

# Mahmoud Ahmed Elsayed Mohamed Abdelhak

## group 4

### Project 9: Creating an Amazon Virtual Private Cloud (VPC)

#### Access and Configure AWS CLI

##### 1. Open the Lab Environment

- Start your lab session as directed.

##### 2. Run the Lab

- Initiate the lab session by clicking the "Run Lab" button.

##### 3. Access AWS CLI

- Navigate to the AWS Details panel.
- Locate the AWS CLI section and click "Show" to reveal the CLI credentials.

#### AWS CLI:

Copy and paste the following into ~/.aws/credentials

```
[default]

aws_access_key_id=ASIAxHLQ2PRMZWM3WZS3

aws_secret_access_key=Iaj9aC5nA0FeFVrvgt4buNgXfnZq+Wv4hrKGeZMU

aws_session_token=IQoJb3JpZ2luX2VjE0n////////wEaCXVzLXdlc3QtMiJHMEUCIA0v0
C4g8l enx15tttYNvJb1b2oPfZu5zDDTvfc1/ADjAiEA8a3RK22iK0iRtcu+zpa175zCEHkSitsz
x5K9d5rwGB4qsQIIQhABGgw00TY4NDIyMTAz0TMiDEZykTA1VTlICoFG/Cq0Ald6wrFxxTXU9Dc
AnwutpaUUa6RuzB1fiKQoGLaV30ULSAyGDwRt1jPwwe1VdEMfZos6ueX11UqkFI4Pq3KpcyAXTp
fQaVqF1DdCfnQCigAg2LdNr1w+/E2ifCDmfbMUZsG7uGGosvJpo8PEb0wVJ+fM7WsIj3xTv4Wm
DjXLRZgqiX7sVagNq0Hdg0shjCvX679RsrveMF7JdlrR5yYJuwtEqaFgZe4cQNFJz8709Rgt56N
FFxmuXPEpRIuTz7hcrHF27nPqTUy0JEY8uDWkUHRwnieXVy3VAa1lVWg3cHCAbCuYhY7TKxLD0X
N7ugCD0qVh6m6fHbqUG9W6WQqfPKEQ4IwjVZYbTz2hKkx+zDI3JO4BjqdAS80PL1MVq58/569ys
rjaoWZfYZzXoGob9H5GIwVUff2LQhx8flekyiJAD40B7h0BQ7TSr6VhdSCDDPd5S3JTF2+jJ2mik
0AQpZq4R/AKxjsdeIwa/vjjmX7Gy5gE/d0mDctkmT15yDcYvWnuxddVx5qHEhujn5+xEPp9rScn
PgYy/HirsyFEE0I42cnyeiaGeBMtj7thFgXT48zFm1w=
```

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```
Select Administrator: Command Prompt
Microsoft Windows [Version 10.0.19045.4894]
(c) Microsoft Corporation. All rights reserved.

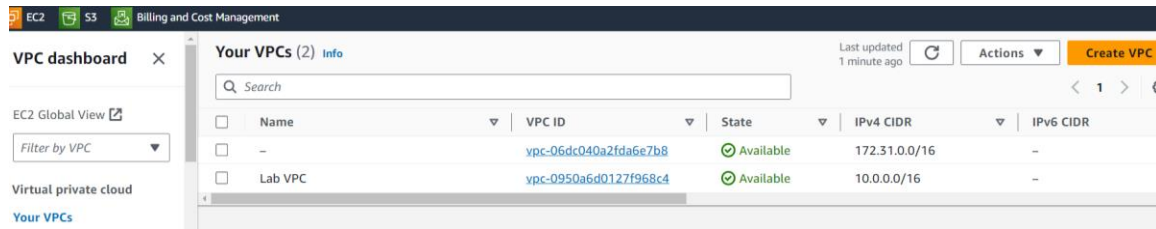
C:\Users\Compumart>aws configure
AWS Access Key ID [*****G37W]: ASIAXHLQ2PRMZWM3WZS3
AWS Secret Access Key [*****7/2G]: IaJ9aC5nA0FeFVrvgt4buNgXfnZq+Wv4hrKGeZMU
Default region name [us-east-1]: us-east-1
Default output format [json]: json
```

## Task 1: Creating a VPC

