \  && localedef -c -f UTF-8 -i zh\_CN zh\_CN.utf8  ENV LC\_ALL zh\_CN.utf8  #安装wget unzip mysql-server,交互设置mysql密码是root  RUN set -ex \  && yum -y install wget unzip mysql mysql-server  RUN set -ex \  && sed -i '/\[mysqld\]/a\character-set-server=utf8 #utf-8编码' $MYSQL\_CONF \  && sed -i '/\[mysqld\]/a\skip-name-resolve #去除名称解析' $MYSQL\_CONF \  && sed -i '/\[mysqld\]/a\lower\_case\_table\_names=1 #忽略表名大小写' $MYSQL\_CONF \  && sed -i '/\[mysqld\]/a\default-storage-engine=INNODB #默认使用innodb引擎' $MYSQL\_CONF \  && /etc/init.d/mysqld start \  && mysql -e "update mysql.user set password=PASSWORD('${MYSQL\_ROOT\_PASSWORD}');" \  && mysql -e "flush privileges;" \  && mysql -uroot -p${MYSQL\_ROOT\_PASSWORD} -e "create database ibot\_cluster;"  #安装jdk1.6  RUN set -ex \  && wget http://resources.uairobot.com/public/linux\_software/jdk/jdk-6u45-linux-x64.bin \  && chmod u+x jdk-6u45-linux-x64.bin && ./jdk-6u45-linux-x64.bin \  && rm -rf jdk-6u45-linux-x64.bin \  && mkdir /usr/java && mv jdk1.6.0\_45 /usr/java  #下载 jetty-robot 和 jetty-manager  RUN set -ex \  && wget http://resources.uairobot.com/public/linux\_software/jetty/jetty-6.tar.gz \  && tar -zxf jetty-6.tar.gz && mv jetty-6 $ROBOT\_DIR \  && tar -zxf jetty-6.tar.gz && mv jetty-6 $MANAGER\_DIR \  && rm -rf jetty-6.tar.gz \  && wget http://resources.uairobot.com/public/ibot/ibot\_9.0\_suite/ibot9\_20180417/robot-20180417.zip \  && wget http://resources.uairobot.com/public/ibot/ibot\_9.0\_suite/ibot9\_20180417/manager-20180417.zip \  && unzip robot-20180417.zip -d $ROBOT\_DIR/webapps \  && rm -rf robot-20180417.zip \  && unzip manager-20180417.zip -d $MANAGER\_DIR/webapps \  && rm -rf manager-20180417.zip  #设置端口号,默认 8000, robot 80 manager 81  RUN set -ex \  && sed -i.ori 's#default="8000"#default="80"#' $ROBOT\_DIR/etc/jetty.xml \  && sed -i.ori 's#default="8000"#default="81"#' $MANAGER\_DIR/etc/jetty.xml  #设置jetty.sh  RUN set -ex \  && sed -i.ori 's#JETTY\_HOME=/usr/local/jetty\_v6#JETTY\_HOME='$ROBOT\_DIR'#' $ROBOT\_DIR/jetty.sh \  && sed -i.ori 's#JETTY\_HOME=/usr/local/jetty\_v6#JETTY\_HOME='$MANAGER\_DIR'#' $MANAGER\_DIR/jetty.sh  #设置 robot配置文件  RUN set -ex \  && sed -i.ori 's#ai.addr=172.16.8.35:90#ai.addr=##' $ROBOT\_PROPERTIES \  && sed -i.ori 's#172.16.8.35:3306/manager\_test#127.0.0.1:3306/ibot\_cluster#' $ROBOT\_PROPERTIES  #设置 manager配置文件  RUN set -ex \  && sed -i.ori 's#ai.addr=172.16.8.35:90#ai.addr=#' $MANAGER\_PROPERTIES \  && sed -i.ori 's#172.16.8.35:3306/manager\_test#127.0.0.1:3306/ibot\_cluster#' $MANAGER\_PROPERTIES \  && sed -i.ori 's#robot.context\_path.internal=#robot.context\_path.internal=127.0.0.1:/robot/#' $MANAGER\_PROPERTIES  #启用集群功能  RUN set -ex \  && sed -i.ori 's#ibot.mgr.clusterEnabled=#ibot.mgr.clusterEnabled=true#' $MANAGER\_PROPERTIES \  && sed -i.ori 's#-Xconcurrentio#-Xconcurrentio -Dibot.mgr.clusterEnabled=true#' $ROBOT\_DIR/jetty.sh  #启用h2,内置数据源  RUN set -ex \  && sed -i.ori 's#-Xconcurrentio#-Xconcurrentio -Dh2db.pori=9100#' $ROBOT\_DIR/jetty.sh \  && sed -i.ori 's#-Xconcurrentio#-Xconcurrentio -Dh2db.pori=9100#' $MANAGER\_DIR/jetty.sh  #下载dbtool  RUN set -ex \  && wget http://resources.uairobot.com/public/ibot/ibot\_9.0\_suite/ibot9\_20180417/dbtool-20180417.zip \  && unzip dbtool-20180417.zip -d $CLUSTER\_DIR \  && rm -rf dbtool-20180417.zip  #设置dbtool 配置文件  RUN set -ex \  && sed -i.ori 's#APP\_HOME=.#APP\_HOME='$DBTOOL\_DIR'#' $DBTOOL\_DIR/run.sh \  && sed -i.ori 's#JAVA\_HOME=/Library/Java/Home/#JAVA\_HOME='$JAVA\_HOME'#' $DBTOOL\_DIR/run.sh \  && sed -i.ori 's#jdbc:mysql://127.0.0.1:3306/fred0#jdbc:mysql://127.0.0.1:3306/ibot\_cluster'# $DBTOOL\_PROPERTIES \  && sed -i.ori 's#jdbc.password=508956#jdbc.password=root#' $DBTOOL\_PROPERTIES  #初始化数据库,初始化数据库遇到问题,服务解决,搁置  #mysql robot manager  EXPOSE 3306/tcp 80/tcp 81/tcp  #启动服务 |

