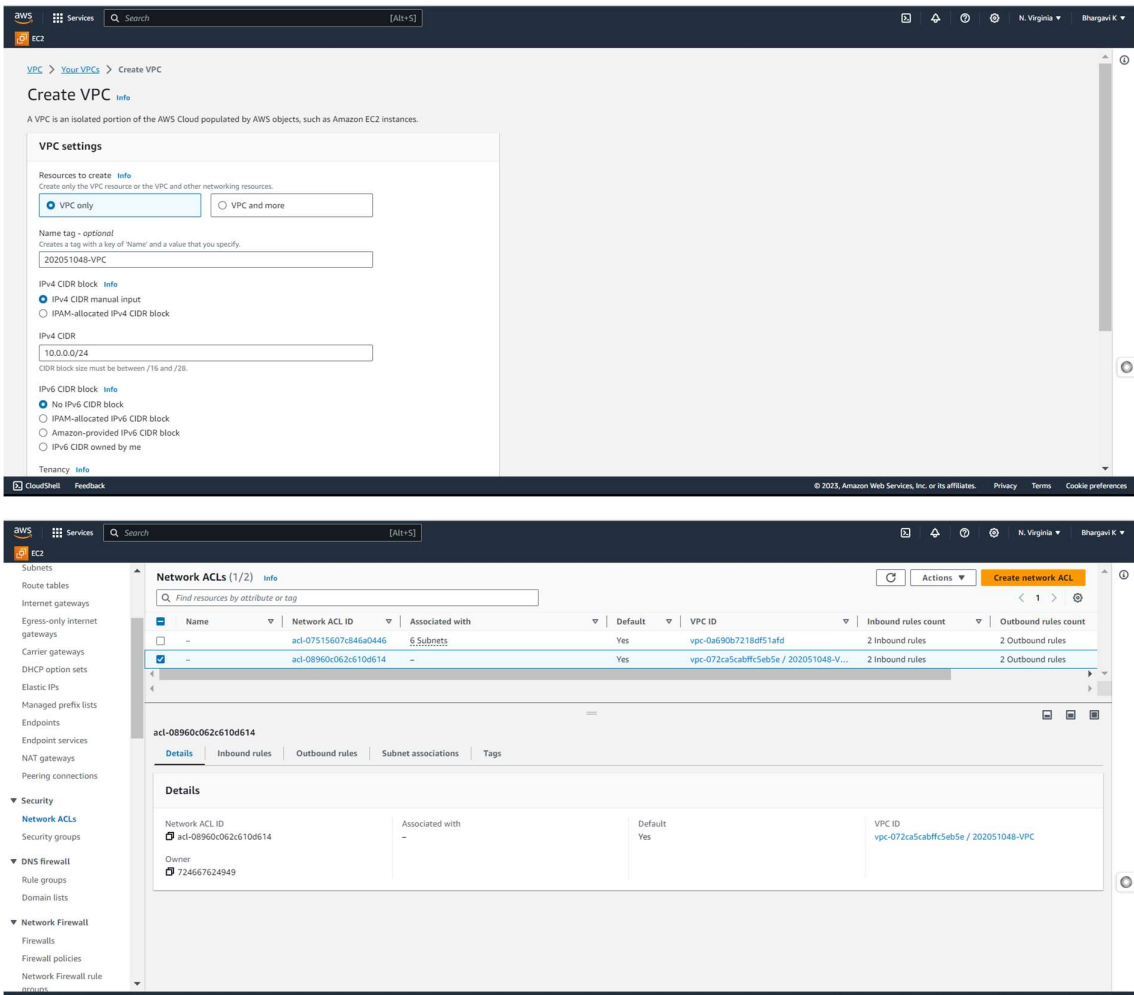


Name: Bhargavi Kamble

Student ID: 202051048

Assessment 8: VPC and Security

Task 1: Create a default NACL



For that we will create a default VPC the default NACL will be created too.

Task 2: Create a custom NACL

Create network ACL [Info](#)

A network ACL is an optional layer of security that acts as a firewall for controlling traffic in and out of a subnet.

