

# Cloud Computing Laboratory Week-3

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6-D

Roll No.: 6

## Task A.

### Elastic IP Address

The screenshot displays the AWS Management Console interface. At the top, a green banner indicates "Elastic IP address allocated successfully. Elastic IP address 18.205.223.126". Below this, the "Elastic IP addresses (1/1)" section shows a table with one entry:

Name	Allocated IPv4 address	Type	Allocation ID	Associated instance ID	Private IP address	Association ID
-	18.205.223.126	Public IP	eipalloc-0ba837b77167b7323	-	-	-

The left sidebar shows the navigation menu with categories like VPC Dashboard, Virtual Private Cloud, Security, and AWS Network. The bottom of the console shows the "Summary" tab for the Elastic IP address 18.205.223.126.

# VPC Details

The screenshot shows the AWS Management Console interface for VPC Management. The left sidebar contains navigation links for VPC Dashboard, Filter by VPC, Select a VPC, and various AWS services like VPC, Subnets, Route Tables, Internet Gateways, etc. The main content area displays 'Your VPCs (1/2)' with a table listing VPCs. The selected VPC, 'vpc-0e503d9cc3e141fdb', is shown in detail below the table. The details section includes tabs for Details, CIDRs, Flow logs, and Tags. The Details tab is active, showing information such as VPC ID, State (Available), DNS hostnames (Enabled), DNS resolution (Enabled), Tenancy (Default), DHCP options set (dopt-c35e1eb9), Default VPC (No), Owner ID (716246579049), Main route table (rtb-070953a487c92f837), Main network ACL (acl-0932e9b26f04c89fc), and IPv6 CIDR (Network border group) (-).

Name	VPC ID	State	IPv4 CIDR	IPv6 CIDR (Network border group)	IPv6 pool
vishruth_vpc	vpc-0e503d9cc3e141fdb	Available	10.0.0.0/16	-	-
-	vpc-3d872040	Available	172.31.0.0/16	-	-

**vpc-0e503d9cc3e141fdb / vishruth\_vpc**

**Details**

VPC ID	vpc-0e503d9cc3e141fdb	State	Available	DNS hostnames	Enabled	DNS resolution	Enabled
Tenancy	Default	DHCP options set	dopt-c35e1eb9	Main route table	rtb-070953a487c92f837	Main network ACL	acl-0932e9b26f04c89fc
Default VPC	No	IPv4 CIDR	10.0.0.0/16	IPv6 pool	-	IPv6 CIDR (Network border group)	-
Owner ID	716246579049						

# Subnet

The screenshot shows the AWS Management Console interface for Subnets. The left sidebar contains navigation links for VPC Dashboard, Filter by VPC, Select a VPC, and various AWS services like VPC, Subnets, Route Tables, Internet Gateways, etc. The main content area displays 'Subnets (8)' with a table listing subnets. The selected subnet, 'subnet-b83268f5', is shown in detail below the table. The details section includes tabs for Details, CIDRs, Flow logs, and Tags. The Details tab is active, showing information such as Subnet ID, State (Available), VPC (vpc-3d872040), IPv4 CIDR (172.31.16.0/20), IPv6 CIDR (-), and Available IPv4 addresses (4091).

Name	Subnet ID	State	VPC	IPv4 CIDR	IPv6 CIDR	Available IPv4 addresses
-	subnet-b83268f5	Available	vpc-3d872040	172.31.16.0/20	-	4091
-	subnet-a11f8bfe	Available	vpc-3d872040	172.31.32.0/20	-	4091
-	subnet-b69b0a97	Available	vpc-3d872040	172.31.80.0/20	-	4091
-	subnet-95ade09b	Available	vpc-3d872040	172.31.64.0/20	-	4091
Private subnet	subnet-0c988fa3c329eea9d	Available	vpc-0e503d9cc3e141fdb   vish...	10.0.7.0/24	-	251
-	subnet-bbaa748a	Available	vpc-3d872040	172.31.48.0/20	-	4091
Public subnet	subnet-08c008dbecbf8d3cd	Available	vpc-0e503d9cc3e141fdb   vish...	10.0.4.0/24	-	250
-	subnet-97b239f1	Available	vpc-3d872040	172.31.0.0/20	-	4091

