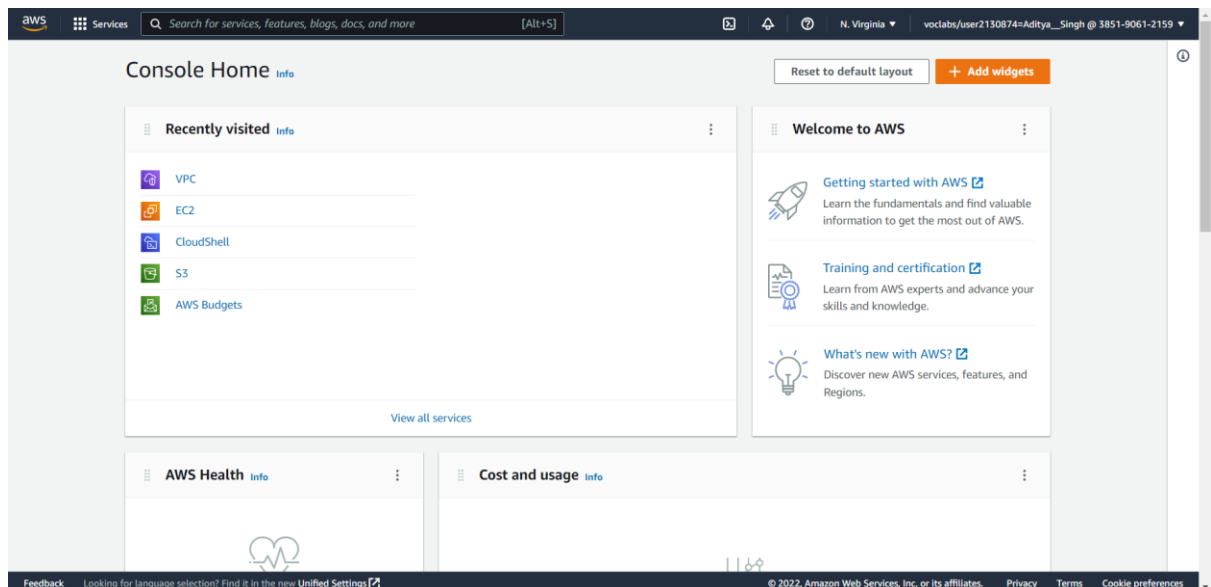


Experiment 3 - Configuring Virtual Private Cloud VPC & Troubleshoot a VPC

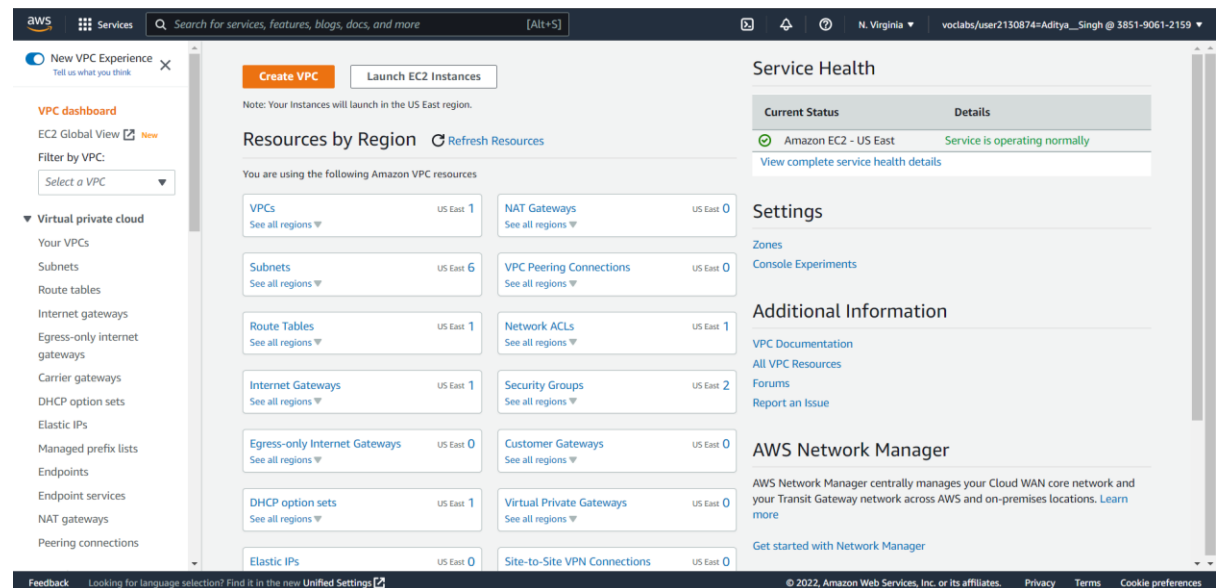
AIM: - To configure a Virtual Private Cloud VPC & Troubleshoot a VPC