Network ACL settings

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

202051048-NACL

VPC
VPC to use for this network ACL.

vpc-072ca5cabffc5eb5e (202051048-VPC)

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: Q, Name Value: optional
202051048-NACL Remove tag

Add tag

You can add 49 more tags

Cancel Create network ACL

Network ACLs (1/3) [Info](#)

Find resources by attribute or tag

Name	Network ACL ID	Associated with	Default	VPC ID	Inbound rules count	Outbound rules count
-	acl-07515607c846a0446	6 Subnets	Yes	vpc-0a690b7218df51afd	2 Inbound rules	2 Outbound rules
-	acl-08960c062c610d614	-	Yes	vpc-072ca5cabffc5eb5e / 202051048-V...	2 Inbound rules	2 Outbound rules
202051048-NACL	acl-0d5ed0b967230b5a6	-	No	vpc-072ca5cabffc5eb5e / 202051048-V...	1 Inbound rule	1 Outbound rule

acl-0d5ed0b967230b5a6 / 202051048-NACL

Details Inbound rules Outbound rules Subnet associations Tags

Details

Network ACL ID acl-0d5ed0b967230b5a6	Associated with -	Default No	VPC ID vpc-072ca5cabffc5eb5e / 202051048-VPC
Owner 724667624949			

acl-0d5ed0b967230b5a6 / 202051048-NACL [Actions](#)

Details [Info](#)

Network ACL ID acl-0d5ed0b967230b5a6	Associated with -	Default No	VPC ID vpc-072ca5cabffc5eb5e / 202051048-VPC
Owner 724667624949			

Inbound rules Outbound rules Subnet associations Tags

Inbound rules (1) [Filter inbound rules](#) [Edit inbound rules](#)

Rule number	Type	Protocol	Port range	Source	Allow/Deny
*	All traffic	All	All	0.0.0.0/0	Deny

Task 3: Difference between Security Groups and NACLs in terms of Statefulness:

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EC2

VPC > Subnets > Create subnet

Create subnet

VPC

VPC ID
Create subnets in this VPC.
vpc-072ca5cabfc5eb5e (202051048-VPC)

Associated VPC CIDRs

IPv4 CIDRs
10.0.0.0/24

Subnet settings

Specify the CIDR blocks and Availability Zone for the subnet.

Subnet 1 of 2

Subnet name
Create a tag with a key of 'Name' and a value that you specify.
202051048-Subnet1
The name can be up to 256 characters long.

Availability Zone
Choose the zone in which your subnet will reside, or let Amazon choose one for you.
US East (N. Virginia) / us-east-1a

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EC2

VPC > Subnets > subnet-0923eed37e067c5ca > Edit network ACL association

Edit network ACL association

Subnet network ACL settings

Subnet ID
subnet-0923eed37e067c5ca

Current network ACL
acl-064865f2b3d9ea59

Network ACL ID
acl-04d5dd76514122b0c (202051048-NACL)

Inbound rules (1)

Filter inbound rules

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EC2

VPC > Subnets > subnet-0923eed37e067c5ca > Edit network ACL association

Edit network ACL association

Subnet network ACL settings

Subnet ID
subnet-0923eed37e067c5ca

Current network ACL
acl-064865f2b3d9ea59

Network ACL ID
acl-04d5dd76514122b0c (202051048-NACL)

Inbound rules (1)

Filter inbound rules

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Subnet (subnet-0923eed37e067c5ca) has been successfully associated with network ACL (acl-04d5dd76514122b0c).

Subnets (1/8)

Find resources by attribute or tag

Name	Subnet ID	State	VPC	IPv4 CIDR
[Empty table body]				

Outbound rules (1)

Filter outbound rules

Rule number	Type	Protocol	Port range	Source	Allow/Deny
*	All traffic	All	All	0.0.0.0/0	Deny

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Launch an instance

Amazon EC2 allows you to create virtual machines, or instances, that run on the AWS Cloud. Quickly get started by following the simple steps below.

Name and tags

Name: 202051048-EC2 Add additional tags

Application and OS Images (Amazon Machine Image)

An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. Search or Browse for AMIs if you don't see what you are looking for below

Summary

Number of instances: 1

Software Image (AMI): Canonical, Ubuntu, 22.04 LTS, ...read more
ami-0fc5d935eb98bc3bc

