



AARHUS UNIVERSITET

Microservices and DevOps

DevOps and Container Technology

Swarm Exercise

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- Solve from Iteration 4 web page

Exercise 'swarm-quote'

Initialize your Docker installation to run in 'swarm' mode, and create a docker compose file that starts a SkyCave Daemon, and a QuoteService based upon 'henrikbaerbak/quote:msdo'. All other services can be the default test double variants.

henrikbaerbak/quote:msdo_1_0_1

- Start on the mandatory

Exercise 'swarm-db' (*) [M 60]

Now, to start your SkyCave backtier, you need to start *two* containers: the daemon and the `redis`; and you need to bind them together using a docker network. *Manual procedures* are not DevOps... We instead need *infrastructure-as-code!*

Initialize your Docker installation to run in 'swarm' mode, and create a docker compose file that allows starting, updating, and stopping a full SkyCave server side system, on a named network.



- Try to update a running stack...

Exercise 'update-swarm-db'

Do a) deploy swarm-db stack b) make some trivial modification of skycave daemon source code and resulting container c) update the swarm-db by redeploying. What happens?