

# AWS Task – 2

## Task Description:

Set up a VPC with an Internet gateway, create a public subnet with 256 IP addresses, a private subnet with 256 IP addresses, make a route table connecting the Internet gateway and the subnets, and launch a Linux EC2 instance by using the above VPC and public subnet.

### > Step 1: Creating a VPC

The screenshot shows the AWS Management Console interface for a VPC. At the top, a green banner confirms the successful creation of the VPC. Below this, the 'Details' tab is active, displaying various configuration parameters in a grid. To the right of the details is a 'Resource map' section with tabs for 'Resource map', 'CIDRs', 'Flow logs', 'Tags', and 'Integrations'. The 'Resource map' shows four categories: VPC (MyCustomVPC), Subnets (0), Route tables (1), and Network connections (0).

Details			
<b>VPC ID</b> vpc-0e659cc10307f3ef5	<b>State</b> Available	<b>Block Public Access</b> Off	<b>DNS hostnames</b> Disabled
<b>DNS resolution</b> Enabled	<b>Tenancy</b> default	<b>DHCP option set</b> dopt-061f127627f7207c3	<b>Main route table</b> rtb-099688f69343ff855
<b>Main network ACL</b> acl-0c7165c9ef9939045	<b>Default VPC</b> No	<b>IPv4 CIDR</b> 10.0.0.0/16	<b>IPv6 pool</b> -
<b>IPv6 CIDR (Network border group)</b> -	<b>Network Address Usage metrics</b> Disabled	<b>Route 53 Resolver DNS Firewall rule groups</b> -	<b>Owner ID</b> 501406858319

**Resource map**

- VPC** (Show details): Your AWS virtual network. MyCustomVPC
- Subnets (0)**: Subnets within this VPC.
- Route tables (1)**: Route network traffic to resources. rtb-099688f69343ff855
- Network connections (0)**: Connections to other networks.

### > Step 2: Creating an Internet Gateway and attaching it to VPC

#### Attach to VPC (igw-0738e0c94186f3e44)

##### 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.

Q vpc-0e659cc10307f3ef5

► AWS Command Line Interface command

Cancel

Attach internet gateway

### > Step 3: Create Public Subnet and a Private Subnet

**VPC dashboard** < You have successfully created 1 subnet: subnet-0671f92591e6ed65f

EC2 Global View Filter by VPC

▼ Virtual private cloud

- Your VPCs
- Subnets**
- Route tables
- Internet gateways
- Egress-only internet gateways
- Carrier gateways
- DHCP option sets
- Elastic IPs
- Managed prefix lists
- NAT gateways
- Peering connections
- Route servers [New](#)

▼ Security

- Network ACLs
- Security groups

**Subnets (1)** [Info](#)

Find subnets by attribute or tag

Subnet ID: subnet-0671f92591e6ed65f [Clear filters](#)

Last updated less than a minute ago [Actions](#) [Create subnet](#)

<input type="checkbox"/>	Name	Subnet ID	State	VPC	Block Public...	IPv4 CIDR
<input type="checkbox"/>	MyPublicSubnet	<a href="#">subnet-0671f92591e6ed65f</a>	Available	<a href="#">vpc-0e659cc10307f3ef5</a>   <a href="#">MyCu...</a>	Off	10.0.1.0/24

Select a subnet

**VPC dashboard** < You have successfully created 1 subnet: subnet-0fc1282b45bc1711b

EC2 Global View Filter by VPC

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▼ Security

- Network ACLs
- Security groups

**Subnets (1)** [Info](#)

Find subnets by attribute or tag

Subnet ID: subnet-0fc1282b45bc1711b [Clear filters](#)

Last updated less than a minute ago [Actions](#) [Create subnet](#)

<input type="checkbox"/>	Name	Subnet ID	State	VPC	Block Public...	IPv4 CIDR
<input type="checkbox"/>	MyPrivateSubnet	<a href="#">subnet-0fc1282b45bc1711b</a>	Available	<a href="#">vpc-0e659cc10307f3ef5</a>   <a href="#">MyCu...</a>	Off	10.0.0.0/24

Select a subnet

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> Step 4: Create Route Table and attach to Subnets

VPC dashboard

EC2 Global View

Filter by VPC

Virtual private cloud

Your VPCs

Subnets

Route tables

Internet gateways

Egress-only internet gateways

Carrier gateways

DHCP option sets

Elastic IPs

Managed prefix lists

NAT gateways

Peering connections

Route servers

Security

Network ACLs

Security groups

Route table rtb-0f123894b19fc7a62 | MyRouteTable was created successfully.

rtb-0f123894b19fc7a62 / MyRouteTable

Details

Route table ID

rtb-0f123894b19fc7a62

VPC

vpc-0e659cc10307f3ef5 | MyCustomVPC

Main

No

Explicit subnet associations

-

Edge associations

-

Owner ID

501406858319

Routes

Subnet associations

Edge associations

Route propagation

Tags

Routes (1)

Filter routes

Both

Edit routes

Destination	Target	Status	Propagated
10.0.0.0/16	local	Active	No

> Step 5: Enabling Auto-assign Public IP on the VPC

VPC dashboard

EC2 Global View

Filter by VPC

Virtual private cloud

Your VPCs

Subnets

Route tables

Internet gateways

Egress-only internet gateways

Carrier gateways

DHCP option sets

Elastic IPs

Managed prefix lists

NAT gateways

Peering connections

Route servers

Security

Network ACLs

Security groups

You have successfully changed subnet settings:  
Enable auto-assign public IPv4 address

Subnets (1/8)

Find subnets by attribute or tag

	Name	Subnet ID	State	VPC	Block Public...	IPv4 CIDR
<input type="checkbox"/>	MyPrivateSubnet	subnet-0fc1282b45bc1711b	Available	vpc-0e659cc10307f3ef5   MyCu...	Off	10.0.0.0/24
<input type="checkbox"/>	-	subnet-048393e0491d08f32	Available	vpc-0b8780a2dcc77ff67	Off	172.31.16.0/20
<input type="checkbox"/>	-	subnet-034c3b70b453649ce	Available	vpc-0b8780a2dcc77ff67	Off	172.31.0.0/20
<input type="checkbox"/>	-	subnet-0b7ae1b6be6c551bd	Available	vpc-0b8780a2dcc77ff67	Off	172.31.32.0/20
<input type="checkbox"/>	-	subnet-0766dbbd247aff5ac	Available	vpc-0b8780a2dcc77ff67	Off	172.31.64.0/20
<input checked="" type="checkbox"/>	MyPublicSubnet	subnet-0671f92591e6ed65f	Available	vpc-0e659cc10307f3ef5   MyCu...	Off	10.0.1.0/24

subnet-0671f92591e6ed65f / MyPublicSubnet

Details

Flow logs

Route table

Network ACL

CIDR reservations

Sharing

Tags

Details

Subnet ID

subnet-0671f92591e6ed65f

Subnet ARN

arn:aws:ec2:us-east-1:501406858319:subnet/subnet-0671f92591e6ed65f

State

Available

IPv6 CIDR

-

Block Public Access

Off

IPv6 CIDR association ID

-

> Step 6: Launch an EC2 Instance in Public Subnet and Launch the Instance

i-08dff67d1656db9fb (MyLinuxInstance)

Details

Status and alarms

Monitoring

Security

Networking

Storage

Tags

VPC ID

vpc-0e659cc10307f3ef5 (MyCustomVPC)

Subnet ID

subnet-0671f92591e6ed65f (MyPublicSubnet)

Availability zone

us-east-1a

Outpost ID

-