◆ Docker 安装 MongoDB

Docker 命令大全 →

# Docker 安装 Apache

### 方法一、docker pull httpd

查找Docker Hub上的httpd镜像

AME	DESCRIPTION	CTARC	OFFICIAL AUTOMATED
AME		STARS	OFFICIAL AUTOMATED
ttpd	The Apache HTTP Server	524	[OK]
entos/httpd		7	[OK]
gielen/httpd-image-php5	Docker image for Apache	1	[OK]
icrowebapps/httpd-frontend	Httpd frontend allowing	1	[OK]
olhens/httpd	Apache httpd 2 Server	1	[OK]
ublici/httpd	httpd:latest	0	[OK]
ublicisworldwide/httpd	The Apache httpd webser	0	[OK]
gielen/httpd-image-simple	Docker image for simple	0	[OK]
olsson/httpd	Derivatives of the offi	0	[OK]
gielen/httpd-image-drush	Apache HTTPD + Drupal S	0	[OK]
earninglayers/httpd		0	[OK]
ohrabkhan/httpd	Docker httpd + php5.6 (	0	[OK]
intohvri/docker-httpd	Apache HTTPD Docker ext	0	[OK]
lizarion/httpd	httpd on centos with mo	0	[OK]

### 这里我们拉取官方的镜像

runoob@runoob:~/apache\$ docker pull httpd

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

runoob@runoob	:~/apache\$	docker images ht	tpd	
REPOSITORY	TAG	IMAGE ID	CREATED	SIZE
httpd	latest	da1536b4ef14	23 seconds ago	195.1 MB

### 方法二、通过 Dockerfile构建

### 创建Dockerfile

首先,创建目录apache,用于存放后面的相关东西。

runoob@runoob:~\$ mkdir -p ~/apache/www ~/apache/logs ~/apache/conf

### www目录将映射为apache容器配置的应用程序目录

logs目录将映射为apache容器的日志目录 conf目录里的配置文件将映射为apache容器的配置文件 进入创建的apache目录,创建Dockerfile

```
FROM debian: jessie
# add our user and group first to make sure their IDs get assigned consistently, regardless of whatever
dependencies get added
#RUN groupadd -r www-data && useradd -r --create-home -g www-data www-data
ENV HTTPD PREFIX /usr/local/apache2
ENV PATH $PATH:$HTTPD PREFIX/bin
RUN mkdir -p "$HTTPD_PREFIX" \
    && chown www-data:www-data "$HTTPD_PREFIX"
WORKDIR $HTTPD PREFIX
# install httpd runtime dependencies
# https://httpd.apache.org/docs/2.4/install.html#requirements
RUN apt-get update \
    && apt-get install -y --no-install-recommends \
        libapr1 \
        libaprutil1 \
        libaprutil1-ldap \
        libapr1-dev \
        libaprutil1-dev \
        libpcre++0 \
        libssl1.0.0 \
    && rm -r /var/lib/apt/lists/*
ENV HTTPD_VERSION 2.4.20
ENV HTTPD_BZ2_URL https://www.apache.org/dist/httpd/httpd-$HTTPD_VERSION.tar.bz2
RUN buildDeps=' \
        ca-certificates \
        curl \
        bzip2 \
        gcc \
        libpcre++-dev \
        libssl-dev \
        make \
    '\
    set -x \
    && apt-get update \
    && apt-get install -y --no-install-recommends $buildDeps \
    && rm -r /var/lib/apt/lists/* \
    && curl -fSL "$HTTPD_BZ2_URL" -o httpd.tar.bz2 \
```

```
&& curl -fSL "$HTTPD_BZ2_URL.asc" -o httpd.tar.bz2.asc \
# see https://httpd.apache.org/download.cgi#verify
    && export GNUPGHOME="$(mktemp -d)" \
    && gpg --keyserver ha.pool.sks-keyservers.net --recv-keys A93D62ECC3C8EA12DB220EC934EA76E6791485A8 \
    && gpg --batch --verify httpd.tar.bz2.asc httpd.tar.bz2 \
    && rm -r "$GNUPGHOME" httpd.tar.bz2.asc \
    && mkdir -p src \
    && tar -xvf httpd.tar.bz2 -C src --strip-components=1 \
    && rm httpd.tar.bz2 \
    && cd src \
    && ./configure \
       --prefix="$HTTPD_PREFIX" \
        --enable-mods-shared=reallyall \
    && make -j"$(nproc)" \
    && make install \
    && cd .. \
    && rm -r src \
    && sed -ri \
        -e 's!^(\s*CustomLog)\s+\S+!\1 /proc/self/fd/1!g' \
        -e 's!^(\s*ErrorLog)\s+\S+!\1 /proc/self/fd/2!g' \
        "$HTTPD_PREFIX/conf/httpd.conf" \
    && apt-get purge -y --auto-remove $buildDeps
COPY httpd-foreground /usr/local/bin/
EXPOSE 80
CMD ["httpd-foreground"]
```

Dockerfile文件中 COPY httpd-foreground /usr/local/bin/ 是将当前目录下的httpd-foreground拷贝到镜像里,作为httpd服务的启动脚本,所以我们要在本地创建一个脚本文件httpd-foreground

```
#!/bin/bash
set -e

# Apache gets grumpy about PID files pre-existing
rm -f /usr/local/apache2/logs/httpd.pid

exec httpd -DFOREGROUND
```

赋予httpd-foreground文件可执行权限

runoob@runoob:~/apache\$ chmod +x httpd-foreground

通过Dockerfile创建一个镜像,替换成你自己的名字

runoob@runoob:~/apache\$ docker build -t httpd .

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:~/apache\$ docker images httpd

REPOSITORY TAG IMAGE ID CREATED SIZE

httpd latest da1536b4ef14 23 seconds ago 195.1 MB

## 使用apache镜像

### 运行容器

docker run -p 80:80 -v \$PWD/www/:/usr/local/apache2/htdocs/ -v \$PWD/conf/httpd.conf:/usr/local/apache2/c
onf/httpd.conf -v \$PWD/logs/:/usr/local/apache2/logs/ -d httpd

### 命令说明:

- -p 80:80:将容器的80端口映射到主机的80端口
- -v \$PWD/www/:/usr/local/apache2/htdocs/:将主机中当前目录下的www目录挂载到容器的/usr/local/apache2/htdocs/
- -v \$PWD/conf/httpd.conf:/usr/local/apache2/conf/httpd.conf:将主机中当前目录下的conf/httpd.conf文件挂载到容器的/usr/local/apache2/conf/httpd.conf
- -v \$PWD/logs/:/usr/local/apache2/logs/:将主机中当前目录下的logs目录挂载到容器的/usr/local/apache2/logs/

### 查看容器启动情况

runoob@runoob:~/apache\$ docker ps

CONTAINER ID IMAGE COMMAND ... PORTS NAMES

79a97f2aac37 httpd "httpd-foreground" ... 0.0.0.0:80->80/tcp sharp\_swanson

#### 通过浏览器访问



It works! http://www.runoob.com/

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