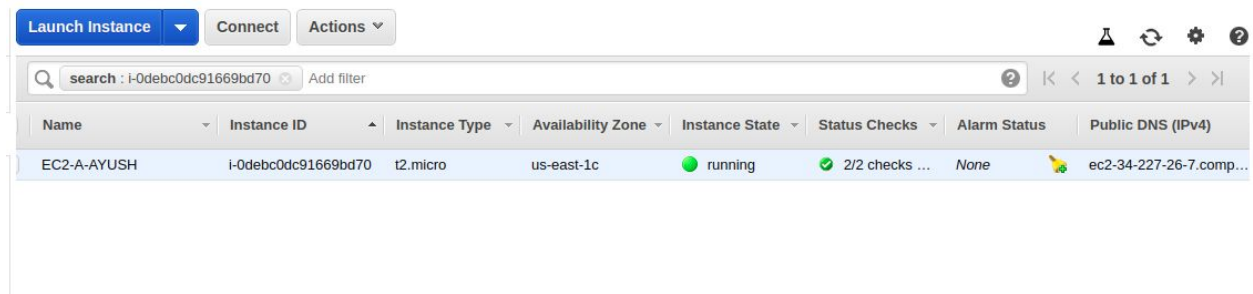
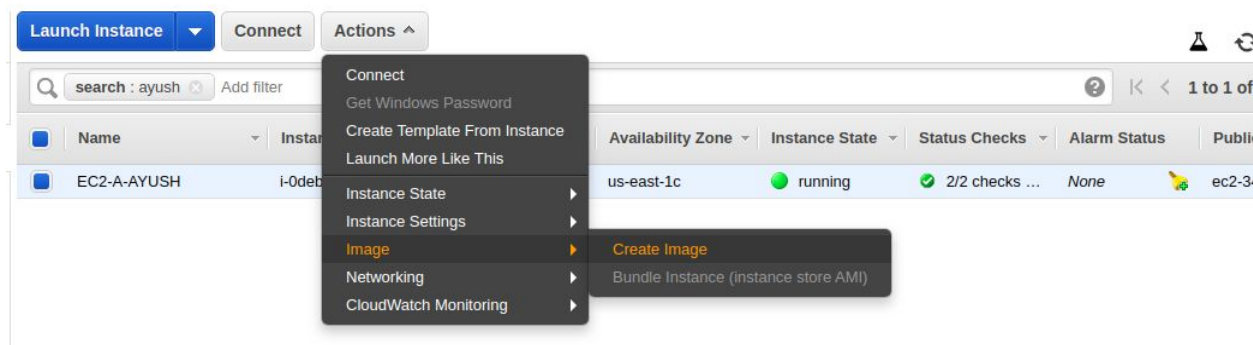


1. Create an EC2 instance (Ubuntu 18.04, T3 nano).(instance A)



```
ayush@ayush:~/Downloads$ ssh -i ayush-ec2.pem ubuntu@34.227.26.7
The authenticity of host '34.227.26.7 (34.227.26.7)' can't be established.
ECDSA key fingerprint is SHA256:VXkge7tkUJ7WdF6pIkW7ntNrNRLJ0BMLTCXW07LgcxI.
Are you sure you want to continue connecting (yes/no)?
```

2. Create AMI of above instance and launch it. (instance B)



Create Image

Instance ID ⓘ

i-0debc0dc91669bd70

Image name ⓘ

EC2-A-IMAGE

Image description ⓘ

Image of A

No reboot ⓘ

☐

Instance Volumes

Volume Type ⓘ	Device ⓘ	Snapshot ⓘ	Size (GiB) ⓘ	Volume Type ⓘ	IOPS ⓘ	Throughput (MB/s) ⓘ	Delete on Termination ⓘ	Encrypted ⓘ
Root	/dev/sda1	snap-0e078112eedec9db	8	General Purpose SSD (gp2)	100 / 3000	N/A	<input checked="" type="checkbox"/>	Not Encrypted

Add New Volume

Total size of EBS Volumes: 8 GiB

When you create an EBS image, an EBS snapshot will also be created for each of the above volumes.

Cancel

Create Image

✓

Create Image request received.

View pending image ami-062ed1f669fc829c4

Any snapshots backing your new EBS image can be managed on the [snapshots screen](#) after successful image creation.

LaunchActions

Owned by me

search : ayush

Add filter

1 to 1

	Name	AMI Name	AMI ID	Source	Owner	Visibility	Status	Creation Date
<input checked="" type="checkbox"/>	EC2-A-AYUSH	EC2-A-IMAGE	ami-062ed1f669fc829c4	187632318301/...	187632318301	Private	available	February 20,

Step 1: Choose an Amazon Machine Image (AMI)

Cancel and Exit

An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. You can select an AMI provided by AWS, our user community or the AWS Marketplace; or you can select one of your own AMIs.

ayush

X

Quick Start (0)

My AMIs (1)

AWS Marketplace (3)

Community AMIs (2)

EC2-A-IMAGE - ami-062ed1f669fc829c4

Image of A

Root device type: ebsVirtualization type: hvmOwner: 187632318301ENA Enabled: Yes

Select

64-bit (x86)

Launch Instance

Connect

Actions

search : ayush

Add filter

	Name	Instance ID	Instance Type	Availability Zone	Instance State	Status Checks
<input type="checkbox"/>	EC2-B-AYUSH	i-0cbec893772002125	t2.micro	us-east-1c	running	Initializing
<input type="checkbox"/>	EC2-A-AYUSH	i-0debc0dc91669bd70	t2.micro	us-east-1c	running	2/2 checks ...

