

Ahmed Shawky: Task 2

1- Create VPC

Your VPCs (2) [Info](#)

Filter VPCs

[Create VPC](#)

Name	VPC ID	State	IPv4 CIDR	IPv6 CIDR
-	vpc-54c5123c	Available	172.31.0.0/16	-
my-first-vpc	vpc-0fb7ea0601e7c3b8a	Available	10.0.0.0/16	-

VPC settings

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

my-vcp

IPv4 CIDR block [Info](#)
20.0.0.0/24

IPv6 CIDR block [Info](#)
☒ No IPv6 CIDR block
☐ Amazon-provided IPv6 CIDR block

Tenancy [Info](#)
Default

Tags

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	my-vcp	Remove

[Add new tag](#)
You can add 49 more tags.

Cancel [Create VPC](#)

2- Create 2 subnets (private & public)

Subnets (5) [Info](#)

Filter subnets

Actions [Create subnet](#)

Name	Subnet ID	State	VPC	IPv4 CIDR
-	subnet-19eaff62	Available	vpc-54c5123c	172.31.16.0/20
my-public-subnet	subnet-0e5c3ca0c626db70f	Available	vpc-0fb7ea0601e7c3b8a my-...	10.0.1.0/24
-	subnet-8c9fc1c1	Available	vpc-54c5123c	172.31.32.0/20
my-private-subnet	subnet-0dc94f279c666bfb	Available	vpc-0fb7ea0601e7c3b8a my-...	10.0.0.0/24

Create subnet [Info](#)

VPC

VPC ID
Create subnets in this VPC.

vpc-0b8671a027dd6f01d (my-vcp)

Associated VPC CIDRs

IPv4 CIDRs
20.0.0.0/24

Subnet settings

Specify the CIDR blocks and Availability Zone for the subnet.

Subnet 1 of 1

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

public-subnet

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.

Europe (Paris) / eu-west-3a

IPv4 CIDR block [Info](#)

0.0.0.0/8

Tags - optional

Key **Value - optional**

Name public-subnet Remove

Add new tag

You can add 49 more tags.

Remove

Add new subnet

AWS Command Line Interface command

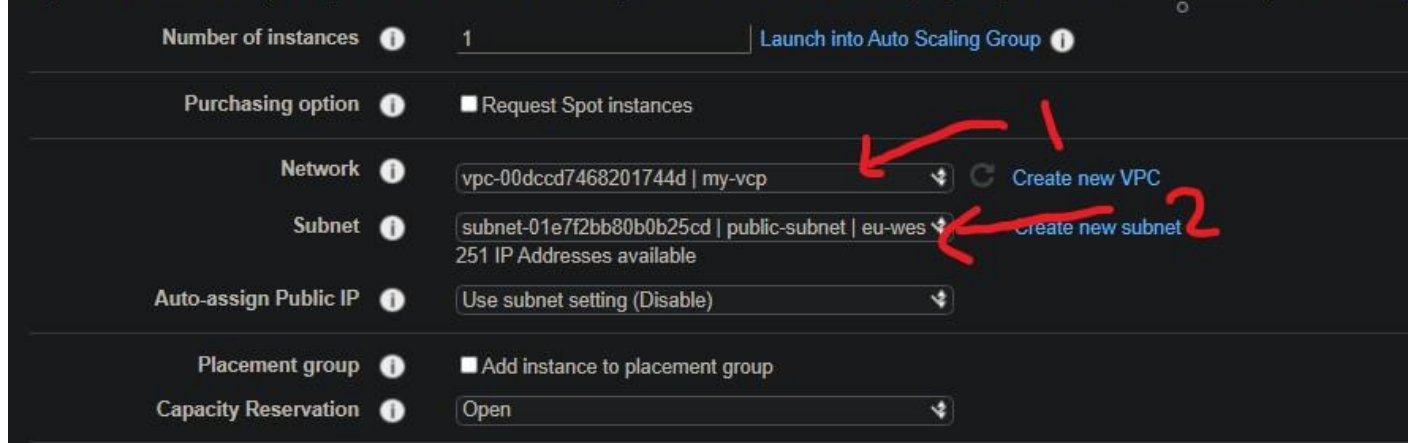
Cancel Create subnet

3- For each subnet create EC2

Create EC2 instance but change the network and subnet in the configuration.