```
C:\Users\Compumart>aws ec2 create-vpc --cidr-block 10.0.0.0/16 --tag-specifications "ResourceType=vpc,Tags=[{Key=Name,Value=Lab VPC}]"
{
  "Vpc": {
    "CidrBlock": "10.0.0.0/16",
    "DhcpOptionsId": "dopt-0fabfee6c769769ad",
    "State": "pending",
    "VpcId": "vpc-0950a6d0127f968c4",
    "OwnerId": "496842210393",
    "InstanceTenancy": "default",
    "Ipv6CidrBlockAssociationSet": [],
    "CidrBlockAssociationSet": [
      {
        "AssociationId": "vpc-cidr-assoc-026eba95ea96a43aa",
        "CidrBlock": "10.0.0.0/16",
        "CidrBlockState": {
          "State": "associated"
        }
      }
    ]
  },
  "IsDefault": false,
  "Tags": [
    {
      "Key": "Name",
      "Value": "Lab VPC"
    }
  ]
}
```

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## Task 2: Creating Subnets

### • Task 2.1: Creating a Public Subnet

```
C:\Users\Compumart>aws ec2 modify-vpc-attribute --vpc-id vpc-0950a6d0127f968c4 --enable-dns-support
C:\Users\Compumart>aws ec2 modify-vpc-attribute --vpc-id vpc-0950a6d0127f968c4 --enable-dns-hostnames
C:\Users\Compumart>aws ec2 create-subnet --vpc-id vpc-0950a6d0127f968c4 --cidr-block 10.0.0.0/24 --availability-zone us-east-1a --tag-specifications "ResourceType=subnet,Tags=[{Key=Name,Value=Public Subnet}]"
{
  "Subnet": {
    "AvailabilityZone": "us-east-1a",
    "AvailabilityZoneId": "use1-az2",
    "AvailableIpAddressCount": 251,
    "CidrBlock": "10.0.0.0/24",
    "DefaultForAz": false,
    "MapPublicIpOnLaunch": false,
    "State": "available",
    "SubnetId": "subnet-0948afb12034ea524",
    "VpcId": "vpc-0950a6d0127f968c4",
    "OwnerId": "496842210393",
    "AssignIpv6AddressOnCreation": false,
    "Ipv6CidrBlockAssociationSet": [],
    "Tags": [
      {
        "Key": "Name",
        "Value": "Public Subnet"
      }
    ],
    "SubnetArn": "arn:aws:ec2:us-east-1:496842210393:subnet/subnet-0948afb12034ea524",
    "EnableDns64": false,
    "Ipv6Native": false,
    "PrivateDnsNameOptionsOnLaunch": {
      "HostnameType": "ip-name",
      "EnableResourceNameDnsARecord": false,
      "EnableResourceNameDnsAAAARecord": false
    }
  }
}
```

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- Task 2.2: Creating a Private Subnet

```
Select Administrator: Command Prompt
C:\Users\Compumart>aws ec2 create-subnet --vpc-id vpc-0950a6d0127f968c4 --cidr-block 10.0.2.0/23 --availability-zone us-east-1a --tag-specifications "ResourceType=subnets,Tags=[{Key=Name,Value=Private Subnet}]"
{
  "Subnet": {
    "AvailabilityZone": "us-east-1a",
    "AvailabilityZoneId": "usel-az2",
    "AvailableIpAddressCount": 507,
    "CidrBlock": "10.0.2.0/23",
    "DefaultForAz": false,
    "MapPublicIpOnLaunch": false,
    "State": "available",
    "SubnetId": "subnet-0b99dc58766a80667",
    "VpcId": "vpc-0950a6d0127f968c4",
    "OwnerId": "496842210393",
    "AssignIpv6AddressOnCreation": false,
    "Ipv6CidrBlockAssociationSet": [],
    "Tags": [
      {
        "Key": "Name",
        "Value": "Private Subnet"
      }
    ],
    "SubnetArn": "arn:aws:ec2:us-east-1:496842210393:subnet/subnet-0b99dc58766a80667",
    "EnableDns64": false,
    "Ipv6Native": false,
    "PrivateDnsNameOptionsOnLaunch": {
      "HostnameType": "ip-name",
      "EnableResourceNameDnsARecord": false,
      "EnableResourceNameDnsAAAARecord": false
    }
  }
}
```

S3 Billing and Cost Management

Subnets (8) Info Last updated 2 minutes ago Actions Create subnet

Find resources by attribute or tag

<input type="checkbox"/>	Name	Subnet ID	State	VPC	IPv4
<input type="checkbox"/>	Public Subnet	<a href="#">subnet-0948afb12034ea524</a>	Available	<a href="#">vpc-0950a6d0127f968c4</a>   <a href="#">Lab ...</a>	10.0.1
<input type="checkbox"/>	-	<a href="#">subnet-0d079b471c1aa6171</a>	Available	<a href="#">vpc-06dc040a2fda6e7b8</a>	172.3
<input type="checkbox"/>	Private Subnet	<a href="#">subnet-0b99dc58766a80667</a>	Available	<a href="#">vpc-0950a6d0127f968c4</a>   <a href="#">Lab ...</a>	10.0.:
<input type="checkbox"/>	-	<a href="#">subnet-077b9051547689778</a>	Available	<a href="#">vpc-06dc040a2fda6e7b8</a>	172.3
<input type="checkbox"/>	-	<a href="#">subnet-04f370753e72856cd</a>	Available	<a href="#">vpc-06dc040a2fda6e7b8</a>	172.3
<input type="checkbox"/>	-	<a href="#">subnet-052d8a06e24a61caa</a>	Available	<a href="#">vpc-06dc040a2fda6e7b8</a>	172.3

Select a subnet

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### Task 3: Creating an Internet Gateway