3. Attach EBS (10 GB) on that running instance.

Create Volume

Volume Type General Purpose SSD (gp2) ⓘ

Size (GiB) 10 (Min: 1 GiB, Max: 16384 GiB) ⓘ

IOPS 100 / 3000 (Baseline of 3 IOPS per GiB with a minimum of 100 IOPS, burstable to 3000 IOPS) ⓘ

Availability Zone* us-east-1c ⓘ

Throughput (MB/s) Not applicable ⓘ

Snapshot ID Select a snapshot ↕ ⓘ

Encryption ☐ Encrypt this volume

Create Volume

✓ Volume created successfully

Volume ID [vol-0fe922d872da39c17](#)

Close

Create Volume

Actions

search : ayush

Add filter

1 to 3 of 3

Name

Volume ID

Size

Volume Type

IOPS

Snapshot

Created

Availability Zone

State

EC2-TEST-AYUSH

vol-0fe922d8...

10 GiB

gp2

100

February 20, 2020 ...

us-east-1c

available

EC2-B-AYUSH

vol-078e7a5...

8 GiB

gp2

100

snap-04dcef9f...

February 20, 2020 ...

us-east-1c

in-use

EC2-A-AYUSH

vol-0207ac6...

8 GiB

gp2

100

snap-0e07811...

February 20, 2020 ...

us-east-1c

in-use

Attach Volume

Volume ⓘ vol-0fe922d872da39c17 (EC2-TEST-AYUSH) in us-east-1c

Instance ⓘ in us-east-1c

Device ⓘ

Linux Devices: /dev/sdf through /dev/sdp

Note: Newer Linux kernels may rename your devices to /dev/xvdf through /dev/xvdp internally, even when the details) is /dev/sdf through /dev/sdp.

4. Stop, Start, Restart that EC2 (EBS must be auto-attached).

```
ubuntu@ip-172-31-202-140:~$ lsblk
NAME        MAJ:MIN RM  SIZE RO TYPE MOUNTPOINT
loop0       7:0      0   18M  1 loop /snap/amazon-ssm-agent/1480
loop1       7:1      0 89.1M  1 loop /snap/core/8268
xvda        202:0     0    8G  0 disk
└─xvda1     202:1     0    8G  0 part /
xvdf        202:80    0   10G  0 disk
ubuntu@ip-172-31-202-140:~$
```

```
ubuntu@ip-172-31-202-140:~$ sudo fdisk /dev/xvdf

Welcome to fdisk (util-linux 2.31.1).
Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Device does not contain a recognized partition table.
Created a new DOS disklabel with disk identifier 0x85510d63.

Command (m for help): n
Partition type
   p   primary (0 primary, 0 extended, 4 free)
   e   extended (container for logical partitions)
Select (default p): p
Partition number (1-4, default 1): 1
First sector (2048-20971519, default 2048):
Last sector, +sectors or +size{K,M,G,T,P} (2048-20971519, default 20971519):

Created a new partition 1 of type 'Linux' and of size 10 GiB.

Command (m for help):
```

```
ubuntu@ip-172-31-202-140:~$ sudo fdisk -l /dev/xvdf
Disk /dev/xvdf: 10 GiB, 10737418240 bytes, 20971520 sectors
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: dos
Disk identifier: 0x85510d63

Device      Boot Start      End  Sectors  Size Id Type
/dev/xvdf1                2048 20971519 20969472  10G 83 Linux
ubuntu@ip-172-31-202-140:~$ sudo mkfs.ext4 /dev/xvdf1
mke2fs 1.44.1 (24-Mar-2018)
Creating filesystem with 2621184 4k blocks and 655360 inodes
Filesystem UUID: fab584ec-df26-4941-be66-ac7d7655cc15
Superblock backups stored on blocks:
    32768, 98304, 163840, 229376, 294912, 819200, 884736, 1605632

Allocating group tables: done
Writing inode tables: done
Creating journal (16384 blocks): done
Writing superblocks and filesystem accounting information: done
```

```

ubuntu@ip-172-31-202-140:~$ mkdir partition
ubuntu@ip-172-31-202-140:~$ mount /dev/xvdf1 /home/ubuntu/partition/
mount: only root can do that
ubuntu@ip-172-31-202-140:~$ sudo mount /dev/xvdf1 /home/ubuntu/partition/
ubuntu@ip-172-31-202-140:~$ mount -a
mount: only root can use "--all" option
ubuntu@ip-172-31-202-140:~$ sudo mount -a
ubuntu@ip-172-31-202-140:~$ cd partition/
ubuntu@ip-172-31-202-140:~/partition$ df -h