Procedure: -

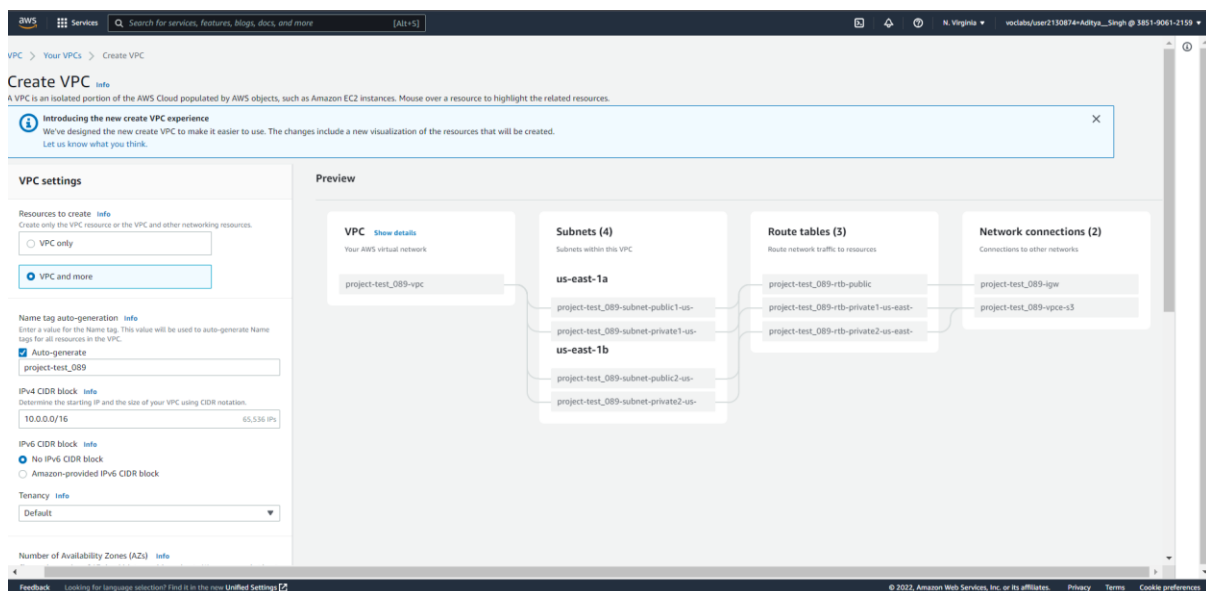
1. Firstly, open the AWS console homepage on browser (<https://aws.amazon.com/console/>).