|  |
| --- |
| docker build -t litongjava/ibotcluster:1.1 .  docker push litongjava/ibotcluster:1.1 |

docker pull litongjava/ibotcluster:1.1

#### 启动容器

执行步骤,启动容器,初始化数据库,启动服务

#启动容器

docker run -dit --restart=always --name gxdw\_ibot\_cluster \

-p 10000:80 -p 10001:81 -p:3306:3306 \

litongjava/ibotcluster:1.1 /bin/sh

docker-enter gxdw\_ibot\_cluster

#初始化数据库

/etc/init.d/mysqld start

$DBTOOL\_DIR/run.sh==>1.校验数据库(表,视图,字段,索引,初始数据)==>2. iBot Cluster

#启动服务

/usr/local/ibotcluster/robot/jetty.sh start

/usr/local/ibotcluster/manager/jetty.sh start

测试访问,robot启动完成

端口

|  |  |
| --- | --- |
| 81 | manager |
| 80 | robot |

#### 错误记录

使用绝对路径启动manager时出现下面的错误

|  |
| --- |
| java -jar /usr/local/ibotcluster/manager/start.jar //usr/local/ibotcluster/manager/etc/jetty.xml |
| java.lang.ClassNotFoundException: org.mortbay.xml.XmlConfiguration  at java.net.URLClassLoader$1.run(URLClassLoader.java:202)  at java.security.AccessController.doPrivileged(Native Method)  at java.net.URLClassLoader.findClass(URLClassLoader.java:190)  at java.lang.ClassLoader.loadClass(ClassLoader.java:306)  at java.lang.ClassLoader.loadClass(ClassLoader.java:247)  at org.mortbay.start.Main.invokeMain(Main.java:179)  at org.mortbay.start.Main.start(Main.java:534)  at org.mortbay.start.Main.start(Main.java:441)  at org.mortbay.start.Main.main(Main.java:119) |

