Text Direction: Introduction to Docker Swarm and Service Discovery

**Step 1: Expose environment variables**

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

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

**Step 2: Provision consul machine**

docker-machine create -d digitalocean consul

**Step 3: Display the network configuration of the consul machine**

docker-machine ssh consul ifconfig

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

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

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**

eval $(docker-machine env consul)

**Step 7: Start the consul container in the consul machine**

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