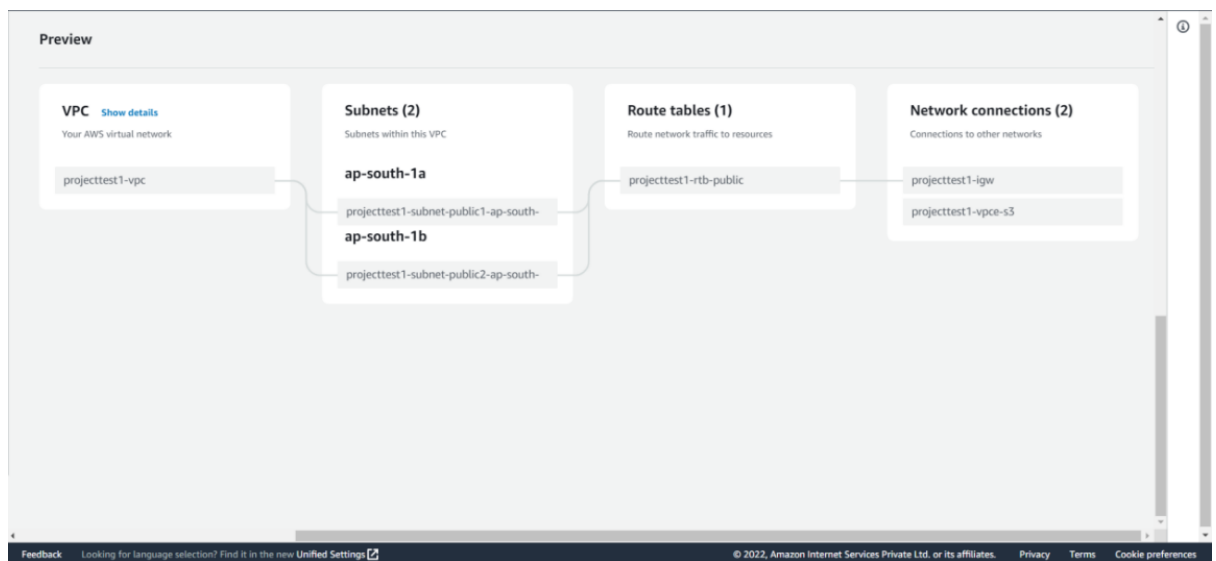
2. Search for VPC in the search bar and open the VPC dashboard page.



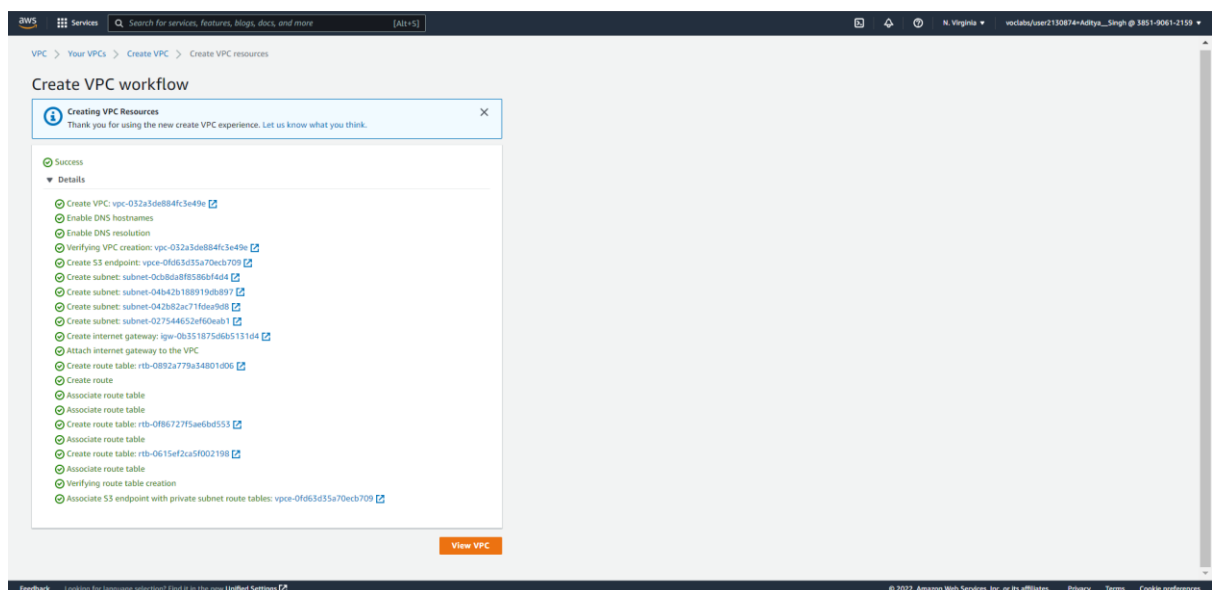
3. To create a new VPC, click “Create VPC” and go to the Create VPC page.