```
Select Administrator: Command Prompt

C:\Users\Compumart>aws ec2 modify-subnet-attribute --subnet-id subnet-0948afb12034ea524 --map-public-ip-on-launch

C:\Users\Compumart>aws ec2 create-internet-gateway --tag-specifications "ResourceType=internet-gateway,Tags=[{Key=Name,Value=Lab IGW}]"
{
  "InternetGateway": {
    "Attachments": [],
    "InternetGatewayId": "igw-05b8c2fbbefa24a52",
    "OwnerId": "496842210393",
    "Tags": [
      {
        "Key": "Name",
        "Value": "Lab IGW"
      }
    ]
  }
}
```

VPC > Route tables > rtb-0ddff7ef59dc3fdf4

### rtb-0ddff7ef59dc3fdf4 / Public Route Table

Action

**Details** Info

Route table ID rtb-0ddff7ef59dc3fdf4	Main No	Explicit subnet associations subnet-0948afb12034ea524 / Public Subnet	Edge associations -
VPC vpc-0950a6d0127f968c4   Lab VPC	Owner ID 496842210393		

Routes Subnet associations Edge associations Route propagation Tags

**Routes (2)** Both Edit route

Filter routes

Destination	Target	Status	Propagated
0.0.0.0/0	igw-05b8c2fbbefa24a52	Active	No
10.0.0.0/16	local	Active	No

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## Task 4: Configuring Route Tables

```
Select Administrator Command Prompt
C:\Users\Compumart>aws ec2 create-route-table --vpc-id vpc-0950a6d0127f968c4 --tag-specifications "ResourceType=route-table,Tags=[{Key=Name,Value=Public Route Table}]"
{
  "RouteTable": {
    "Associations": [],
    "PropagatingVgws": [],
    "RouteTableId": "rtb-0ddff7ef59dc3fdf4",
    "Routes": [
      {
        "DestinationCidrBlock": "10.0.0.0/16",
        "GatewayId": "local1",
        "Origin": "CreateRouteTable",
        "State": "active"
      }
    ],
    "Tags": [
      {
        "Key": "Name",
        "Value": "Public Route Table"
      }
    ],
    "VpcId": "vpc-0950a6d0127f968c4",
    "OwnerId": "496842210393"
  },
  "ClientToken": "39206c23-dcf4-4eaf-b0f3-8baf0d648026"
}

C:\Users\Compumart>aws ec2 create-route --route-table-id rtb-0ddff7ef59dc3fdf4 --destination-cidr-block 0.0.0.0/0 --gateway-id igw-05b8c2fbbefa24a52
{
  "Return": true
}

C:\Users\Compumart>aws ec2 associate-route-table --subnet-id subnet-0948afb12034ea524 --route-table-id rtb-0ddff7ef59dc3fdf4
{
  "AssociationId": "rtbassoc-0de1715d9fa7af610",
  "AssociationState": {
    "State": "associated"
  }
}
```

Billing and Cost Management

Route tables (3) Info Last updated 3 minutes ago Actions Create route table

Find resources by attribute or tag

	Name	Route table ID	Explicit subnet associ...	Edge associations	Main	VPC
	-	<a href="#">rtb-04a566d20850f90ee</a>	-	-	Yes	<a href="#">vpc-</a>
/s	-	<a href="#">rtb-030416cae1ec6c346</a>	-	-	Yes	<a href="#">vpc-</a>
net	Public Route Table	<a href="#">rtb-0ddff7ef59dc3fdf4</a>	<a href="#">subnet-0948afb12034ea...</a>	-	No	<a href="#">vpc-</a>

## Task 5: Creating a Security Group for the Application Server

