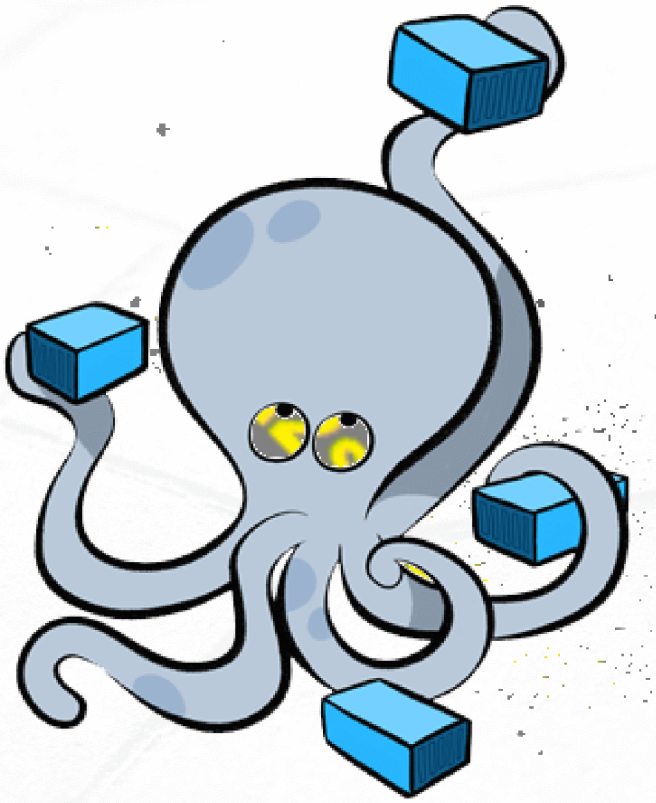
Docker Compose



```
php:
  build: php
  ports:
    - "80:80"
    - "443:443"
  volumes:
    - ./php/www:/var/www/html
  links:
    - db
```

```
$ docker-compose up
```

Install Docker Compose

- you'll need to install Docker first.

- `$ curl -L "https://github.com/docker/compose/releases/download/1.11.2/docker-compose-$(uname -s)-$(uname -m)" -o /usr/local/bin/docker-compose`

- `$ chmod +x /usr/local/bin/docker-compose`
- `$ docker-compose --version`

Define the project

1) Create an empty project directory.

