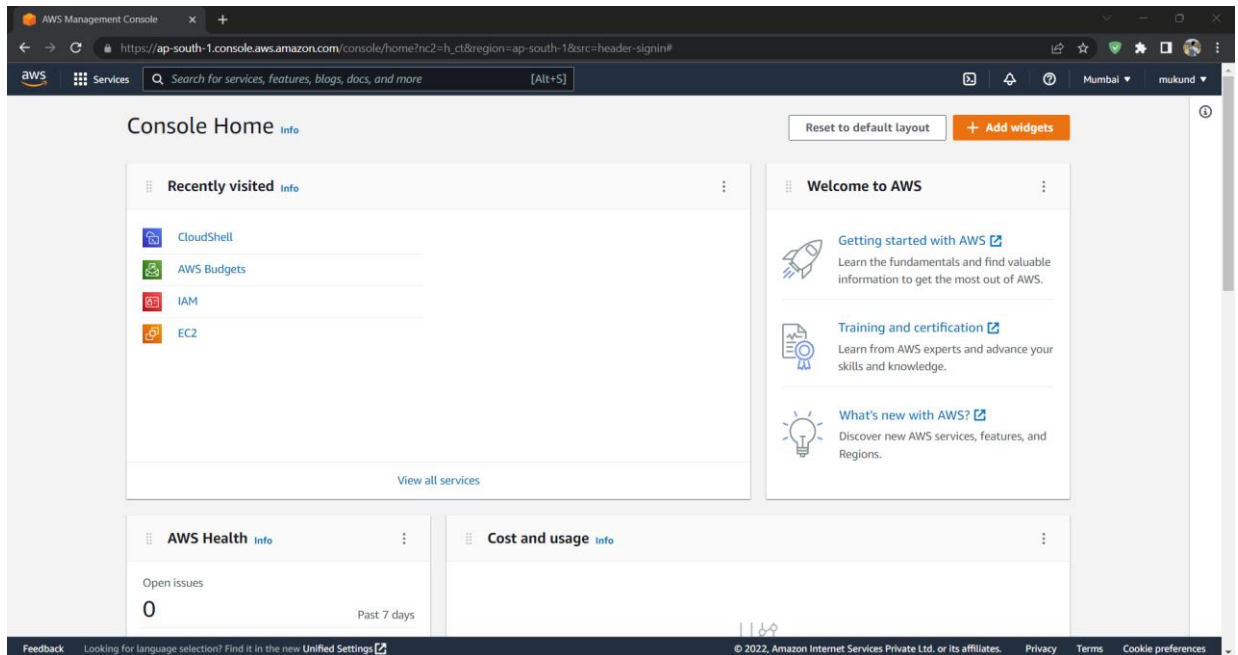


## Experiment 3 - Configuring Virtual Private Cloud VPC & Troubleshoot a VPC

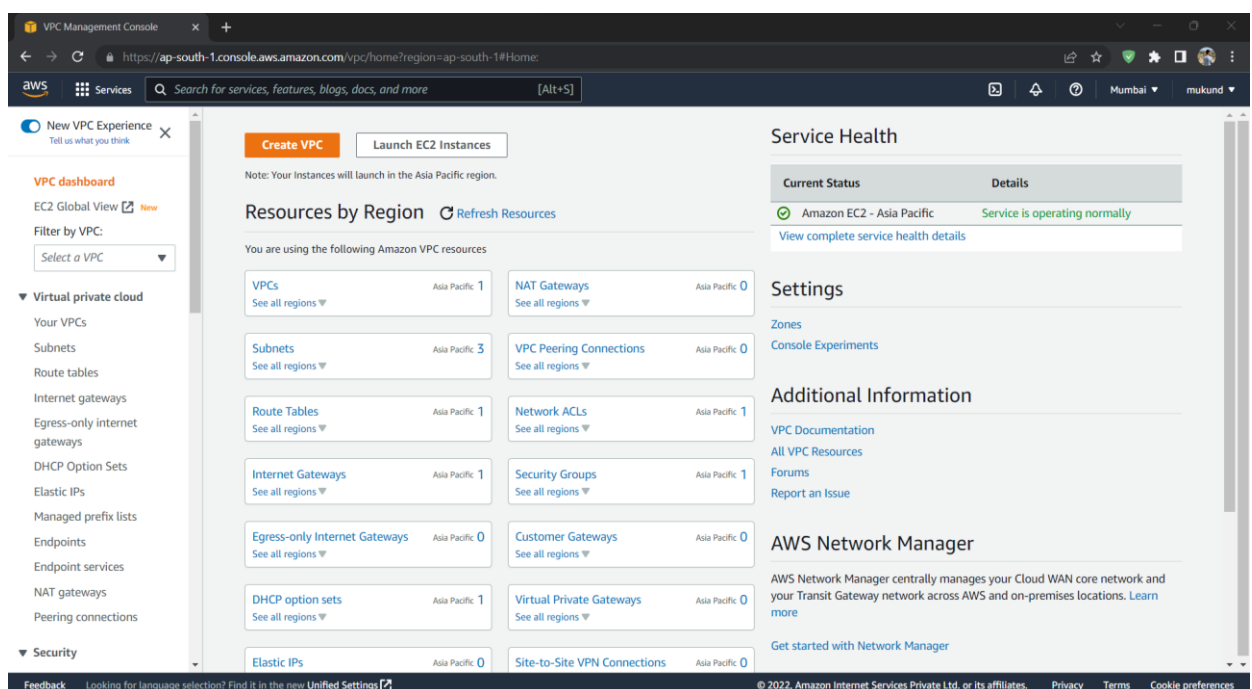
**AIM:** To configure a Virtual Private Cloud VPC & Troubleshoot a VPC

