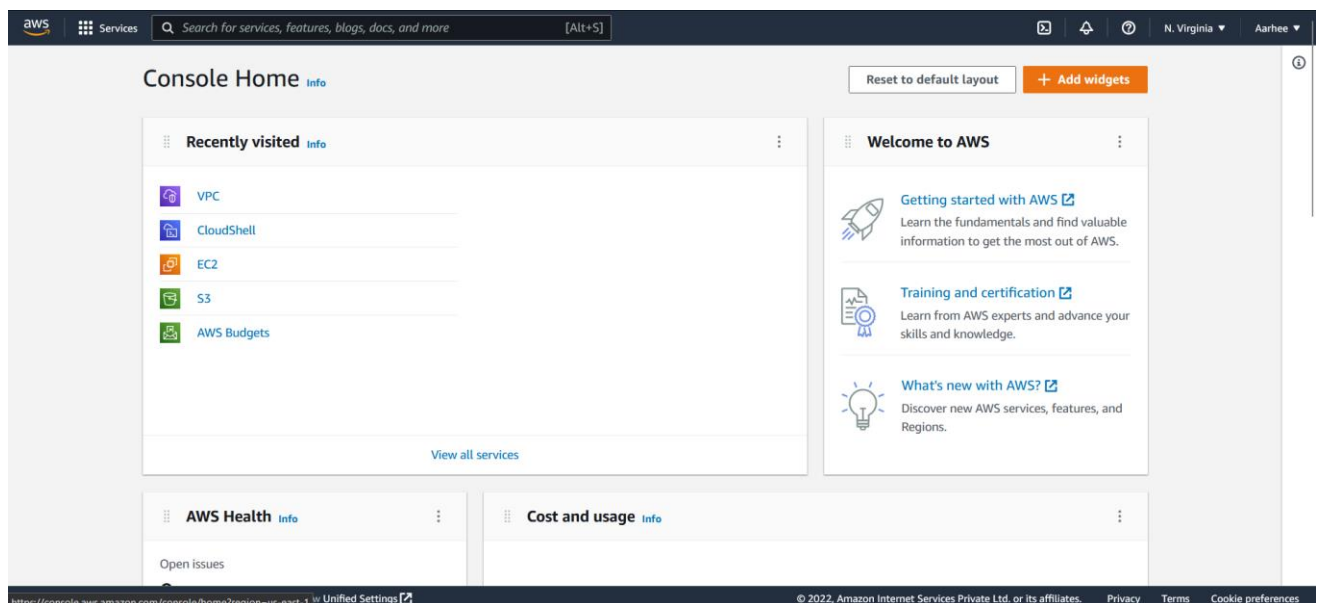


## Experiment 3 - Configuring Virtual Private Cloud VPC & Troubleshoot a VPC

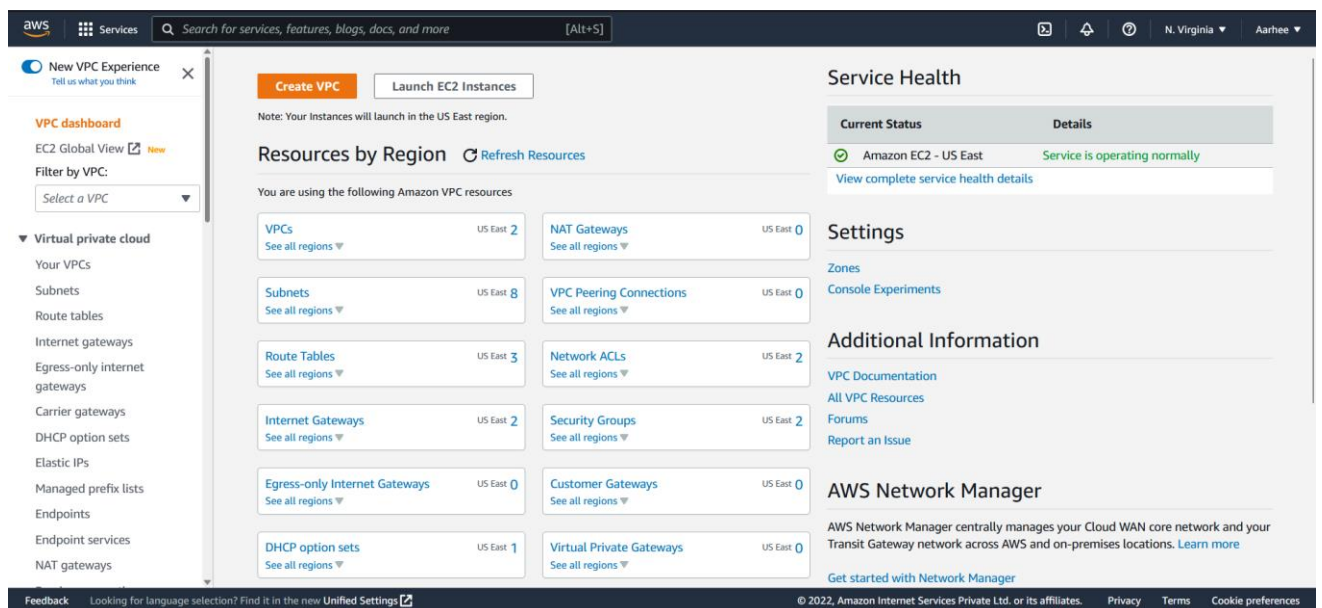
**AIM:** To configure a Virtual