

# Docker

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# Commandes

## Afficher l'ensemble des conteneurs

```
docker ps -a
```

## Lancer tous les conteneurs

```
docker-compose up -d
```

## Mettre à jour les conteneurs

```
docker-compose pull
```

## Nettoyer les conteneurs

```
docker system prune -a
```

## Shell dans un conteneur

```
docker exec -it <ID du conteneur> bash
```

## Stopper un conteneur

```
docker stop <ID conteneur>
```

## Supprimer un conteneur

```
docker rm <ID conteneur>
```

# Version des conteneurs

Pour utiliser la dernière version : latest

Version	1
Fonctionnalité	1.2
Correctif de sécurité / Patch	1.2.3

# Installer docker & docker-compose

## Etape 1 : Les dépendances

```
apt install apt-transport-https ca-certificates gnupg2 software-properties-common
```

## Etape 2 : Ajouter docker dans le repository

```
curl -fsSL https://download.docker.com/linux/debian/gpg | sudo gpg --dearmor -o /usr/share/keyrings/docker-archive-keyring.gpg  
echo "deb [arch=amd64 signed-by=/usr/share/keyrings/docker-archive-keyring.gpg]  
https://download.docker.com/linux/debian $(lsb_release -cs) stable" | sudo tee /etc/apt/sources.list.d/docker.list
```

## Etape 3 : Mise à jour des paquets

```
apt update
```

## Etape 4 : Installer Docker

```
apt install docker-ce
```

## Etape 5 : Test

```
systemctl status docker
```

```
root@vm-web:~# systemctl status docker
```

● docker.service - Docker Application Container Engine

Loaded: loaded (/lib/systemd/system/docker.service; enabled; preset: enabled)

Active: active (running) since Sun 2023-12-10 19:27:20 CET; 33s ago

TriggeredBy: ● docker.socket

Docs: <https://docs.docker.com>

Main PID: 8610 (dockerd)

Tasks: 9

Memory: 29.8M

CPU: 394ms

```
CGroup: /system.slice/docker.service
```

```
└─8610 /usr/bin/dockerd -H fd:// --containerd=/run/containerd/containerd.sock
```

```
déc. 10 19:27:20 vm-web systemd[1]: Starting docker.service - Docker Application Container Engine...
```

```
déc. 10 19:27:20 vm-web dockerd[8610]: time="2023-12-10T19:27:20.284944139+01:00" level=info  
msg="Starting up"
```

```
déc. 10 19:27:20 vm-web dockerd[8610]: time="2023-12-10T19:27:20.430101570+01:00" level=info  
msg="Loading containers: start."
```

```
déc. 10 19:27:20 vm-web dockerd[8610]: time="2023-12-10T19:27:20.769213106+01:00" level=info  
msg="Loading containers: done."
```

```
déc. 10 19:27:20 vm-web dockerd[8610]: time="2023-12-10T19:27:20.789324414+01:00" level=info  
msg="Docker daemon" commit=311b9ff graphdriver=overlay2 version=24.0.7
```

```
déc. 10 19:27:20 vm-web dockerd[8610]: time="2023-12-10T19:27:20.789479443+01:00" level=info  
msg="Daemon has completed initialization"
```

```
déc. 10 19:27:20 vm-web dockerd[8610]: time="2023-12-10T19:27:20.830725349+01:00" level=info msg="API  
listen on /run/docker.sock"
```

```
déc. 10 19:27:20 vm-web systemd[1]: Started docker.service - Docker Application Container Engine.
```

## Etape 6 : Installer docker-compose

```
apt-get install docker-compose
```

# PhpMyAdmin

```
version: '3'
```

```
services:
```

```
  phpmyadmin:
```

```
    image: phpmyadmin:latest
```

```
    container_name: phpmyadmin
```

```
    restart: always
```

```
    ports:
```

```
      - 8080:80
```

## Avec Traefik :

```
version: '3'
```

```
services:
```

```
  phpmyadmin:
```

```
    image: phpmyadmin:latest
```

```
    container_name: phpmyadmin
```

```
    restart: always
```

```
    networks:
```

```
      - traefik
```

```
    labels:
```

```
      - "traefik.enable=true"
```

```
      - "traefik.http.routers.phpmyadmin.rule=Host(`ndd.fr`)"
```

```
      - "traefik.http.routers.phpmyadmin.entrypoints=web"
```

```
networks:
```

```
  traefik:
```

```
    external: true
```

# MariaDB

```
version: '3'

services:

  db:
    image: mariadb:latest
    container_name: MariaDB
    volumes:
      - db_data:/var/lib/mysql
    restart: unless-stopped
    environment:
      MARIADB_ROOT_PASSWORD: tbeFo80uV!rGN9lsA

volumes:
  db_data:
```

