

Containerizing application using Docker Stack

1 Create new directory and set as PWD

```
$ mkdir wordpress-stack &&  
cd wordpress-stack
```

2 Create YAML for MySQL & Wordpress

```
$ nano docker-compose.yml  
  
version: '3.3'  
  
services:  
  db:  
    image: mysql:5.7  
    environment:  
      MYSQL_ROOT_PASSWORD: somewordpress  
      MYSQL_DATABASE: wordpress  
      MYSQL_USER: wordpress  
      MYSQL_PASSWORD: wordpress  
    volumes:  
      - db_data:/var/lib/mysql  
    deploy:  
      mode: global  
  networks:  
    WP-stack:
```

Continued...



Resume

```
wordpress:
  depends_on:
    - db
  image: wordpress:latest
  environment:
    WORDPRESS_DB_HOST: db:3306
    WORDPRESS_DB_USER: wordpress
    WORDPRESS_DB_PASSWORD: wordpress
    WORDPRESS_DB_NAME: wordpress
  ports:
    - "8000:80"
  deploy:
    mode: global
  networks:
    WP-stack:

volumes:
  db_data: {}

networks:
  WP-stack:
    driver: overlay
```



3 Deploy a stack of services

```
$ docker stack deploy --compose-file  
docker-compose.yaml wordpress-mysql
```

4 List out available stacks

```
$ docker stack ls
```

5 List out services available in stack

```
$ docker stack services wordpress-mysql
```

6 List out tasks created under this stack

```
$ docker stack ps wordpress-mysql
```

7 Inspect the database service

```
$ docker service inspect wordpress-  
mysql_db
```



8

Get the logs of wordpress service

```
$ docker service logs wordpress-  
mysql_wordpress
```

9

Delete the stack

```
$ docker stack rm wordpress-mysql
```

10

List out volumes

```
$ docker volume ls
```

