Text Direction: Introduction to Docker Swarm and Service Discovery

Section 6, Lecture 41

Step 1: Expose environment variables

(If you are using Windows, replace "export" with "set" command)

1. export DIGITALOCEAN\_ACCESS\_TOKEN=<YOUR\_DIGITALOCEAN\_TOKEN>
2. export DIGITALOCEAN\_PRIVATE\_NETWORKING=true
3. export DIGITALOCEAN\_IMAGE=debian-8-x64

Step 2: Provision consul machine

1. docker-machine create -d digitalocean consul

Step 3: Display the network configuration of the consul machine

1. docker-machine ssh consul ifconfig

Step 4: Ping the private and public IP address of the consul machine.

1. ping -c 1 $(docker-machine ssh consul 'ifconfig eth0 | grep "inet addr:" | cut -d: -f2 | cut -d" " -f1')
2. ping -c 1 $(docker-machine ssh consul 'ifconfig eth1 | grep "inet addr:" | cut -d: -f2 | cut -d" " -f1')

Step 5: Export the private IP to KV\_IP environment variable

1. export KV\_IP=$(docker-machine ssh consul 'ifconfig eth1 | grep "inet addr:" | cut -d: -f2 | cut -d" " -f1')

Step 6: Configure Docker client to connect to the consul machine

1. eval $(docker-machine env consul)

Step 7: Start the consul container in the consul machine

1. docker run -d -p ${KV\_IP}:8500:8500 --restart always gliderlabs/consul-server -bootstrap

Read more:

* **Consul in Docker**

https://hub.docker.com/r/gliderlabs/consul-server/

* **Bootstrap mode in Consul server**

https://www.consul.io/docs/guides/bootstrapping.html