

DATE:

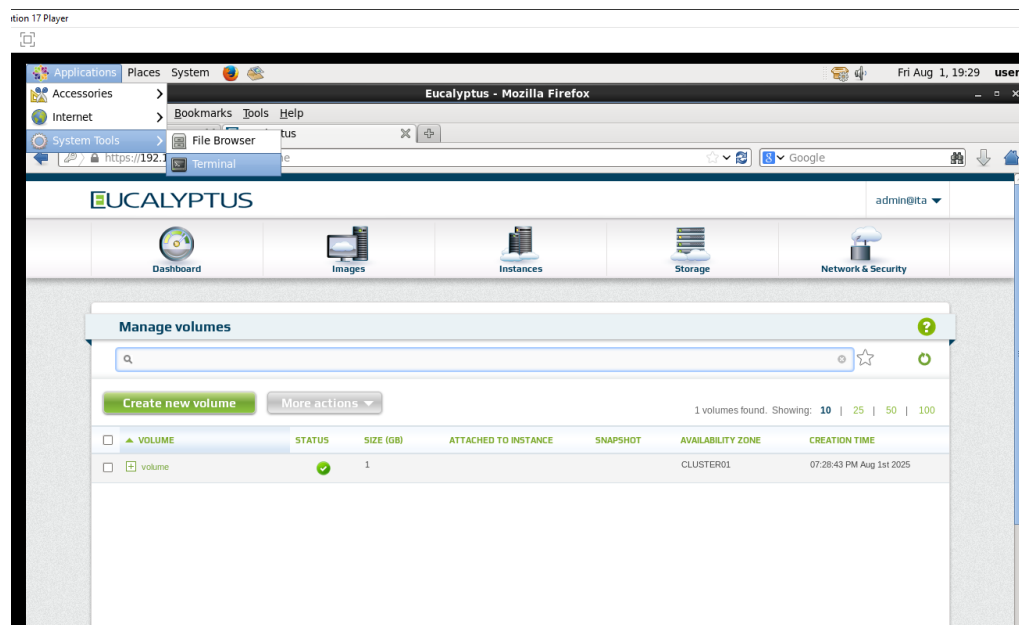
Attaching Virtual Block to a Virtual Machine

AIM:

To attach a virtual block to a virtual machine and to check whether it holds the data.

PROCEDURE:

1. Create an instance in your Eucalyptus User Console.
2. Click on Applications, choose system tools and then select Terminal.



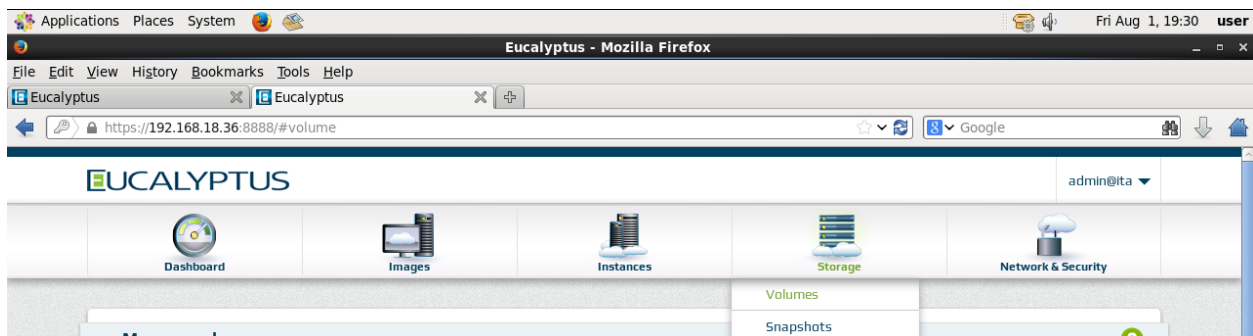
3. Open the terminal and type the command **su root**.
4. Type the password as **123456** to login the root.
5. Enter the command as **ls** and list out the files and directories in your login.
6. Change the directory to *Downloads* using the command **cd Downloads**.
7. Type the commands:
 chmod 600 key1.pem
 ssh -I key1.pem [cloud-user@192.168.18.36](https://192.168.18.36), enter password as **123456**.

```
user@root:/home/user/Downloads
File Edit View Search Terminal Help
[user@root ~]$ su root
Password:
[root@root user]# ls
credentials Documents Music Public Videos
Desktop Downloads Pictures Templates
[root@root user]# cd Downloads
[root@root Downloads]# Chmod 600 key1.pem
bash: Chmod: command not found
[root@root Downloads]# chmod 600 key1.pem
[root@root Downloads]# ssh -i key1.pem cloud-user@192.168.18.36
cloud-user@192.168.18.36's password:
Permission denied, please try again.
cloud-user@192.168.18.36's password:
Permission denied, please try again.
cloud-user@192.168.18.36's password:
Permission denied (publickey,gssapi-keyex,gssapi-with-mic,password).
[root@root Downloads]#
```