## Avec Traefik

```
version: '3'

services:

  db:
    image: mariadb:11
    container_name: MariaDB
    volumes:
      - db_data:/var/lib/mysql
    restart: unless-stopped
    networks:
      - traefik
    environment:
      MARIADB_ROOT_PASSWORD: tbeFo80uV!rGN9lsA

volumes:
  db_data:
```

```
networks:
  traefik:
    external: true
```



# Bookstack

```
version: '3'

services:

  bookstack:
    image: ghcr.io/linuxserver/bookstack:latest
    volumes:
      - bookstack:/config
    ports:
      - "8001:80"
    restart: unless-stopped
    environment:
      DB_USER: bookstack
      DB_PASS: RD4!JelP4grTqVGjr
      DB_DATABASE: bookstack
      DB_HOST: db:3306
      APP_URL: http://192.168.1.12:8001
    depends_on:
      - db

volumes:
  bookstack:
```

## Avec Traefik

```
version: '3'

services:

  bookstack:
    image: ghcr.io/linuxserver/bookstack:latest
    container_name: bookstack
    restart: unless-stopped
```

```
networks:
  - traefik
environment:
  DB_USER: bookstack
  DB_PASS: RD4!JelP4grTqVGjr
  DB_DATABASE: bookstackapp
  DB_HOST: db:3306
  APP_URL: http://ndd.fr
volumes:
  - bookstack:/config
labels:
  - "traefik.enable=true"
  - "traefik.http.routers.bookstack.rule=Host(`ndd.fr`)"
  - "traefik.http.routers.bookstack.entrypoints=web"
depends_on:
  - db

volumes:
  bookstack:

networks:
  traefik:
    external: true
```

## Activation MAIL()

Ajouter les variables suivantes dans le fichier docker-compose.yaml

```
MAIL_HOST: smtp.**.fr
MAIL_USERNAME: **@orange.fr
MAIL_PASSWORD: ***
MAIL_PORT: 25
MAIL_FROM: admin@bookstack.fr
MAIL_FROM_NAME: notification
```

# Traefik

```
docker network create traefik
```

```
version: '3'
```

```
services:
```

```
traefik:
```

```
image: traefik:2.11
```

```
container_name: traefik
```

```
restart: unless-stopped
```

```
command:
```

- "--log.level=DEBUG"
- "--api.insecure=true"
- "--providers.docker=true"
- "--providers.docker.exposedbydefault=false"
- "--entrypoints.web.address=:80"
- "--entrypoints.web-secure.address=:443"

```
networks:
```

- traefik

```
ports:
```

- "80:80"
- "443:443"
- "8080:8080"

```
volumes:
```

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

```
networks:
```

```
traefik:
```

```
external: true
```

# Wordpress

version: '3'

services:

db:

image: mariadb:latest

volumes:

- db\_data:/var/lib/mysql

restart: unless-stopped

environment:

MARIADB\_ROOT\_PASSWORD: tbeFo80uVrGN9IsA

MARIADB\_DATABASE: wordpress

MARIADB\_USER: wordpress

MARIADB\_PASSWORD: 6y9SeZr9MnJmWW7N

wordpress:

image: wordpress:latest

volumes:

- wordpress:/var/www/html

ports:

- "8000:80"

restart: unless-stopped

environment:

WORDPRESS\_DB\_HOST: db:3306

WORDPRESS\_DB\_USER: wordpress

WORDPRESS\_DB\_PASSWORD: 6y9SeZr9MnJmWW7N

WORDPRESS\_DB\_NAME: wordpress

depends\_on:

- db

volumes:

db\_data:

wordpress:

## Avec Traefik

version: '3'

services:

db:

image: mariadb:latest

volumes:

- db\_data:/var/lib/mysql

restart: unless-stopped

networks:

- traefik

environment:

MARIADB\_ROOT\_PASSWORD: tbeFo80uVrGN9IsA

MARIADB\_DATABASE: wordpress

MARIADB\_USER: wordpress

MARIADB\_PASSWORD: 6y9SeZr9MnJmWW7N

wordpress:

image: wordpress:latest

container\_name: wordpress

volumes:

- wordpress:/var/www/html

networks:

- traefik

restart: unless-stopped

environment:

WORDPRESS\_DB\_HOST: db:3306

WORDPRESS\_DB\_USER: wordpress

WORDPRESS\_DB\_PASSWORD: 6y9SeZr9MnJmWW7N

WORDPRESS\_DB\_NAME: wordpress

labels:

- "traefik.enable=true"
- "traefik.http.routers.wordpress.rule=Host(`ndd.fr`)"
- "traefik.http.routers.wordpress.entrypoints=web"

depends\_on:

- db

volumes:

db\_data:

wordpress:

networks:

traefik:

external: true

# Adminer

version: '3'

services:

adminer:

image: adminer:latest

restart: always

ports:

- 8080:80