### ibotcluster:1.2

#### Dockerfile

|  |
| --- |
| #构建ibot\_cluser  FROM centos:6.9  ENV CLUSTER\_DIR=/usr/local/ibotcluster  ENV ROBOT\_DIR=$CLUSTER\_DIR/robot  ENV MANAGER\_DIR=$CLUSTER\_DIR/manager  ENV DBTOOL\_DIR=$CLUSTER\_DIR/dbtool  ENV ROBOT\_PROPERTIES=$ROBOT\_DIR/webapps/robot/WEB-INF/classes/app.properties  ENV MANAGER\_PROPERTIES=$MANAGER\_DIR/webapps/manager/WEB-INF/classes/app.properties  ENV DBTOOL\_PROPERTIES=$CLUSTER\_DIR/dbtool/classes/app.properties  ENV JAVA\_HOME /usr/java/jdk1.6.0\_45  ENV PATH=$PATH:$JAVA\_HOME/bin/  ENV MYSQL\_CONF=/etc/my.cnf  ENV MYSQL\_ROOT\_PASSWORD=root  WORKDIR $CLUSTER\_DIR  #设置时间  RUN set -ex \  && rm -rf /etc/localtime && ln -s /usr/share/zoneinfo/Asia/Shanghai /etc/localtime \  && localedef -c -f UTF-8 -i zh\_CN zh\_CN.utf8  ENV LC\_ALL zh\_CN.utf8  #使用合光的yum源  RUN set -ex \  && rm -rf /etc/yum.repos.d/\* \  && curl -o /etc/yum.repos.d/uairobot.repo http://download.uairobot.com/yum/uairobot.repo \  && yum clean all  #安装wget unzip mysql-server安装jdk1.6  RUN set -ex \  && yum -y install unzip mysql mysql-server \  && yum clean all  RUN set -ex \  && curl -O http://download.uairobot.com/jdk/1.6/jdk-6u45-linux-x64.bin \  && chmod u+x jdk-6u45-linux-x64.bin && ./jdk-6u45-linux-x64.bin && rm -rf jdk-6u45-linux-x64.bin \  && mkdir /usr/java && mv jdk1.6.0\_45 /usr/java  #下载 jetty-robot 和 jetty-manager  RUN set -ex \  && curl -O http://download.uairobot.com/jetty/jetty-6.tar.gz \  && tar -zxf jetty-6.tar.gz && mv jetty-6 $ROBOT\_DIR \  && tar -zxf jetty-6.tar.gz && mv jetty-6 $MANAGER\_DIR \  && rm -rf jetty-6.tar.gz \  && curl -O http://download.uairobot.com/ibot/ibot\_9.0\_suite/ibot9\_20180417/robot-20180417.zip \  && curl -O http://download.uairobot.com/ibot/ibot\_9.0\_suite/ibot9\_20180417/manager-20180417.zip \  && unzip robot-20180417.zip -d $ROBOT\_DIR/webapps \  && rm -rf robot-20180417.zip \  && unzip manager-20180417.zip -d $MANAGER\_DIR/webapps \  && rm -rf manager-20180417.zip  #设置端口号,默认 8000, robot 80 manager 81  RUN set -ex \  && sed -i.ori 's#default="8000"#default="80"#' $ROBOT\_DIR/etc/jetty.xml \  && sed -i.ori 's#default="8000"#default="81"#' $MANAGER\_DIR/etc/jetty.xml  #设置jetty.sh,APP\_HOME和JETTY\_HOME已经通过其他方式处理,不需要设置  #设置 robot配置文件  RUN set -ex \  && sed -i.ori 's#ai.addr=172.16.8.35:90#ai.addr=##' $ROBOT\_PROPERTIES \  && sed -i.ori 's#172.16.8.35:3306/manager\_test#127.0.0.1:3306/ibot\_cluster#' $ROBOT\_PROPERTIES  #设置 manager配置文件  RUN set -ex \  && sed -i.ori 's#ai.addr=172.16.8.35:90#ai.addr=#' $MANAGER\_PROPERTIES \  && sed -i.ori 