```
Select Administrator: Command Prompt

C:\Users\Compumart>aws ec2 create-security-group --group-name App-SG --description "Security group for app server" --vpc-id vpc-0950a6d0127f968c4
{
  "GroupId": "sg-0abe956cf3a5e755c"
}

C:\Users\Compumart>aws ec2 authorize-security-group-ingress --group-id sg-0abe956cf3a5e755c --protocol tcp --port 80 --cidr 0.0.0.0/0
{
  "Return": true,
  "SecurityGroupRules": [
    {
      "SecurityGroupRuleId": "sgr-07bc1ba7161358858",
      "GroupId": "sg-0abe956cf3a5e755c",
      "GroupOwnerId": "496842210393",
      "IsEgress": false,
      "IpProtocol": "tcp",
      "FromPort": 80,
      "ToPort": 80,
      "CidrIpv4": "0.0.0.0/0"
    }
  ]
}
```

Billing and Cost Management

VPC > **Security Groups** > sg-0abe956cf3a5e755c - App-SG

### sg-0abe956cf3a5e755c - App-SG Actions

**Details**

Security group name App-SG	Security group ID sg-0abe956cf3a5e755c	Description Security group for app server	VPC ID vpc-0950a6d0127f968c4
Owner 496842210393	Inbound rules count 1 Permission entry	Outbound rules count 1 Permission entry	

[Inbound rules](#) | [Outbound rules](#) | [Tags](#)

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## Task 6: Launching an Application Server in the Public Subnet

```
Select Administrator: Command Prompt
C:\Users\compumart>aws ec2 run-instances --image-id ami-0fffb9a61dec8a5f --count 1 --instance-type t2.micro --key-name vokey --security-group-ids sg-0abe956cf3a5e755c --s
ubnet-id subnet-0948afb12034ea524 --tag-specifications "ResourceType=instance,Tags=[(Key=Name,Value=App Server)]" --user-data "#!/bin/bash
{
  "Groups": [],
  "Instances": [
    {
      "AmiLaunchIndex": 0,
      "ImageId": "ami-0fffb9a61dec8a5f",
      "InstanceId": "i-0e5e90546e3709b62",
      "InstanceType": "t2.micro",
      "KeyName": "vokey",
      "LaunchTime": "2024-10-08T09:34:40+00:00",
      "Monitoring": {
        "State": "disabled"
      },
      "Placement": {
        "AvailabilityZone": "us-east-1a",
        "GroupName": "",
        "Tenancy": "default"
      },
      "PrivateDnsName": "ip-10-0-0-247.ec2.internal",
      "PrivateIpAddress": "10.0.0.247",
      "ProductCodes": [],
      "PublicDnsName": "",
      "State": {
        "Code": 0,
        "Name": "pending"
      },
      "StateTransitionReason": "",
      "SubnetId": "subnet-0948afb12034ea524",
      "VpcId": "vpc-0950a6d0127f968c4",
      "Architecture": "x86_64",
      "BlockDeviceMappings": [],
      "ClientToken": "ccc3c7eb-907c-47f3-b11a-b5d2845ece83",
      "EbsOptimized": false,
      "EnaSupport": true,
      "Hypervisor": "xen",
      "NetworkInterfaces": [
        {
          "Attachment": {
            "AttachTime": "2024-10-08T09:34:40+00:00",
            "AttachmentId": "eni-attach-0b736534b636a3bc5",
```