Step 3: Configure Instance Details

Configure the instance to suit your requirements. You can launch multiple instances from the same AMI, request Spot instances to take advantage of the lower p



Number of instances 1 Launch into Auto Scaling Group

Purchasing option ☐ Request Spot instances

Network vpc-00dcd7468201744d | my-vcp Create new VPC

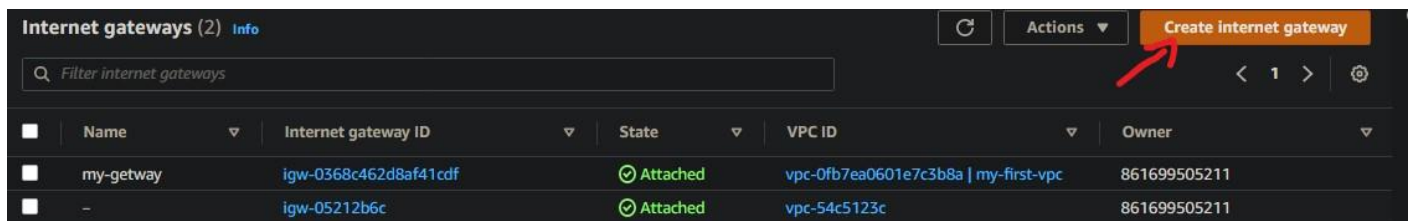
Subnet subnet-01e7f2bb80b0b25cd | public-subnet | eu-wes Create new subnet
251 IP Addresses available

Auto-assign Public IP Use subnet setting (Disable)

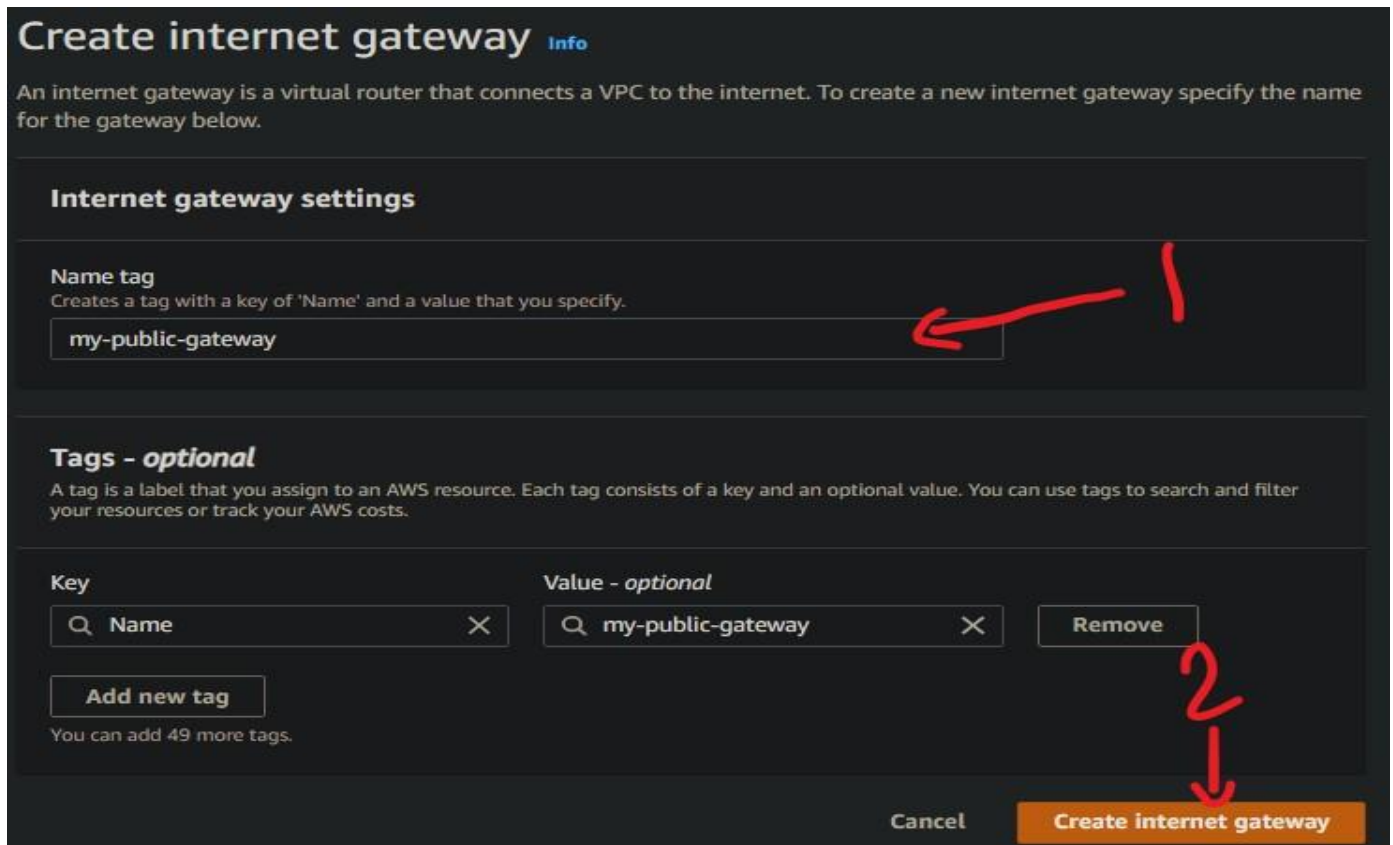
Placement group ☐ Add instance to placement group