's#172.16.8.35:3306/manager\_test#127.0.0.1:3306/ibot\_cluster#' $MANAGER\_PROPERTIES \  && sed -i.ori 's#robot.context\_path=http://172.16.8.35/robot/#robot.context\_path=http://127.0.0.1/robot/#' $MANAGER\_PROPERTIES \  && sed -i.ori 's#robot.context\_path.internal=#robot.context\_path.internal=http://127.0.0.1:/robot/#' $MANAGER\_PROPERTIES  #启用集群功能  RUN set -ex \  && sed -i.ori 's#ibot.mgr.clusterEnabled=#ibot.mgr.clusterEnabled=true#' $MANAGER\_PROPERTIES \  && sed -i.ori 's#-Xconcurrentio#-Xconcurrentio -Dibot.mgr.clusterEnabled=true#' $ROBOT\_DIR/jetty.sh  #启用h2,内置数据源  RUN set -ex \  && sed -i.ori 's#-Xconcurrentio#-Xconcurrentio -Dh2db.port=9100#' $ROBOT\_DIR/jetty.sh \  && sed -i.ori 's#-Xconcurrentio#-Xconcurrentio -Dh2db.port=9100#' $MANAGER\_DIR/jetty.sh  #下载dbtool  #RUN set -ex \  # && curl -O http://download.uairobot.com/ibot/ibot\_9.0\_suite/ibot9\_20180417/dbtool-20180417.zip \  # && unzip dbtool-20180417.zip -d $CLUSTER\_DIR \  # && rm -rf dbtool-20180417.zip  #  #设置dbtool 配置文件  #RUN set -ex \  # && sed -i.ori 's#APP\_HOME=.#APP\_HOME='$DBTOOL\_DIR'#' $DBTOOL\_DIR/run.sh \  # && sed -i.ori 's#JAVA\_HOME=/Library/Java/Home/#JAVA\_HOME='$JAVA\_HOME'#' $DBTOOL\_DIR/run.sh \  # && sed -i.ori 's#jdbc:mysql://127.0.0.1:3306/fred0#jdbc:mysql://127.0.0.1:3306/ibot\_cluster'# $DBTOOL\_PROPERTIES \  # && sed -i.ori 's#jdbc.password=508956#jdbc.password=root#' $DBTOOL\_PROPERTIES  #设置mysql配置,创建用户名和密码,并初始化数据库,测试没有出现乱码  RUN set -ex \  && sed -i '/\[mysqld\]/a\character-set-server=utf8 #utf-8编码' $MYSQL\_CONF \  && sed -i '/\[mysqld\]/a\skip-name-resolve #去除名称解析' $MYSQL\_CONF \  && sed -i '/\[mysqld\]/a\lower\_case\_table\_names=1 #忽略表名大小写' $MYSQL\_CONF \  && sed -i '/\[mysqld\]/a\default-storage-engine=INNODB #默认使用innodb引擎' $MYSQL\_CONF \  && /etc/init.d/mysqld start \  && mysql -e "update mysql.user set password=PASSWORD('${MYSQL\_ROOT\_PASSWORD}');" \  && mysql -e "flush privileges;" \  && mysql -uroot -p${MYSQL\_ROOT\_PASSWORD} -e "create database ibot\_cluster;" \  && curl -O http://download.uairobot.com/ibot/ibot\_9.0\_suite/ibot9\_20180417/sql/ibot\_cluster\_20180417.sql \  && mysql -uroot -p${MYSQL\_ROOT\_PASSWORD} ibot\_cluster < ibot\_cluster\_20180417.sql \  && rm -rf ibot\_cluster\_20180417.sql \  && curl -o /etc/init.d/ibot\_cluster\_start.sh http://download.uairobot.com/ibot/ibot\_9.0\_suite/ibot9\_20180417/sh/ibot\_cluster\_start.sh \  && chmod u+x /etc/init.d/ibot\_cluster\_start.sh  #使用$DBTOOL\_DIR/run.sh在初始化数据是显示无效的输入  #映射端口  EXPOSE 3306/tcp 80/tcp 81/tcp  #启动服务  CMD ["/etc/init.d/ibot\_cluster\_start.sh"] |