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.

The screenshot shows the AWS Management Console interface. On the left, the navigation menu is visible with categories like 'Virtual private cloud', 'Security', and 'Network ACLs'. The main content area displays the details for a specific VPC, 'vpc-032a3de884fc3e49e / project-test_089-vpc'. The 'Details' tab is active, showing a summary of the VPC's configuration. Below this, the 'CIDRs' tab is selected, displaying a table of the VPC's subnets.

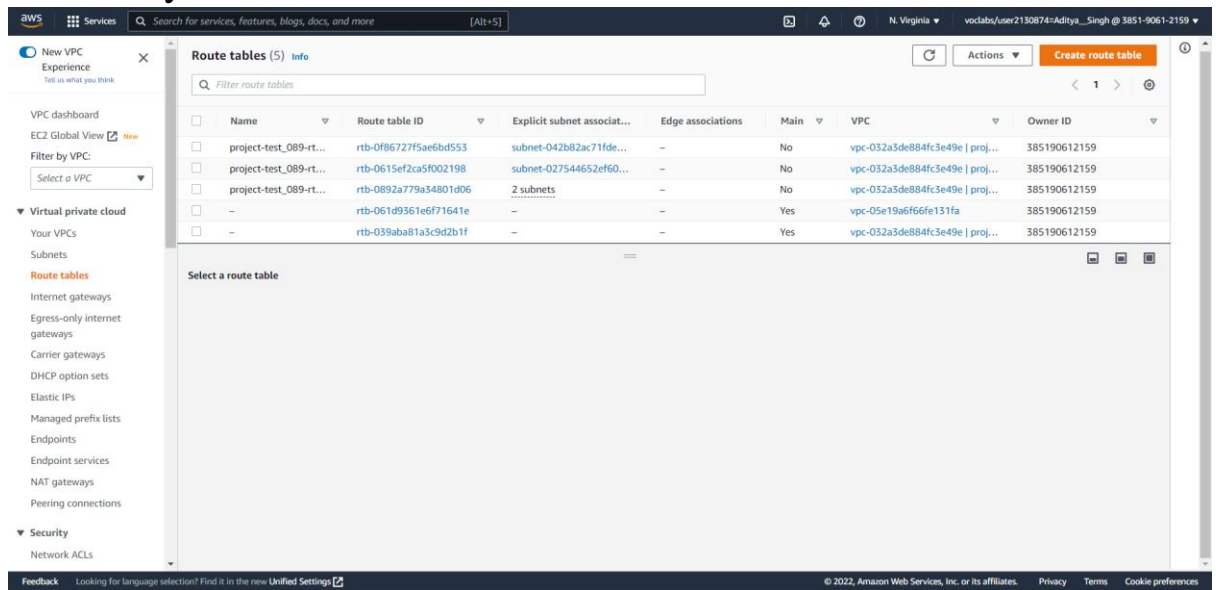
Address type	CIDR	Network Border Group	Pool
IPv4	10.0.0.0/16	-	-

