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Name	VPC Enumeration
URL	https://attackdefense.com/challengedetails?cid=2425
Туре	AWS Cloud Security : EC2

Important Note: This document illustrates all the important steps required to complete this lab. This is by no means a comprehensive step-by-step solution for this exercise. This is only provided as a reference to various commands needed to complete this exercise and for your further research on this topic. Also, note that the IP addresses and domain names might be different in your lab.

Solution:

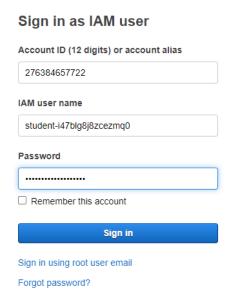
Console Based Enumeration

Step 1: Click on the lab link button to get access to the AWS lab credentials.

Login URL	https://276384657722.signin.aws.amazon.com/console
Region	Asia Pacific (Singapore) ap-southeast-1
Username	student-i47blg8j8zcezmq0
Password	c8PZVRx3TMjralu61aC
Access Key ID	AKIAUAWOPGE5KDXBZHOM
Secret Access Key	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

Step 2: Sign in to the AWS console.

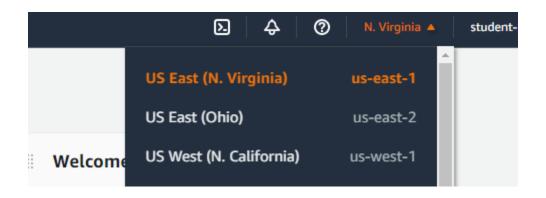


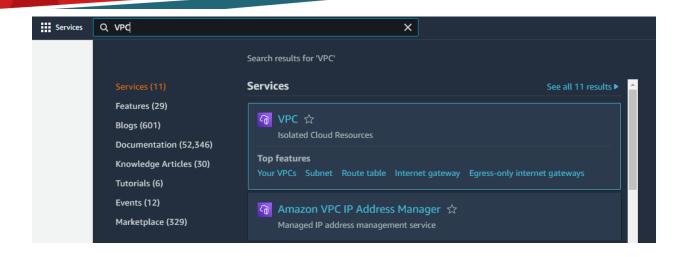




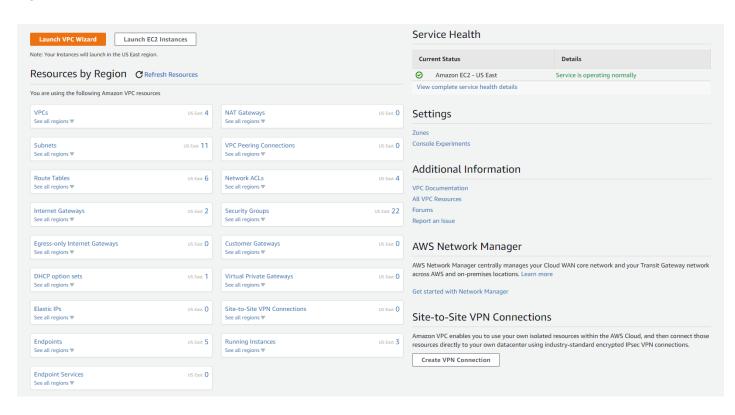
Step 3: Search for the VPC Dashboard and navigate to it.

Note: Change the region to "us-east-1", if it is not selected by default.



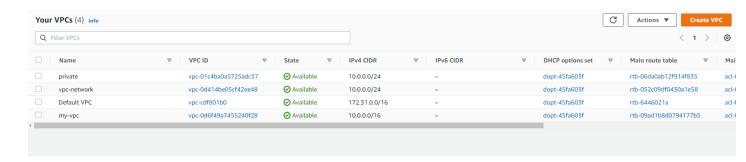


Step 4: Navigate to the VPC from the dashboard by clicking "VPCs" under the resources by region.

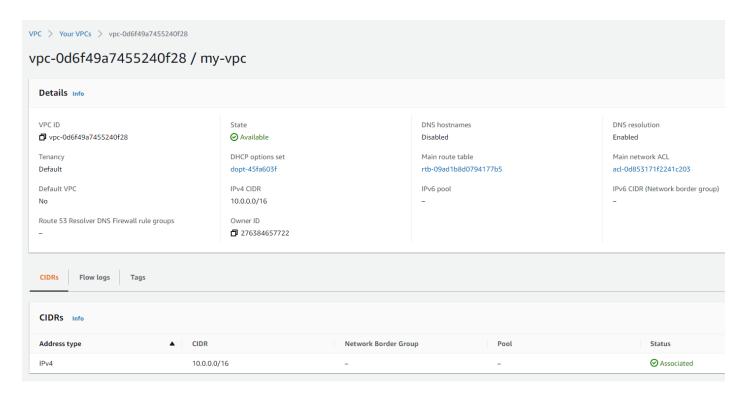


Step 5: Under VPC is a list of the VPCs deployed in the account. Click on VPC id with the name "my-vpc".

