Compte rendu tp 6

Initialize the Swarm:

Show Swarm Members:

```
ubuntu1@ubuntu1-virtual-machine:~$ docker swarm join --token SWMTKN-1-0fdzi77i2x
x2rewbitfajs2fc99wwcw5tcderalp7lsxc40oim-ctbr5xsexcm9wdn0l4c7p791d 192.168.150.1
28
This node joined a swarm as a worker.
```

Clone the Voting App

```
root@ubuntu-virtual-machine:/home/ubuntu# docker node ls
ID
                              HOSTNAME
                                                         STATUS
                                                                   AVAILABILITY
                                                                                   MANAGER STAT
US
     ENGINE VERSION
rwt7vskf3qcaxe3ge154rvl75
                              ubuntu1-virtual-machine
                                                         Ready
                                                                   Active
     28.0.1
y5daxhrdt6fikymuvhxm9jxv1 *
                              ubuntu-virtual-machine
                                                         Ready
                                                                   Active
                                                                                   Leader
     27.5.1
```

Deploy a Stack and list the Stack Services:

```
root@ubuntu-virtual-machine:/home/ubuntu# git clone https://github.com/docker/example-voting-app
Cloning into 'example-voting-app'...
remote: Enumerating objects: 1179, done.
remote: Total 1179 (delta 0), reused 0 (delta 0), pack-reused 1179 (from 1)
Receiving objects: 100% (1179/1179), 1.21 MiB | 133.00 KiB/s, done.
Resolving deltas: 100% (448/448), done.
root@ubuntu-virtual-machine:/home/ubuntu# cd example-voting-app
```

```
root@ubuntu-virtual-machine:/home/ubuntu/example-voting-app# cat docker-stack.yml
# this file is meant for Docker Swarm stacks only
# trying it in compose will fail because of multiple replicas trying to bind to the same port
# Swarm currently does not support Compose Spec, so we'll pin to the older version 3.9
version: "3.9"
services:
  redis:
    image: redis:alpine
    networks:
      - frontend
  db:
    image: postgres:15-alpine
    environment:
      POSTGRES_USER: "postgres"
      POSTGRES_PASSWORD: "postgres"
    volumes:

    db-data:/var/lib/postgresql/data

    networks:
      - backend
  vote:
    image: dockersamples/examplevotingapp vote
    ports:
       - 8080:80
    networks:

    frontend

    deploy:
      replicas: 2
  result:
    image: dockersamples/examplevotingapp result
    ports:
      - 8081:80
    networks:
      - backend
```

```
root@ubuntu-virtual-machine:/home/ubuntu/example-voting-app# docker stack deploy --compose-fi
le=docker-stack.yml voting_stack
Since --detach=false was not specified, tasks will be created in the background.
In a future release, --detach=false will become the default.
Creating network voting_stack_backend
Creating network voting_stack_frontend
Creating service voting_stack_worker
Creating service voting_stack_redis
Creating service voting_stack_db
Creating service voting_stack_vote
Creating service voting_stack_result
root@ubuntu-virtual-machine:/home/ubuntu/example-voting-app# docker stack ls
NAME SERVICES
voting_stack 5
```

Getting details on each service within the stack:

root@ubuntu-vi	irtual-machine:/home/ub	ountu/example	-voting-app#	docker stack services voting_sta
ID	NAME PORTS	MODE	REPLICAS	IMAGE
4x9kflrw7u1g	voting_stack_db	replicated	0/1	postgres:15-alpine
a3nujorxivdu	voting_stack_redis	replicated	0/1	redis:alpine
wesd2ish0x3h esult:latest	voting_stack_result *:8081->80/tcp	replicated	0/1	dockersamples/examplevotingapp_r
e7w950vh35hf ote:latest	voting_stack_vote *:8080->80/tcp	replicated	0/2	dockersamples/examplevotingapp_v
bo7yw0iyt0t5 orker:latest	voting_stack_worker	replicated	0/2	dockersamples/examplevotingapp_w

Seeing the list of the tasks of the vote service:

```
root@ubuntu-virtual-machine:/home/ubuntu/example-voting-app# docker service ps voting_stack_v
ote
ID
               NAME
                                      IMAGE
                                                                                     NODE
               DESIRED STATE CURRENT STATE
                                                           ERROR
                                                                     PORTS
cvsuco5zfkhu
               voting\_stack\_vote.1 \\ \hspace{0.5cm} dockersamples/examplevotingapp\_vote: latest
                                                                                     ubuntu1-vir
               Running
tual-machine
                               Running 2 seconds ago
62jk9ptf4vi4
               voting_stack_vote.2 dockersamples/examplevotingapp_vote:latest
                                                                                     ubuntu-virt
                              Preparing 2 minutes ago
ual-machine
               Running
```

```
root@ubuntu-virtual-machine:/home/ubuntu/example-voting-app# docker service scale voting_stack_vote=5
voting_stack_vote scaled to 5
overall progress: 5 out of 5 tasks
1/5: running
2/5: running
3/5: running
4/5: running
5/5: running
verify: Service voting_stack_vote converged
```

root@ubuntu-vi	irtual-machine:/home/ul	buntu/example	-voting-app#	# docker stack services voting_st
ID	NAME PORTS	MODE	REPLICAS	IMAGE
4x9kflrw7u1g	voting_stack_db	replicated	1/1	postgres:15-alpine
a3nujorxivdu	voting_stack_redis	replicated	1/1	redis:alpine
wesd2ish0x3h esult:latest	voting_stack_result *:8081->80/tcp	replicated	1/1	dockersamples/examplevotingapp_r
e7w950vh35hf ote:latest	voting_stack_vote *:8080->80/tcp	replicated	5/5	dockersamples/examplevotingapp_v
bo7yw0iyt0t5 orker:latest	voting_stack_worker	replicated	2/2	dockersamples/examplevotingapp_w