

obtain files from link

link to lab files: provided in email

requirements

this lab must be run as root

to get root access run `sudo su -` from the command line

transfer file to lab vm

```
scp Downloads/lab-05-IaC.zip docker@<LAB_VM_IP>:/tmp
```

unzip in your home directory

input:

```
sudo su -  
apt-get install -y unzip  
cp /tmp/lab-05-IaC.zip .  
unzip lab-05-IaC.zip
```

```
#####
```

```
cd lab-05-IaC/
```

output:

```
docker@159.203.219.157 ~: unzip lab-05-IaC.zip
Archive:  lab-05-IaC.zip
  creating: lab-05-IaC/
  inflating: lab-05-IaC/compose.txt
  inflating: lab-05-IaC/ddc-install.sh
  creating: __MACOSX/
  creating: __MACOSX/lab-05-IaC/
  inflating: __MACOSX/lab-05-IaC/._ddc-install.sh
  inflating: lab-05-IaC/ddc-join.sh
  inflating: __MACOSX/lab-05-IaC/._ddc-join.sh
  inflating: lab-05-IaC/ddc.tf
  inflating: __MACOSX/lab-05-IaC/._ddc.tf
  inflating: lab-05-IaC/Dockerfile.txt
  inflating: lab-05-IaC/guide.pdf
  inflating: __MACOSX/lab-05-IaC/._guide.pdf
  inflating: lab-05-IaC/terraform.tfvars
  inflating: __MACOSX/lab-05-IaC/._terraform.tfvars
  inflating: lab-05-IaC/training.key
  inflating: lab-05-IaC/training.key.pub
  inflating: lab-05-IaC/variables.tf
  inflating: __MACOSX/lab-05-IaC/._variables.tf
docker@159.203.219.157 ~: ls
```

```
lab-05-IaC  lab-05-IaC.zip  __MACOSX
docker@159.203.219.157 ~: cd lab-05-IaC/
docker@159.203.219.157 ~/lab-05-IaC:
```

build terraform tool

review the Dockerfile

```
input:
cat Dockerfile
```

build terraform tool

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

Deploy UCP

edit `ddc.tf`

at line 8 of [ddc.tf](#)

change `name = "ddcNode-1-training"` alter name value with `ddcNode-1-<your_name>`

at line 28 of [ddc.tf](#)

change `name = "${format("ddcNode-%d-training", 1 + count.index +1)}"` alter name value with `ddcNode-%d-<your_name>`

Use terraform to stand up your new infrastructure

```
docker run --rm -it -v `pwd`:/root/ terraform apply
```

```
# when complete run the following and grab the first IP address to use with the guide.pdf
cat terraform.tfstate |grep ipv4_address
```

```
#### output example
"ipv4_address": "138.197.198.72",
"ipv4_address": "138.68.5.248",
"ipv4_address": "138.68.27.160",
```

work with the UCP cluster

see the [guide.pdf](#)

cleanup cluster

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