

## 1.Create a new VPC with subnets,routetables,security groups,internet and NAT Gateways

created custom(own) vpc:

Filter VPCs

< 1 >

Name	VPC ID	State	IPv4 CIDR	IPv6 CIDR
myvpc	vpc-0094a94f358e1cbe6	Available	10.0.0.0/26	-
-	vpc-ad7bc0c6	Available	172.31.0.0/16	-

created 4 subnets:(each with 16 addresses):

which are named as  
mysubnet(1,2,3,4)

Subnets (7) Info

Filter subnets

< 1 >

	Name	Subnet ID	State	VPC	IPv4 CIDR	IPv6 CIDR
<input type="checkbox"/>	-	subnet-914d0ddd	Available	vpc-ad7bc0c6	172.31.32.0/20	-
<input type="checkbox"/>	mysubnet4	subnet-0cb93b32a56ac71ed	Available	vpc-0094a94f358e1cbe6   my...	10.0.0.32/28	-
<input type="checkbox"/>	mysubnet3	subnet-0119eb7d289575a45	Available	vpc-0094a94f358e1cbe6   my...	10.0.0.48/28	-
<input type="checkbox"/>	-	subnet-55a3ba2f	Available	vpc-ad7bc0c6	172.31.16.0/20	-
<input type="checkbox"/>	mysubnet2	subnet-0df85a5f2b2638e66	Available	vpc-0094a94f358e1cbe6   my...	10.0.0.16/28	-
<input type="checkbox"/>	mysubnet1	subnet-0717f5d4281bfa091	Available	vpc-0094a94f358e1cbe6   my...	10.0.0.0/28	-
<input type="checkbox"/>	-	subnet-455efd2e	Available	vpc-ad7bc0c6	172.31.0.0/20	-

created 2 routetables and 2 subnets to each:

which are named as myroutetables(1,2)

Create route table Actions

Filter by tags and attributes or search by keyword

1 to 4 of 4

	Name	Route Table ID	Explicit subnet association	Edge associations	Main	VPC ID	Owner
<input type="checkbox"/>	myroutetable2	rtb-048f31d775c498436	2 subnets	-	No	vpc-0094a94f358e1cbe6   ...	262879733429
<input type="checkbox"/>		rtb-07b4432a9f46277fd	-	-	Yes	vpc-0094a94f358e1cbe6   ...	262879733429
<input type="checkbox"/>	myroutetable	rtb-080fb7c4f6008af7f	2 subnets	-	No	vpc-0094a94f358e1cbe6   ...	262879733429
<input type="checkbox"/>		rtb-fa034091	-	-	Yes	vpc-ad7bc0c6	262879733429

created Internet Gateway:

Internet gateways (2) [Info](#)

Filter internet gateways

< 1 >

<input type="checkbox"/>	Name	Internet gateway ID	State	VPC ID	Owner
<input type="checkbox"/>	myIGC	igw-0bb28d0a05663bf99	Attached	vpc-0094a94f358e1cbe6   myvpc	262879733429
<input type="checkbox"/>	-	igw-ba9fbad2	Attached	vpc-ad7bc0c6	262879733429

aws Services

Search for services, features, marketplace products, and docs [Alt+S]

Ranjani Ohio Support

Route Tables > Edit routes

Edit routes

Destination	Target	Status	Propagated	
10.0.0.0/26	local	active	No	
0.0.0.0/0	igw-0bb28d0a05663bf99	active	No	

Add route

You must fix errors before saving.

\* Required

Cancel Save routes

created NATgateway:

NAT gateways (1/1) [Info](#)

Filter NAT gateways

< 1 >

<input checked="" type="radio"/>	Name	NAT gateway ID	State	State message	Elastic IP address	Private IP address
<input checked="" type="radio"/>	myngt	nat-075b5668b131993da	Available	-	3.20.33.148	10.0.0.20

2.create an instance with EBS and delete that instance and bring back that instance using EBS volumes?

Two instances created with EBS :

1.windows

2.linux

created snapshot (backup purpose) for linux instance:

aws Services ▾

Search for services, features, marketplace products, and docs [Alt+S]

Ranjani ▾

Volumes > Create Snapshot

### Create Snapshot

Volume vol-0ba9e6e268cdaddfc ⓘ

Description sanpcreate ⓘ

Encrypted Not Encrypted ⓘ

Key (128 characters maximum)	Value (256 characters maximum)
Name	snapLinux ⓘ

Add Tag 49 remaining (Up to 50 tags maximum)

\* Required

Cancel Create Snapshot

updated the size from 8gb to 10gb for the snapshot that we created:

