

Lab Logbook Week 5	
Student ID GAR22521797	Date-----
Briefly introduce the aim of this lab	The aim of the lab is to provide guidance on how to implement a secure cloud infrastructure using VPC with the right configurations.
Identify the tools used for each task and why it was required.	VPC – to create a secure environment where resources can interact safely with controlled networking settings
What are your observations from each task?	<p>From activity 1, I learnt how to set up a VPC whether public or private dependant on the IPv6 CIDR Block value.</p> <p>From activity 2 I learnt how to make public and private subnets.</p> <p>From activity 3, I learnt how to configure public and private route tables and associate them with either public or private subnets.</p> <p>For activity 4, I created a new VPC security group named CyberClass Security that allows for Access from anywhere.</p>
Report your lab experimental result for each task	<div><div>Setting up a VPC in “your vpc tab”</div><div><div>VPC settings</div><div><div>Resources to create Info</div><div>Create only the VPC resource or the VPC and other networking resources.</div><div><div><input checked="" type="radio"/> VPC only</div><div><input type="radio"/> VPC and more</div></div><div><div>Name tag - optional</div><div>Creates a tag with a key of 'Name' and a value that you specify.</div><div><div>CyberClass-Lab VPC</div></div></div><div><div>IPv4 CIDR block Info</div><div><input checked="" type="radio"/> IPv4 CIDR manual input</div><div><input type="radio"/> IPAM-allocated IPv4 CIDR block</div><div><div>IPv4 CIDR</div><div><div>10.0.0.0/16</div><div>CIDR block size must be between /16 and /28.</div></div></div><div><div>IPv6 CIDR block Info</div><div><input checked="" type="radio"/> No IPv6 CIDR block</div><div><input type="radio"/> IPAM-allocated IPv6 CIDR block</div><div><input type="radio"/> Amazon-provided IPv6 CIDR block</div><div><input type="radio"/> IPv6 CIDR owned by me</div></div><div><div>Tenancy Info</div><div><div>Default</div><div></div></div></div></div><div><div>You successfully created vpc-07ff50573e422f58e / CyberClass-Lab VPC</div><div><div>VPC > Your VPCs > vpc-07ff50573e422f58e</div><div><div>vpc-07ff50573e422f58e / CyberClass-Lab VPC</div><div>Actions ▾</div></div><div>vpc status changes to available</div><div><div><div><input type="checkbox"/> CyberClass-Lab VPC</div><div>vpc-07ff50573e422f58e</div><div><input checked="" type="checkbox"/> Available</div><div>10.0.0.0/16</div></div></div></div><div>Creating a subnet</div></div></div></div></div>

VPC

VPC ID

Create subnets in this VPC.

vpc-07f50573e422f58e (CyberClass-Lab VPC)

Associated VPC CIDRs

IPv4 CIDRs

10.0.0.0/16

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 (Stockholm) / eu-north-1a

IPv4 VPC CIDR block

Info

Choose the VPC's IPv4 CIDR block for the subnet. The subnet's IPv4 CIDR must lie within this block.

10.0.0.0/16

You have successfully created 1 subnet: subnet-0d4dda7053694c39c

Subnets (1)

Info

Last updated less than a minute ago

Actions

Create subnet

Find resources by attribute or tag

Subnet ID : subnet-0d4dda7053694c39c

Clear filters

< 1 >

<input type="checkbox"/>	Name	Subnet ID	State	VPC
<input type="checkbox"/>	Public Subnet	subnet-0d4dda7053694c39c	Available	vpc-07f50573e422f58e

Creation of private subnet with CIDR block 10.0.2.0/24

<input type="checkbox"/>	Public Subnet	subnet-0d4dda7053694c39c	Available	vpc-07f50573e422f58e
<input type="checkbox"/>	Private Subnet	subnet-0e2e22d5a2e132f9c	Available	vpc-07f50573e422f58e

Public and Private Route tables are associated with the public and private subnets

<input type="checkbox"/>	Public Route Table	rtb-006b141dd97cc146b8	subnet-0d4dda7053694c...
<input type="checkbox"/>	-	rtb-08db1661bc81ee541	-
<input type="checkbox"/>	Private Route Table	rtb-01e0b1b4f55aa3e4f	subnet-0e2e22d5a2e132...

Activity 4 creation of a new security group

Security group (sg-0c162c4cdfs0cb696 | CyberClass security) was created successfully

Details

VPC > Security Groups > sg-0c162c4cdfs0cb696 - CyberClass security

sg-0c162c4cdfs0cb696 - CyberClass security

Actions

Details

Security group name

CyberClass security

Security group ID

sg-0c162c4cdfs0cb696

Description

Enable HTTP access

VPC ID

vpc-07f50573e422f58e

Owner

195275664394

Inbound rules count

1 Permission entry

Outbound rules count

1 Permission entry

What was your takeaway from the tasks

The lab provided practical experience in setting up a secure, scalable cloud network, highlighting the importance of controlled access and network segmentation in cloud environments