/etc/init.d/ibot\_cluster\_start.sh 内容如下

|  |
| --- |
| #!/bin/sh  /etc/init.d/mysqld start  /usr/local/ibotcluster/robot/jetty.sh start  #启动manager  /usr/java/jdk1.6.0\_45/bin/java -Xmn1024M -Xms2048M -Xmx2048M -XX:MaxPermSize=512M -Xconcurrentio -Dh2db.port=9100 \  -XX:SurvivorRatio=5 -XX:TargetSurvivorRatio=90 -XX:MaxTenuringThreshold=31 -XX:CMSInitiatingOccupancyFraction=90 \  -XX:MaxDirectMemorySize=256M -XX:+UseParNewGC -XX:+CMSParallelRemarkEnabled -XX:+UseConcMarkSweepGC \  -Djava.nio.channels.spi.SelectorProvider=sun.nio.ch.EPollSelectorProvider -Dsun.net.inetaddr.ttl=60 \  -Dorg.mortbay.jetty.Request.maxFormContentSize=-1 -Djetty.home=/usr/local/ibotcluster/manager -Djava.io.tmpdir=/tmp \  -jar /usr/local/ibotcluster/manager/start.jar /usr/local/ibotcluster/manager/etc/jetty-logging.xml /usr/local/ibotcluster/manager/etc/jetty.xml |

构建镜像

|  |
| --- |
| docker build -t litongjava/ibotcluster:1.2 .  docker push litongjava/ibotcluster:1.2 |

#### 启动容器

|  |
| --- |
| docker run -dit --restart=always --name=ibot\_cluster \  -p 3306:3306 -p 10000:80 -p 10001:81 \  -v /dv/ibotcluster/robot/log:/usr/local/ibot\_cluster/robot/log\  -v /dv/ibotcluster/manager/log:/usr/local/ibot\_cluster/manager/log\  litongjava/ibotcluster:1.2 |

#### ibotcluster:1.3

启动容器

|  |
| --- |
| docker run -dit --restart=always --name=ibot\_cluster \  -p 3306:3306 -p 10000:80 -p 10001:81 \  -v /dv/ibotcluster/robot/logs:/usr/local/ibotcluster/robot/logs \  -v /dv/ibotcluster/manager/logs:/usr/local/ibotcluster/manager/logs \  litongjava/ibotcluster:1.3 |

#### ibotcluster:1.4

|  |
| --- |
| docker run -dit --restart=always --name=ibot\_cluster --privileged \  -v /dv/ibot\_cluster/usr/local/ibotcluster/manager/logs:/usr/local/ibotcluster/manager/logs \  -v /dv/ibot\_cluster/usr/local/ibotcluster/robot/logs:/usr/local/ibotcluster/robot/logs \  -p 3306:3306 -p 8000:80 -p 8001:81 \  litongjava/ibot-cluster:1.4 |

export

|  |  |
| --- | --- |
| 80 | roobot |
| 81 | manager |

安装目录

|  |  |
| --- | --- |
| /usr/local/ibotcluster/manager | manager |
| /usr/local/ibotcluster/robot | robot |

连接mysql

|  |
| --- |
| docker-enter ibot\_cluster  mysql -uroot -proot -h127.0.0.1  >grant all privileges on \*.\* to root@'%' identified by 'root';  >flush privileges; |

外部连接

|  |
| --- |
| mysql -uroot -proot -h127.0.0.1 -P3307 |