

Docker Container

Docker Container

0x00

Docker | namespace | Docker | Container | docker run --link | docker-compose | docker image | CTF | Image |

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- upstart

```
# Dockerfile
From ubuntu:14.04
RUN apt-get update && apt-get upgrade -y && apt-get install mysql apache2 php7.0
ADD web /var/www/html
RUN service mysql start && /var/www/html/init_sql.sh && service mysql stop
CMD service mysql start && service apache2 start && while true; do sleep 10;done
```

- systemd

```
# Dockerfile
From ubuntu:16.04
RUN apt-get update && apt-get upgrade -y && apt-get install mysql apache2 php7.0
ADD web /var/www/html
RUN systemctl start mysql && /var/www/html/init_sql.sh && systemctl stop mysql
CMD systemctl start mysql && systemctl start apache2 && while true; do sleep 10;done
```

```
# Dockerfile
From ubuntu:16.04
RUN apt-get update && apt-get upgrade -y && apt-get install mysql apache2 php7.0
ADD web /var/www/html
ADD entrypoint.sh /sbin/
RUN chmod +x /sbin/entrypoint.sh /var/www/html/init_sql.sh&&
    /etc/init.d/mysql start && /var/www/html/init_sql.sh && /etc/init.d/mysql stop
```

```
CMD /sbin/entrypoint.sh
```

```
#!/bin/bash

# entrypoint.sh
/usr/bin/mysqld start &
/usr/bin/httpd &
while true
do
sleep 100
done
```

1 2 container 3

SIGTERM

1 2 docker service xxx start systemctl start xxx upstart
container init 3 init PID=1

```
root@vpscn: /var/lib/docker# docker exec -it hackmd sh
/hackmd # ps -ef
PID   USER     TIME   COMMAND
    1  hackmd   1:03   node app.js
   42  hackmd   0:00   /usr/local/bin/node ./lib/workers/dmpWorker.js
   62  root     0:00   sh
   69  root     0:00   ps -ef
```

3 container --init tini init

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phusion/baseimage SUCTF2018 0.10.1 ubuntu 16.04 a
Container Entrypoint runit WebIDE SUCTF2018 Web Terminal SUCTF2018 NUAACTF/SUCTF
xinetd

SUCTF2018 Dockerfile

```
#Dockerfile
FROM phusion/baseimage:0.10.1
MAINTAINER Yibai Zhang
```

```

RUN sed -i 's/archive.ubuntu.com/mirrors.aliyun.com/g' /etc/apt/sources.list &&
    sed -i 's/security.ubuntu.com/mirrors.aliyun.com/g' /etc/apt/sources.list &&
    apt-get update && apt-get install -y apache2 libapache2-mod-php php-mysql mariadb-server
&&
    apt-get clean && rm -rf /var/lib/apt/lists/* /tmp/* /var/tmp/* /var/www/html/*

RUN mkdir -p /etc/service/apache2/ &&
    printf "#! /bin/sh\ntrap \"apachectl -k graceful-stop\" 1 2 3 6 15\nexec /usr/sbin/apachectl\n-D FOREGROUNDn\" > /etc/service/apache2/run &&
    chmod +x /etc/service/apache2/run && mkdir -p /etc/service/mysql/ &&
    printf "#! /bin/sh\ntrap \"mysqladmin -uroot -psuCTF_Plus_1s shutdown\" 1 2 3 6 15\nexec\n/usr/bin/mysqld_safe\" > /etc/service/mysql/run &&
    mkdir -p /var/run/mysqld/ && chown mysql:mysql /var/run/mysqld &&
    chmod 700 /etc/service/mysql/run /etc/service/apache2/run

COPY web /var/www/html
COPY flag /flag
RUN echo \"secure-file-priv=/var/www/\" >>/etc/mysql/mariadb.conf.d/50-server.cnf && chmod -R
777 /var/www/html/favicon
COPY init_sql.sh /tmp/init_sql.sh
RUN chmod +x /tmp/init_sql.sh && bash -c \"/tmp/init_sql.sh\" && rm /tmp/init_sql.sh
EXPOSE 80

```

```

#!/usr/bin/env bash
#init_sql.sh

mysqld_safe &
echo -n \"Waiting for mysql startup\"
while ! mysqladmin --host=\"localhost\" --silent ping ; do
    echo -n \".\"
    sleep 1
done
echo

mysql -uroot <<EOF
UPDATE mysql.user SET Password=PASSWORD('XXXXXX'), plugin = '' WHERE User='root';
create database calc;
use calc;
create table user(
id INT NOT NULL AUTO_INCREMENT primary key,

```

