

CLOUD COMPUTING LAB 7

Aim : Aim: Demonstrate the Virtual Network Private Security in the Public Cloud for the Virtual Machine, Databases and Storage. Describe the step-by-step process, including subnet creation, route table configuration, and launching instances.

Task 1: Create Your VPC

The screenshot displays the AWS Management Console interface for creating a new VPC. The browser address bar shows the URL: `us-east-1.console.aws.amazon.com/vpc/home?region=us-east-1#CreateVpc:createMode=vpcWithResources`. The page title is "Create VPC".

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 auto-generation [Info](#)
Enter a value for the Name tag. This value will be used to auto-generate Name tags for all resources in the VPC.

☒ Auto-generate

IPv4 CIDR block [Info](#)
Determine the starting IP and the size of your VPC using CIDR notation.

65,536 IPs
CIDR block size must be between /16 and /28.

IPv6 CIDR block [Info](#)
☒ No IPv6 CIDR block
☐ Amazon-provided IPv6 CIDR block

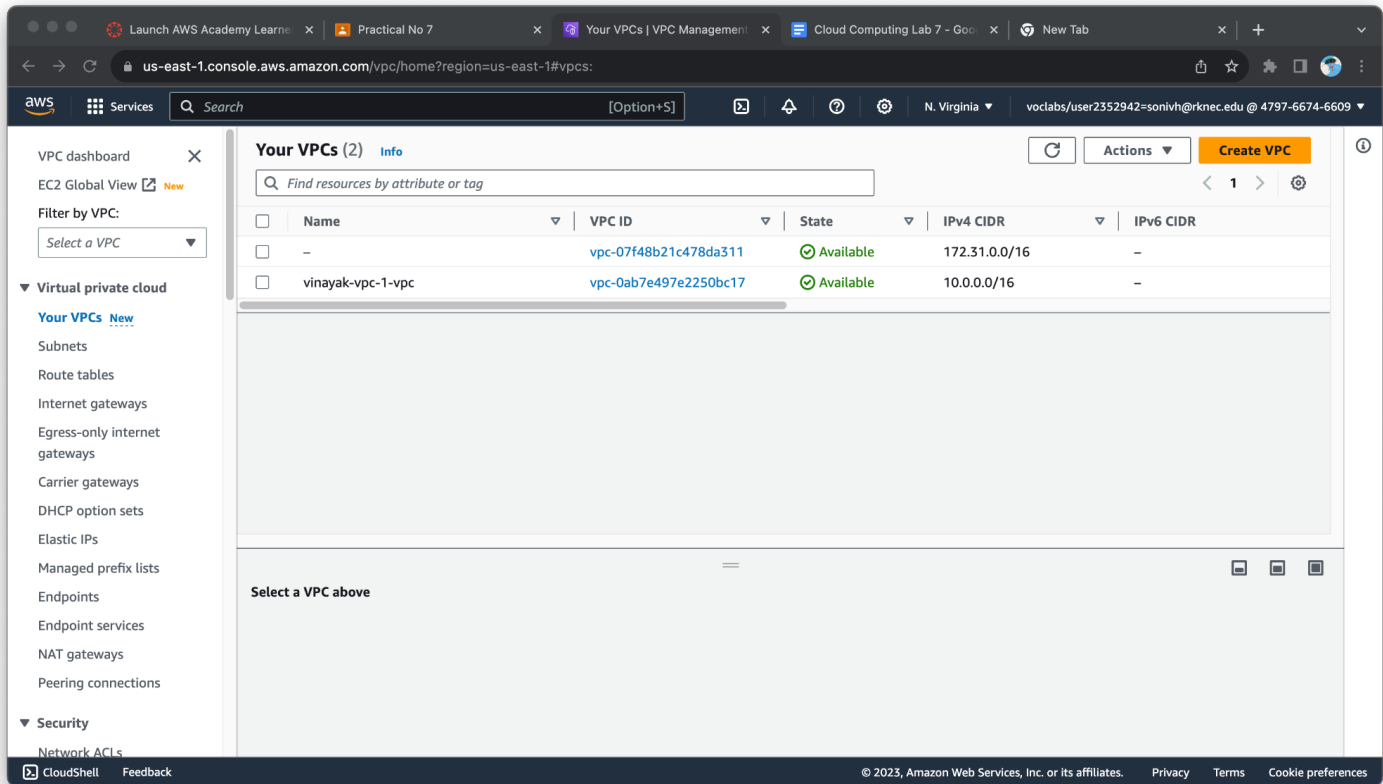
Preview

The preview section shows a diagram of the VPC resources:

- VPC** [Show details](#)
Your AWS virtual network
vinayak-vpc-1
- Subnets (2)**
Subnets within this VPC
us-east-1a
vinayak-vpc-1-subnet-public1-us-east-
vinayak-vpc-1-subnet-private1-us-east-
- Route table**
Route net
vinayak
vinayak

The diagram shows the VPC connected to the subnets, which are then connected to the route table.