[Snapshots](#) > Create Volume

## Create Volume

Snapshot ID snap-008520d2506e89d16

Volume Type General Purpose SSD (gp2) ⓘ

Size (GiB)  (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) ⓘ

Throughput (MB/s) Not applicable ⓘ

Availability Zone\* us-east-2b ⓘ

Fast Snapshot Restore Not enabled ⓘ

Encryption ☐ Encrypt this volume

**BElow Screenshot shows the 2 instances that we created:**

Instances (1/6) Info								
<input type="text" value="Filter instances"/>								
<div><div></div><div>1</div><div></div></div>								
<input type="checkbox"/>	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS
<input type="checkbox"/>	-	i-0fd281c85e47bca75	Stopped	t2.micro	-	No alarms +	us-east-2b	-
<input type="checkbox"/>	-	i-0099a2119310e12b4	Stopped	t2.micro	-	No alarms +	us-east-2c	-
<input type="checkbox"/>	Devops	i-0ab48c735f8451c33	Stopped	t2.micro	-	No alarms +	us-east-2c	-
<input type="checkbox"/>	Jenkins	i-0c6b9597e7bd10b70	Stopped	t2.micro	-	No alarms +	us-east-2a	-
<input checked="" type="checkbox"/>	Linux	i-0d6a46dec5e950959	Running	t2.micro	-	No alarms +	us-east-2b	ec2-3-129-5-32.us-
<input type="checkbox"/>	windows	i-04b71d8d1654d94e8	Running	t2.micro	-	No alarms +	us-east-2a	ec2-3-139-105-23C

**Before detach the volume stopping the instance and follwed by detached the volume:**

<input type="checkbox"/>	Name	Volume ID	Size	Volume Type	IOPS	Throughput	Snapshot	Created	Availability Zone	State
<input type="checkbox"/>		vol-02b585e...	10 GiB	gp2	100	-	snap-0356aa0...	January 19, 2021 at...	us-east-2b	available
<input type="checkbox"/>		vol-0b4d0b7...	10 GiB	gp2	100	-	snap-008520d...	January 19, 2021 at...	us-east-2b	available
<input type="checkbox"/>	windows	vol-08fe483d...	30 GiB	gp2	100	-	snap-042c10d...	January 19, 2021 at...	us-east-2a	in-use
<input checked="" type="checkbox"/>	linux	vol-0ba9e6e...	8 GiB	gp2	100	-	snap-08d9968...	January 19, 2021 at...	us-east-2b	in-use
<input type="checkbox"/>		vol-0967983...	8 GiB	gp2	100	-	snap-08d9968...	January 19, 2021 at...	us-east-2c	in-use
<input type="checkbox"/>	Jenkins	vol-0ace8a1...	8 GiB	gp2	100	-	snap-076c0da...	January 13, 2021 at...	us-east-2a	in-use
<input type="checkbox"/>	Devops	vol-09a9868...	8 GiB	gp2	100	-	snap-076c0da...	January 13, 2021 at...	us-east-2c	in-use
<input type="checkbox"/>		vol-0791b35...	8 GiB	gp2	100	-	snap-076c0da...	January 11, 2021 at...	us-east-2b	in-use

**Attached the volume to the instance(for linux):(Below screenshot shows the updated size from 8 to 10gb)**

Create Volume

Actions

Filter by tags and attributes or search by keyword

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<input type="checkbox"/>	Name	Volume ID	Size	Volume Type	IOPS	Throughput	Snapshot	Created	Availability Zone	State	Alarm Status
<input type="checkbox"/>		vol-02b585e...	10 GiB	gp2	100	-	snap-0356aa0...	January 19, 2021 at ...	us-east-2b	<span>●</span> available	None

**Below screen shot shows the updated windows instance size:(from 30 to 50 GB)**

Filter by tags and attributes or search by keyword										
<input type="checkbox"/>	Name	Volume ID	Size	Volume Type	IOPS	Throughput	Snapshot	Created	Availability Zone	State
<input type="checkbox"/>		vol-02b585e...	10 GiB	gp2	100	-	snap-0356aa0...	January 19, 2021 at...	us-east-2b	available
<input type="checkbox"/>		vol-0b4d0b7...	10 GiB	gp2	100	-	snap-008520d...	January 19, 2021 at...	us-east-2b	available
<input checked="" type="checkbox"/>	windows	vol-08fe483d...	50 GiB	gp2	150	-	snap-042c10d...	January 19, 2021 at...	us-east-2a	in-use - ...
<input type="checkbox"/>	linux	vol-0ba9e6e...	8 GiB	gp2	100	-	snap-08d9968...	January 19, 2021 at...	us-east-2b	available
<input type="checkbox"/>		vol-0967983...	8 GiB	gp2	100	-	snap-08d9968...	January 19, 2021 at...	us-east-2c	in-use
<input type="checkbox"/>	Jenkins	vol-0ace8a1...	8 GiB	gp2	100	-	snap-076c0da...	January 13, 2021 at...	us-east-2a	in-use
<input type="checkbox"/>	Devops	vol-09a9868...	8 GiB	gp2	100	-	snap-076c0da...	January 13, 2021 at...	us-east-2c	in-use
<input type="checkbox"/>		vol-0791b35...	8 GiB	gp2	100	-	snap-076c0da...	January 11, 2021 at...	us-east-2b	in-use