```

Filesystem	Size	Used	Avail	Use%	Mounted on
udev	481M	0	481M	0%	/dev
tmpfs	99M	752K	98M	1%	/run
/dev/xvda1	7.7G	1.1G	6.7G	14%	/
tmpfs	492M	0	492M	0%	/dev/shm
tmpfs	5.0M	0	5.0M	0%	/run/lock
tmpfs	492M	0	492M	0%	/sys/fs/cgroup
/dev/loop0	18M	18M	0	100%	/snap/amazon-ssm-agent/1480
/dev/loop1	90M	90M	0	100%	/snap/core/8268
tmpfs	99M	0	99M	0%	/run/user/1000
/dev/xvdf1	9.8G	37M	9.3G	1%	/home/ubuntu/partition

```

ubuntu@ip-172-31-202-140:~/partition$ sudo touch a{1..10}
ubuntu@ip-172-31-202-140:~/partition$ ls
a1 a10 a2 a3 a4 a5 a6 a7 a8 a9 lost+found
ubuntu@ip-172-31-202-140:~/partition$

```

```

ubuntu@ip-172-31-202-140:~/partition$ blkid
/dev/xvda1: LABEL="cloudimg-rootfs" UUID="c03b791b-60ef-4ae1-82b5-5c9ab6b4d08f" TYPE="ext4" PARTUUID="b32e823c-01"
ubuntu@ip-172-31-202-140:~/partition$ sudo !!
sudo blkid
/dev/xvda1: LABEL="cloudimg-rootfs" UUID="c03b791b-60ef-4ae1-82b5-5c9ab6b4d08f" TYPE="ext4" PARTUUID="b32e823c-01"
/dev/loop0: TYPE="squashfs"
/dev/loop1: TYPE="squashfs"
/dev/xvdf1: UUID="fab584ec-df26-4941-be66-ac7d7655cc15" TYPE="ext4" PARTUUID="85510d63-01"

```

```

File Edit View Search Terminal Help
LABEL=cloudimg-rootfs / ext4 defaults,discard 0 0
UUID=fab584ec-df26-4941-be66-ac7d7655cc15 /home/ubuntu/partition ext4 defaults 0 0

```



```
ubuntu@ip-172-31-202-140:~/partition$ sudo findmnt --verify  
/  
[W] recommended root FS passno is 1 (current is 0)  
  
0 parse errors, 0 errors, 1 warning
```

```
ubuntu@ip-172-31-202-140:~/partition$ sudo init 6  
Connection to 34.230.40.71 closed by remote host.  
Connection to 34.230.40.71 closed.  
ayush@ayush:~/Downloads$ ssh -i ayush-ec2.pem ubuntu@34.230.40.71  
Welcome to Ubuntu 18.04.3 LTS (GNU/Linux 4.15.0-1057-aws x86_64)  
  
* Documentation:  https://help.ubuntu.com  
* Management:    https://landscape.canonical.com  
* Support:       https://ubuntu.com/advantage  
  
System information as of Thu Feb 20 06:57:17 UTC 2020  
  
System load:  0.3               Processes:            93  
Usage of /:   15.0% of 7.69GB   Users logged in:    0  
Memory usage: 15%              IP address for eth0: 172.31.202.140  
Swap usage:   0%  
  
* Canonical Livepatch is available for installation.  
- Reduce system reboots and improve kernel security. Activate at:  
  https://ubuntu.com/livepatch  
  
0 packages can be updated.  
0 updates are security updates.  
  
Last login: Thu Feb 20 06:38:59 2020 from 61.12.91.218  
ubuntu@ip-172-31-202-140:~$
```

5. Make some mistake in fstab file, stop and start the instance, then troubleshoot it.

SSH in EC2-B-AYUSH Instance

```
ayush@ayush:~/Downloads$ ssh -i ayush-ec2.pem ubuntu@34.230.40.71
Welcome to Ubuntu 18.04.3 LTS (GNU/Linux 4.15.0-1057-aws x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:    https://landscape.canonical.com
 * Support:       https://ubuntu.com/advantage

System information as of Thu Feb 20 07:38:41 UTC 2020

System load:  0.0                       Processes:            93
Usage of /:   15.0% of 7.69GB           Users logged in:     1
Memory usage: 15%                       IP address for eth0: 172.31.202.140
Swap usage:   0%

 * Canonical Livepatch is available for installation.
   - Reduce system reboots and improve kernel security. Activate at:
     https://ubuntu.com/livepatch

0 packages can be updated.
0 updates are security updates.

Last login: Thu Feb 20 07:25:22 2020 from 172.31.9.124
ubuntu@ip-172-31-202-140:~$
```

```
ubuntu@ip-172-31-202-140:~$ cd partition/
ubuntu@ip-172-31-202-140:~/partition$ ls
a1 a10 a2 a3 a4 a5 a6 a7 a8 a9 lost+found
ubuntu@ip-172-31-202-140:~/partition$
```

```

LABEL=cloudimg-rootfs / ext4 defaults,discard 0 0
UUID=fab584ec-df26-4941-be66-ac7d7655cc15 /home/ubuntu/partition ext4 def
aults 0 0
this is for error
```

```

LABEL=cloudimg-rootfs ext4 defaults,discard 0 0
UUID=fab584ec-df26-4941-be66-ac7d7655cc15 /home/ubuntu/partition ext4 def
aults 0 0
```



```
ubuntu@ip-172-31-202-140:~$ sudo findmnt --verify
findmnt: /etc/fstab: parse error at line 2 -- ignored
/
[W] recommended root FS passno is 1 (current is 0)
is
[E] unreachable on boot required target: No such file or directory
[W] unreachable source: this: No such file or directory
[W] for seems unsupported by the current kernel
[W] cannot detect on-disk filesystem type

1 parse error, 1 error, 4 warnings
ubuntu@ip-172-31-202-140:~$
```

