docker-compose

What is it?

- docker-compose is a tool for defining, managing and launching services - it provides some level of **Orchestration**

- a service is a set of replicas of a particular docker container

- modelled in YML-file, defining systems of services and links between them:

```
       a container name ->  registry:
build from this Dockerfile location ->    build: ./registry
              port mapping ->    ports:
                                   - "5555:5000"
            container links ->    links:
                                   - pump:webhookmonitor
               environment ->    environment:
                                   - COFFEEFINDER_DB_URI=postgresql://postgres:5432/db
                                   - COFFEEFINDER_CONFIG=development
                                   - SERVICE_NAME=coffee
                                pump:
                                  build: ./pump
              port mapping ->    expose:
                                   - "8000"
                                  links:
                                   - elasticsearch:esnode
                                elasticsearch:
                                  image: elasticsearch:1.6
                                  ports:
                                   - "9200:9200"
                                  command: "-Des.http.cors.enabled=true"

         docker build -t <user>/<image>:<tag> <image>
```

docker-compose cli

building commands:
```
build
config
images
```

container commands:
```
ps
up/down
kill
restart/start/stop/kill
rm
scale
top
logs
```

repo commands (at the service level):
```
pull
push
```

Note: this command set is very like the docker cli command set, just at a different level of abstraction