

# docker搭建简单的ctf题目

原创

置顶  于 2018-12-07 14:11:09 发布  9128  收藏 32

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[docker](#) 专栏收录该内容

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订阅专栏

## 0x01 docker常用命令

1. 拉取镜像。

```
docker pull [image]
```

2. 查看docker当前镜像。

```
docker image ls 或 docker images
```

3. 新建一个docker容器, 并映射端口号。

```
docker run -d -p [host port]:[docker port] [image]
```

4. 查看运行中的docker容器。

```
docker ps -a
```

5. 进入一个docker容器。

```
docker exec -it [container id] bash
```

6. 拷贝本地文件到docker。

```
docker cp [本地路径] [container id]:[container 路径]
```

```
root@VM-0-7-ubuntu:/var/www/html# docker cp /tmp/flag.txt 96630df2cbdf:/var/www/html/
root@VM-0-7-ubuntu:/var/www/html#
```

7.启动/停止一个docker容器。

```
docker stop [container id]
docker start [container id]
```

8.删除一个docker容器。

(注意：需要先把容器停止才可以删除。)

```
docker rm [container id]
```

9.删除一个docker镜像

(注意：在镜像对应的容器后才可以删除镜像ID。)

```
docker rmi [image id]
```

## 0x02 使用 docker 搭建一道简单的 ctf 题目

1.搜索lamp环境的docker镜像。

```
docker search lamp
```

```
root@VM-0-7-ubuntu:~# docker search lamp
NAME                DESCRIPTION                STARS    OFFICIAL    AUTOMATED
linode/lamp         LAMP on Ubuntu 14.04.1 LTS Container    159
tutum/lamp         Out-of-the-box LAMP image (PHP+MySQL)    108
greyltc/lamp       a super secure, up-to-date and lightweight L...    92    [OK]
mattrayner/lamp    A simple LAMP docker image running the prere...    56    [OK]
fauria/lamp        Modern, developer friendly LAMP stack. Inclu...    46    [OK]
janes/alpine-lamp  lamp base on alpine linux    36    [OK]
nickistre/ubuntu-lamp    LAMP server on Ubuntu    27    [OK]
nickistre/centos-lamp    LAMP on centos setup    24    [OK]
dgraziotin/lamp      11    [OK]
lioshi/lamp         Docker image for LAMP + MySql under debian    10    [OK]
nickistre/ubuntu-lamp-wordpress    LAMP on Ubuntu with wp-cli installed    9    [OK]
nickistre/ubuntu-lamp-xdebug    LAMP on Ubuntu with xdebug installed    4    [OK]
sminnee/silverstripe-lamp    Docker image for SilverStripe LAMP stack tha...    4
theodotos/ubuntu-lamp    A LAMP (Linux/Apache/MariaDB/PHP) image base...    3
gizra/drupal-lamp      A base LAMP docker file for drupal projects.    3    [OK]
nickistre/centos-lamp-wordpress    LAMP on CentOS setups with wp-cli installed    3    [OK]
shelleyma/lampp2      lampp from github    2    [OK]
lead4good/lamp-php    LAMP Stack PHP    1    [OK]
ready2order/lamp      LAMP    1
lead4good/lamp-mysql    LAMP-Stack MySQL    0    [OK]
thinkiq/lamp         ThinkIQ Lamp image    0    [OK]
davefx/trusty-lamp-selenium-headless    Ubuntu 14.04 system with configured LAMP ser...    0    [OK]
greyltc/lamp-aur      LAMP stack (in Arch with php7) with AUR acce...    0    [OK]
lampson0505/ubuntu-phy    An Ubuntu image with teamd for network inter...    0
gregnuj/cyclops-lamp  Cyclops LAMP server    0    [OK]
```

root@VM-0-7-ubuntu:~#

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2.拉取“tutum/lamp”镜像。

```
docker pull tutum/lamp
```

3.拉取完成以后，查看本地docker镜像。

```
docker images
```

```

root@VM-0-7-ubuntu:~# docker images
REPOSITORY          TAG                 IMAGE ID            CREATED             SIZE
ubuntu              14.04              f17b6a61de28      2 weeks ago       188MB
ubuntu              latest              ea4c82dcd15a      7 weeks ago       85.8MB
tutum/lamp           latest              3d49e175ec00      2 years ago       427MB
root@VM-0-7-ubuntu:~#