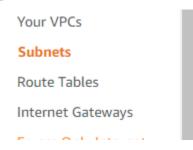
A virtual private cloud (VPC) is a virtual network dedicated to your AWS account. It is logically isolated from other virtual networks in the AWS Cloud. You can launch your AWS resources, such as Amazon EC2 instances, into your VPC. You can specify an IP address range for the VPC, add subnets, associate security groups, and configure route tables.



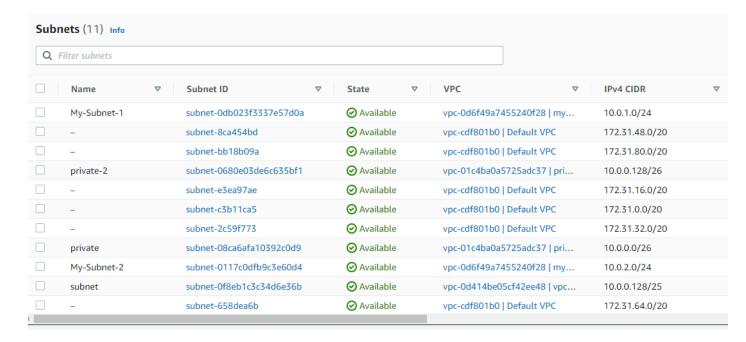
The details of the VPC deployed are mentioned here.



Step 6: Click on subnets to see the list of available subnets in this account.

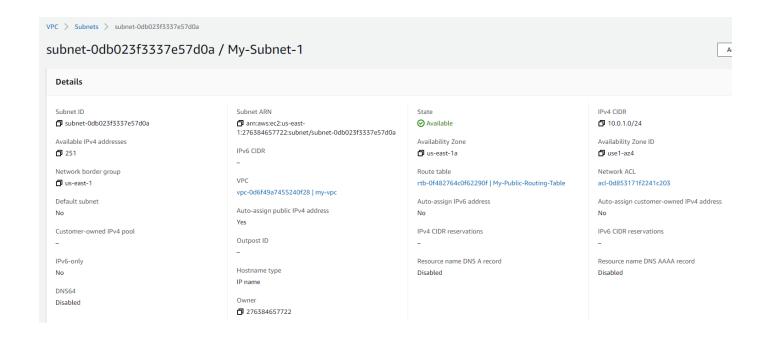


A subnet is a range of IP addresses in your VPC. You can launch AWS resources, such as EC2 instances, into a specific subnet. When you create a subnet, you specify the IPv4 CIDR block for the subnet, which is a subset of the VPC CIDR block. Each subnet must reside entirely within one Availability Zone and cannot span zones. By launching instances in separate Availability Zones, you can protect your applications from the failure of a single zone.



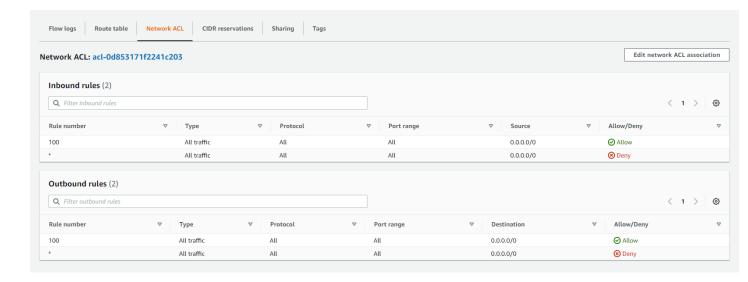
Step 7: Click on subnet id with the name "My-Subnet-1".

The details of the subnet deployed are mentioned here.



Step 8: Click on Network ACL and check the network access control list.

It is an optional layer of security for your VPC that acts as a firewall for controlling traffic in and out of one or more subnets. You might set up network ACLs with rules similar to your security groups in order to add an additional layer of security to your VPC.

