

Download and install Virtual box

After that -> docker-machine

Create two virtual machines of 2GB size each

```
docker-machine create --driver virtualbox --virtualbox-disk-size "20000" hyperv-vm-1
```

```
docker-machine create --driver virtualbox --virtualbox-disk-size "20000" hyperv-vm-2
```

```
docker-machine ls
```

NAME	ACTIVE	DRIVER	STATE	URL
SWARM	DOCKER	ERRORS		
hyperv-vm-1	-	virtualbox	Running	tcp://192.168.99.100:2376
hyperv-vm-2	-	virtualbox	Running	tcp://192.168.99.101:2376

To view the IP of virtual machine

```
docker-machine ip hyperv-vm-1  
192.168.99.100
```

```
docker-machine ip hyperv-vm-2  
192.168.99.101
```

View the metadata information of the Virtual machine

```
docker-machine env hyperv-vm-1  
export DOCKER_TLS_VERIFY="1"  
export DOCKER_HOST="tcp://192.168.99.100:2376"  
export DOCKER_CERT_PATH="/Users/nagarajskharvi/.docker/machine/machines/hyperv-vm-1"  
export DOCKER_MACHINE_NAME="hyperv-vm-1"  
# Run this command to configure your shell:  
# eval $(docker-machine env hyperv-vm-1)
```

To configure the shell

```
eval $(docker-machine env hyperv-vm-1)
```

```
docker-machine ls
```

NAME	ACTIVE	DRIVER	STATE	URL
SWARM	DOCKER	ERRORS		
hyperv-vm-1	*	virtualbox	Running	tcp://192.168.99.100:2376
hyperv-vm-2	-	virtualbox	Running	tcp://192.168.99.101:2376

```
docker run -itd -p 5555:80 --name my-custom nginx:latest  
Unable to find image 'nginx:latest' locally
```

```
latest: Pulling from library/nginx
6ec7b7d162b2: Pull complete
cb420a90068e: Pull complete
2766c0bf2b07: Pull complete
e05167b6a99d: Pull complete
70ac9d795e79: Pull complete
Digest:
sha256:4cf620a5c81390ee209398ecc18e5fb9dd0f5155cd82adcbae532fec94006
fb9
Status: Downloaded newer image for nginx:latest
303461c16d95e82a03f065f33707897d78a77a38c1f8b2495135bdbb53b9f3be
```

docker images

REPOSITORY	TAG	IMAGE ID	CREATED
nginx	latest	ae2feff98a0c	3 days
ago	133MB		

docker ps

CONTAINER ID	IMAGE	COMMAND	NAMES
303461c16d95	nginx:latest	"/docker-entrypoint..."	4
minutes ago	Up 58 seconds	0.0.0.0:5555->80/tcp	my-
custom			

Access the application by logging to <http://192.168.99.100:5555/>
This supposed to give response as Welcome to NGNIX

Doing the same thing for hyperv-vm-2

docker-machine env hyperv-vm-2

```
export DOCKER_TLS_VERIFY="1"
export DOCKER_HOST="tcp://192.168.99.101:2376"
export DOCKER_CERT_PATH="/Users/nagarajskharvi/.docker/machine/
machines/hyperv-vm-2"
export DOCKER_MACHINE_NAME="hyperv-vm-2"
# Run this command to configure your shell:
# eval $(docker-machine env hyperv-vm-2)
```

```
eval $(docker-machine env hyperv-vm-2)
```

docker-machine ls

NAME	ACTIVE	DRIVER	STATE	URL
hyperv-vm-1	-	virtualbox	Running	tcp://
192.168.99.100:2376		v19.03.12		
hyperv-vm-2	*	virtualbox	Running	tcp://
192.168.99.101:2376		v19.03.12		

```
docker run -itd -p 5555:80 --name my-custom nginx:latest
```

```
Unable to find image 'nginx:latest' locally
latest: Pulling from library/nginx
6ec7b7d162b2: Pull complete
cb420a90068e: Pull complete
```

```
2766c0bf2b07: Pull complete
e05167b6a99d: Pull complete
70ac9d795e79: Pull complete
Digest:
sha256:4cf620a5c81390ee209398ecc18e5fb9dd0f5155cd82adcbae532fec94006
fb9
Status: Downloaded newer image for nginx:latest
ccdea4351be1dfaf4d19f61e83bb12354377280033bc80ca8c64db42e2184252
```

docker images

REPOSITORY	TAG	IMAGE ID	CREATED
nginx	latest	ae2feff98a0c	3 days ago

docker ps

CONTAINER ID	IMAGE	COMMAND	PORTS	NAMES
ccdea4351be1	nginx:latest	"/docker-entrypoint..."	10	
seconds ago	Up 9 seconds	0.0.0.0:5555->80/tcp		my-custo

Access the application by logging to <http://192.168.99.101:5555/>
This supposed to give response as Welcome to NGNIX

Stopping docker machine

docker-machine ls

NAME	ACTIVE	DRIVER	STATE	URL
SWARM DOCKER		ERRORS		
hyperv-vm-1	-	virtualbox	Running	tcp://192.168.99.100:2376
hyperv-vm-2	*	virtualbox	Running	tcp://192.168.99.101:2376

docker images

REPOSITORY	TAG	IMAGE ID	CREATED
nginx	latest	ae2feff98a0c	3 days ago

docker-machine stop hyperv-vm-2

```
Stopping "hyperv-vm-2"...
Machine "hyperv-vm-2" was stopped.
```

docker-machine ls

NAME	ACTIVE	DRIVER	STATE	URL
SWARM DOCKER		ERRORS		
hyperv-vm-1	-	virtualbox	Running	tcp://192.168.99.100:2376
hyperv-vm-2	-	virtualbox	Stopped	

docker-machine start hyperv-vm-2

```
Starting "hyperv-vm-2"...
(hyperv-vm-2) Check network to re-create if needed...
(hyperv-vm-2) Waiting for an IP...
```

Machine "hyperv-vm-2" was started.
Waiting for SSH to be available...
Detecting the provisioner...
Started machines may have new IP addresses. You may need to re-run
the `docker-machine env` command.

docker-machine ls

NAME	SWARM	DOCKER	ACTIVE	DRIVER	STATE	URL
hyperv-vm-1		-		virtualbox	Running	tcp://
192.168.99.100:2376				v19.03.12		
hyperv-vm-2		*		virtualbox	Running	tcp://
192.168.99.101:2376				v19.03.12		