Private Cloud VPC & Troubleshoot a VPC

### PROCEDURE:

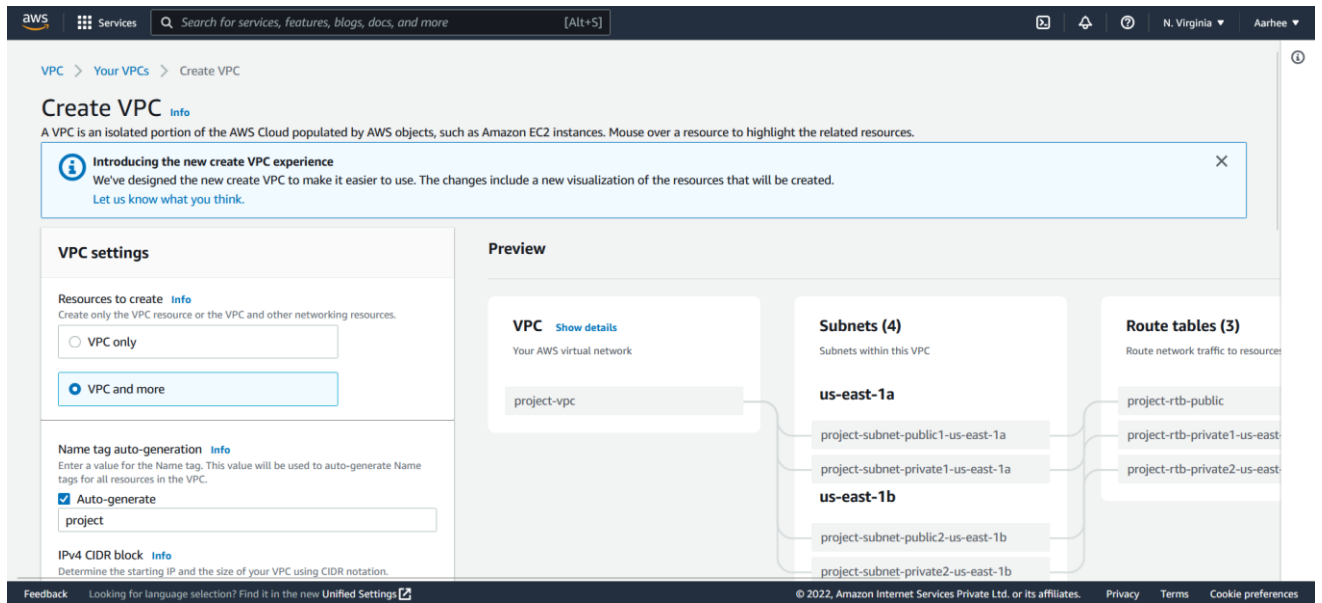
1. Firstly, open the AWS console homepage on browser (<https://aws.amazon.com/console/>).



