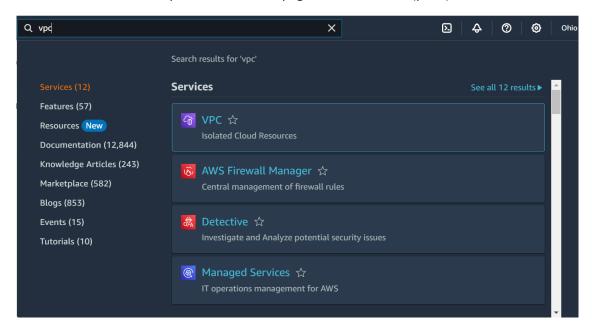
Assignment-1

Create a vpc with 2 subnets and 2 route tables and internet gateway

- Launch 3 instances
- Attach 1 instance with EBS
- Attach 2 instances with EFS

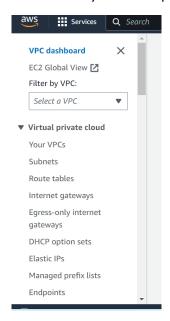
Create a virtual private cloud(VPC)

Search for VPC in search space of AWS homepage and click on VPC(pic-1)



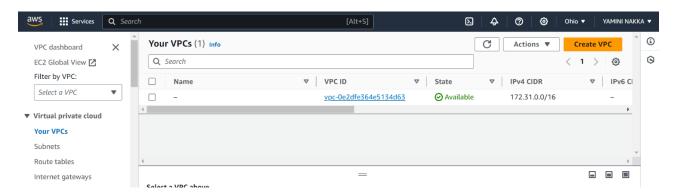
Pic-1

Now click on your VPCs option from VPC menu of VPC page(pic-2)



Pic-2

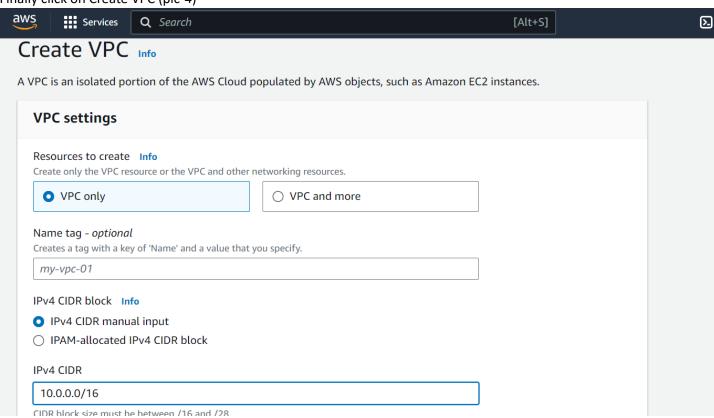
Now click on Create VPC to create our custom VPC (pic-3)



Pic-3

Now we have to give the details for our VPC and

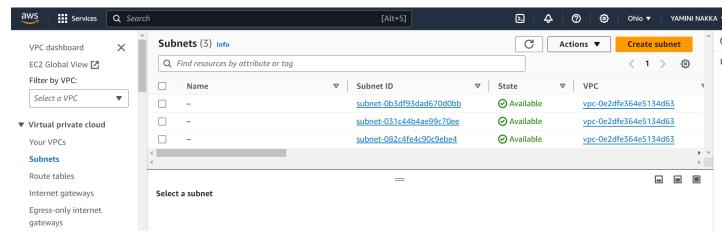
Finally click on Create VPC (pic-4)



Pic-4

Now created our custom VPC successfully

Now click on subnets to create Subnets to our custom VPC(pic-5)



Pic-5

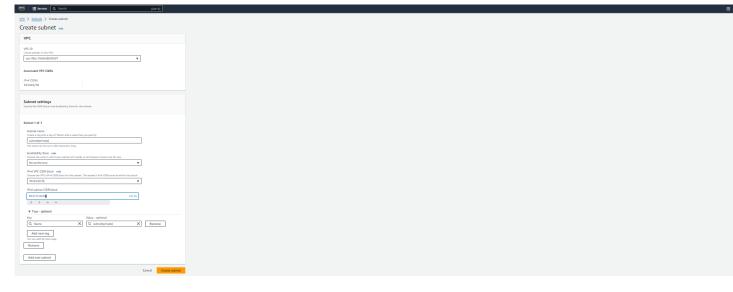
Then create two subnets public and private

