◆ Docker 安装 Nginx

Docker 安装 PHP →

Docker 安装 MySQL

方法一、docker pull mysql

查找Docker Hub上的mysql镜像

runoob@runoob:/mysql\$		CTARC	OFFICIAL	41170444755
NAME	DESCRIPTION	STARS	OFFICIAL	AUTOMATED
nysql	MySQL is a widely used, open-source relati	2529	[OK]	
mysql/mysql-server	Optimized MySQL Server Docker images. Crea	161		[OK]
centurylink/mysql	Image containing mysql. Optimized to be li	45		[OK]
sameersbn/mysql		36		[OK]
google/mysql	MySQL server for Google Compute Engine	16		[OK]
appcontainers/mysql	Centos/Debian Based Customizable MySQL Con	8		[OK]
marvambass/mysql	MySQL Server based on Ubuntu 14.04	6		[OK]
drupaldocker/mysql	MySQL for Drupal	2		[OK]
azukiapp/mysql	Docker image to run MySQL by Azuki - http:	2		[OK]
• • •				

这里我们拉取官方的镜像,标签为5.6

runoob@runoob:~/mysql\$ docker pull mysql:5.6

等待下载完成后,我们就可以在本地镜像列表里查到REPOSITORY为mysql,标签为5.6的镜像。

runoob@runoob	:~/mysql\$ docker ima	ages grep mysql			
mysql	5.6	2c0964ec182a	3 weeks ago	329 MB	

方法二、通过 Dockerfile构建

创建Dockerfile

首先,创建目录mysql,用于存放后面的相关东西。

runoob@runoob:~\$ mkdir -p ~/mysql/data ~/mysql/logs ~/mysql/conf

data目录将映射为mysql容器配置的数据文件存放路径

logs目录将映射为mysql容器的日志目录

conf目录里的配置文件将映射为mysql容器的配置文件

进入创建的mysql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 mysql && useradd -r -g mysql mysql
# add gosu for easy step-down from root
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 -0 /usr/local/bin/gosu "https://github.com/tianon/gosu/releases/download/$GOSU_VERSION/gosu
-$(dpkg --print-architecture)" \
    && wget -0 /usr/local/bin/gosu.asc "https://github.com/tianon/gosu/releases/download/$GOSU_VERSION/g
osu-$(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
# FATAL ERROR: please install the following Perl modules before executing /usr/local/mysql/scripts/mysql
_install_db:
# File::Basename
# File::Copy
# Sys::Hostname
# Data::Dumper
RUN apt-get update && apt-get install -y perl pwgen --no-install-recommends && rm -rf /var/lib/apt/list
s/*
# gpg: key 5072E1F5: public key "MySQL Release Engineering <mysql-build@oss.oracle.com>" imported
RUN apt-key adv --keyserver ha.pool.sks-keyservers.net --recv-keys A4A9406876FCBD3C456770C88C718D3B5072E
1F5
ENV MYSQL_MAJOR 5.6
ENV MYSQL VERSION 5.6.31-1debian8
RUN echo "deb http://repo.mysql.com/apt/debian/ jessie mysql-${MYSQL_MAJOR}" > /etc/apt/sources.list.d/m
ysql.list
# the "/var/lib/mysql" stuff here is because the mysql-server postinst doesn't have an explicit way to d
isable the mysql_install_db codepath besides having a database already "configured" (ie, stuff in /var/l
ib/mysql/mysql)
# also, we set debconf keys to make APT a little quieter
```

```
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/list
s/* \
    && 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 mys
qld instance ends up having at runtime
    && chmod 777 /var/run/mysqld
# comment out a few problematic configuration values
# don't reverse lookup hostnames, they are usually another container
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; sy
stem("cat") }' /etc/mysql/my.cnf > /tmp/my.cnf \
    && mv /tmp/my.cnf /etc/mysql/my.cnf
VOLUME /var/lib/mysql
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 3306
CMD ["mysqld"]
```

通过Dockerfile创建一个镜像,替换成你自己的名字

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

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:~/mysql$ docker images |grep mysql
mysql 5.6 2c0964ec182a 3 weeks ago 329 MB
```

