1)NECESSARY STEPS WITH OUTPUT TO CREATE VPC
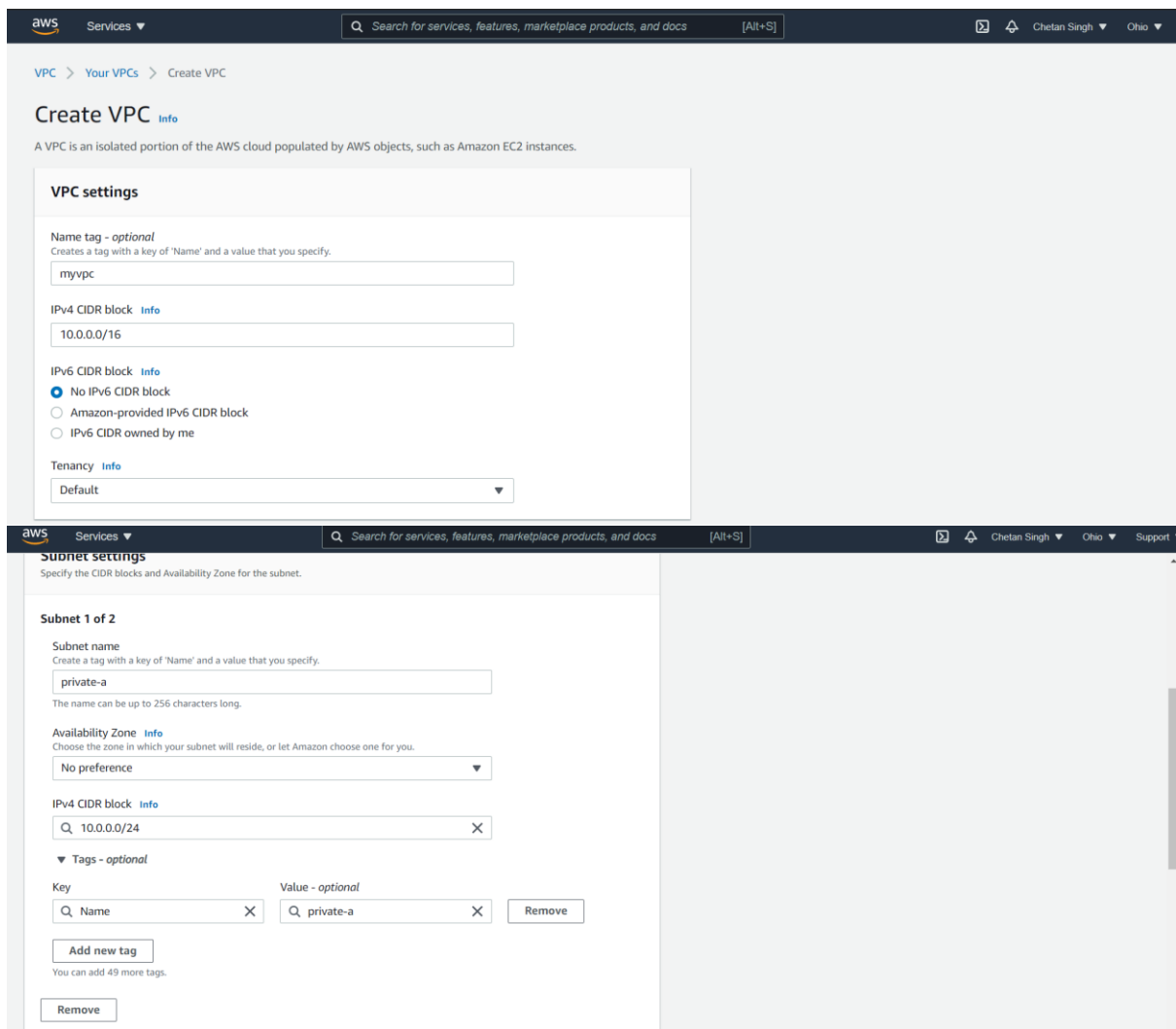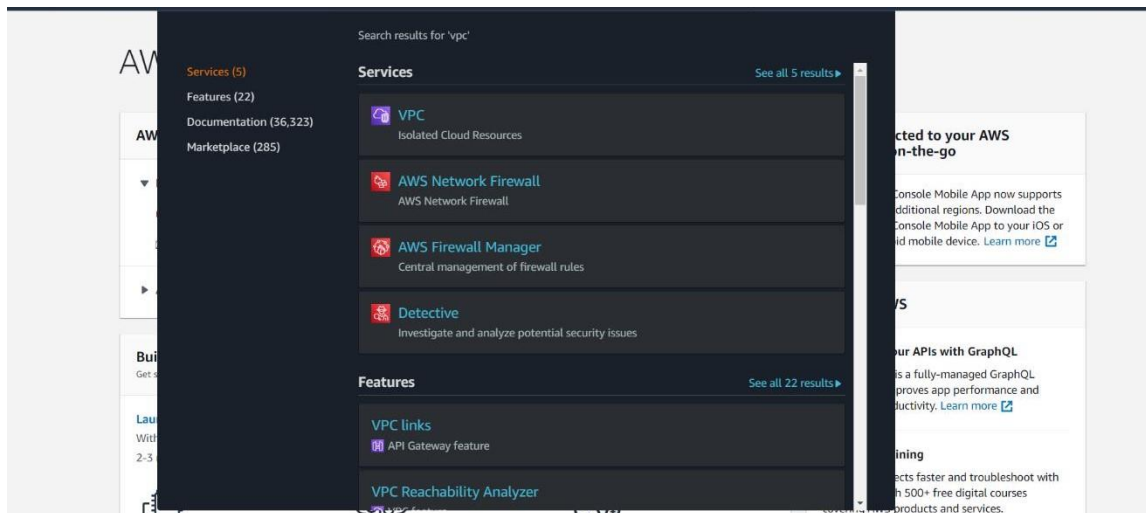
1) Write the necessary steps with the output screenshot to create VPC.