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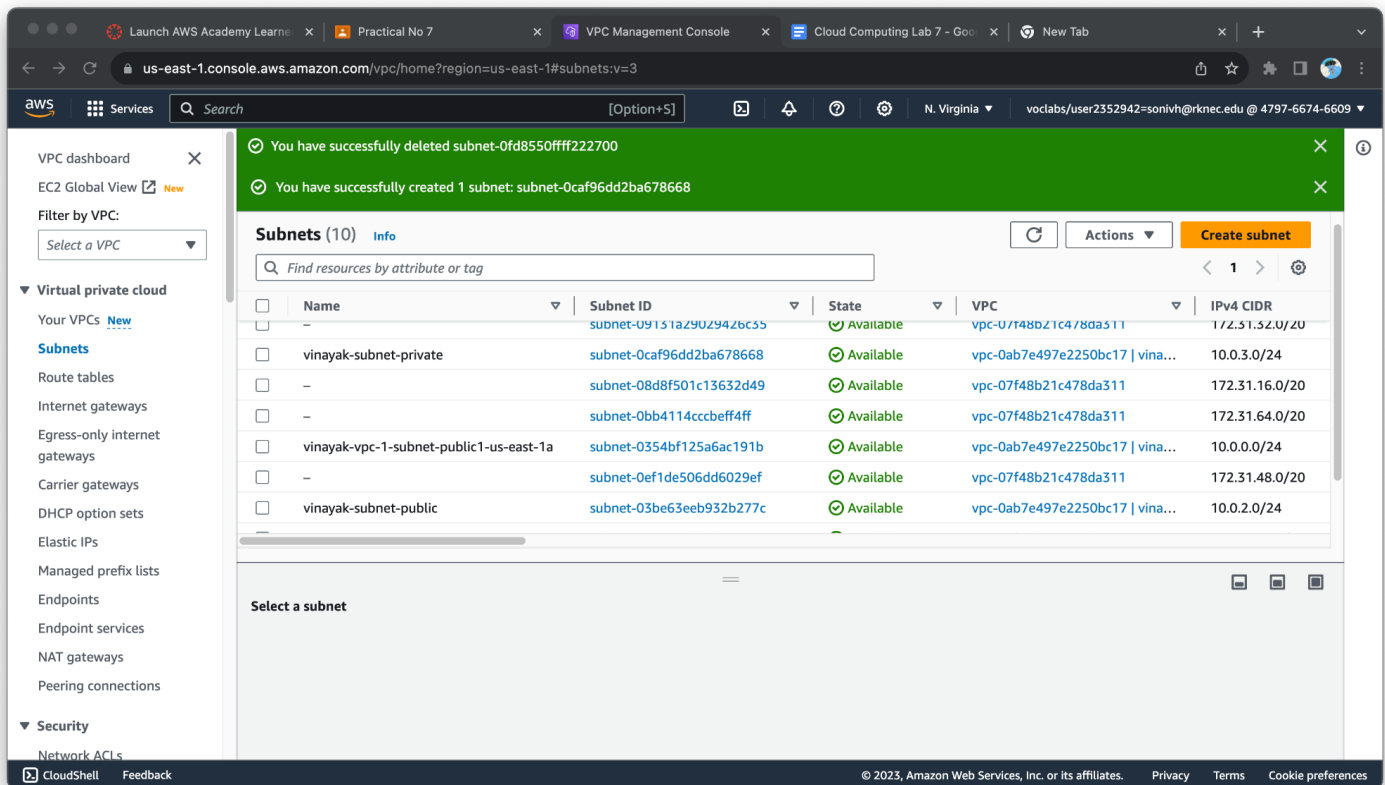
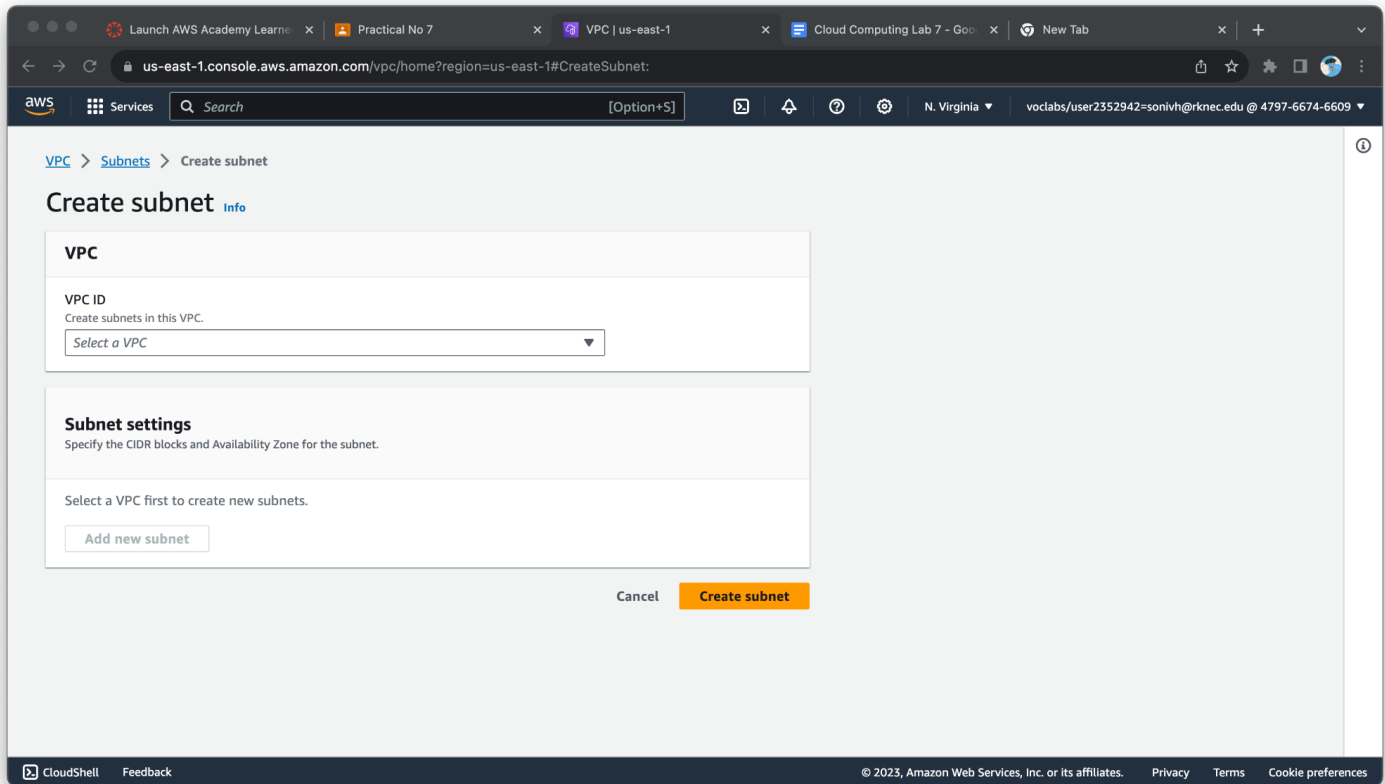


