



Docker

Laravel



MySQL

Redis

Docker Docker Compose

Redis

Laravel

Web

GitHub DockerHub

webhook

webhook

GitHub

DockerHub

1.

Requirements

- Docker (≥ 20.10)
- Docker Compose (≥ 2.0)
- Git

2.

```

laravel-cluster/
├── docker/
│   ├── nginx/
│   │   ├── Dockerfile
│   │   └── default.conf
│   └── php/
│       └── Dockerfile
├── haproxy/
│   └── haproxy.cfg
├── src/ (Laravel )
├── docker-compose.yml
└── .env

```

3. Docker

docker-compose.yml

```
version: '3.8'

services:
  # MySQL
  mysql:
    image: mysql:8.0
    container_name: mysql
    environment:
      MYSQL_ROOT_PASSWORD: ${DB_ROOT_PASSWORD}
      MYSQL_DATABASE: ${DB_DATABASE}
      MYSQL_USER: ${DB_USERNAME}
      MYSQL_PASSWORD: ${DB_PASSWORD}
    volumes:
      - mysql_data:/var/lib/mysql
    networks:
      - laravel-network

  # Redis
  redis:
    image: redis:alpine
    container_name: redis
    ports:
      - "6379:6379"
    networks:
      - laravel-network

  # PHP-FPM ( )
  php1:
    build:
      context: ./docker/php
    container_name: php1
    volumes:
      - ./src:/var/www/html
```

```
environment:
  - DB_HOST=mysql
  - REDIS_HOST=redis
```

```
networks:
  - laravel-network
```

```
depends_on:
  - mysql
  - redis
```

```
php2:
```

```
build:
  context: ./docker/php
```

```
container_name: php2
```

```
volumes:
  - ./src:/var/www/html
```

```
environment:
  - DB_HOST=mysql
  - REDIS_HOST=redis
```

```
networks:
  - laravel-network
```

```
depends_on:
  - mysql
  - redis
```

```
# Nginx Web ( )
```

```
nginx1:
```

```
build:
  context: ./docker/nginx
```

```
container_name: nginx1
```

```
ports:
  - "8081:80"
```

```
volumes:
  - ./src:/var/www/html
```

```
depends_on:
  - php1
```

```
networks:
  - laravel-network
```

```
nginx2:
```

```
build:
  context: ./docker/nginx
container_name: nginx2
ports:
  - "8082:80"
volumes:
  - ./src:/var/www/html
depends_on:
  - php2
networks:
  - laravel-network

# HAProxy [ ] [ ] [ ]
haproxy:
  image: haproxy:2.4
  container_name: haproxy
  ports:
    - "80:80"
    - "8404:8404" # [ ] [ ] [ ]
  volumes:
    - ./docker/haproxy/haproxy.cfg:/usr/local/etc/haproxy/haproxy.cfg
  depends_on:
    - nginx1
    - nginx2
  networks:
    - laravel-network

volumes:
  mysql_data:

networks:
  laravel-network:
    driver: bridge
```

docker/php/Dockerfile

```
FROM php:8.1-fpm
```



```
fastcgi_param SCRIPT_FILENAME $document_root$fastcgi_script_name;
fastcgi_param PATH_INFO $fastcgi_path_info;
}
}
```

docker/haproxy/haproxy.cfg

```
global
    stats socket /var/run/api.sock user haproxy group haproxy mode 660 level admin expose-fd listeners
    log stdout format raw local0 info

defaults
    mode http
    timeout connect 5000ms
    timeout client 50000ms
    timeout server 50000ms

frontend http_front
    bind *:80
    stats uri /stats
    default_backend http_back

backend http_back
    balance roundrobin
    server nginx1 nginx1:80 check
    server nginx2 nginx2:80 check

listen stats
    bind *:8404
    stats enable
    stats uri /
    stats refresh 5s
```

4.

1.  [Laravel](#)  [src](#) 

```
git clone https://github.com/laravel/laravel.git src
```

2. `cp` `.env` `cp`

```
cp src/.env.example src/.env
```

3. `src/.env` `DB_CONNECTION` `DB_HOST` `DB_PORT` `DB_DATABASE` `DB_USERNAME` `DB_PASSWORD`

```
DB_CONNECTION=mysql
DB_HOST=mysql
DB_PORT=3306
DB_DATABASE=laravel
DB_USERNAME=laravel
DB_PASSWORD=secret
```

4. `cat` `.env` `DB_ROOT_PASSWORD` `DB_DATABASE` `DB_USERNAME` `DB_PASSWORD` `EOF`

```
cat > .env <<EOF
DB_ROOT_PASSWORD=root
DB_DATABASE=laravel
DB_USERNAME=laravel
DB_PASSWORD=secret
EOF
```

5. `docker-compose up`

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

6. `Laravel` `composer install`

```
docker-compose exec php1 composer install
```

7. `php artisan key:generate`

```
docker-compose exec php1 php artisan key:generate
```

8. `php artisan migrate`

```
docker-compose exec php1 php artisan migrate
```

5. `http://localhost`

- `http://localhost`

- HAProxy : http://localhost:8404/stats

6.

PHP Nginx

1. `docker-compose.yml` `php3` `nginx3`
2. HAProxy
3.

```
docker-compose up -d --scale php=3 --scale nginx=3
```

7.

-

```
docker-compose logs -f
```

-

```
docker-compose exec php1 bash
```

-

```
docker-compose down
```

Laravel

worker Horizon

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