- Open AWS and sign in first.
- Search VPC, and click on it.
- Click on create VPC
- Type a name for your VPC. Select the subnet.
- Create two subnet for VPC and enter the name, key and value for subnet.
- Click on Add new Subnet.
- Create Route table and give name.
- Select VPC which we created in step 4.
- Create Internet gateway by providing name, key and value and attach it to available VPC
- In last, Create NAT gateway and Assign it on Elastic IP address.
- Your VPC has been created.

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VPC
Isolated Cloud Resources

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Features   See all 22 results ▶

VPC links
API Gateway feature

VPC Reachability Analyzer

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VPC › Your VPCs › Create VPC

Create VPC Info

A VPC is an isolated portion of the AWS cloud populated by AWS objects, such as Amazon EC2 instances.

VPC settings

Name tag - *optional*
Creates a tag with a key of 'Name' and a value that you specify.

myvpc

IPv4 CIDR block Info

10.0.0.0/16

IPv6 CIDR block Info
- ● No IPv6 CIDR block
- ○ Amazon-provided IPv6 CIDR block
- ○ IPv6 CIDR owned by me

Tenancy Info

Default   ▼

---

aws   Services ▼   Search for services, features, marketplace products, and docs   [Alt+S]   ⬚ ⬠ Chetan Singh ▼   Ohio ▼   Support ▼

Subnet settings
Specify the CIDR blocks and Availability Zone for the subnet.

Subnet 1 of 2

Subnet name
Create a tag with a key of 'Name' and a value that you specify.

private-a

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 CIDR block Info

🔍 10.0.0.0/24   ✕

▼ Tags - *optional*

Key   Value - *optional*

🔍 Name   ✕   🔍 private-a   ✕   Remove

Add new tag

You can add 49 more tags.

Remove

Subnet 2 of 2

Subnet name
Create a tag with a key of 'Name' and a value that you specify.

private-c

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 CIDR block   Info

Q 10.0.0.16/28   ✕

▼ Tags - *optional*

Key	Value - *optional*	
Q Name ✕	Q private-c ✕	Remove

Add new tag

You can add 49 more tags.

Remove

Add new subnet

Route Tables > Create route table

Create route table

A route table specifies how packets are forwarded between the subnets within your VPC, the internet, and your VPN connection.