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

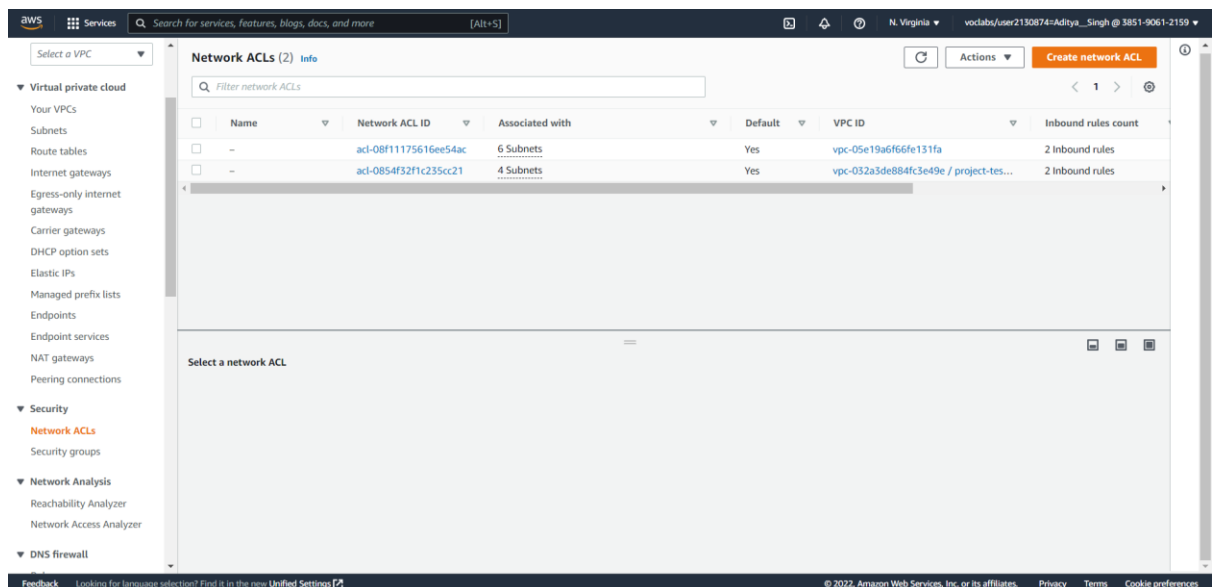
The screenshot shows the AWS Management Console interface with the 'Subnets' page selected. The left navigation menu is visible, and the main content area displays a list of subnets associated with the VPC 'vpc-032a3de884fc3e49e'. The subnets are listed in a table with columns for Name, Subnet ID, State, VPC, IPv4 CIDR, IPv6 CIDR, and Availability Zone. A 'Create subnet' button is visible in the top right corner.

Name	Subnet ID	State	VPC	IPv4 CIDR	IPv6 CIDR	Availability
project-test_089-su...	subnet-04b42b188919db897	Available	vpc-032a3de884fc3e49e proj...	10.0.16.0/20	-	4091
-	subnet-063f7bb80a147b52e	Available	vpc-05e19a6f66fe131fa	172.31.16.0/20	-	4091
project-test_089-su...	subnet-042b82ac71fdea9d8	Available	vpc-032a3de884fc3e49e proj...	10.0.128.0/20	-	4091
-	subnet-06e59707063a30cfe	Available	vpc-05e19a6f66fe131fa	172.31.48.0/20	-	4091
project-test_089-su...	subnet-027544652ef60eab1	Available	vpc-032a3de884fc3e49e proj...	10.0.144.0/20	-	4091
-	subnet-05a98b6a909777563	Available	vpc-05e19a6f66fe131fa	172.31.64.0/20	-	4091
project-test_089-su...	subnet-0cb8da8f8586bf4d4	Available	vpc-032a3de884fc3e49e proj...	10.0.0.0/20	-	4091
-	subnet-02758ace470a699b6	Available	vpc-05e19a6f66fe131fa	172.31.80.0/20	-	4088
-	subnet-0b830967c0491ea20	Available	vpc-05e19a6f66fe131fa	172.31.32.0/20	-	4091
-	subnet-0345e0f847fe366ca	Available	vpc-05e19a6f66fe131fa	172.31.0.0/20	-	4091

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



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



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