Stop and start instance

Stop Instances



Are you sure you want to stop these instances?

i-0cbec893772002125 (EC2-B-AYUSH)



Note that when your instances are stopped:



Any data on the ephemeral storage of your instances will be lost.

Cancel

Yes, Stop

Start Instances



Are you sure you want to start these instances?

i-0cbec893772002125 (EC2-B-AYUSH)

Cancel

Yes, Start

```
ayush@ayush:~/Downloads$ ssh -i ayush-ec2.pem ubuntu@18.233.226.13
Last login: Thu Feb 20 07:52:30 2020 from 61.12.91.218
ubuntu@ip-172-31-202-140:~$ cat /e-bash: cannot create temp file for here-document:
Read-only file system
-bash: cannot create temp file for here-document: Read-only file system
```

Detach the root vol of B and attach it in A

Attach Volume

Volume ⓘ

vol-078e7a507da94e1e1 (EC2-B-AYUSH) in us-east-1c

Instance ⓘ

ayush

in us-east-1c

Device ⓘ

i-0debc0dc91669bd70 (EC2-A-AYUSH) (running)

i-0cbec893772002125 (EC2-B-AYUSH) (stopped)

Note: Newer Linux kernels may rename your devices to /dev/xvdf through /dev/xvdp internally, even when the device name entered here (and shown in the details) is /dev/sdf through /dev/sdp.

Cancel

Attach

```
ayush@ayush:~/Downloads$ ssh -i ayush-ec2.pem ubuntu@34.227.26.7
Welcome to Ubuntu 18.04.3 LTS (GNU/Linux 4.15.0-1057-aws x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:    https://landscape.canonical.com
 * Support:       https://ubuntu.com/advantage

System information as of Thu Feb 20 08:33:57 UTC 2020

System load:  0.0               Processes:            86
Usage of /:   13.8% of 7.69GB   Users logged in:     0
Memory usage: 17%              IP address for eth0: 172.31.9.124
Swap usage:   0%

 * Canonical Livepatch is available for installation.
   - Reduce system reboots and improve kernel security. Activate at:
     https://ubuntu.com/livepatch

0 packages can be updated.
0 updates are security updates.

Last login: Thu Feb 20 07:22:25 2020 from 61.12.91.218
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

ubuntu@ip-172-31-9-124:~$ 34.227.26.7
```

```
ubuntu@ip-172-31-9-124:~$ lsblk
NAME        MAJ:MIN RM  SIZE RO TYPE MOUNTPOINT
loop0        7:0    0 89.1M  1 loop /snap/core/8268
loop1        7:1    0   18M  1 loop /snap/amazon-ssm-agent/1480
xvda        202:0    0    8G  0 disk
└─xvda1     202:1    0    8G  0 part /
xvdf        202:80   0    8G  0 disk
└─xvdf1     202:81   0    8G  0 part
ubuntu@ip-172-31-9-124:~$
```

```

ubuntu@ip-172-31-9-124:~$ mkdir test
ubuntu@ip-172-31-9-124:~$ mount /dev/xvdf1 ~/test
mount: only root can do that
ubuntu@ip-172-31-9-124:~$ sudo mount /dev/xvdf1 ~/test
ubuntu@ip-172-31-9-124:~$ cd test/
ubuntu@ip-172-31-9-124:~/test$ ls
bin    home      lib64      opt       sbin      tmp        vmlinuz.old
boot   initrd.img lost+found  proc      snap      usr
dev    initrd.img.old media       root      srv       var
etc    lib        mnt        run       sys       vmlinuz
ubuntu@ip-172-31-9-124:~/test$

```

Now fix that fstab file

```

LABEL=cloudimg-rootfs / ext4 defaults,discard 0 0
UUID=fab584ec-df26-4941-be66-ac7d7655cc15 /home/ubuntu/partition ext4 defaults 0 0