We have give the our custom VPC-ID, subnet name , choose only one availability zone, IPV4 subnet CIDR block, then finally create subnet public (pic-6)

aw	S III Services Q Search	[Alt+S]	<u> </u>	9 4 0
VP	C > Subnets > Create subnet			
C	reate subnet Info			
	VPC			
	VPC ID Create subnets in this VPC.			
	vpc-06cc13e0ed8c0fa97 ▼			
	Associated VPC CIDRs			
	IPv4 CIDRs			
	10.0.0.0/16			
	Subnet settings			
	Specify the CIDR blocks and Availability Zone for the subnet.			
	Subnet 1 of 1			
	Subnet name			
	Create a tag with a key of 'Name' and a value that you specify.			
	hy-subnet-01 The name can be up to 256 characters long.			
	Availability Zone Info			
	Choose the zone in which your subnet will reside, or let Amazon choose one for you. No preference			
	IPv4 VPC CIDR block Infe			
	Choose the VPC's IPv4 CIDR block for the subnet. The subnet's IPv4 CIDR must lie within this block. 10.0.0.0/16			
	IPv4 subnet CIDR block 10.0.0.0/20			
	< > ^ ×			
	▼ Tags - optional			
	No tags associated with the resource.			
	Add new tag			

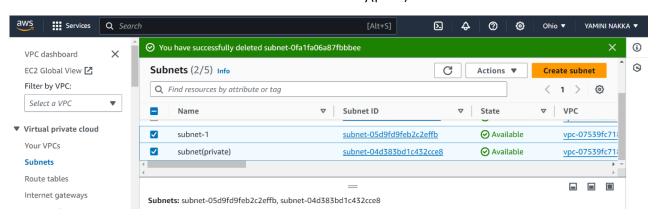
Pic-6

Private subnet(pic-7)



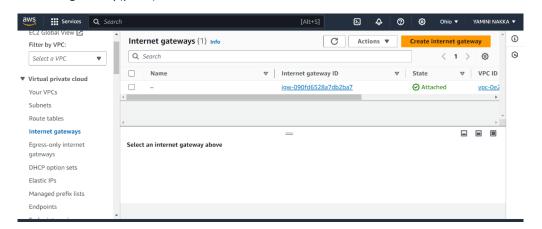
Pic-7

Now we created two subnets to our custom VPC successfully(pic-8)



Pic-8

Now click on internet gateways from menu bar and click on create Internet gateway(pic-9)



Pic-9

Now ,we have give name to our internet gateway and finally click on Internet gateway(pic-10)

aws	Services	Q Search			[Alt+S]		Σ	4	0	0	Ohio ▼	YAMINI NAKK	A ¥
VPC	> Internet gate	eways > Create internet	t gateway										(i)
An in			/ Info nects a VPC to the internet. To cre	eate a new int	ernet gateway specify the name	ne							0
Ir	iternet gatev	way settings											
T.	g-1 ags - optiona	ou assign to an AWS resource. E	you specify. Each tag consists of a key and an optic	onal value. You c	an use tags to search and filter								
K	-		Value - optional	~	Remove								
	Add new tag	X lags.	Q ig-1	×	Remove								
				Cancel	Create internet gateway								

Pic-10

Then click on actions and click on attach to VPC(pic-11)

aws	₩ Services	Q Search	[Alt+S]		Δ	\$ Ø	0	Ohio ▼	YAMINI NAKK
VPC	> Internet gat	eways > Attach to VPC (igw-07430a4896fce1ef0)							
At	tach to \	/PC (igw-07430a4896fce1ef0)) Info						
	PC tach an internet ga	teway to a VPC to enable the VPC to communicate with the interner	t. Specify the VPC to attach below.						
	vailable VPCs	ateway to this VPC.							
	Q vpc-07539fc	718de74993	×						
,	AWS Commar	d Line Interface command							
			Cancel Attach internet gateway						
D. Clo	udShell Feedb:	ck		© 2024, Amazo	n Web Services, Inc	or its affiliates.	Privacy	Terms	Cookie prefere

Pic-11

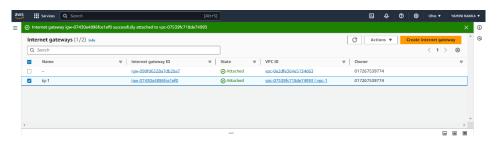
Now we have select our custom VPCs in that available VPCs so we already

Created it our custom VPC. And finally click on attach internet gateway(pic-12)



Pic-12

Now we created internet gateway to our custom VPC successfully(pic-13)



Pic-13

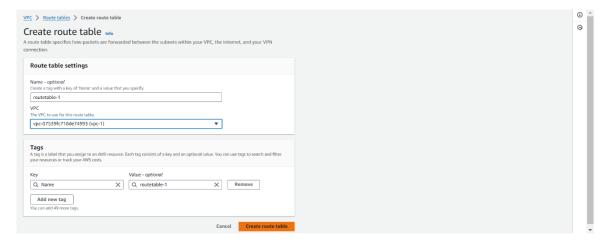
Now we have to create 2 route tables (one is public and another one is private).