**Select a subnet**

# Public Network Details

The screenshot shows the AWS VPC Management Console. The left sidebar contains navigation links for VPC Dashboard, Subnets, Route Tables, Internet Gateways, Egress Only Internet Gateways, Carrier Gateways, DHCP Options Sets, Elastic IPs, Managed Prefix Lists, Endpoints, Endpoint Services, NAT Gateways, Peering Connections, SECURITY (Network ACLs, Security Groups), REACHABILITY (Reachability Analyzer), and AWS NETWORK (Firewall, Firewall policies, Network Firewall rule groups). The main content area displays 'Subnets (1/8)' with a table of subnets. Below the table, the details for 'subnet-08c008dbecbf8d3cd / Public subnet' are shown, including tabs for Details, Flow logs, Route table, Network ACL, Tags, and Sharing. The Details tab is active, showing information such as Subnet ID, State (Available), VPC (vpc-0e503d9cc3e141fdb | vishruth\_vpc), IPv4 CIDR (10.0.4.0/24), Availability Zone (us-east-1a), Network ACL (acl-0932e9b26f04c89fc), and Auto-assign public IPv4 address (No).

Name	Subnet ID	State	VPC	IPv4 CIDR	IPv6 CIDR	Available IPv4 addresses
Public subnet	subnet-08c008dbecbf8d3cd	Available	vpc-0e503d9cc3e141fdb   vishruth_vpc	10.0.4.0/24	-	250
Private subnet	subnet-0c98fa3c329eea9d	Available	vpc-0e503d9cc3e141fdb   vishruth_vpc	10.0.7.0/24	-	251
-	subnet-b83268f5	Available	vpc-3d872040	172.31.16.0/20	-	4091

**subnet-08c008dbecbf8d3cd / Public subnet**

**Details**

Subnet ID	subnet-08c008dbecbf8d3cd	VPC	vpc-0e503d9cc3e141fdb   vishruth_vpc
State	Available	Availability Zone	us-east-1a
Available IPv4 addresses	250	Network ACL	acl-0932e9b26f04c89fc
Network border group	us-east-1	Auto-assign customer-owned IPv4 address	No
Auto-assign public IPv4 address	No	Subnet ARN	arn:aws:ec2:us-east-1:716246579049:subnet-08c008dbecbf8d3cd
Outpost ID	-	Owner	716246579049

# Inbound Rules Change

The screenshot shows the AWS VPC Management Console with a green notification banner at the top stating 'You have successfully updated inbound rules for acl-0932e9b26f04c89fc'. The main content area displays 'Network ACLs' for 'acl-0932e9b26f04c89fc'. The 'Inbound rules' tab is active, showing a table of inbound rules. The table has columns for Rule number, Type, Protocol, Port range, Source, and Allow/Deny. There are two rules: Rule 100 (HTTP (80), TCP (6), Port 80, Source 0.0.0.0/0, Allow) and Rule \* (All traffic, All, All, Source 0.0.0.0/0, Deny).