```
Select Administrator: Command Prompt
      "AttachmentId": "eni-attach-0b736534b636a3bc5",
      "DeleteOnTermination": true,
      "DeviceIndex": 0,
      "Status": "attaching",
      "NetworkCardIndex": 0
    },
    "Description": "",
    "Groups": [
      {
        "GroupName": "App-SG",
        "GroupId": "sg-0abe956cf3a5e755c"
      }
    ],
    "Ipv6Addresses": [],
    "MacAddress": "12:d1:b4:f8:63:69",
    "NetworkInterfaceId": "eni-098335b8459ff20a3",
    "OwnerId": "496842210393",
    "PrivateDnsName": "ip-10-0-0-247.ec2.internal",
    "PrivateIpAddress": "10.0.0.247",
    "PrivateIpAddresses": [
      {
        "Primary": true,
        "PrivateDnsName": "ip-10-0-0-247.ec2.internal",
        "PrivateIpAddress": "10.0.0.247"
      }
    ],
    "SourceDestCheck": true,
    "Status": "in-use",
    "SubnetId": "subnet-0948afb12034ea524",
    "VpcId": "vpc-0950a6d0127f968c4",
    "InterfaceType": "interface"
  ],
  "RootDeviceName": "/dev/xvda",
  "RootDeviceType": "ebs",
  "SecurityGroups": [
    {
      "GroupName": "App-SG",
      "GroupId": "sg-0abe956cf3a5e755c"
    }
  ],
  "SourceDestCheck": true,
  "StateReason": {
```



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```
Select Administrator: Command Prompt

{
  "StateReason": {
    "Code": "pending",
    "Message": "pending"
  },
  "Tags": [
    {
      "Key": "Name",
      "Value": "App Server"
    }
  ],
  "VirtualizationType": "hvm",
  "CpuOptions": {
    "CoreCount": 1,
    "ThreadsPerCore": 1
  },
  "CapacityReservationSpecification": {
    "CapacityReservationPreference": "open"
  },
  "MetadataOptions": {
    "State": "pending",
    "HttpTokens": "required",
    "HttpPutResponseHopLimit": 2,
    "HttpEndpoint": "enabled",
    "HttpProtocolIpv6": "disabled",
    "InstanceMetadataTags": "disabled"
  },
  "EnclaveOptions": {
    "Enabled": false
  },
  "BootMode": "uefi-preferred",
  "PrivateDnsNameOptions": {
    "HostnameType": "ip-name",
    "EnableResourceNameDnsRecord": false,
    "EnableResourceNameDnsAAAARecord": false
  },
  "MaintenanceOptions": {
    "AutoRecovery": "default"
  },
  "CurrentInstanceBootMode": "legacy-bios"
},
"OwnerId": "496842210393",
"ReservationId": "r-07c87c47fc1242551"
}
```

```
Select Administrator: Command Prompt

C:\Users\Compumart>unzip inventory-app.zip -d /var/www/html/
'unzip' is not recognized as an internal or external command,
operable program or batch file.

C:\Users\Compumart># Download and install the AWS SDK for PHP
'm' is not recognized as an internal or external command,
operable program or batch file.

C:\Users\Compumart>wget https://docs.aws.amazon.com/aws-sdk-php/v3/download/aws.zip
https://docs.aws.amazon.com/aws-sdk-php/v3/download/aws.zip: Unknown/unsupported protocol.

C:\Users\Compumart>unzip aws.zip -d /var/www/html
'unzip' is not recognized as an internal or external command,
operable program or batch file.

C:\Users\Compumart># Turn on web server
'm' is not recognized as an internal or external command,
operable program or batch file.

C:\Users\Compumart>systemctl enable httpd
'systemctl' is not recognized as an internal or external command,
operable program or batch file.

C:\Users\Compumart>systemctl start httpd
'systemctl' is not recognized as an internal or external command,
operable program or batch file.

C:\Users\Compumart>aws ec2 run-instances --image-id ami-0fffb9a61dec8a5f --count 1 --instance-type t2.micro --key-name vockey --security-group-ids sg-0abe956cf3a5e755c --s
ubnet-id subnet-0948afb12034ea524 --tag-specifications "ResourceType=instance,Tags=[{Key=Name,Value=App Server}]" --user-data '#!/bin/bash
{
  "Groups": [],
  "Instances": [
    {
      "AmiLaunchIndex": 0,
      "ImageId": "ami-0fffb9a61dec8a5f",
      "InstanceId": "i-0e0d190d172630ba",
      "InstanceType": "t2.micro",
      "KeyName": "vockey",
      "LaunchTime": "2024-10-08T09:35:43+00:00",
      "Monitoring": {
        "State": "disabled"
      }
    }
  ],
}
```