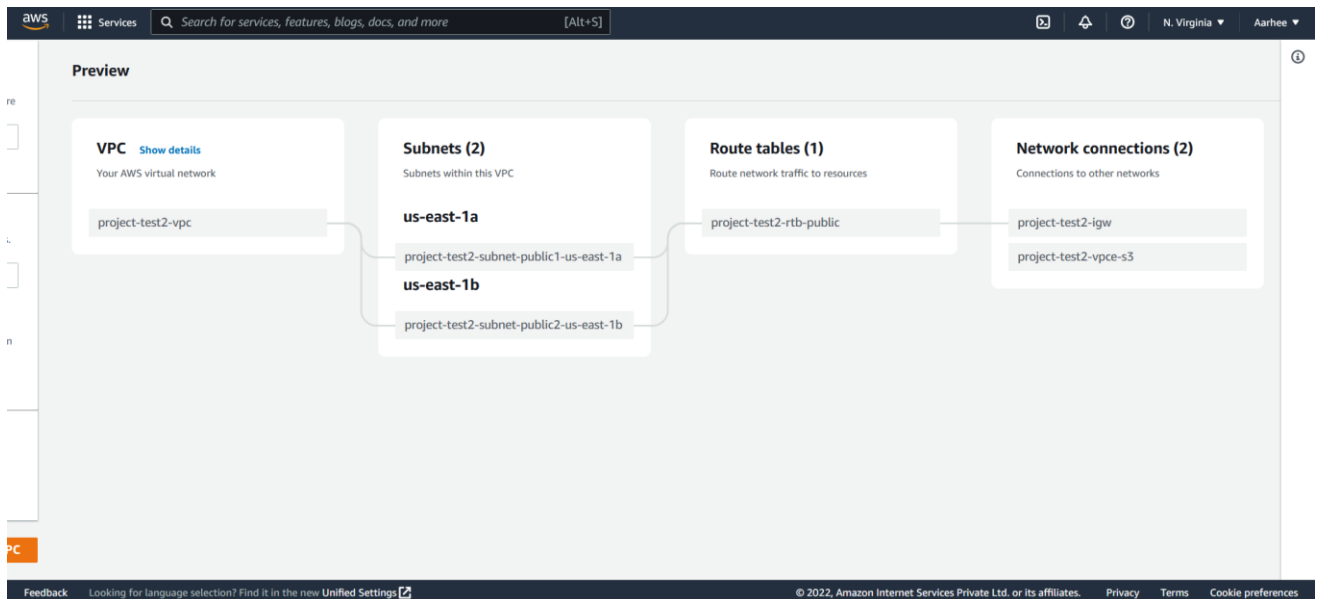
2. Search for VPC in the search bar and open the VPC dashboard page.