8. To check the list of blocks in the virtual machine, use **lsblk**.

```
Applications Places System user@root:/home/user/Downloads
File Edit View Search Terminal Help
[root@root Downloads]# lsblk
NAME
MAJ:MIN RM SIZE RO TYPE MOUNTPOINT
loop0
 7:0 0 1.3G 0 loop
└─euca-AID3WCL9FF0096KGHXX0K-i-A73642F5-emi-C47D3787-25e43c3b-p0-snap (dm-1)
253:1 0 1.3G 0 dm
└─euca-AID3WCL9FF0096KGHXX0K-i-A73642F5-emi-C47D3787-25e43c3b (dm-2)
253:2 0 1.3G 0 dm
└─euca-AID3WCL9FF0096KGHXX0K-i-A73642F5-dsk-C47D3787-76e491e1 (dm-12)
253:12 0 5G 0 dm
└─euca-AID3WCL9FF0096KGHXX0K-i-A73642F5-dsk-C47D3787-76e491e1p1 (dm-13)
253:13 0 1.3G 0 dm
└─euca-AID3WCL9FF0096KGHXX0K-i-A73642F5-dsk-C47D3787-76e491e1p2 (dm-14)
253:14 0 3.3G 0 dm
└─euca-AID3WCL9FF0096KGHXX0K-i-A73642F5-dsk-C47D3787-76e491e1p3 (dm-15)
253:15 0 512M 0 dm
loop1
 7:1 0 1.3G 0 loop
└─euca-AID3WCL9FF0096KGHXX0K-i-A73642F5-emi-C47D3787-25e43c3b-p0-back (dm-0)
253:0 0 1.3G 0 dm
└─euca-AID3WCL9FF0096KGHXX0K-i-A73642F5-emi-C47D3787-25e43c3b-p0-snap (dm-1)
253:1 0 1.3G 0 dm
└─euca-AID3WCL9FF0096KGHXX0K-i-A73642F5-emi-C47D3787-25e43c3b (dm-2)
253:2 0 1.3G 0 dm
└─euca-AID3WCL9FF0096KGHXX0K-i-A73642F5-dsk-C47D3787-76e491e1 (dm-12)
253:12 0 5G 0 dm
└─euca-AID3WCL9FF0096KGHXX0K-i-A73642F5-dsk-C47D3787-76e491e1p1 (dm-13)
253:13 0 1.3G 0 dm
└─euca-AID3WCL9FF0096KGHXX0K-i-A73642F5-dsk-C47D3787-76e491e1p2 (dm-14)
253:14 0 3.3G 0 dm
└─euca-AID3WCL9FF0096KGHXX0K-i-A73642F5-dsk-C47D3787-76e491e1p3 (dm-15)
253:15 0 512M 0 dm
loop2
 7:2 0 3.3G 0 loop
└─euca-AID3WCL9FF0096KGHXX0K-i-A73642F5-prt-03328ext3-57f32f76-p0-snap (dm-4)
253:4 0 3.3G 0 dm
└─euca-AID3WCL9FF0096KGHXX0K-i-A73642F5-prt-03328ext3-57f32f76 (dm-5)
253:5 0 3.3G 0 dm
```

9. Minimize the terminal and choose the storage option in your dashboard (Eucalyptus User Console).



10. Select Volumes, enter the name for volume as volume1 and assign volume size as 1GB and click on Create Volume.

Create new volume ?

General | Tags

An ID will be auto-generated when you create this volume.

Name

Create from snapshot?

