← Docker 安装 Redis Docker 安装 Apache →

Docker 安装 MongoDB

方法一、docker pull mongo

查找Docker Hub上的mongo镜像

```
runoob@runoob:~/mongo$ docker search mongo
NAME                                DESCRIPTION                     STARS     OFFICIAL   AUTOMATED
mongo                               MongoDB document databases ...  1989      [OK]
mongo-express                       Web-based MongoDB admin int...  22        [OK]
mvertes/alpine-mongo                light MongoDB container         19                   [OK]
mongooseim/mongooseim-docker        MongooseIM server the lates...  9                    [OK]
torusware/speedus-mongo             Always updated official Mon...  9                    [OK]
jacksoncage/mongo                   Instant MongoDB sharded cluster 6                    [OK]
mongoclient/mongoclient             Official docker image for M...  4                    [OK]
jadsonlourenco/mongo-rocks          Percona Mongodb with Rocksd...  4                    [OK]
asteris/apache-php-mongo            Apache2.4 + PHP + Mongo + m...  2                    [OK]
19hz/mongo-container                Mongodb replicaset for coreos   1                    [OK]
nitra/mongo                         Mongo3 centos7                  1                    [OK]
ackee/mongo                         MongoDB with fixed Bluemix p...  1                   [OK]
kobotoolbox/mongo                   https://github.com/kobotoolb...  1                   [OK]
valtlfelipe/mongo                   Docker Image based on the la...  1                   [OK]
```

这里我们拉取官方的镜像,标签为3.2

```
runoob@runoob:~/mongo$ docker pull mongo
```

等待下载完成后，我们就可以在本地镜像列表里查到REPOSITORY为mongo,标签为3.2的镜像。

```
runoob@runoob:~/mongo$ docker images mongo
REPOSITORY          TAG                 IMAGE ID            CREATED             SIZE
mongo               latest              63c6b736e399        2 days ago          379MB
```