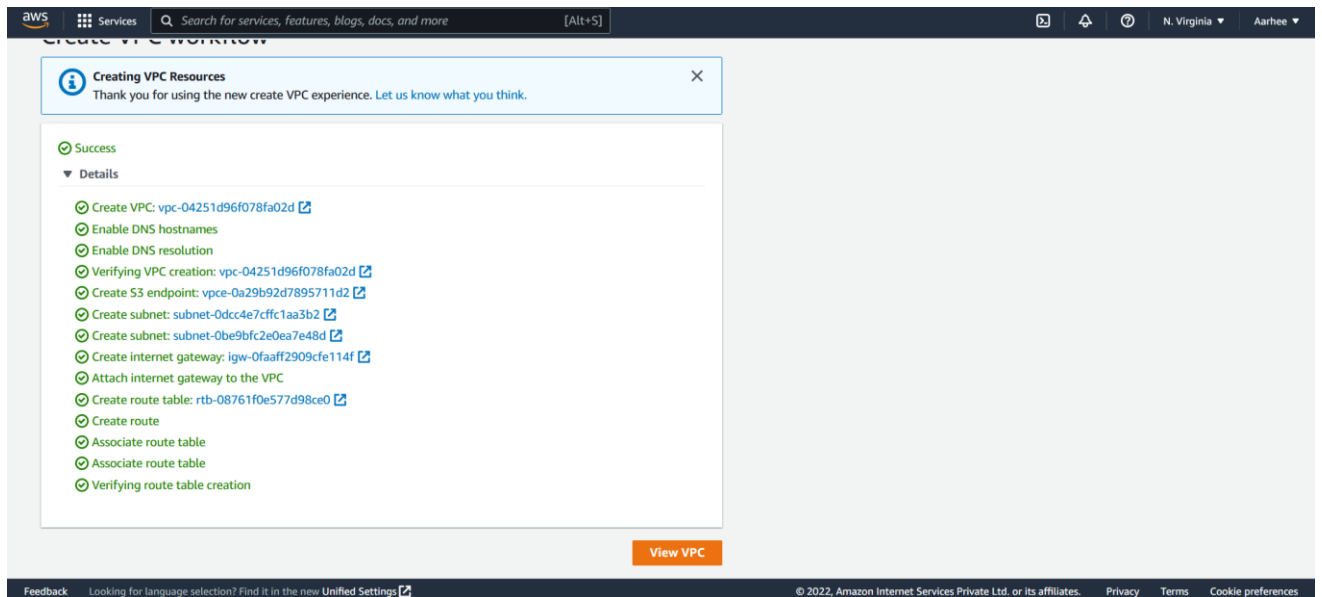
3. To create a new VPC, click “Create VPC” and go to the Create VPC page.



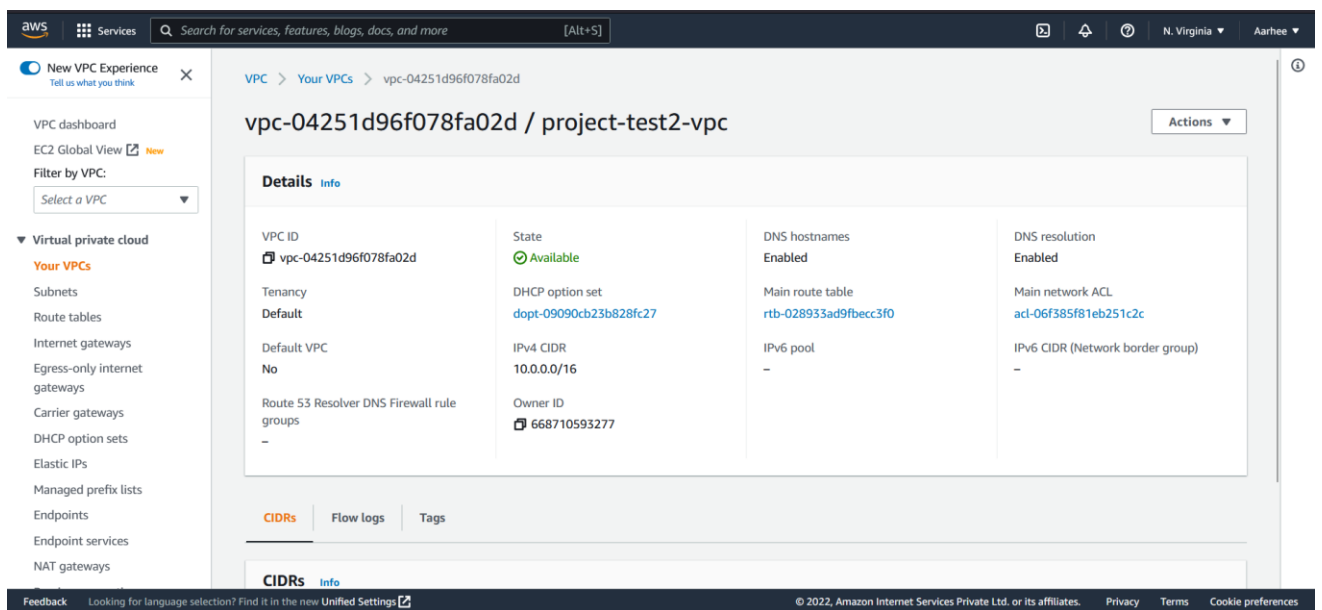
4. Select the following configurations with appropriate VPC name.