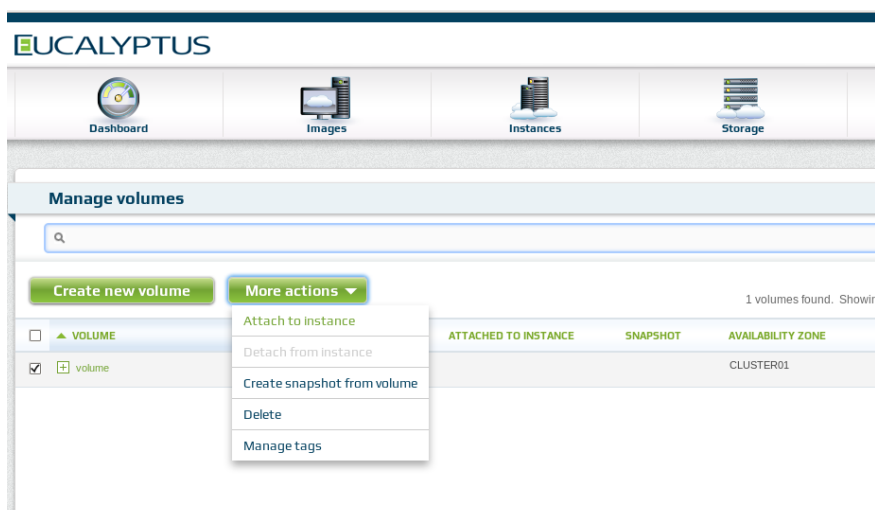
Volume size (GB) *

You should create your volume in the same availability zone as the instance with which you want to use it.

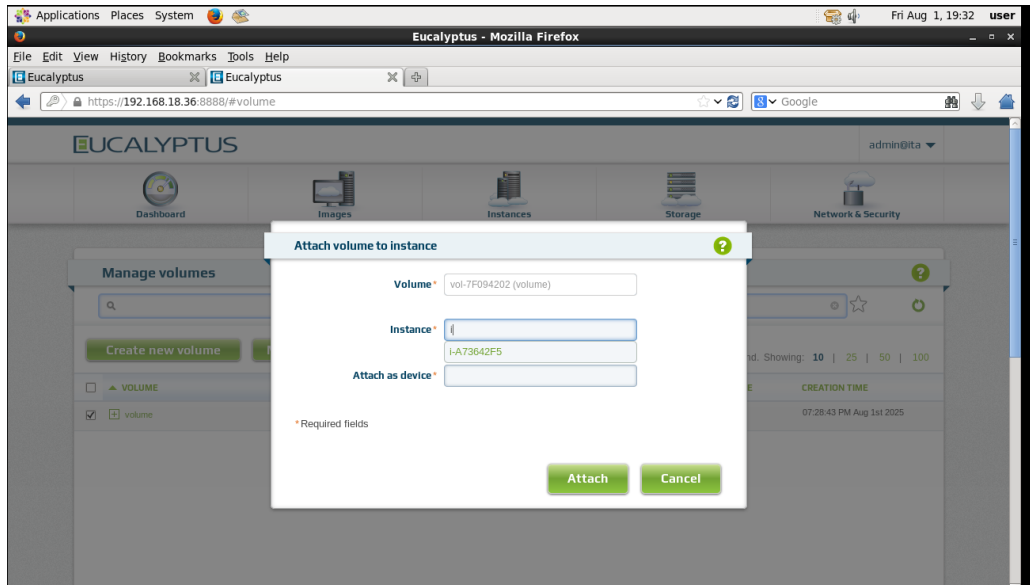
Availability zone *

* Required fields

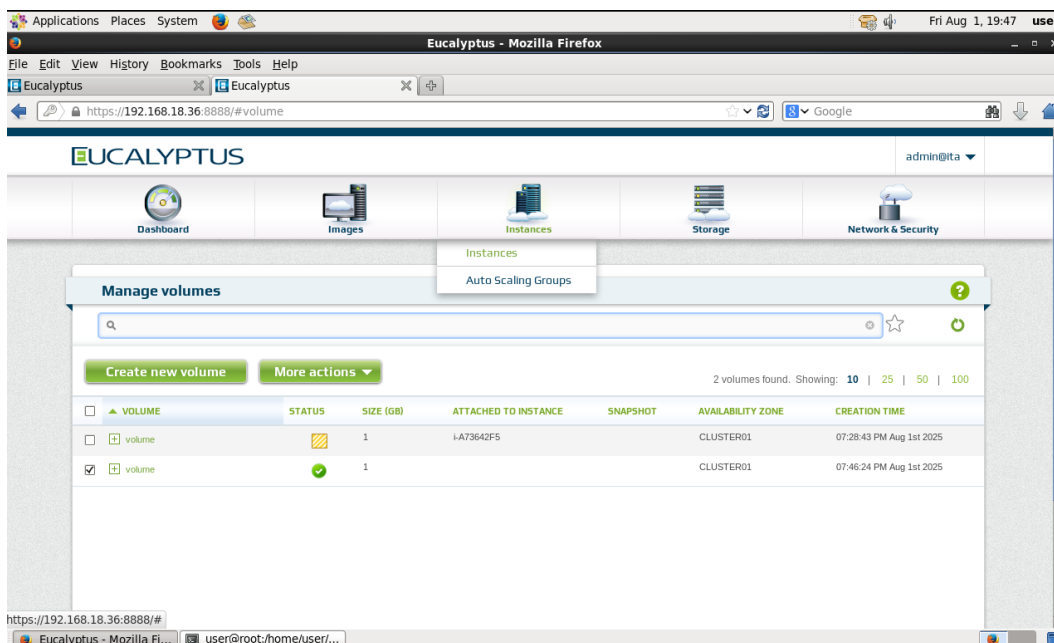
11. Once the volume is created, click on it and choose the More Actions menu.
12. Select Attach to instance.