**acl-0932e9b26f04c89fc**

**Details**

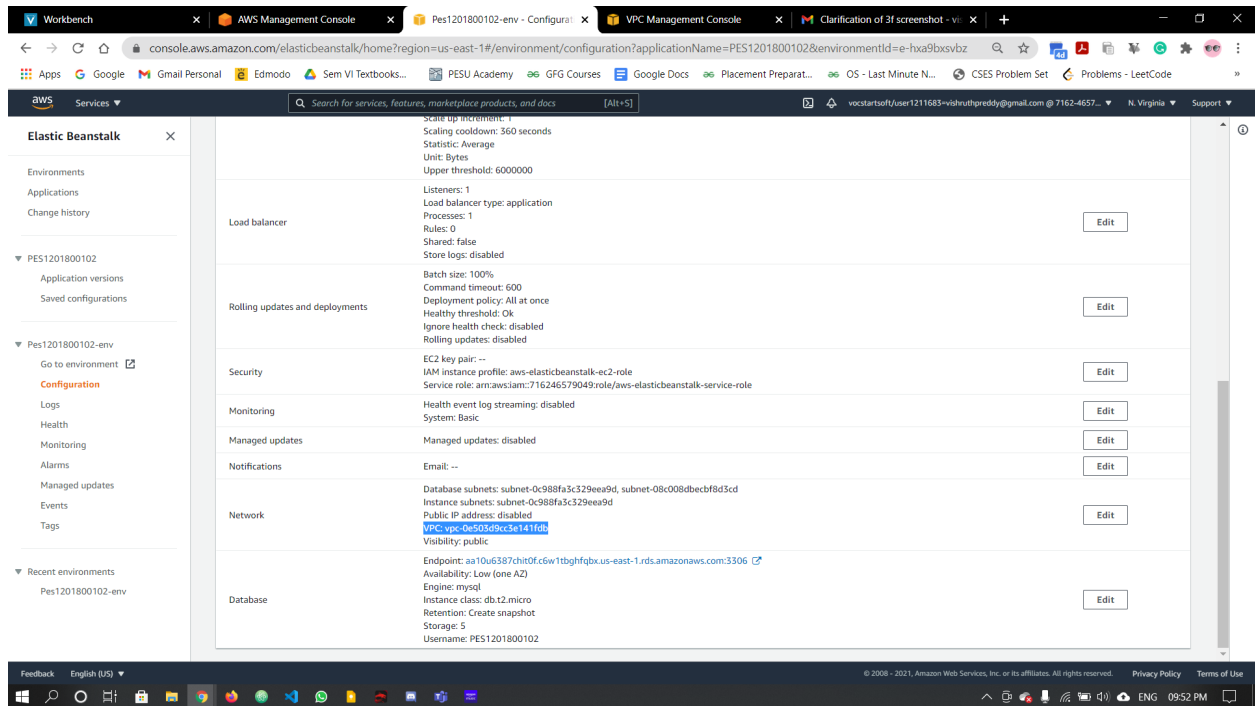
Network ACL ID	acl-0932e9b26f04c89fc	Associated with	2 Subnets
Owner	716246579049	Default	Yes
VPC ID	vpc-0e503d9cc3e141fdb   vishruth_vpc		

**Inbound rules (2)**

Rule number	Type	Protocol	Port range	Source	Allow/Deny
100	HTTP (80)	TCP (6)	80	0.0.0.0/0	Allow
*	All traffic	All	All	0.0.0.0/0	Deny

# Task B

## Migrating to VPC



The screenshot displays the AWS Management Console for an Elastic Beanstalk environment. The left sidebar shows the navigation menu with 'Configuration' selected. The main content area shows the configuration details for the environment 'Pes1201800102-env'.

Category	Configuration Details	Action
Load balancer	Listeners: 1 Load balancer type: application Processes: 1 Rules: 0 Shared: false Store logs: disabled	<a href="#">Edit</a>
Rolling updates and deployments	Batch size: 100% Command timeout: 600 Deployment policy: All at once Healthy threshold: Ok Ignore health check: disabled Rolling updates: disabled	<a href="#">Edit</a>
Security	EC2 key pair: -- IAM instance profile: aws-elasticbeanstalk-ec2-role Service role: arn:aws:iam::716246579049:role/aws-elasticbeanstalk-service-role	<a href="#">Edit</a>
Monitoring	Health event log streaming: disabled System: Basic	<a href="#">Edit</a>
Managed updates	Managed updates: disabled	<a href="#">Edit</a>
Notifications	Email: --	<a href="#">Edit</a>
Network	Database subnets: subnet-0c98ffa3c329eea9d, subnet-08c008dbecbf8d3cd Instance subnets: subnet-0c98ffa3c329eea9d Public IP address: disabled <b>VPC: vpc-0e505d9cc3e141fdb</b> Visibility: public	<a href="#">Edit</a>
Database	Endpoint: aa10u6387chit0f.c5w1tbghfbx.us-east-1.rds.amazonaws.com:3306 Availability: Low (one AZ) Engine: mysql Instance class: db.t2.micro Retention: Create snapshot Storage: 5 Username: PES1201800102	<a href="#">Edit</a>