5. Click on "Create VPC" button and wait for your VPC to be created.



6. Click on “View VPC” to view your VPC details.



7. Click on “Subnets” in the left side menu to view subnets of your VPC.

**Subnets (10)**

Name	Subnet ID	State	VPC	IPv4 CIDR	IPv6 CIDR
project-test2-subne...	subnet-0be9bfc2e0ea7e48d	Available	vpc-04251d96f078fa02d   pro...	10.0.16.0/20	-
-	subnet-06ddb506e2dcb2a0f	Available	vpc-025962acd08bfbdf	172.31.32.0/20	-
-	subnet-0442144f48cbeb8c2	Available	vpc-025962acd08bfbdf	172.31.0.0/20	-
-	subnet-0c77ac38d7bb59a03	Available	vpc-025962acd08bfbdf	172.31.48.0/20	-
-	subnet-0350040bf66fec232	Available	vpc-025962acd08bfbdf	172.31.64.0/20	-
project-test1-subne...	subnet-06fd7f1d61818a933	Available	vpc-04e357e43fc087f21   proj...	10.0.0.0/20	-
project-test1-subne...	subnet-008afd4407cdcbca3	Available	vpc-04e357e43fc087f21   proj...	10.0.16.0/20	-

Select a subnet

8. Click on “Route Tables” in the left side menu to view route tables of your VPC.

**Route tables (5)**

Name	Route table ID	Explicit subnet associat...	Edge associations	Main	VPC	Ow...
project-test2-rtb-p...	rtb-08761f0e577d98ce0	2 subnets	-	No	vpc-04251d96f078fa02d   pro...	66871...
-	rtb-028933ad9fbec3f0	-	-	Yes	vpc-04251d96f078fa02d   pro...	66871...
-	rtb-0dafd1e7c662123f9	-	-	Yes	vpc-025962acd08bfbdf	66871...
-	rtb-02bdc92e0ec70abe2	-	-	Yes	vpc-04e357e43fc087f21   proj...	66871...
project-test1-rtb-p...	rtb-0f5d198c15665ef55	2 subnets	-	No	vpc-04e357e43fc087f21   proj...	66871...

Select a route table

9. Click on “Network ACL’s” in the left side menu to view ACLs of your VPC.

SUBMITTED BY – AARHEE PHUKAN(RA2011028010092)

The screenshot shows the AWS Management Console interface for Network ACLs. The left sidebar contains a navigation menu with categories like Endpoints, Endpoint services, NAT gateways, Peering connections, Security, Network Analysis, DNS firewall, Network Firewall, and Virtual private network. The 'Security' section is expanded, and 'Network ACLs' is selected. The main content area shows a table of Network ACLs with columns for Name, Network ACL ID, Associated with, Default, VPC ID, and Inbound rules. There are three Network ACLs listed, each associated with 2 subnets. The bottom of the page features a footer with a Feedback link, a language selection prompt, copyright information for Amazon Internet Services Private Ltd., and links to Privacy, Terms, and Cookie preferences.

<input type="checkbox"/>	Name	Network ACL ID	Associated with	Default	VPC ID	Inbound rules
<input type="checkbox"/>	-	acl-028d2a18bdd51a2...	6 Subnets	Yes	vpc-025962acd08bfbdf	2 Inbound
<input type="checkbox"/>	-	acl-0a3ee7ebd246b67ca	2 Subnets	Yes	vpc-04e357e43fc087f21 / project-test...	2 Inbound
<input type="checkbox"/>	-	acl-06f385f81eb251c2c	2 Subnets	Yes	vpc-04251d96f078fa02d / project-test...	2 Inbound

## RESULT:

A Virtual Private Cloud (VPC) was successfully created and troubleshooted.