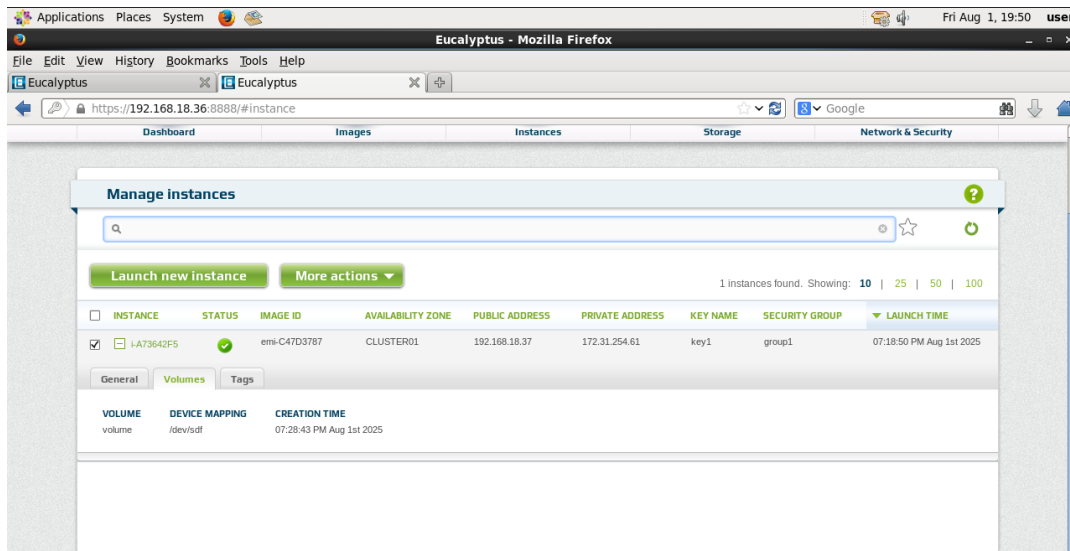


13. Type the instance name, choose the instance number and click Attach.



14. Click on Instances in your dashboard, expand your volume and check whether your volume is attached.





15. To confirm whether the volume block is attached to the instance, open the terminal and type the command **lsblk**.

```

└─euca--ebs--storage--vg--vol--7F094202-euca--vol--7F094202 (dm-16)
253:16  0      1G  0 lvm
sr0
11:0    1  1024M  0 rom
sda
 8:0    0   200G  0 disk
├─sda1
 8:1    0   500M  0 part /boot
├─sda2
 8:2    0  196.6G  0 part /
├─sda3
 8:3    0     3G  0 part [SWAP]
├─sda4
 8:4    0     1K  0 part
└─sda5
 8:5    0    18M  0 part
euca-zero (dm-9)
253:9   0     1P  0 dm
└─euca-AID3WCL9FF0096KGHXX0K-i-A73642F5-dsk-C47D3787-76e491e1-p0-snap (dm-11)
253:11  0   31.5K  0 dm
└─euca-AID3WCL9FF0096KGHXX0K-i-A73642F5-dsk-C47D3787-76e491e1 (dm-12)
253:12  0     5G  0 dm
├─euca-AID3WCL9FF0096KGHXX0K-i-A73642F5-dsk-C47D3787-76e491e1p1 (dm-13)
253:13  0    1.3G  0 dm
├─euca-AID3WCL9FF0096KGHXX0K-i-A73642F5-dsk-C47D3787-76e491e1p2 (dm-14)
253:14  0    3.3G  0 dm
└─euca-AID3WCL9FF0096KGHXX0K-i-A73642F5-dsk-C47D3787-76e491e1p3 (dm-15)
253:15  0   512M  0 dm
sdb
 8:16   0     1G  0 disk
[root@root Downloads]#

```

RESULT: Thus,a virtual block has been attached to a Virtual Machine successfully.