The screenshot shows the AWS Management Console for the 'us-east-1' region. The main content area is titled 'Your VPCs (2)' and contains a table with the following data:

Name	VPC ID	State	IPv4 CIDR	IPv6 CIDR
-	vpc-07f48b21c478da311	Available	172.31.0.0/16	-
vinayak-vpc-1-vpc	vpc-0ab7e497e2250bc17	Available	10.0.0.0/16	-

The left sidebar lists various AWS services under 'Virtual private cloud' and 'Security'. The top navigation bar includes the AWS logo, search bar, and user information.

Task 2: Create Additional Subnets



The screenshot displays the AWS Management Console VPC dashboard for a VPC in the us-east-1 region. The dashboard includes a sidebar with navigation links for VPC dashboard, EC2 Global View, and various VPC resources. The main content area shows the VPC details and the Resource map.

VPC Details:

- Default VPC: No
- IPv4 CIDR: 10.0.0.0/16
- IPv6 pool: -
- IPv6 CIDR (Network border group): -
- Network Address Usage metrics: Disabled
- Route 53 Resolver DNS Firewall rule groups: Failed to load rule groups
- Owner ID: 479766746609

Resource map:

- Subnets (4):** Subnets within this VPC
 - us-east-1a
 - vinayak-vpc-1-subnet-public1-us-east...
 - vinayak-vpc-1-subnet-private1-us-east...
 - us-east-1b
 - vinayak-subnet-public
 - vinayak-subnet-private
- Route tables (3):** Route network traffic to resources
 - rtb-098c62b3403983be8
 - vinayak-vpc-1-rtb-public
 - vinayak-vpc-1-rtb-private1-us-east-1a
- Network connections (3):** Connections to other networks
 - vinayak-vpc-1-igw
 - vinayak-vpc-1-nat-public1-us-east-1a
 - vinayak-vpc-1-vpc-s3

The Resource map shows the connections between subnets, route tables, and network connections. The subnets are connected to the route tables, which are then connected to the network connections.