README

OpenCloud

Distributed IAAS

Term Project for Cloud Computing CSG527.

Steps of Installation for Prototype Implementation:

Ways

Docker

Trial 1:

`sudo docker run --name ubvnc -p 6080:80 -p 5900:5900 dorowu/ubuntu-desktop-lxde-vnc:bionic`
`docker start ubvnc`
`docker stop ubvnc`

Trial 2:

`docker run --name ubuntu -it ubuntu`
`sudo apt-get update && sudo apt-get install xinit lxde virtualbox-guest-dkms`
`startx`

Vagrant

1. Run the required vagrant file with Team-Viewer installation for now.

2. SSH/RDP into the TeamViewer shell for remote access.

3. Providers provide the shell(TeamViewer) and Consumers SSH/RDP into that shell

4. Solves the NAT problem encountered in docker-networking conatiners.

Live Demo

1. Install TeamViewer in your host machine.

2. Provider Server setup in my machine.

3. Login with the following credentials:

```
id: 871704285
password: 59v3rg
```

test user credentials

```
id: test
password: password
```

4. Connection established.

TO-DO

1. Improve on security for both providers & consumers.

2. Encrypted access to data.

3. VM Gui needs to be disabled on the provider side.

4. Remove dependency on the TeamViewer Software by building inhouse deployment software.