Click on route tables from menu bar and click on create route table(pic-14)



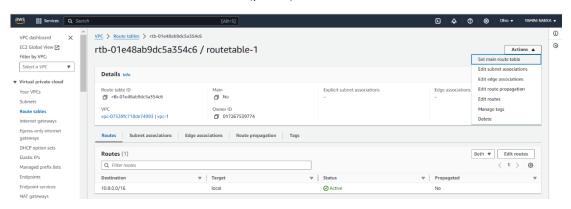
Pic-14

Then give name to route table and select our custom VPC and finally click on create route table(pic-15)



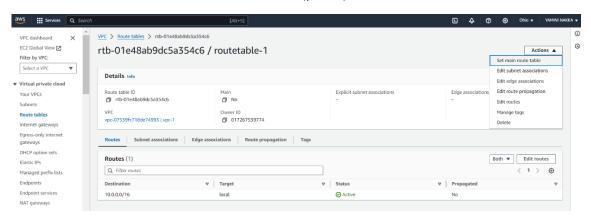
Pic-15

Now click on actions, click on edit routes (pic-16)



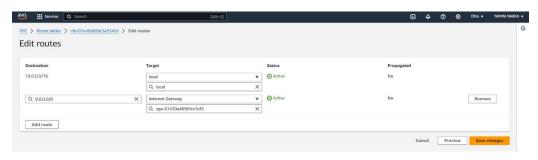
Pic-16

Click on add route.select 0.0.0.0/0 as destination(pic-17)



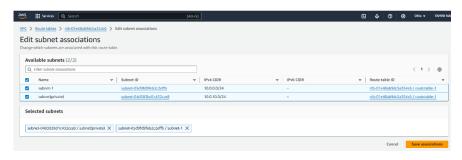
Pic-17

This ig and choose that one to our internet gateway(pic-18)



Pic-18

Then click on subnet associations and edit subnet associations(pic-20)



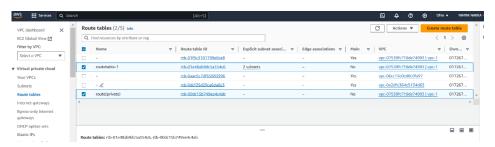
Pic-19

Create one more route table (private-subnet) and associate with private subnet

*Note:To the private route table, we are no giving internet gateway

Access to private, because we want to make it as private subnet

Now we created two route table to our custom vpc successfully(pic-20)



Pic-20

VPC with 2 subnets and 2 route tables and internet gateway successfully created.

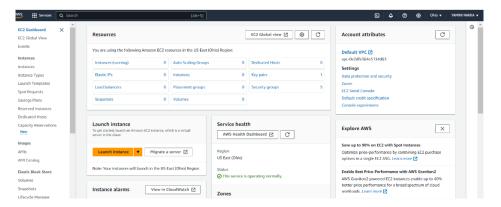
Create 3 EC2 instances

Search for EC2 in search space of AWS homepage and click on EC2(pic-21)



Pic-21

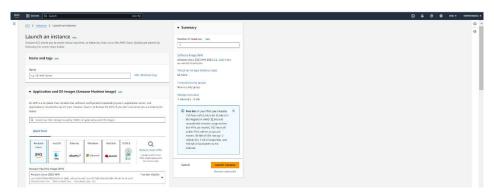
Now create one ec2 instance to the elastic block storage(EBS).(pic-24)



Pic-22

Then launch the instance of ec2 for ebs ,Now we have to give the details for our ec2(EBS) Instance and then we have mention some details like we have name ,os type to start, Instance type,key pair(login),network setting.

Finally click on launch instance(pic-23)



Pic-23

Now we created EBS EC2 instance successfully.

Now click on Elastic Block Store option from EC2 instance menu

Then click on volumes.(pic-24)

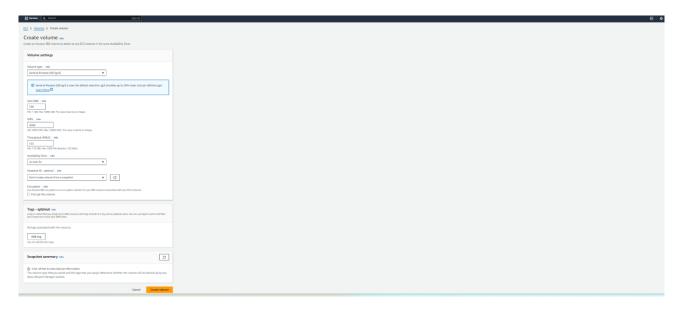


Pic-24

Create volume for EBS so that we have to give the details for volume

Type ,size,availability zone.

Finally click on create volume(pic-25)



Pic-25

Once the volume has been create click on actions in that attach volume(pic-26)

C2 > Volumes > vol-0a34bc5ad4b3aa954 > Attach volume						
Attach volume Info ttach a volume to an instance to use it as you would a regular physical hard disk drive.						
Basic details						
Volume ID O vol-Qa34bc5ad4b3aa954						
Availability Zone us-east-2a						
Instance Info V Only instances in the same Availability Zone as the selected volume are displayed.						
Device name Info Select a device name ▼						
	Cancel	Attach volume				

Pic-26