aws ec2 create-vpc --cidr-block 10.0.0.0/16 --query Vpc.VpcId --output text

```
bootuser@bootcamp01:~$ aws ec2 create-vpc --cidr-block 10.0.0.0/16 --query Vpc.VpcId --output text
vpc-02af3acbfa2daff70
```

aws ec2 create-subnet --vpc-id vpc-02af3acbfa2daff70 --cidr-block 10.0.5.0/24

```
bootuser@bootcamp01:~$ aws ec2 create-subnet --vpc-id vpc-02af3acbfa2daff70 --cidr-block 10.0.5.0/24
SUBNET  False   eu-west-1b      euw1-az1        251     10.0.5.0/24     False   False   False   006921246751    available       arn:aws:ec2:eu-west-1:006921246751:subne
t/subnet-0dcc3bd786e3de175      subnet-0dcc3bd786e3de175        vpc-02af3acbfa2daff70
PRIVATEDNSNAMEOPTIONSONLAUNCH   False   False   ip-name
```

aws ec2 create-internet-gateway --query InternetGateway.InternetGatewayId --output text

```
bootuser@bootcamp01:~$ aws ec2 create-internet-gateway --query InternetGateway.InternetGatewayId --output text
igw-0fdc2291a64fe5a8f
```

aws ec2 attach-internet-gateway --vpc-id vpc-02af3acbfa2daff70 --internet-gateway-id igw-0fdc2291a64fe5a8f

```
bootuser@bootcamp01:~$ aws ec2 attach-internet-gateway --vpc-id vpc-02af3acbfa2daff70 --internet-gateway-id igw-0fdc2291a64fe5a8f
bootuser@bootcamp01:~$
```

aws ec2 create-route-table --vpc-id vpc-02af3acbfa2daff70 --query RouteTable.RouteTableId --output text

```
bootuser@bootcamp01:~$ aws ec2 create-route-table --vpc-id vpc-02af3acbfa2daff70 --query RouteTable.RouteTableId --output text
rtb-02a23879aabb66b2f
```

aws ec2 create-route --route-table-id rtb-02a23879aabb66b2f --destination-cidr-block 0.0.0.0/0 --gateway-id igw-0fdc2291a64fe5a8f

```
bootuser@bootcamp01:~$ aws ec2 create-route --route-table-id rtb-02a23879aabb66b2f --destination-cidr-block 0.0.0.0/0 --gateway-id igw-0fdc2291a64fe5a8f
True
```

aws ec2 describe-route-tables --route-table-id rtb-02a23879aabb66b2f

```
bootuser@bootcamp01:~$ aws ec2 describe-route-tables --route-table-id rtb-02a23879aabb66b2f
ROUTETABLES     006921246751    rtb-02a23879aabb66b2f   vpc-02af3acbfa2daff70
ROUTES  10.0.0.0/16     local   CreateRouteTable        active
ROUTES  0.0.0.0/0       igw-0fdc2291a64fe5a8f   CreateRoute     active
```

aws ec2 describe-route-tables --route-table-id rtb-02a23879aabb66b2f

```
bootuser@bootcamp01:~$ aws ec2 describe-subnets --filters "Name=vpc-id,Values=vpc-02af3acbfa2daff70" --query "Subnets[*].{ID:SubnetId,CIDR:CidrBlock}"
10.0.5.0/24     subnet-0dcc3bd786e3de175
```

aws ec2 associate-route-table --subnet-id subnet-0dcc3bd786e3de175 --route-table-id rtb-02a23879aabb66b2f

```
bootuser@bootcamp01:~$ aws ec2 associate-route-table  --subnet-id subnet-0dcc3bd786e3de175 --route-table-id rtb-02a23879aabb66b2f
rtbassoc-0266134f4fe04c0ab
ASSOCIATIONSTATE        associated
```

aws ec2 modify-subnet-attribute --subnet-id subnet-0dcc3bd786e3de175 --map-public-ip-on-launch

```
bootuser@bootcamp01:~$ aws ec2 modify-subnet-attribute --subnet-id subnet-0dcc3bd786e3de175 --map-public-ip-on-launch
bootuser@bootcamp01:~$
```