# Cheat-Sheet: debian + docker + portainer → LAMP

**Debian   Docker   Cheat_Sheet_Docker   gist_docker_code_examples   Portainer**

**Apache   MySQL   PHP**



**debian + docker + portainer**

**LAMP**
- Linux
- Apache
- MySQL
- PHP
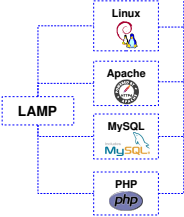
**docker-compose.yml**

```
# docker-compose up
```

```
# docker-compose down
```

```yaml
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:
      - "9000:9000"
    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:
    image: php:apache-bullseye
    container_name: webLAMP
    restart: always
    ports:
      - "8081:80"
    volumes:
      - ./web:/var/www/html
    links:
      - dbLAMP

  #https://hub.docker.com/_/phpmyadmin
  phpmyadminLAMP:
    image: phpmyadmin
    container_name: phpmyadminLAMP
    restart: always
    ports:
      - "8082:80"
    environment:
      PMA_HOST: dbLAMP

volumes:
  lib_data:
  portainer_data:
```
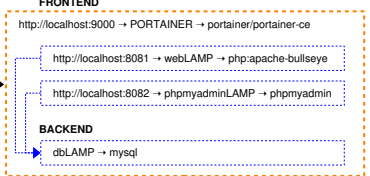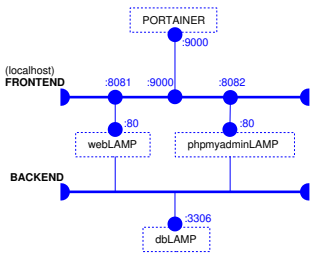
**docker-compose-lamp-example2.yml**

```
# docker-compose -f docker-compose-lamp-example2.yml up
```

```
# docker-compose -f docker-compose-lamp-example2.yml down
```



```
PORTAINER
                :9000
(localhost)
FRONTEND   :8081  :9000      :8082

           :80              :80
        webLAMP          phpmyadminLAMP

BACKEND

                   :3306
                 dbLAMP
```

**FRONTEND**

http://localhost:9000 → PORTAINER → portainer/portainer-ce

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

http://localhost:8082 → phpmyadminLAMP → phpmyadmin

**BACKEND**

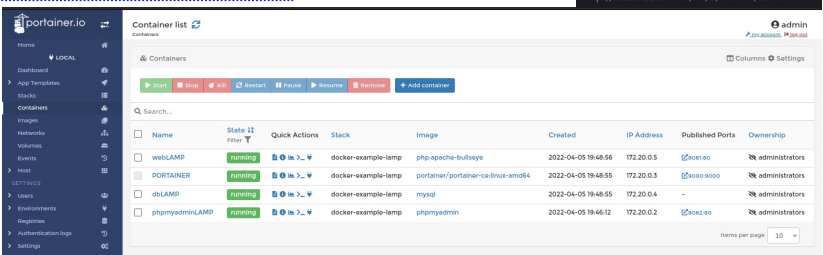- dbLAMP → mysql

**Imaxes locais**

```
# docker image ls mysql:latest
REPOSITORY TAG IMAGE ID CREATED SIZE
mysql latest 826efd84393b 2 days ago 521MB

# docker image ls php:apache-bullseye
REPOSITORY TAG IMAGE ID CREATED SIZE
php apache-bullseye f414fe2d15cb 8 days ago 458MB

# docker image ls phpmyadmin:latest
REPOSITORY TAG IMAGE ID CREATED SIZE
phpmyadmin latest 7fa7f0c99741 8 days ago 508MB

# docker image ls portainer/portainer-ce
REPOSITORY TAG IMAGE ID CREATED SIZE
portainer/portainer-ce linux-amd64 ed396c816a75 7 weeks ago 280MB
```

http://localhost:9000/#!/2/docker/containers



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