```

```

ubuntu@ip-172-31-9-124:~$ umount /dev/xvdf1
umount: /home/ubuntu/test: umount failed: Operation not permitted.
ubuntu@ip-172-31-9-124:~$ sudo umount /dev/xvdf1
ubuntu@ip-172-31-9-124:~$

```

Now detach that EBS from A and attach to B



The screenshot shows the AWS Management Console interface. At the top, there's a 'Create Volume' button and an 'Actions' dropdown menu. The 'Actions' menu is open, showing options like 'Modify Volume', 'Create Snapshot', 'Delete Volume', 'Attach Volume', 'Detach Volume', 'Force Detach Volume' (highlighted in orange), 'Change Auto-Enable IO Setting', and 'Add/Edit Tags'. Below this, there's a table of EC2 instances. The instance 'EC2-B-AYUSH' is selected. Below the table, there's an 'Attach Volume' dialog box. The dialog box has a title bar 'Attach Volume' and a close button 'X'. It contains the following information: 'Volume' is 'vol-078e7a507da94e1e1 (EC2-B-AYUSH) in us-east-1c', 'Instance' is 'ayush in us-east-1c', and 'Device' is a list of devices: 'i-0debc0dc91669bd70 (EC2-A-AYUSH) (running)' and 'i-0cbec893772002125 (EC2-B-AYUSH) (stopped)'. At the bottom right of the dialog, there are 'Cancel' and 'Attach' buttons.

Attach Volume

Volume ⓘ vol-078e7a507da94e1e1 (EC2-B-AYUSH) in us-east-1c
Instance ⓘ i-0cbec893772002125 in us-east-1c
Device ⓘ /dev/sda
Linux Devices: /dev/sdf through /dev/sdp

Launch Instance ▼ Connect Actions ^

search : ayush Add filter

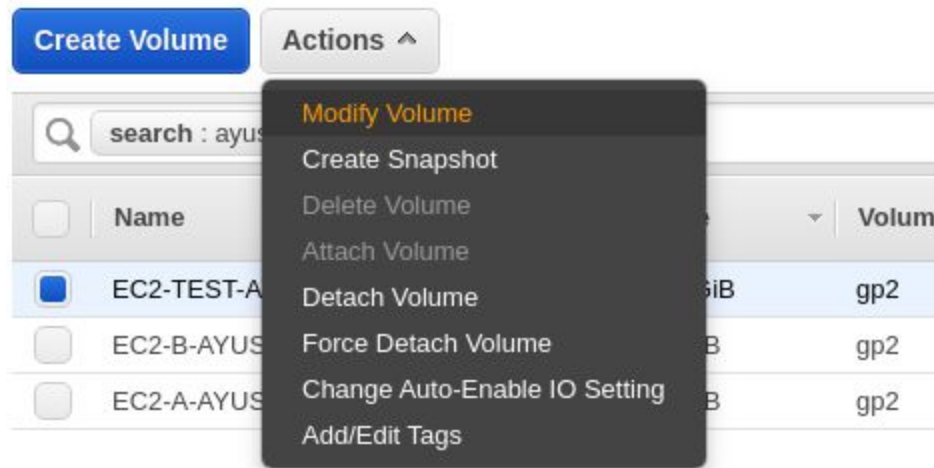
<input type="checkbox"/>	Name	Insta	Availability Zone	Instance State
<input checked="" type="checkbox"/>	EC2-B-AYUSH	i-0cbe		 stopped
<input type="checkbox"/>	EC2-A-AYUSH	i-0deb		 running

- Connect
- Get Windows Password
- Create Template From Instance
- Launch More Like This
- Instance State ▶ Start
- Instance Settings ▶ Stop
- Image ▶ Stop - Hibernate
- Networking ▶ Reboot
- CloudWatch Monitoring ▶ Terminate



6. Resize the EBS from 10 to 12GB

```
ubuntu@ip-172-31-202-140:~/partition$ lsblk
NAME        MAJ:MIN RM  SIZE RO TYPE MOUNTPOINT
loop0        7:0      0   89.1M  1 loop /snap/core/8268
loop1        7:1      0    18M   1 loop /snap/amazon-ssm-agent/1480
loop2        7:2      0   91.4M  1 loop /snap/core/8689
xvda        202:0     0     8G   0 disk
└─xvda1      202:1     0     8G   0 part /
xvdf        202:80    0    10G   0 disk
└─xvdf1      202:81    0    10G   0 part /home/ubuntu/partition
ubuntu@ip-172-31-202-140:~/partition$
```



Modify Volume ✕

Volume ID vol-0fe922d872da39c17

Volume Type General Purpose SSD (gp2) ⓘ

Size (Min: 1 GiB, Max: 16384 GiB) ⓘ

IOPS 100 / 3000 (Baseline of 3 IOPS per GiB with a minimum of 100 IOPS, burstable to 3000 IOPS) ⓘ

