Create a Virtual Private Cloud using CLI

Create VPC using CLI

```
C:\Users\rohan>aws ec2 create-vpc --cidr-block 10.0.0.0/24 --query Vpc.VpcId --output text
vpc-0b420648437c3a7be
```

Create a subnet

```
C:\Users\rohan>aws ec2 create-subnet --vpc-id vpc-0b420648437c3a7be --cidr-block 10.0.0.0/24
 --availability-zone us-east-1a --query Subnet.SubnetId --output text
subnet-0a45434e978f36ed1
```

Create an internet gateway

```
C:\Users\rohan>aws ec2 create-internet-gateway --query InternetGateway.InternetGatewayId --o
utput text
igw-01423a137b4c46a73
```

Attach the internet gateway to your VPC

```
C:\Users\rohan>aws ec2 attach-internet-gateway --vpc-id vpc-0b420648437c3a7be --internet-gat
eway-id igw-01423a137b4c46a73
```

Create a custom route table

```
C:\Users\rohan>aws ec2 create-route-table --vpc-id vpc-0b420648437c3a7be --query RouteTable.
RouteTableId --output text
rtb-0b3e259885c36bb2d
```

Create a route in the route table that sends all IPv4 traffic to the internet gateway

```
C:\Users\rohan>aws ec2 create-route --route-table-id rtb-0b3e259885c36bb2d --destination-cid
r-block 0.0.0.0/0 --gateway-id igw-01423a137b4c46a73
{
    "Return": true
}
```
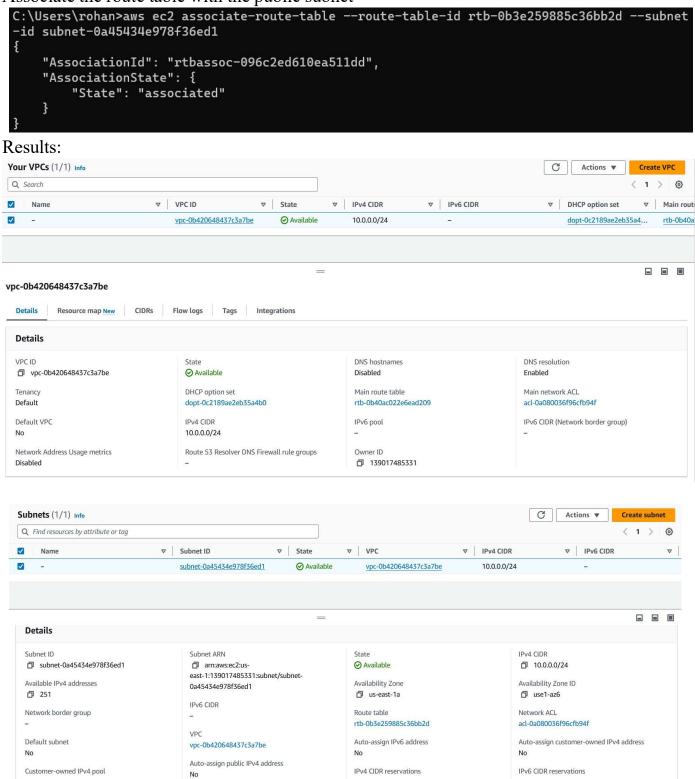
Associate the route table with the public subnet

```
C:\Users\rohan>aws ec2 associate-route-table --route-table-id rtb-0b3e259885c36bb2d --subnet
-id subnet-0a45434e978f36ed1
{
    "AssociationId": "rtbassoc-096c2ed610ea511dd",
    "AssociationState": {
        "State": "associated"
    }
}
```

Results:

Your VPCs (1/1) Info

Actions ▼   Create VPC

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	Name	VPC ID	State	IPv4 CIDR	IPv6 CIDR	DHCP option set	Main rout
✓	–	vpc-0b420648437c3a7be	⊘ Available	10.0.0.0/24	–	dopt-0c2189ae2eb35a4...	rtb-0b40a

vpc-0b420648437c3a7be

Details | Resource map New | CIDRs | Flow logs | Tags | Integrations

Details

VPC ID	State	DNS hostnames	DNS resolution
vpc-0b420648437c3a7be	⊘ Available	Disabled	Enabled
Tenancy	DHCP option set	Main route table	Main network ACL
Default	dopt-0c2189ae2eb35a4b0	rtb-0b40ac022e6ead209	acl-0a080036f96cfb94f
Default VPC	IPv4 CIDR	IPv6 pool	IPv6 CIDR (Network border group)
No	10.0.0.0/24	–	–
Network Address Usage metrics	Route 53 Resolver DNS Firewall rule groups	Owner ID	
Disabled	–	139017485331	

Subnets (1/1) Info

Actions ▼   Create subnet

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	Name	Subnet ID	State	VPC	IPv4 CIDR	IPv6 CIDR
✓	–	subnet-0a45434e978f36ed1	⊘ Available	vpc-0b420648437c3a7be	10.0.0.0/24	–

Details

Subnet ID	Subnet ARN	State	IPv4 CIDR
subnet-0a45434e978f36ed1	arn:aws:ec2:us-east-1:139017485331:subnet/subnet-0a45434e978f36ed1	⊘ Available	10.0.0.0/24
Available IPv4 addresses		Availability Zone	Availability Zone ID
251	IPv6 CIDR	us-east-1a	use1-az6
Network border group	–	Route table	Network ACL
–	VPC	rtb-0b3e259885c36bb2d	acl-0a080036f96cfb94f
Default subnet	vpc-0b420648437c3a7be	Auto-assign IPv6 address	Auto-assign customer-owned IPv4 address
No	Auto-assign public IPv4 address	No	No
Customer-owned IPv4 pool	No	IPv4 CIDR reservations	IPv6 CIDR reservations
–	Outpost ID	–	–
IPv6-only	–	Resource name DNS A record	Resource name DNS AAAA record
No	Hostname type	Disabled	Disabled

Internet gateways (1/1) Info

Actions ▼ Create internet gateway

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☑	Name	▽	Internet gateway ID	▽	State	▽	VPC ID	▽	Owner
☑	–		igw-01423a137b4c46a73		⊘ Attached		vpc-0b420648437c3a7be		139017485331

═

igw-01423a137b4c46a73

Details Tags

Details

Internet gateway ID	State	VPC ID	Owner
⬀ igw-01423a137b4c46a73	⊘ Attached	vpc-0b420648437c3a7be	⬀ 139017485331