Virtual server type (instance type): t2.micro

Firewall (security group): New security group

Storage (volumes): 1 volume(s) - 8 GiB

Cancel Launch Instance Review commands

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Edit inbound rules

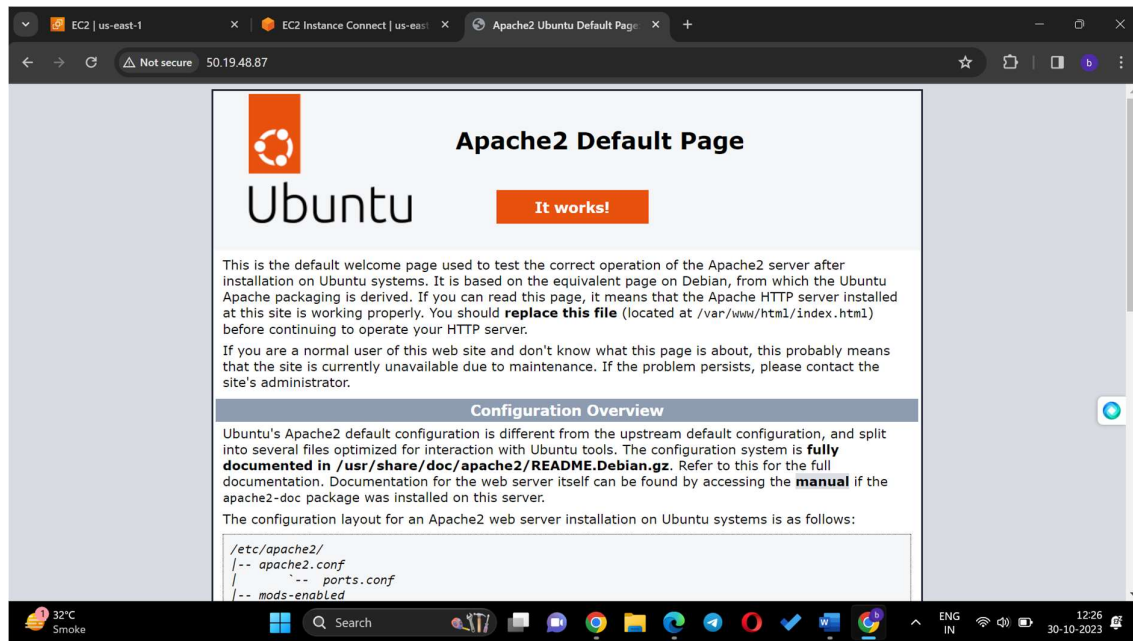
Inbound rules control the incoming traffic that's allowed to reach the instance.

Inbound rules

Security group rule ID	Type	Protocol	Port range	Source	Description - optional	
sgr-07402e3b2fce1ad34	SSH	TCP	22	Cu...	0.0.0.0/0	Delete
-	All traffic	All	All	An...	0.0.0.0/0	Delete

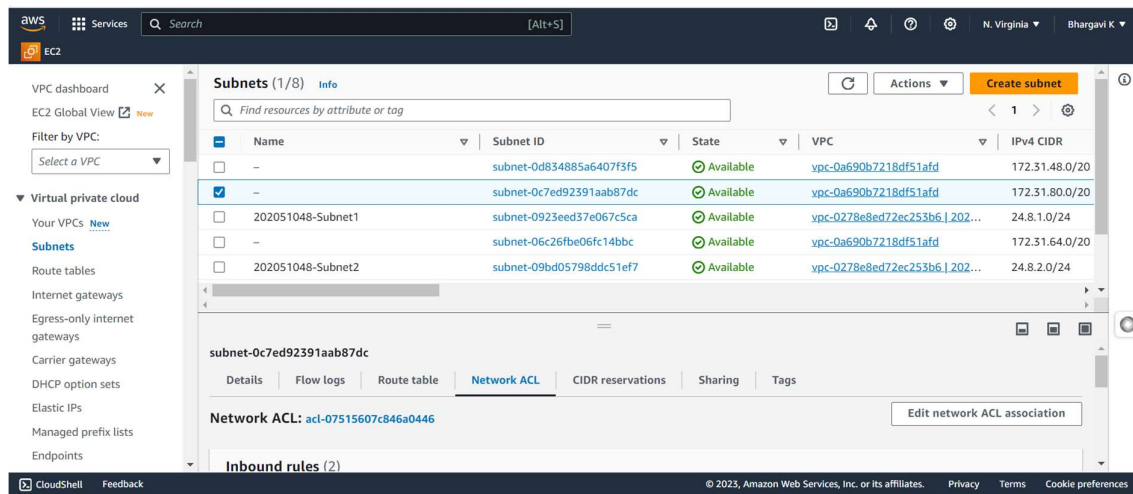
Add rule

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For security groups both in bound and out bound rules are working.

For NACL the traffic needs to be changed it'll not work.



aws Services Search [Alt+S]

EC2

VPC dashboard

EC2 Global View

Filter by VPC: Select a 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

Endpoints

Subnets (1/8)

Find resources by attribute or tag

Name	Subnet ID	State	VPC	IPv4 CIDR
-	subnet-0d834885a6407f3f5	Available	vpc-0a690b7218df51afd	172.31.48.0/20
-	subnet-0c7ed92391aab87dc	Available	vpc-0a690b7218df51afd	172.31.80.0/20
202051048-Subnet1	subnet-0923eed37e067c5ca	Available	vpc-0278e8ed72ec253b6 202...	24.8.1.0/24
-	subnet-06c26fbc06fc14bbc	Available	vpc-0a690b7218df51afd	172.31.64.0/20
202051048-Subnet2	subnet-09bd05798ddc51ef7	Available	vpc-0278e8ed72ec253b6 202...	24.8.2.0/24

Network ACL: acl-07515607c846a0446

Edit network ACL association

Inbound rules (2)

Filter inbound rules

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Same nacl for two subnets