Cancel Modify

```
ubuntu@ip-172-31-202-140:~/partition$ lsblk
NAME        MAJ:MIN RM  SIZE RO TYPE MOUNTPOINT
loop0        7:0      0   89.1M  1 loop /snap/core/8268
loop1        7:1      0    18M   1 loop /snap/amazon-ssm-agent/1480
loop2        7:2      0   91.4M  1 loop /snap/core/8689
xvda         202:0     0     8G   0 disk
└─xvda1      202:1     0     8G   0 part /
xvdf         202:80    0    12G   0 disk
└─xvdf1      202:81    0    10G   0 part /home/ubuntu/partition
ubuntu@ip-172-31-202-140:~/partition$
```

7. SSH from one instance A to instance B.









Security Group: sg-0e9184152e3395b9c

Description	Inbound	Outbound	Tags
<div>Group name ayush-sg-a</div> <div>Group ID sg-0e9184152e3395b9c </div>			

Copy to clipboard

Edit in ayush-sg-b

Edit inbound rules ✕

Type 	Protocol 	Port Range 	Source 	Description 
Custom TCP F 	TCP	22	Custom  sg-0e9184152e3395b9c	e.g. SSH for Admin Desktop 
<div>Add Rule</div>				

NOTE: Any edits made on existing rules will result in the edited rule being deleted and a new rule created with the new details. This will cause traffic that depends on that rule to be dropped for a very brief period of time until the new rule can be created.

```
ayush@ayush:~/Downloads$ scp -i ayush-ec2.pem ayush-ec2.pem ubuntu@34.227.26.7:~/
The authenticity of host '34.227.26.7 (34.227.26.7)' can't be established.
ECDSA key fingerprint is SHA256:VXkge7tkUJ7WdF6pIkw7ntNrNRLJ0BMLTCXW07LgcxI.
Are you sure you want to continue connecting (yes/no)? yes
Warning: Permanently added '34.227.26.7' (ECDSA) to the list of known hosts.
ayush-ec2.pem                                100% 1696    6.0KB/s   00:00
```

SSH in EC2-A-AYUSH

```
ayush@ayush:~/Downloads$ ssh -i ayush-ec2.pem ubuntu@34.227.26.7
Welcome to Ubuntu 18.04.3 LTS (GNU/Linux 4.15.0-1057-aws x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:    https://landscape.canonical.com
 * Support:       https://ubuntu.com/advantage

System information as of Thu Feb 20 07:22:24 UTC 2020

System load:  0.0                       Processes:            88
Usage of /:   13.8% of 7.69GB           Users logged in:     0
Memory usage: 17%                       IP address for eth0: 172.31.9.124
Swap usage:   0%

 * Canonical Livepatch is available for installation.
   - Reduce system reboots and improve kernel security. Activate at:
     https://ubuntu.com/livepatch

0 packages can be updated.
0 updates are security updates.

To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.
```


Telnet through private ip

```
ubuntu@ip-172-31-9-124:~$ telnet 172.31.202.140 22
Trying 172.31.202.140...
Connected to 172.31.202.140.
Escape character is '^]'.
SSH-2.0-OpenSSH_7.6p1 Ubuntu-4ubuntu0.3

Protocol mismatch.
Connection closed by foreign host.
```

```
ubuntu@ip-172-31-9-124:~$ ls
ayush-ec2.pem
ubuntu@ip-172-31-9-124:~$ ssh -i ayush-ec2.pem ubuntu@172.31.202.140
The authenticity of host '172.31.202.140 (172.31.202.140)' can't be established.
ECDSA key fingerprint is SHA256:fxEaEKvTFZq9UD1QtQTS90XSzoDJyViKFiN9jgdkOzQ.
Are you sure you want to continue connecting (yes/no)? yes
Warning: Permanently added '172.31.202.140' (ECDSA) to the list of known hosts.
Welcome to Ubuntu 18.04.3 LTS (GNU/Linux 4.15.0-1057-aws x86_64)

* Documentation:  https://help.ubuntu.com
* Management:    https://landscape.canonical.com
* Support:       https://ubuntu.com/advantage
```

```
ubuntu@ip-172-31-202-140:~$ cd partition/
ubuntu@ip-172-31-202-140:~/partition$ ls
a1  a10  a2   a3   a4   a5   a6   a7   a8   a9   lost+found
ubuntu@ip-172-31-202-140:~/partition$
```

8. Copy the EBS in different region(oregon).

Create Volume Actions

search : ayush

Modify Volume
Create Snapshot
Delete Volume
Attach Volume
Detach Volume
Force Detach Volume
Change Auto-Enable IO Setting
Add/Edit Tags

Name	Size	Volume Type	IOPS
EC2-TEST-A	12 GiB	gp2	100
EC2-B-AYUSH	12 GiB	gp2	100
EC2-A-AYUSH	12 GiB	gp2	100

Create Snapshot

✓ Create Snapshot Request Succeeded

snap-058e659b1b5637470

Manage Fast Snapshot Restore

Close

Owned By Me

search : ayush

Add filter

	Name	Snapshot ID	Size	Description	Status
	SS-Region-Ayush	snap-058e659b1b5...	12 GiB	copying region in different region	completed