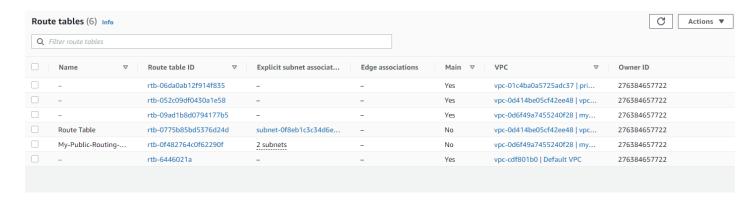




Step 9: Click on Route Tables to see the list of route tables available in the account.

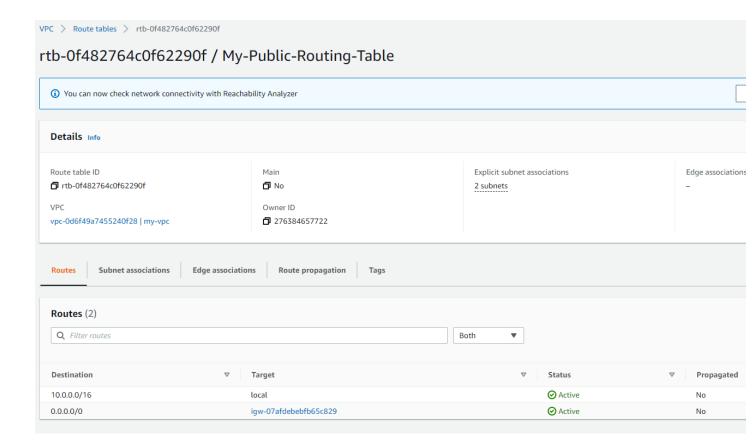
Your VPCs
Subnets
Route Tables
Internet Gateways
Egress Only Internet

A route table contains a set of rules, called routes, that determine where network traffic from your subnet or gateway is directed. Each subnet in your VPC must be associated with a route table, which controls the routing for the subnet (subnet route table). You can explicitly associate a subnet with a particular route table. Otherwise, the subnet is implicitly associated with the main route table. A subnet can only be associated with one route table at a time, but you can associate multiple subnets with the same subnet route table.



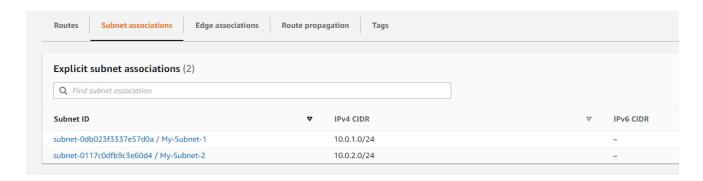
Step 10: Click on route table id with the name "My-Public-Routing-Table".

Two routes are in this route table where one route has a target of local and the other one is associated with an internet gateway.



Step 11: Click on Subnet associations to get the explicit subnet associations.

Here we have two subnet associations in this route table.



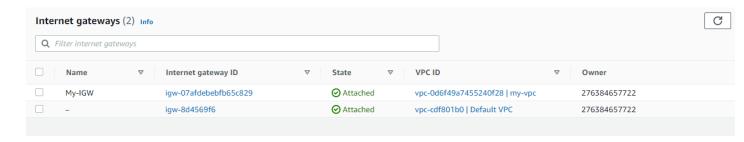


Step 12: Click on Internet Gateways from the side panel.



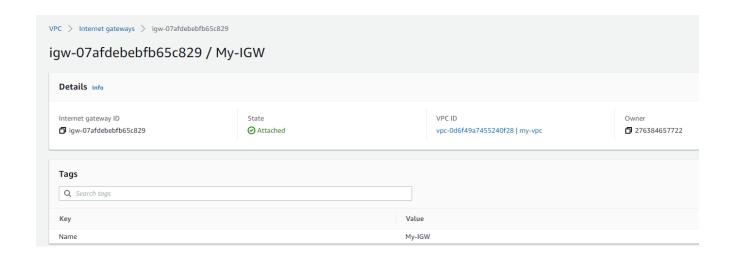
An internet gateway enables resources (like EC2 instances) in your public subnets to connect to the internet if the resource has a public IPv4 address or an IPv6 address. Similarly, resources on the internet can initiate a connection to resources in your subnet using the public IPv4 address or IPv6 address.

It will list the available internet gateways in the account here.



Step 13: Click on the internet gateway id with the name "My-IGW".

The details associated with this internet gateway will be available here.



References:

1. AWS VPC documentation (https://docs.aws.amazon.com/vpc/latest/userguide)