方法二、通过 Dockerfile 构建

创建Dockerfile

首先，创建目录mongo,用于存放后面的相关东西。

```
runoob@runoob:~$ mkdir -p ~/mongo  ~/mongo/db
```

db目录将映射为mongo容器配置的/data/db目录,作为mongo数据的存储目录

进入创建的mongo目录，创建Dockerfile

```
FROM debian:jessie-slim

# add our user and group first to make sure their IDs get assigned consistently, regardless of whatever
 dependencies get added
RUN groupadd -r mongodb && useradd -r -g mongodb mongodb

RUN apt-get update \
    && apt-get install -y --no-install-recommends \
        ca-certificates \
        jq \
        numactl \
    && rm -rf /var/lib/apt/lists/*

# grab gosu for easy step-down from root (https://github.com/tianon/gosu/releases)
ENV GOSU_VERSION 1.10
# grab "js-yaml" for parsing mongod's YAML config files (https://github.com/nodeca/js-yaml/releases)
ENV JSYAML_VERSION 3.10.0

RUN set -ex; \
    \
    apt-get update; \
    apt-get install -y --no-install-recommends \
        wget \
    ; \
    rm -rf /var/lib/apt/lists/*; \
    \
    dpkgArch="$(dpkg --print-architecture | awk -F- '{ print $NF }')"; \
    wget -O /usr/local/bin/gosu "https://github.com/tianon/gosu/releases/download/$GOSU_VERSION/gosu-$dp
kgArch"; \
    wget -O /usr/local/bin/gosu.asc "https://github.com/tianon/gosu/releases/download/$GOSU_VERSION/gosu
-$dpkgArch.asc"; \
    export GNUPGHOME="$(mktemp -d)"; \
    gpg --keyserver ha.pool.sks-keyservers.net --recv-keys B42F6819007F00F88E364FD4036A9C25BF357DD4; \
    gpg --batch --verify /usr/local/bin/gosu.asc /usr/local/bin/gosu; \
    command -v gpgconf && gpgconf --kill all || :; \
    rm -r "$GNUPGHOME" /usr/local/bin/gosu.asc; \
    chmod +x /usr/local/bin/gosu; \
    gosu nobody true; \
    \
    wget -O /js-yaml.js "https://github.com/nodeca/js-yaml/raw/${JSYAML_VERSION}/dist/js-yaml.js"; \
# TODO some sort of download verification here
    \
    apt-get purge -y --auto-remove wget

RUN mkdir /docker-entrypoint-initdb.d
```

```
ENV GPG_KEYS \
# pub   4096R/AAB2461C 2014-02-25 [expires: 2016-02-25]
#       Key fingerprint = DFFA 3DCF 326E 302C 4787  673A 01C4 E7FA AAB2 461C
# uid                  MongoDB 2.6 Release Signing Key <packaging@mongodb.com>
    DFFA3DCF326E302C4787673A01C4E7FAAAB2461C \
# pub   4096R/EA312927 2015-10-09 [expires: 2017-10-08]
#       Key fingerprint = 42F3 E95A 2C4F 0827 9C49  60AD D68F A50F EA31 2927
# uid                  MongoDB 3.2 Release Signing Key <packaging@mongodb.com>
    42F3E95A2C4F08279C4960ADD68FA50FEA312927
# https://docs.mongodb.com/manual/tutorial/verify-mongodb-packages/#download-then-import-the-key-file
RUN set -ex; \
    export GNUPGHOME="$(mktemp -d)"; \
    for key in $GPG_KEYS; do \
        gpg --keyserver ha.pool.sks-keyservers.net --recv-keys "$key"; \
    done; \
    gpg --export $GPG_KEYS > /etc/apt/trusted.gpg.d/mongodb.gpg; \
    command -v gpgconf && gpgconf --kill all || :; \
    rm -r "$GNUPGHOME"; \
    apt-key list

# Allow build-time overrides (eg. to build image with MongoDB Enterprise version)
# Options for MONGO_PACKAGE: mongodb-org OR mongodb-enterprise
# Options for MONGO_REPO: repo.mongodb.org OR repo.mongodb.com
# Example: docker build --build-arg MONGO_PACKAGE=mongodb-enterprise --build-arg MONGO_REPO=repo.mongod
b.com .
ARG MONGO_PACKAGE=mongodb-org
ARG MONGO_REPO=repo.mongodb.org
ENV MONGO_PACKAGE=${MONGO_PACKAGE} MONGO_REPO=${MONGO_REPO}

ENV MONGO_MAJOR 3.2
ENV MONGO_VERSION 3.2.20

RUN echo "deb http://$MONGO_REPO/apt/debian jessie/${MONGO_PACKAGE%-unstable}/$MONGO_MAJOR main" | tee
 "/etc/apt/sources.list.d/${MONGO_PACKAGE%-unstable}.list"

RUN set -x \
    && apt-get update \
    && apt-get install -y \
        ${MONGO_PACKAGE}=$MONGO_VERSION \
        ${MONGO_PACKAGE}-server=$MONGO_VERSION \
        ${MONGO_PACKAGE}-shell=$MONGO_VERSION \
        ${MONGO_PACKAGE}-mongos=$MONGO_VERSION \
        ${MONGO_PACKAGE}-tools=$MONGO_VERSION \
    && rm -rf /var/lib/apt/lists/* \
    && rm -rf /var/lib/mongodb \
    && mv /etc/mongod.conf /etc/mongod.conf.orig

RUN mkdir -p /data/db /data/configdb \
    && chown -R mongodb:mongodb /data/db /data/configdb
```

```
VOLUME /data/db /data/configdb

COPY docker-entrypoint.sh /usr/local/bin/
RUN ln -s usr/local/bin/docker-entrypoint.sh /entrypoint.sh # backwards compat
ENTRYPOINT ["docker-entrypoint.sh"]

EXPOSE 27017
CMD ["mongod"]
```

通过Dockerfile创建一个镜像，替换成你自己的名字

```
runoob@runoob:~/mongo$ docker build -t mongo:3.2 .
```

创建完成后，我们可以在本地的镜像列表里查找到刚刚创建的镜像

```
runoob@runoob:~/mongo$ docker images  mongo:3.2
REPOSITORY          TAG                 IMAGE ID            CREATED             SIZE
mongo               3.2                 282fd552add6        9 days ago          336.1 MB
```

使用mongo镜像

运行容器

```
runoob@runoob:~/mongo$ docker run -p 27017:27017 -v $PWD/db:/data/db -d mongo:3.2
cda8830cad5fe35e9c4aed037bbd5434b69b19bf2075c8626911e6ebb08cad51
runoob@runoob:~/mongo$
```

命令说明：

-p 27017:27017 :将容器的27017 端口映射到主机的27017 端口

-v $PWD/db:/data/db :将主机中当前目录下的db挂载到容器的/data/db，作为mongo数据存储目录

查看容器启动情况

```
runoob@runoob:~/mongo$ docker ps
CONTAINER ID   IMAGE        COMMAND                  ...    PORTS                      NAMES
cda8830cad5f   mongo:3.2    "/entrypoint.sh mongo"   ...    0.0.0.0:27017->27017/tcp   suspicious_gooda
ll
```

使用mongo镜像执行mongo 命令连接到刚启动的容器,主机IP为172.17.0.1

```
runoob@runoob:~/mongo$ docker run -it mongo:3.2 mongo --host 172.17.0.1
MongoDB shell version: 3.2.7
connecting to: 172.17.0.1:27017/test
Welcome to the MongoDB shell.
For interactive help, type "help".
```

```
For more comprehensive documentation, see
    http://docs.mongodb.org/
Questions? Try the support group
    http://groups.google.com/group/mongodb-user
>
```

← Docker 安装 Redis

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