#mkdir wordpress

#cd wordpress

#vi docker-compose.yml

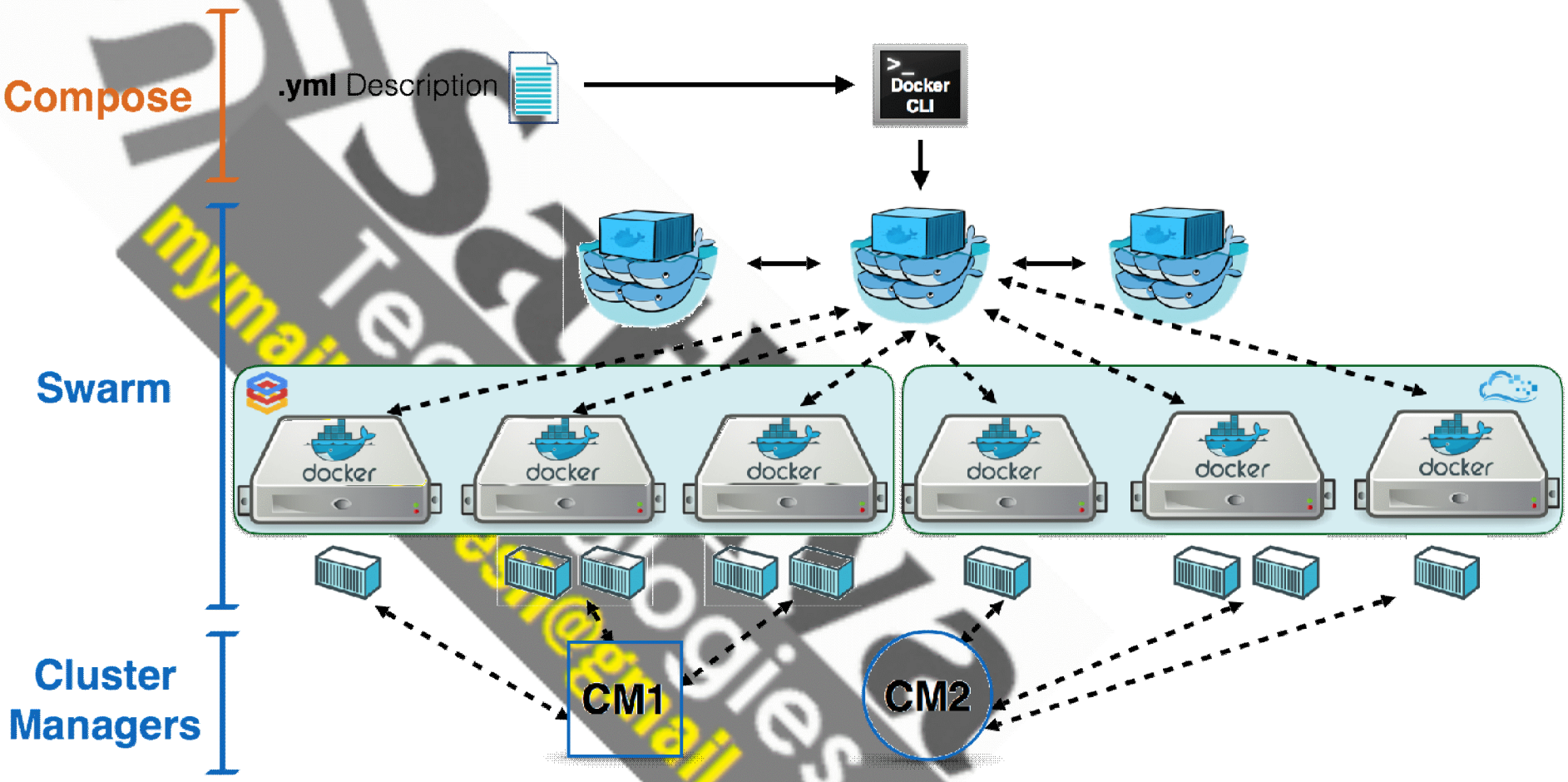
2) Build the project

$ docker-compose up –d

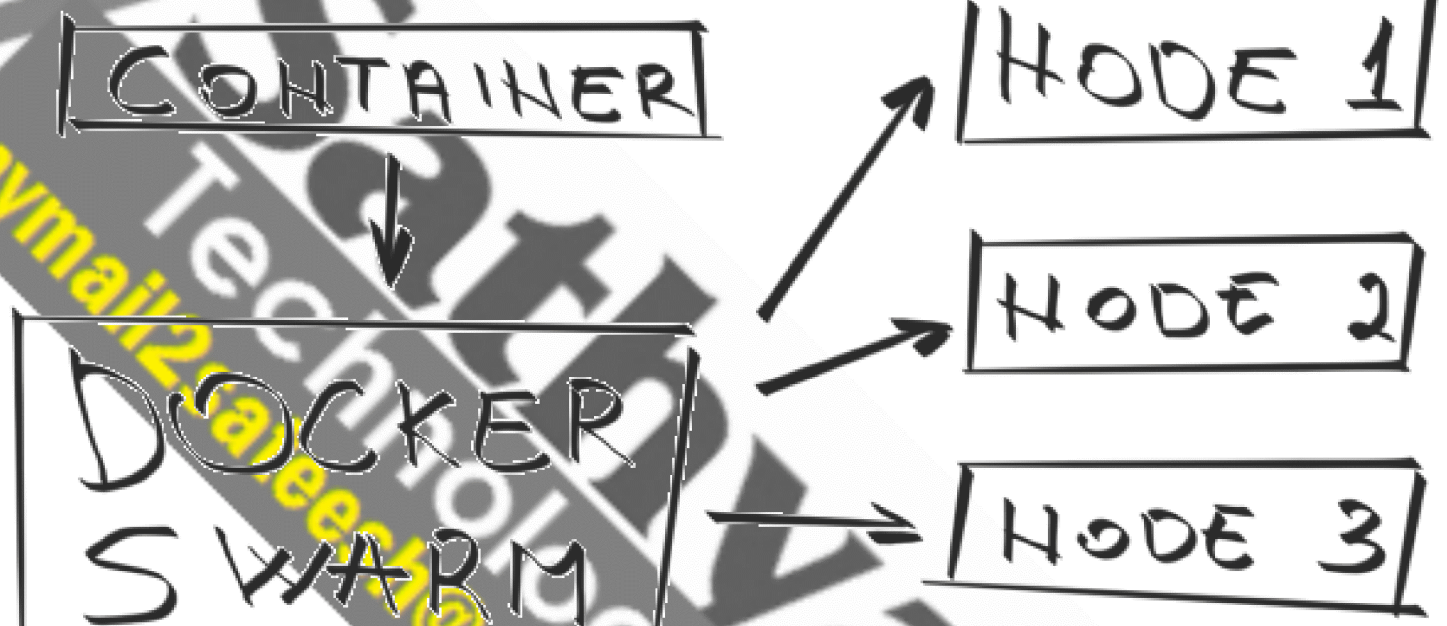
3) Open browser : https:\\ip:8000

```
version: '2'
services:
  db:
    image: mysql:5.7
    volumes:
      - db_data:/var/lib/mysql
    restart: always
    environment:
      MYSQL_ROOT_PASSWORD: wordpress
      MYSQL_DATABASE: wordpress
      MYSQL_USER: wordpress
      MYSQL_PASSWORD: wordpress
  wordpress:
    depends_on:
      - db
    image: wordpress:latest
    ports:
      - "8000:80"
    restart: always
    environment:
      WORDPRESS_DB_HOST: db:3306
      WORDPRESS_DB_PASSWORD: wordpress
volumes:
   db_data:
```

Docker Swarm



Docker Swarm



curl -fsfl https://test.docker.com | sh

```
mgr# docker swarm init  --listen-addr 10.128.0.4:2377
mgr# docker swarm join-token manager
mgr# docker node list

nd1# docker swarm join \ --token SWMTKN-1-
   030ofl3to3lkylc0g04yitzjca9rbo3fmz6put4lsjm7ytkzb9-
   6djd19g0nitbl1q8bz3xlkm36 \  10.128.0.4:2377

nd2# docker swarm join \ --token SWMTKN-1-
   030ofl3to3lkylc0g04yitzjca9rbo3fmz6put4lsjm7ytkzb9-
   6djd19g0nitbl1q8bz3xlkm36 \  10.128.0.4:2377
```

```
# docker swarm leave
# docker swarm leave --force
# service docker stop
# service docker start

mgr# docker service ls
mgr# docker run -itd -p 80:80 nginx
mgr# docker service create --replicas 4 nginx
# docker service create -p 80:80 --name webserver
  nginx
# docker service scale webserver=5
# docker exec -it <cid> hostname
```

```
mgr# docker service create --name mytom -p
    8080:8080 tomcat
 mgr# netstat -lntp   ---> (you can find port: 8080)
 nd1# netstat -lntp   ---> (you can find port: 8080)
 nd2# netstat -lntp   ---> (you can find port: 8080)

 #docker service ls
 #docker service inspect <service id>
 #docker service inspect <service id> --pretty

Scale Services:
--------------------
 #docker service update --replicas 10 mytom
```

Docker Push

```
# docker  run  -it  ubunt  bash
# apt-get update
# apt-get install apache2
(press ctrl+pq to quit from Docker Container
   without stopping the  Container)
#docker ps
#docker commit <container id> <Image Name>
#docker tag <img Name> sathyadevops/apache
#docker login
#docker push sathyadevops/apache
```