### **PROCEDURE:**

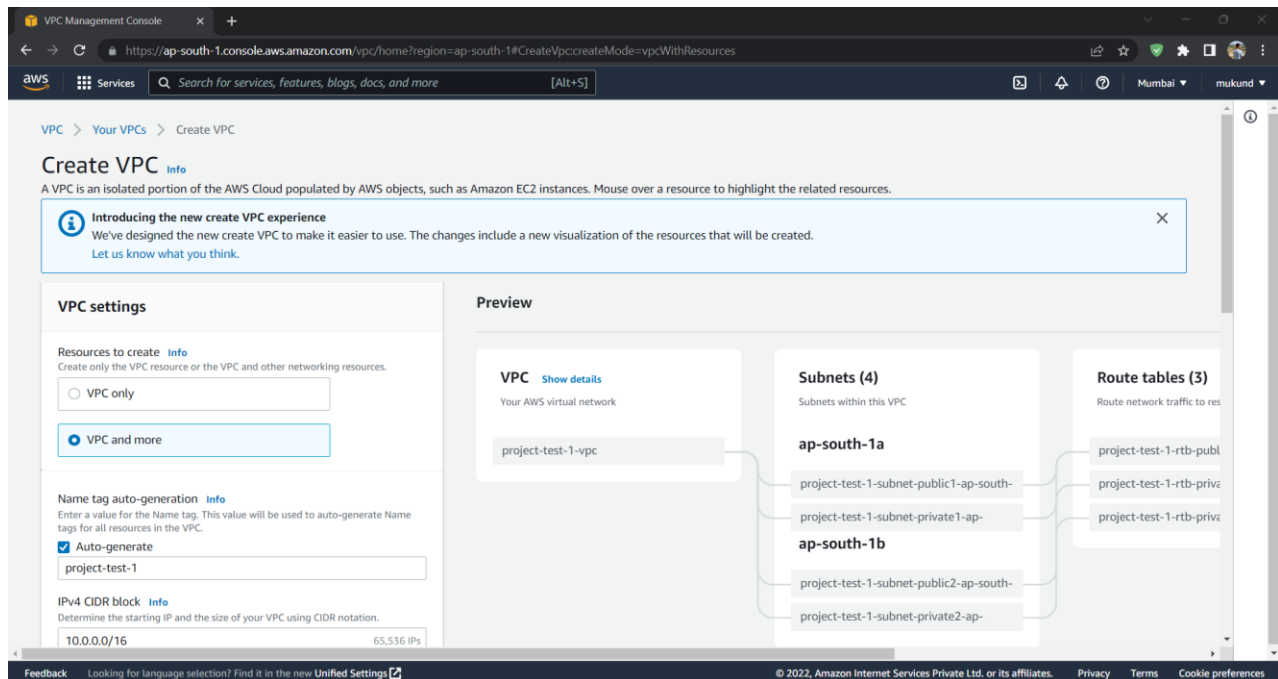
1. Firstly, open the AWS console homepage on browser (<https://aws.amazon.com/console/>).



