

Assignment 7

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Ques 1: Create your own new custom VPC

- **Configure your EC2 linux instance inside your custom VPC**
- **Then create 3 subnets of that VPC –**
- **Attach an internet gateway to your custom VPC**

Answer:

- Create custom VPC

Create VPC [Info](#)

A VPC is an isolated portion of the AWS Cloud populated by AWS objects, such as Amazon EC2 instances.

VPC settings

Resources to create [Info](#)
Create only the VPC resource or the VPC and other networking resources.

☒ VPC only ☐ VPC and more

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

CustomVPC

IPv4 CIDR block [Info](#)
☒ IPv4 CIDR manual input
☐ IPAM-allocated IPv4 CIDR block

IPv4 CIDR
64.0.0.0/16

IPv6 CIDR block [Info](#)
☒ No IPv6 CIDR block
☐ IPAM-allocated IPv6 CIDR block
☐ Amazon-provided IPv6 CIDR block
☐ IPv6 CIDR owned by me

Tenancy [Info](#)
Default

- Create three subnets for that newly created custom VPC

VPC > Subnets > Create subnet

Create subnet [Info](#)

VPC

VPC ID
Create subnets in this VPC.

vpc-0dcfe2779262285bb (CustomVPC)

Associated VPC CIDRs

IPv4 CIDRs
64.0.0.0/16

Subnet settings

Specify the CIDR blocks and Availability Zone for the subnet.

Subnet 1 of 3

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

PublicSubnet1a

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.

Asia Pacific (Mumbai) / ap-south-1a

IPv4 CIDR block [Info](#)
64.0.1.0/24

Tags - optional

Key	Value - optional	
Q Name	PublicSubnet1a	X Remove

Add new tag

You can add 49 more tags.

Subnet 2 of 3

Subnet name

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

PublicSubnet1b

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.

Asia Pacific (Mumbai) / ap-south-1b

IPv4 CIDR block [Info](#)

64.0.2.0/24

Tags - optional

Key

Value - optional

Q Name X

Q PublicSubnet1b X

Remove

Add new tag

You can add 49 more tags.

Remove

Subnet 3 of 3

Subnet name

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

PublicSubnet1c

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.

Asia Pacific (Mumbai) / ap-south-1c

IPv4 CIDR block [Info](#)

64.0.3.0/24

Tags - optional

Key

Value - optional

Q Name X

Q PublicSubnet1c X

Remove

Add new tag

You can add 49 more tags.

- Create an Internet Gateway

VPC > Internet gateways > Create internet gateway

Create internet gateway [Info](#)

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.

InternetGateway

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

Value - optional

Q Name X

Q InternetGateway X

Remove

Add new tag

You can add 49 more tags.

Cancel

Create internet gateway

4

- Attache Internet Gateway to Custom VPC

VPC > Internet gateways > Attach to VPC (igw-02832637c3ab9dc7f)

Attach to VPC (igw-02832637c3ab9dc7f) [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.

► AWS Command Line Interface command

Cancel Attach internet gateway

- Edit route table of Custom VPC. For all rest IPs it will be routed to internet gateway.

VPC > Route tables > rtb-0b18153bae9e8b847 > Edit routes

Edit routes

Destination	Target	Status	Propagated
64.0.0.0/16	<input type="text" value="local"/>	Active	No
<input type="text" value="0.0.0.0/0"/>	<input type="text" value="igw-02832637c3ab9dc7f"/>	-	No Remove

Add route

Cancel Preview Save changes

- Launch an EC2 instance in Custom VPC

Network settings [Info](#)

VPC - *required* [Info](#)

vpc-0dcfe2779262285bb (CustomVPC) 64.0.0.0/16

Subnet [Info](#)

subnet-098f3da7b92e2642a PublicSubnet1a

VPC: vpc-0dcfe2779262285bb Owner: 166639039766 Availability Zone: ap-south-1a IP addresses available: 251 CIDR: 64.0.1.0/24

Auto-assign public IP [Info](#)

Enable

Firewall (security groups) [Info](#)

A security group is a set of firewall rules that control the traffic for your instance. Add rules to allow specific traffic to reach your instance.

☒ Create security group ☐ Select existing security group

Security group name - *required*

SGForCusVPC

This security group will be added to all network interfaces. The name can't be edited after the security group is created. Max length is 255 characters. Valid characters: a-z, A-Z, 0-9, spaces, and _-./!@#.%&*~:;[]{}^`|'\"/>
Description - *required* [Info](#)

Summary

Number of instances [Info](#)

1

Software Image (AMI)

Amazon Linux 2 Kernel 5.10 AMI...[read more](#)
ami-0cca134ec43cf708f

Virtual server type (instance type)

t2.micro

Firewall (security group)

New security group

Storage (volumes)

1 volume(s) - 8 GiB

Free tier: In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) instance usage on free tier

Cancel **Launch instance**

- Once it is Up and running paste public IP in browser

Instances (1/1) [Info](#)

Find instance by attribute or tag (case-sensitive)

<input checked="" type="checkbox"/>	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS
<input checked="" type="checkbox"/>	MyWebServer	i-0791c76eab79effe	Running	t2.micro	Initializing	No alarms	ap-south-1a	-

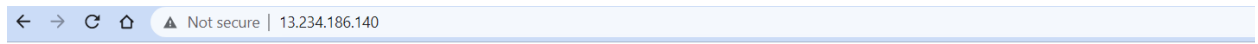
Instance: i-0791c76eab79effe (MyWebServer)

Details | Security | Networking | Storage | Status checks | Monitoring | Tags

Instance summary [Info](#)

Instance ID	Public IPv4 address	Private IPv4 addresses
i-0791c76eab79effe (MyWebServer)	13.234.186.140 open address	64.0.1.57
IPv6 address	Instance state	Public IPv4 DNS
-	Running	-
Hostname type	Private IP DNS name (IPv4 only)	Elastic IP addresses
IP name: ip-64-0-1-57.ap-south-1.compute.internal	ip-64-0-1-57.ap-south-1.compute.internal	-
Answer private resource DNS name	Instance type	AWS Compute Optimizer findings
IPv4 (A)	t2.micro	
Auto-assigned IP address	VPC ID	

Our instance is successfully running in our custom VPC.



My Instance by using custom VPC