Capacity Reservation Open

4- Create Internet Gateway for public EC2



	Name	Internet gateway ID	State	VPC ID	Owner
<input type="checkbox"/>	my-getway	igw-0368c462d8af41cdf	Attached	vpc-0fb7ea0601e7c3b8a my-first-vpc	861699505211
<input type="checkbox"/>	-	igw-05212b6c	Attached	vpc-54c5123c	861699505211



Create internet gateway

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.

my-public-gateway

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: Name Value - optional: my-public-gateway Remove

Add new tag
You can add 49 more tags.

Cancel Create internet gateway

igw-09e45f6e5be8dda66 / my-public-gateway

Actions

- Attach to VPC
- Detach from VPC
- Manage tags
- Delete

Details [Info](#)

Internet gateway ID	State	VPC ID	Owner
igw-09e45f6e5be8dda66	Detached	-	861699505211

Tags

Search tags

Manage tags

< 1 >

Key	Value
Name	my-public-gateway

Attach to VPC (igw-09e45f6e5be8dda66) [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.

Select a VPC

vpc-00dccc7468201744d - my-vcp

▶ AWS Command Line Interface command

Cancel **Attach internet gateway**

5- Create Nat Gateway for Private EC2 and put it inside the public subnet.

NAT gateways (1/1) [Info](#)

Filter NAT gateways

Actions **Create NAT gateway**

	Name	NAT gateway ID	Connectivit...	State	State message	Elastic IP address	Private IP ad
	my-nat-subnet	nat-07a33a8b901c9c184	Public	Available	-	13.37.122.11	10.0.1.27

Create NAT gateway [Info](#)

A highly available, managed Network Address Translation (NAT) service that instances in private subnets can use to connect to services in other VPCs, on-premises networks, or the internet.

NAT gateway settings

Name - *optional*

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

The name can be up to 256 characters long.

Subnet

Select a subnet in which to create the NAT gateway.

Connectivity type

Select a connectivity type for the NAT gateway.

☒ Public☐ Private

Elastic IP allocation ID [Info](#)

Assign an Elastic IP address to the NAT gateway.

Tags

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*

You can add 49 more tags.

6- Create router to manage traffic

Route tables (4) [Info](#)

Filter route tables

[Create route table](#)

	Name	Route table ID	Explicit subnet associat...	Edge associations	Main	VPC
<input type="checkbox"/>	-	rtb-0958e67c811e08ade	-	-	Yes	vpc-0fb7ea0601e7c3b
<input type="checkbox"/>	my-router	rtb-0c12a4891addbd585	-	-	No	vpc-0fb7ea0601e7c3b
<input type="checkbox"/>	-	rtb-bb3397d3	-	-	Yes	vpc-54c5123c

Create route table [Info](#)

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

Route table settings

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

test-router

VPC
The VPC to use for this route table.

vpc-00dccd7468201744d (my-vcp)

Tags

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	
Q Name X	Q test-router X	Remove

[Add new tag](#)
You can add 49 more tags.

Cancel [Create route table](#)

Edit routes

Destination	Target	Status	Propagated
20.0.0.0/16	Q local X	Active	No
Q 0.0.0.0/0 X	Q igw-09e45f6e5be8dda66 X	-	No Remove
Q 0.0.0.0/8 X	Q nat-09cf2dde31825702a X	-	No Remove

[Add route](#)

Cancel [Preview](#) [Save changes](#)