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```
Select Administrator: Command Prompt
{
  "Placement": {
    "AvailabilityZone": "us-east-1a",
    "GroupName": "",
    "Tenancy": "default"
  },
  "PrivateDnsName": "ip-10-0-0-45.ec2.internal",
  "PrivateIpAddress": "10.0.0.45",
  "ProductCodes": [],
  "PublicDnsName": "",
  "State": {
    "Code": 0,
    "Name": "pending"
  },
  "StateTransitionReason": "",
  "SubnetId": "subnet-0948afb12034ea524",
  "VpcId": "vpc-0950a6d0127f968c4",
  "Architecture": "x86_64",
  "BlockDeviceMappings": [],
  "ClientToken": "aa22fc90-71d3-48d1-b508-e83bf073744f",
  "EbsOptimized": false,
  "EnaSupport": true,
  "Hypervisor": "xen",
  "NetworkInterfaces": [
    {
      "Attachment": {
        "AttachTime": "2024-10-08T09:35:43+00:00",
        "AttachmentId": "eni-attach-04dccc4fc48f7349c5",
        "DeleteOnTermination": true,
        "DeviceIndex": 0,
        "Status": "attaching",
        "NetworkCardIndex": 0
      },
      "Description": "",
      "Groups": [
        {
          "GroupName": "App-SG",
          "GroupId": "sg-0abe956cf3a5e755c"
        }
      ],
      "Ipv6Addresses": [],
      "MacAddress": "12:66:df:52:1e:6f",
      "NetworkInterfaceId": "eni-070db34c74ac67c80",

```

```
Select Administrator: Command Prompt
      "NetworkInterfaceId": "eni-070db34c74ac67c80",
      "OwnerId": "496842210393",
      "PrivateDnsName": "ip-10-0-0-45.ec2.internal",
      "PrivateIpAddress": "10.0.0.45",
      "PrivateIpAddresses": [
        {
          "Primary": true,
          "PrivateDnsName": "ip-10-0-0-45.ec2.internal",
          "PrivateIpAddress": "10.0.0.45"
        }
      ],
      "SourceDestCheck": true,
      "Status": "in-use",
      "SubnetId": "subnet-0948afb12034ea524",
      "VpcId": "vpc-0950a6d0127f968c4",
      "InterfaceType": "interface"
    }
  ],
  "RootDeviceName": "/dev/xvda",
  "RootDeviceType": "ebs",
  "SecurityGroups": [
    {
      "GroupName": "App-SG",
      "GroupId": "sg-0abe956cf3a5e755c"
    }
  ],
  "SourceDestCheck": true,
  "StateReason": {
    "Code": "pending",
    "Message": "pending"
  },
  "Tags": [
    {
      "Key": "Name",
      "Value": "App Server"
    }
  ],
  "VirtualizationType": "hvm",
  "CpuOptions": {
    "CoreCount": 1,
    "ThreadsPerCore": 1
  },
  "CapacityReservationSpecification": {

```

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```
Select Administrator: Command Prompt
"ThreadsPerCore": 1
},
"CapacityReservationSpecification": {
  "CapacityReservationPreference": "open"
},
"MetadataOptions": {
  "State": "pending",
  "HttpTokens": "required",
  "HttpPutResponseHopLimit": 2,
  "HttpEndpoint": "enabled",
  "HttpProtocolIpv6": "disabled",
  "InstanceMetadataTags": "disabled"
},
"EnclaveOptions": {
  "Enabled": false
},
"BootMode": "uefi-preferred",
"PrivateDnsNameOptions": {
  "HostnameType": "ip-name",
  "EnableResourceNameDnsRecord": false,
  "EnableResourceNameAAAARecord": false
},
"MaintenanceOptions": {
  "AutoRecovery": "default"
},
},
"CurrentInstanceBootMode": "legacy-bios"
},
},
"OwnerId": "496842210393",
"ReservationId": "r-0e8cfc5fa7ebb16c8"
}
}
c:\Users\Compumart>
```

**Billing and Cost Management**

EC2 > Instances > i-0e40d198d172630b8

**Instance summary for i-0e40d198d172630b8 (App Server)** info Refresh Connect Instance state ▼ Actions ▼

Updated less than a minute ago

Instance ID i-0e40d198d172630b8 (App Server)	Public IPv4 address 3.95.229.185   <a href="#">open address</a>	Private IPv4 addresses 10.0.0.45
IPv6 address -	Instance state <span>Running</span>	Public IPv4 DNS ec2-3-95-229-185.compute-1.amazonaws.com   <a href="#">open address</a>
Hostname type IP name: ip-10-0-0-45.ec2.internal	Private IP DNS name (IPv4 only) ip-10-0-0-45.ec2.internal	
Answer private resource DNS name -	Instance type t2.micro	Elastic IP addresses -
Auto-assigned IP address 3.95.229.185 [Public IP]	VPC ID vpc-0950a6d0127f968c4 (Lab VPC) <a href="#">↗</a>	AWS Compute Optimizer finding <a href="#">Opt-in to AWS Compute Optimizer for recommendations.</a> <a href="#">  Learn more</a>
IAM Role	Subnet ID	Auto Scaling Group name