Name tag   private-Rt   ❶

VPC*   vpc-0b9c77a885a7b7927   ▼   ↻ ❶

Key (128 characters maximum)	Value (256 characters maximum)
This resource currently has no tags	

Add Tag   50 remaining   (Up to 50 tags maximum)

* Required   Cancel   **Create**

Route Tables > Edit subnet associations

Edit subnet associations

Route table   rtb-01ea4bdf11c9050d4 (private-Rt)

Associated subnets   subnet-00bb4a8056405b9cc ⊗

Q Filter by attributes or search by keyword |< < 1 to 1 of 1 > >|

☐	Subnet ID	IPv4 CIDR	IPv6 CIDR	Current Route Table
☑	subnet-00bb4a8056405b9cc | private-a	10.0.0.0/24	-	Main

* Required   Cancel   **Save**

VPC › Internet gateways › Create internet gateway

Create internet gateway Info

An internet gateway is a virtual router that connects a VPC to the internet. To create a new internet gateway specify the name for the gateway below.

Internet gateway settings

Name tag
Creates a tag with a key of 'Name' and a value that you specify.

```
myIGW
```

Tags - *optional*

A tag is a label that you assign to an AWS resource. Each tag consists of a key and an optional value. You can use tags to search and filter your resources or track your AWS costs.

Key	Value - *optional*	
🔍 Name ✕	🔍 myIGW ✕	Remove

Add new tag

You can add 49 more tags.

Cancel   **Create internet gateway**

VPC › Internet gateways › Attach to VPC (igw-085ff1fc2337d2f18)

Attach to VPC (igw-085ff1fc2337d2f18) Info

VPC

Attach an internet gateway to a VPC to enable the VPC to communicate with the internet. Specify the VPC to attach below.

Available VPCs
Attach the internet gateway to this VPC.

```
🔍 vpc-0b9c77a885a7b7927                                           ✕
```

▶ AWS Command Line Interface command

Cancel   **Attach internet gateway**

⊘ Elastic IP address 3.130.96.94 (eipalloc-05ceebf0c0d6f3fbd) allocated.

VPC › NAT gateways › Create NAT gateway

Create NAT gateway Info

Create a NAT gateway and assign it an Elastic IP address.

NAT gateway settings

Name - *optional*
Create a tag with a key of 'Name' and a value that you specify.

```
my-nat-gateway-01
```

The name can be up to 256 characters long.

Subnet
Select a public subnet in which to create the NAT gateway.

```
subnet-00bb4a8056405b9cc (private-a)                              ▼
```

Elastic IP allocation ID Info
Assign an Elastic IP address to the NAT gateway.

eipalloc-05ceebf0c0d6f3fbd ▼	Allocate Elastic IP

Route Tables > Edit routes

Edit routes

Destination	Target	Status	Propagated	
10.0.0.0/16	local ▼	active	No	
0.0.0.0/0	nat-0ed7b302157c5a692 ▼		No	✕

Add route

* Required   Cancel   Save routes

● New VPC Experience
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Route Tables
Internet Gateways New
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Endpoints
Endpoint Services
NAT Gateways New
Peering Connections

▼ SECURITY
Network ACLs New
Security Groups New

Your VPCs (1/2) Info   ⟳   Actions ▼   **Create VPC**

🔍 Filter VPCs   < 1 >   ⚙

☐	Name	▽	VPC ID	▽	State	▽	IPv4 CIDR	IPv6 CIDR
☑	myvpc		vpc-0b9c77a885a7b7927		⊘ Available		10.0.0.0/16	–
☐	–		vpc-a2ff6dc9		⊘ Available		172.31.0.0/16	–

═

Details

VPC ID	State	DNS hostnames	DNS resolution
▭ vpc-0b9c77a885a7b7927	⊘ Available	Disabled	Enabled
Tenancy	DHCP options set	Main route table	Main network ACL
Default	dopt-9ef286f5	rtb-05727fd38ef5521b0	acl-0d37046f472d7938d
Default VPC	IPv4 CIDR	IPv6 pool	IPv6 CIDR
No	10.0.0.0/16	–	–