Cluster Deploy Guide

Requirements

- Lab files: Provided in repository
- Login to the lab repository

> Note: This lab should be run as the **root** user. This can be accomplished with the following command:

```
$ sudo su -
```

Obtain files from repository

Input:

```
$ sudo su -
$ git -c http.sslVerify=false clone \
https://git.nebulaworks.com/nebulaworks/docker-internals-lab.git
$ cd docker-internals-lab/lab5/lab-05-IaC/
```

Output:

```
root@165.227.13.80 ~: sudo su -
root@165.227.13.80 ~: git -c http.sslVerify=false clone
https://git.nebulaworks.com/nebulaworks/docker-internals-lab.git
Cloning into 'docker-internals-lab'...
Username for 'https://git.nebulaworks.com': training
Password for 'https://training@git.nebulaworks.com':
remote: Counting objects: 132, done.
remote: Compressing objects: 100% (3/3), done.
remote: Total 132 (delta 0), reused 0 (delta 0), pack-reused 129
Receiving objects: 100% (132/132), 1.90 MiB | 0 bytes/s, done.
Resolving deltas: 100% (56/56), done.
Checking connectivity... done.
root@165.227.13.80 ~: cd docker-internals-lab/lab5/lab-05-IaC/
```

Build terraform tool

Review the Dockerfile:

```
$ cat Dockerfile
```

Build the terraform Docker image:

```
$ docker build -t terraform .
```

Deploy UCP

```
vim terraform.tfvars # Or use the text editor of your choice.
```

At line 1 of terraform.tfvars:

Change `name = "training"` , to `name = "<your-name>"` .

Use terraform to stand up your DDC infrastructure

```
$ docker run --rm -it -v $(pwd):/root/ terraform apply
# When complete run the following to grab IP addresses of UCP and DTR to use
# with the guide.md

$ cat ips.txt
## output example
UCP URL: https://104.236.156.152
DTR URL: https://192.241.223.231
```

Work with the UCP cluster

See **guide.md**.

Cleanup cluster

```
$ docker run --rm -it -v $(pwd):/root/ terraform destroy
```