

Cheat-Sheet: debian + docker + portainer → LAMP → SSL/TLS



Dockerfile-php

```
FROM php:apache-bullseye
LABEL maintainer="ricardofc <ricardofc.sistemas@gmail.com>"

##Apache2
RUN apt-get update \
  && apt-get -y install ssl-cert && make-ssl-cert generate-default-snakeoil \
  && a2dissite 000-default \
  && a2ensite default-ssl \
  && a2enmod ssl \
  && rm -rf /var/lib/apr/lists/*

##Packages
RUN apt-get update \
  && apt-get -y install vim iputils-ping iproute2 netcat \
  && rm -rf /var/lib/apr/lists/*

#Scripts
ENTRYPOINT apache2ctl -D FOREGROUND
```

Dockerfile-phpmyadmin

```
FROM phpmyadmin
LABEL maintainer="ricardofc <ricardofc.sistemas@gmail.com>"

##Apache2
RUN apt-get update \
  && apt-get -y install ssl-cert && make-ssl-cert generate-default-snakeoil \
  && a2dissite 000-default \
  && a2ensite default-ssl \
  && a2enmod ssl \
  && rm -rf /var/lib/apr/lists/*

##Packages
RUN apt-get update \
  && apt-get -y install vim iputils-ping iproute2 netcat \
  && rm -rf /var/lib/apr/lists/*
```

version: "3.1"

services:

#https://hub.docker.com/r/portainer/portainer-ce

PORTAINER:

image: portainer/portainer-ce:linux-amd64

container_name: PORTAINER

restart: always

security_opt:

- no-new-privileges:true

ports:

- "9443:9443"

volumes:

- /etc/localtime:/etc/localtime:ro

- /var/run/docker.sock:/var/run/docker.sock:ro

- portainer_data:/data

#https://hub.docker.com/_/mysql

dbLAMP:

image: mysql

container_name: dbLAMP

command: --default-authentication-plugin=mysql_native_password

restart: always

environment:

MYSQL_DATABASE: "lamp"

MYSQL_ROOT_PASSWORD: "abc123."

volumes:

- db:/docker-entrypoint-initdb.d

- /conf:/etc/mysql/conf.d

- lib_data:/var/lib/mysql

#https://hub.docker.com/_/php

weblamp:

build:

context:

dockerfile: Dockerfile-php

container_name: weblAMP

restart: always

ports:

- "8081:443"

volumes:

- /web:/var/www/html

links:

- dbLAMP

#https://hub.docker.com/_/phpmyadmin

phpmyadminlamp:

build:

context:

dockerfile: Dockerfile-phpmyadmin

container_name: phpmyadminLAMP

restart: always

ports:

- "8082:443"

environment:

PMA_HOST: dbLAMP

volumes:

lib_data:

portainer_data:

docker-compose.yml -->

docker-compose up

docker-compose down

docker-compose-lamp-example3.yml

docker-compose -f docker-compose-lamp-example3.yml up

docker-compose -f docker-compose-lamp-example3.yml down

PORTAINER

9443

8081

8082

443

443

3306

webLAMP

phpmyadminLAMP

dbLAMP

mysql

FRONTEND

https://localhost:9443 → PORTAINER → portainer/portainer-ce

https://localhost:8081 → webLAMP → php:apache-bullseye

https://localhost:8082 → phpmyadminLAMP → phpmyadmin

BACKEND

dbLAMP → mysql

Imaxes locals

docker image ls mysql:latest

REPOSITORY TAG IMAGE ID CREATED SIZE

mysql latest 826ef084393b 2 days ago 521MB

docker image ls docker-example-lamp_weblamp

REPOSITORY TAG IMAGE ID CREATED SIZE

docker-example-lamp_weblamp latest fa59845553e1 20 hours ago 502MB

docker image ls docker-example-lamp_phpmyadminlamp

REPOSITORY TAG IMAGE ID CREATED SIZE

docker-example-lamp_phpmyadminlamp latest 9c8a4e33b401 20 hours ago 551MB

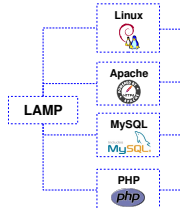
docker image ls portainer/portainer-ce

REPOSITORY TAG IMAGE ID CREATED SIZE

portainer/portainer-ce linux-amd64 ed396c816a75 7 weeks ago 280MB



debian + docker + portainer



docker-compose.yml -->

```
# docker-compose up
# docker-compose down
```

docker-compose-lamp-example3.yml

```
# docker-compose -f docker-compose-lamp-example3.yml up
# docker-compose -f docker-compose-lamp-example3.yml down
```

portainer.io

Container list

Containers

Search...

Name	State	Filter	Quick Actions	Stack	Image	Created	IP Address	Published Ports	Ownership
weblAMP	running				docker-example-lamp_weblamp	2022-04-08 18:45:18	172.25.0.5	8081:443	administrators
dbLAMP	running				docker-example-lamp_mysql	2022-04-08 18:45:17	172.25.0.2	-	administrators
phpmyadminLAMP	running				docker-example-lamp_phpmyadminlamp	2022-04-08 18:45:17	172.25.0.3	8082:443	administrators
PORTAINER	running				portainer/portainer-ce:linux-amd64	2022-04-08 18:45:17	172.25.0.4	9000:9000	administrators

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