使用mysql镜像

运行容器

```
runoob@runoob:~/mysql$ docker run -p 3306:3306 --name mymysql -v $PWD/conf:/etc/mysql/conf.d -v $PWD/log
s:/logs -v $PWD/data:/var/lib/mysql -e MYSQL_ROOT_PASSWORD=123456 -d mysql:5.6
```

21cb89213c93d805c5bacf1028a0da7b5c5852761ba81327e6b99bb3ea89930e runoob@runoob:~/mysql\$

命令说明:

- -p 3306:3306:将容器的 3306 端口映射到主机的 3306 端口。
- -v -v \$PWD/conf:/etc/mysql/conf.d:将主机当前目录下的 conf/my.cnf 挂载到容器的 /etc/mysql/my.cnf。
- -v \$PWD/logs:/logs:将主机当前目录下的 logs 目录挂载到容器的 /logs。
- -v \$PWD/data:/var/lib/mysql: 将主机当前目录下的data目录挂载到容器的 /var/lib/mysql。
- -e MYSQL_ROOT_PASSWORD=123456:初始化 root 用户的密码。

查看容器启动情况

runoob@runoob:~/mysql\$ docker ps

CONTAINER ID IMAGE COMMAND ... PORTS NAMES

21cb89213c93 mysql:5.6 "docker-entrypoint.sh" ... 0.0.0.0:3306->3306/tcp mymysql

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Docker 安装 PHP →



2 篇笔记





最新官方MySQL(5.7.19)的docker镜像在创建时映射的配置文件目录有所不同,在此记录并分享给大家:

官方原文:

The MySQL startup configuration is specified in the file /etc/mysql/my.cnf, and that file in turn includes any files found in the /etc/mysql/conf.d directory that end with .cnf. Settings in files in this directory will augment and/or override settings in /etc/mysql/my.cnf. If you want to use a customized MySQL configuration, you can create your alternative configuration file in a directory on the host machine and then mount that directory location as /etc/mysql/conf.d inside the mysql container.

大概意思是说:

MySQL(5.7.19)的默认配置文件是 /etc/mysql/my.cnf 文件。如果想要自定义配置,建议向 /etc/mysql/conf.d 目录中创建 .cnf 文件。新建的文件可以任意起名,只要保证后缀名是 cnf 即可。新建的文件中的配置项可以覆盖 /etc/mysql/my.cnf 中的配置项。

具体操作:

首先需要创建将要映射到容器中的目录以及.cnf文件,然后再创建容器

```
# pwd
/opt

# mkdir -p docker_v/mysql/conf

# cd docker_v/mysql/conf

# touch my.cnf

# docker run -p 3306:3306 --name mysql -v /opt/docker_v/mysql/conf:/etc/mysql/conf.d -e M

YSQL_ROOT_PASSWORD=123456 -d imageID

4ec4f56455ea2d6d7251a05b7f308e314051fdad2c26bf3d0f27a9b0c0a71414
```

命令说明:

- 。 -p 3306:3306:将容器的3306端口映射到主机的3306端口
- 。 -v /opt/docker_v/mysql/conf:/etc/mysql/conf.d:将主机/opt/docker_v/mysql/conf目录挂载到容器的/etc/mysql/conf.d
- · -e MYSQL_ROOT_PASSWORD=123456: 初始化root用户的密码
- 。 -d: 后台运行容器 , 并返回容器ID
- 。 imageID: mysql镜像ID

查看容器运行情况

Brian 2年前(2017-09-08)



docker 安装 mysql 8 版本

```
# docker 中下载 mysql

docker pull mysql

#启动

docker run --name mysql -p 3306:3306 -e MYSQL_ROOT_PASSWORD=Lzslov123! -d mysql

#进入容器

docker exec -it mysql bash

#登录mysql

mysql -u root -p

ALTER USER 'root'@'localhost' IDENTIFIED BY 'Lzslov123!';

#添加远程登录用户

CREATE USER 'liaozesong'@'%' IDENTIFIED WITH mysql_native_password BY 'Lzslov123!';

GRANT ALL PRIVILEGES ON *.* TO 'liaozesong'@'%';
```

liaozesong 8个月前(07-30)