Create Snapshot

Actions ^

Owned By Me v

Name

SS-Region-Ayush

GiB

Delete

Create Volume

Manage Fast Snapshot Restore

Create Image

Copy

Modify Permissions

Add/Edit Tags

Copy Snapshot

This snapshot, **snap-058e659b1b5637470 (SS-Region-Ayush)**, will be copied to a new snapshot. Set the new snapshot settings below:

Destination Region

US West (Oregon) i

Description

[Copied snap-058e659b1b5637470 from us-east-1] copying regi i

Encryption

☐ Encrypt this snapshot i

Cancel

Copy

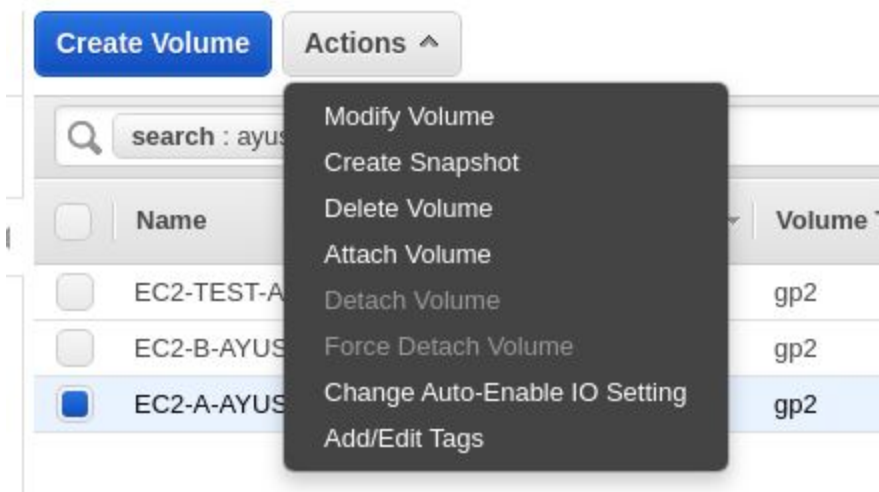
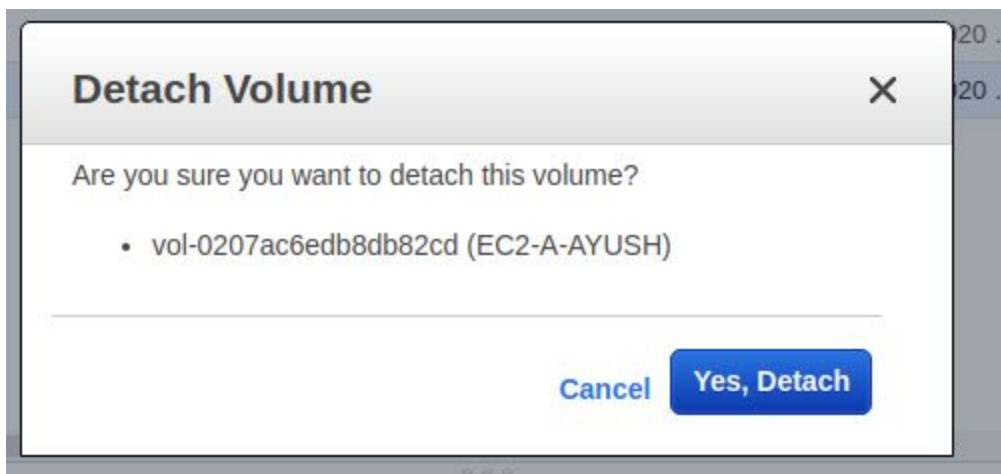
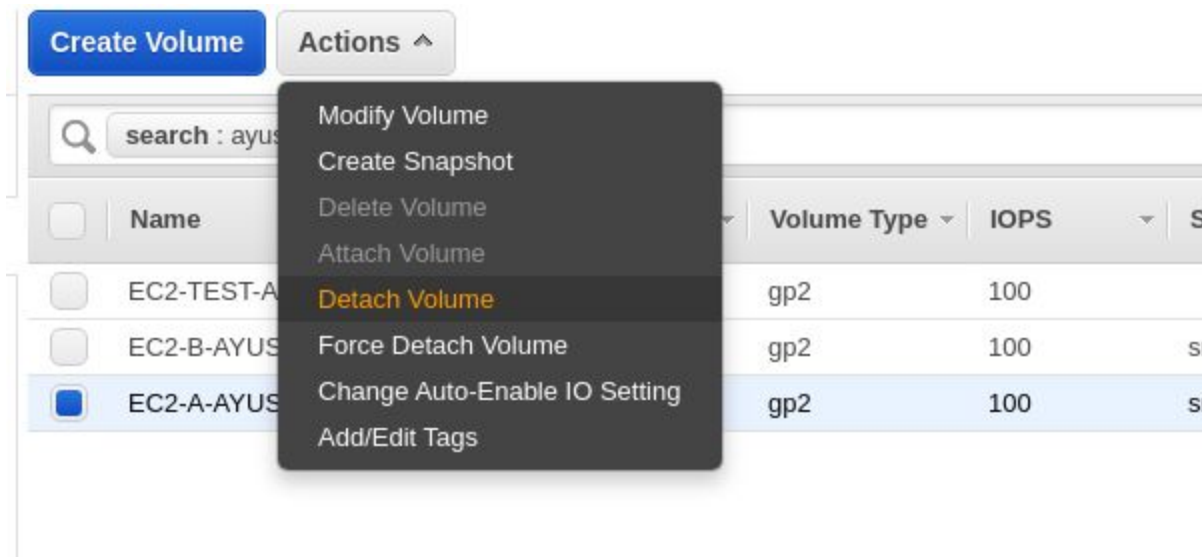
Error copying Snapshot

