EX.NO:1,(b) 1. Virtualization

DATE:

b. Virtualize a machine and check how many virtual machine can be utilized at a particular time.

AIM:

To execute the procedure for how many virtual machine can be utilized at a particular time.

CREATION OF VIRTUAL MACHINES

- PROCEDURE:
- Open Frontend, kvm1, kvm2 (Pwd: Redhat)
- Goto FrontEnd ->Right Click-> Open In Terminal
- [frontend@frontend Desktop]\$ su
- · Password: redhat
- [root@frontend Desktop]# su oneadmin

CREATION OF VIRTUAL MACHINES

OUTPUT:

Last login: Wed Aug 21 09:27:42 IST 2019 on pts/0

[oneadmin@frontend ~]\$ onehost list

OUTPUT:

Goto Run -> type cmd -> ipcongif

Check the IP ADDRESS of your system.

Goto FrontEnd,

[oneadmin@frontend~]\$ vi /var/tmp/mynetwork.one

CREATION OF VIRTUAL MACHINES

```
Press i for Inserting Mode in the Editor
Copy the Following Code:
NAME = "private"
BRIDGE = br0
AR = [
TYPE = IP4,
IP = 192.168.35.150,
SIZE = 10
]
```

```
NAME = "private"

BRIDGE = br0

AR = [
    TYPE = IP4,
    IP = 192.168.35.150,
    SIZE = 10
]
```

Press ESC, and then Shift+: + w + q (altogether)

[oneadmin@frontend ~]\$ onevnet create /var/tmp/mynetwork.one

ID: 1

[oneadmin@frontend ~]\$ onevnet list

OUTPUT:

ID USER GROUP NAME CLUSTER BRIDGE LEASES 1 oneadmin oneadmin private - br0 0

CREATION OF VIRTUAL MACHINES

In Frontend, goto Apllication -> Mozilla Firefox

url: http://frontend:9869

Go to Virtual Resources -> Images -> Click Add + Symbol

Name: TTYLinux_1.0

Type: Select "DATABLOCK "

Image Location : Select "Empty Datablock"

Size: 512 FS: qcow2

CLICK "CREATE"

CREATION OF VIRTUAL MACHINES

In Frontend, goto Apllication -> Mozilla Firefox

url: http://frontend:9869

Go to Virtual Resources -> Images -> Click Add + Symbol

Name: TTYLinux_1.0

Type: Select "DATABLOCK "

Image Location : Select "Empty Datablock"

Size: 512Goto Terminal,

[oneadmin@frontend ~]\$ onetemplate list

OUTPUT:

ID USER GROUP NAME REGTIME
2 oneadmin oneadmin TTYLinux_1.0 08/21 12:38:42

Goto Virtual Resources -> Templates -> click the file

CREATION OF VIRTUAL MACHINES

Goto Terminal,

[oneadmin@frontend ~]\$ oneimage list

ID USER GROUP NAME DATASTORE SIZE TYPE PER STAT RVMS 2 oneadmin oneadmin TTYLinux_1.0 default 512M DB No rdy 0

Go to Virtual Resources -> Templates -> Click Add + Symbol

Name: TTYLinux_1.0

VCPU: 1

CLICK "CREATE"

CREATION OF VIRTUAL MACHINES

Goto Terminal,

[oneadmin@frontend ~]\$ onetemplate list

OUTPUT:

ID USER GROUP NAME REGTIME
2 oneadmin oneadmin TTYLinux_1.o 08/21 12:38:42

Goto Virtual Resources -> Templates -> click the file

Now click Instantiate ->

VM NAME: kvm1

Click -> Instantiate

Now click Instantiate ->

VM NAME: kvm2

Click -> Instantiate

Goto Terminal,

[oneadmin@frontend ~]\$ onevm list

OUTPUT:

ID	USER	GROUP	NAME	S	STA	TU CPU	UMEM	HOST	TIME
3 or	neadmin or	neadmin kv	m1	runn	2	512M kv	m2.saec.co	om 0d 00h01	
2 or	neadmin oi	neadmin ky	/m2	runn	2.	512M kv	m1.saec.co	om 0d 00h02	

Goto Browser, Virtual Resources-> Virtual Machine ->

Click -> oneadmin -> Migrate [live]

Select host -> click "Migrate"

[oneadmin@frontend1 ~]\$ onevm migrate	live TTYL:	inux 1-2 kvm1.cnl.com								
[oneadmin@frontend1 ~]\$ onevm list										
ID USER GROUP NAME	STAT UCPU	U UMEM HOST	TIME							
2 oneadmin oneadmin TTYLinux_1-2	runn 2	4 256M kvm1.cnl.c	0d 00h13							
[oneadmin@frontend1 ~]\$ onevm list										
ID USER GROUP NAME	STAT UCPU	U UMEM HOST	TIME							
2 oneadmin oneadmin TTYLinux_1-2	runn 2	4 256M kvm1.cnl.c	0d 00h13							
[oneadmin@frontend1 ~]\$										

RESULT:

In this above application is how many virtual machine can be utilized at a particular time executed Successfully