```

4.新建一个docker容器。

```

docker run -d -p 100:80 -p 3307:3306 tutum/lamp

```

-d //容器后台运行。  
-p //指定映射端口。

5.查看系统中运行的docker容器。

```

docker ps -a

```

```

root@VM-0-7-ubuntu:~# docker ps -a
CONTAINER ID   IMAGE          COMMAND                  CREATED        STATUS        PORTS                               NAMES
96630df2cbdf  tutum/lamp    "/run.sh"               3 hours ago   Up 3 hours   0.0.0.0:100->80/tcp, 0.0.0.0:3307->3306/tcp  jolly_elion
c8088a103675  ubuntu:14.04  "bash"                  2 days ago    Up 2 days                               kind_heisenberg
e9f614525ea9  ea4c          "/bin/bash"             3 weeks ago   Up 3 weeks                               vibrant_chaplygin
root@VM-0-7-ubuntu:~#

```

6.使用浏览器访问一下主页，查看映射是否正常。




Hello world!

MySQL Server version: 5.5.47-0ubuntu0.14.04.1

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7.将ctf题目源码拷贝到container的主目录中。

```

docker cp sql11/ 96630df2cbdf:/var/www/html/

```

```

root@VM-0-7-ubuntu:/var/www/html/test# docker cp sql11/ 96630df2cbdf:/var/www/html/
root@VM-0-7-ubuntu:/var/www/html/test#

```

8.进入docker container。

```
docker exec -it 96630df2cbdf bash
```

```
-i //让容器的标准输入保持打开。
```

```
-t //让docker分配一个伪终端并绑定到容器的标准输出上。
```

```
root@VM-0-7-ubuntu:/var/www/html# docker exec -it 96630df2cbdf bash
root@96630df2cbdf:/#
```

9.进入容器中的数据库，创建好ctf题目需要的数据库、数据表等等。

(数据库密码为空)

```
root@96630df2cbdf:/# mysql -uroot -p
Enter password:
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 2506
Server version: 5.5.47-0ubuntu0.14.04.1 (Ubuntu)

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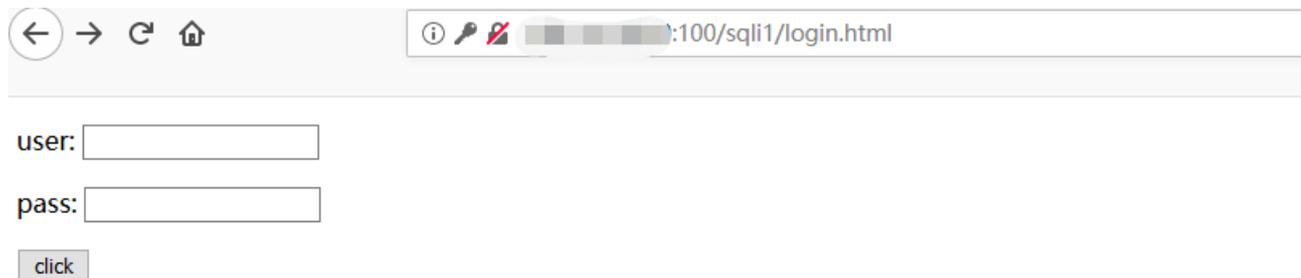
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owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql>
```

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10.到这里，这个ctf题目就搭建好了，我们访问一下。

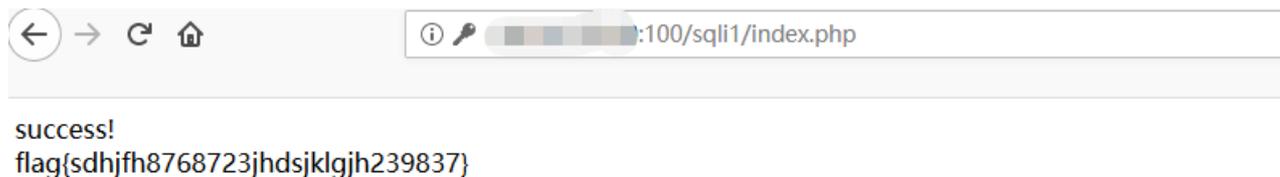


user:

pass:

click

11.构造万能密码。成功得到flag。



success!

flag{sdhjfh8768723jhdsjklgjh239837}