### MySQL

#### 构建镜像

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| --- |
| FROM debian:jessie  RUN groupadd -r mysql && useradd -r -g mysql mysql  #安装gosu  ENV GOSU\_VERSION 1.7  RUN set -x \  && apt-get update && apt-get install -y --no-install-recommends ca-certificates wget && rm -rf /var/lib/apt/lists/\* \  && wget -O /usr/local/bin/gosu "https://github.com/tianon/gosu/releases/download/$GOSU\_VERSION/gosu-$(dpkg --print-architecture)" \  && wget -O /usr/local/bin/gosu.asc "https://github.com/tianon/gosu/releases/download/$GOSU\_VERSION/gosu-$(dpkg --print-architecture).asc" \  && export GNUPGHOME="$(mktemp -d)" \  && gpg --keyserver ha.pool.sks-keyservers.net --recv-keys B42F6819007F00F88E364FD4036A9C25BF357DD4 \  && gpg --batch --verify /usr/local/bin/gosu.asc /usr/local/bin/gosu \  && rm -r "$GNUPGHOME" /usr/local/bin/gosu.asc \  && chmod +x /usr/local/bin/gosu \  && gosu nobody true \  && apt-get purge -y --auto-remove ca-certificates wget  RUN mkdir /docker-entrypoint-initdb.d  RUN apt-get update && apt-get install -y --no-install-recommends perl pwgen && rm -rf /var/lib/apt/lists/\*  RUN apt-key adv --keyserver ha.pool.sks-keyservers.net --recv-keys A4A9406876FCBD3C456770C88C718D3B5072E1F5  #安装mysql  ENV MYSQL\_MAJOR 5.6  ENV MYSQL\_VERSION 5.6.41-1debian8  RUN echo "deb http://repo.mysql.com/apt/debian/ jessie mysql-${MYSQL\_MAJOR}" > /etc/apt/sources.list.d/mysql.list  RUN { \  echo mysql-community-server mysql-community-server/data-dir select ''; \  echo mysql-community-server mysql-community-server/root-pass password ''; \  echo mysql-community-server mysql-community-server/re-root-pass password ''; \  echo mysql-community-server mysql-community-server/remove-test-db select false; \  } | debconf-set-selections \  && apt-get update && apt-get install -y mysql-server="${MYSQL\_VERSION}" && rm -rf /var/lib/apt/lists/\* \  && rm -rf /var/lib/mysql && mkdir -p /var/lib/mysql /var/run/mysqld \  && chown -R mysql:mysql /var/lib/mysql /var/run/mysqld \  # ensure that /var/run/mysqld (used for socket and lock files) is writable regardless of the UID our mysqld instance ends up having at runtime  && chmod 777 /var/run/mysqld  #设置my.conf  RUN sed -Ei 's/^(bind-address|log)/#&/' /etc/mysql/my.cnf \  && echo 'skip-host-cache\nskip-name-resolve' | awk '{ print } $1 == "[mysqld]" && c == 0 { c = 1; system("cat") }' /etc/mysql/my.cnf > /tmp/my.cnf \  && mv /tmp/my.cnf /etc/mysql/my.cnf  #启动msyql  VOLUME /var/lib/mysql  EXPOSE 3306  CMD ["mysqld"] |

|  |
| --- |
| docker built -t litongjava/mysql .  docker push litongjava/mysql |

启动镜像

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| --- |
| docker run -dit --restart=always --name=mysql1 -p 3306:3306 litongjava/mysql |

### 启动其他mysql镜像

#### 启动官方mysql镜像

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| --- |
| docker run -dit --restart=always --name mysql -p 1039:3306 -e TZ="Asia/Shanghai" \  -e MYSQL\_ROOT\_PASSWORD=00000000 \  -v /dv/mysql/var/lib/mysql:/var/lib/mysql \  mysql:5.6.35 |

export dir

|  |  |
| --- | --- |
| 配置文件 | /etc/mysql/ |
| 日志文件 |  |
| 数据文件 | /var/lib/mysql |

export port

|  |  |
| --- | --- |
| 3306 | mysql启动端口 |

environmeng variaables

|  |  |
| --- | --- |
| MYSQL\_ROOT\_PASSWORD | mysql密码 |

CMD

|  |  |
| --- | --- |
| CMD | CMD ["mysqld"] |

配置文件启动

vi docker.cnf

|  |
| --- |
| [mysqld]  skip-host-cache  skip-name-resolve  character-set-server=utf8  lower\_case\_table\_name=1 |

运行mysql

|  |
| --- |
| docker run -dit --restart=always --name=hg\_mysql --privileged=true -p 1034:3306 \  -v /dv/hg\_mysql/docker.cnf:/etc/mysql/conf.d/docker.cnf \  -v /dv/hg\_mysql/lib:/var/lib/mysql \  -e MYSQL\_ROOT\_PASSWORD=root \  mysql:5.6.35 |

复制配置文件出来

|  |
| --- |
| docker cp 4639b1d15af9:/etc/mysql/ /dv/hg\_mysql/etc/mysql |

启动命令

|  |
| --- |
| hg\_mysql:  image: mysql:5.6  container\_name: hg\_mysql  ports:  - 3306:3306  volumes:  - /dv/hg\_mysql/var/lib/mysql:/var/lib/mysql  - /dv/hg\_mysql/var/log/mysql:/var/log/mysql  - /dv/hg\_mysql/etc/mysql:/etc/mysql  environment:  - MYSQL\_ROOT\_PASSWORD=00000000 |

#### 错误记录

编写Dockerfile,启动mysql服务,设置密码是root

|  |
| --- |
| FROM mysql:5.6.35  RUN set -ex \  && /etc/init.d/mysql start \  && mysql -e "grant all privileges on \*.\* to root@'127.0.0.1' identified by 'root';" \  && mysql -e "create database ibot\_cluster;" \  && mysqladmin -u root password root  EXPOSE 3306/tcp  CMD [mysqld] |
| docker build -t mysqlerr1 |

镜像构建完成后启动镜像,启动mysql

|  |
| --- |
| # docker run -dit mysqlerr1 /bin/sh  4901a0dcf1594e4fa1be8f94a2a36e331b3cc2c422c2ca45669cb5fa6ad64a79  #docker-enter 4901  # /etc/init.d/mysql start |

奇怪的是mysql会这会重新初始化创建数据库