You are not authorized to perform this operation. Encoded authorization failure message:
hQkTSGky5ME2odEv1yiZW18dniCXlt28iV2GeU8XKb4SGiplrfre_qa1YKcGYTBo-
VoRfX9feI5dml3ql2TjQQGCaBAsqZ1hBOS6wEc3GY4nxDap9lsnsYUlx-fv6uCvnzkBE3QOaLSs7JALgjiYIf1wjL04VUOZO8NxR-
zUa7vMDL2rIIX_N7SBBVuomgm2MxQvMQioXTEk91PLKBrXweYC1QZK1eVvbliBPXhqe2J1RW1dBY0FTG_IRZ_S4GYCI4PXN
Lgf-bmlVBcHPbXaQ3cABYqLNGUzB6hpyYZb1vzqrHsDLLVItliDIm59rP4bqpc-
AoCRce9jP31Oqv3LDYLwXKBjcl9MJcx0siKSf4oyX5adSUUaPHaMB2A0X82aTW9wqbqp9O70qrfj9MUNzHnpwdGMHJIX5_2-
hXdxhU11jvh11H0lucGiLSoZwS1sQZ5cqFJj17mX5kH_7U8HzXKhw6UGUVQ3YsnDI9dske2XUBsYUOtL909kwYRIWly_S1PD01
YKacsmshlOiPl2a4l9ryGut-f15xeu

Cancel

Copy

9. Detach the root EBS, create its snapshot, than create the AMI and run it as instance such that nginx should be pre installed at the boot time of instance.



Create Snapshot

✓ Create Snapshot Request Succeeded

snap-086074afe1e4df9b6

Manage Fast Snapshot Restore

Close

Create Snapshot

Actions ^

Owned By Me ▾

Name

SS-Region-A...

test-SS

Delete

Create Volume

Manage Fast Snapshot Restore

Create Image

Copy

Modify Permissions

Add/Edit Tags

Desc

copyi

test s

Create Image from EBS Snapshot

×

Name test-AMI-ayush

Description

test-ami for testing

Architecture ⓘ

x86_64

Virtualization type ⓘ

Hardware-assisted virtualization

Root device name ⓘ

/dev/sda1

Kernel ID ⓘ

Use default

RAM disk ID ⓘ

Use default

Block Device Mappings

Volume Type ⓘ	Device ⓘ	Snapshot ⓘ	Size (GiB) ⓘ	Volume Type ⓘ	IOPS ⓘ	Throughput (MB/s) ⓘ	Delete on Termination ⓘ	Encrypted ⓘ
Root	/dev/sda1	snap-086074afe1e4df9b6	8	General Purpose S	100 / 3000	N/A	<input checked="" type="checkbox"/>	Not Encrypted

Add New Volume

Cancel

Create

Launch

Actions ▾

Owned by me ▾

search : ami-03414cb18d93b1f91 Add filter

	Name ▾	AMI Name ▲	AMI ID ▾	Source ▾	Owner ▾	Visibility ▾	Status
<input checked="" type="checkbox"/>	Test-ami-ayush	test-AMI-ayush	ami-03414cb18d93b1f91	187632318301/t...	187632318301	Private	available

Launch instance from that AMI

Number of instances ⓘ [Launch into Auto Scaling Group ⓘ](#)

Purchasing option ⓘ ☐ Request Spot instances

Network ⓘ ⓘ [Create new VPC](#)

Subnet ⓘ ⓘ [Create new subnet](#)
65495 IP Addresses available

Auto-assign Public IP ⓘ

Placement group ⓘ ☐ Add instance to placement group

Capacity Reservation ⓘ ⓘ [Create new Capacity Reservation](#)

IAM role ⓘ ⓘ [Create new IAM role](#)

Add user data

Advanced Details

User data ⓘ ☒ As text ☐ As file ☐ Input is already base64 encoded

```
#!/bin/bash  
sudo apt update -y  
sudo apt install nginx -y
```

Assign a security group: ☒ Create a new security group
☐ Select an existing security group

Security group name:

Description:

Type ⓘ	Protocol ⓘ	Port Range ⓘ	Source ⓘ
SSH	TCP	22	Custom 0.0.0.0/0
HTTP	TCP	80	Custom 0.0.0.0/0, ::/0

[Add Rule](#)