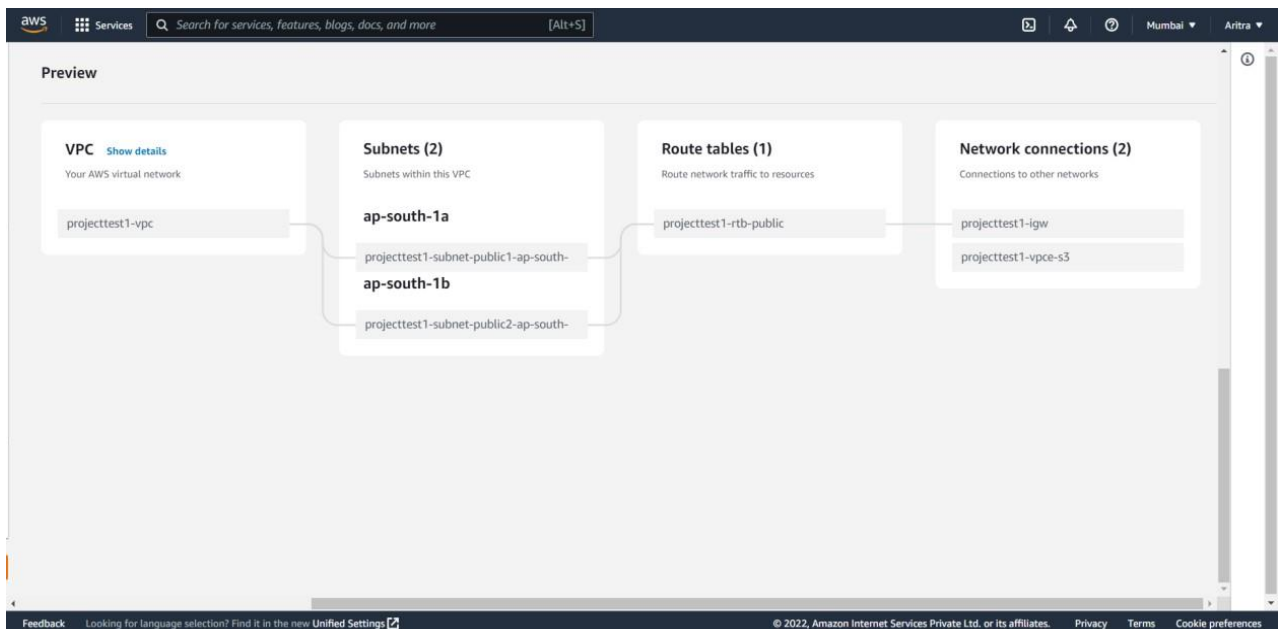
2. Search for VPC in the search bar and open the VPC dashboard page.



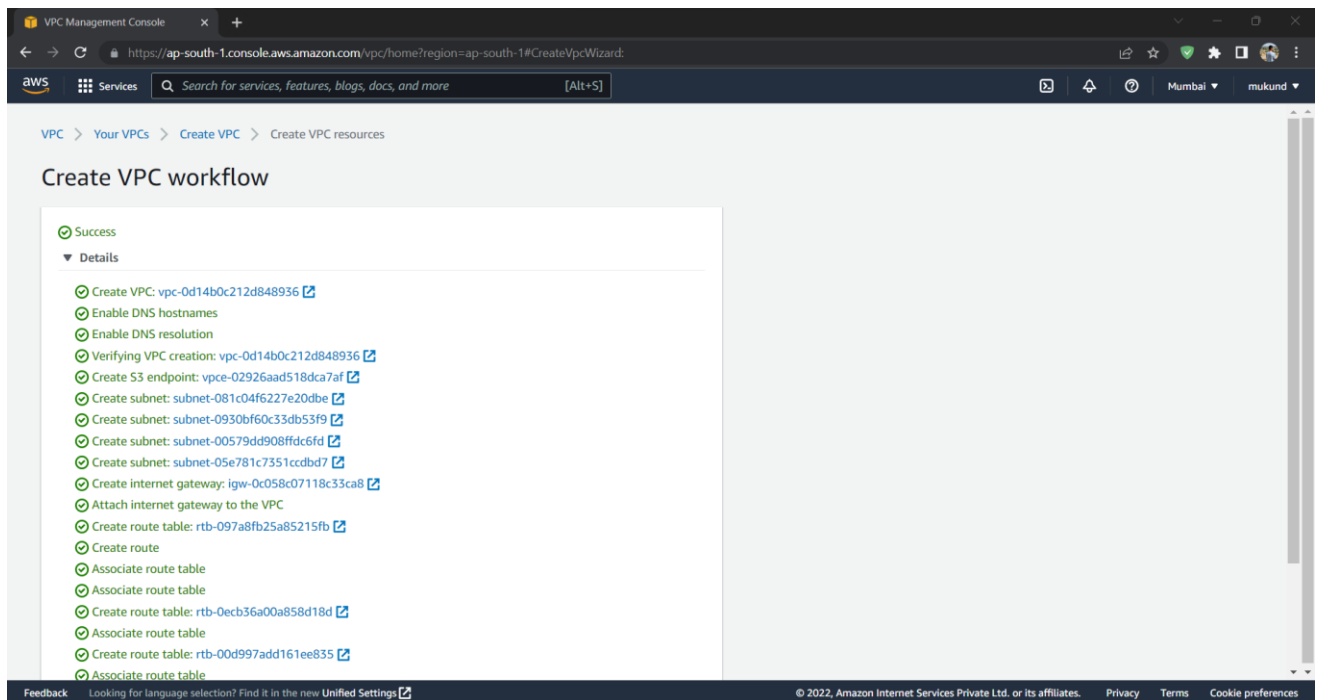
- To create a new VPC, click “Create VPC” and go to the Create VPC page.



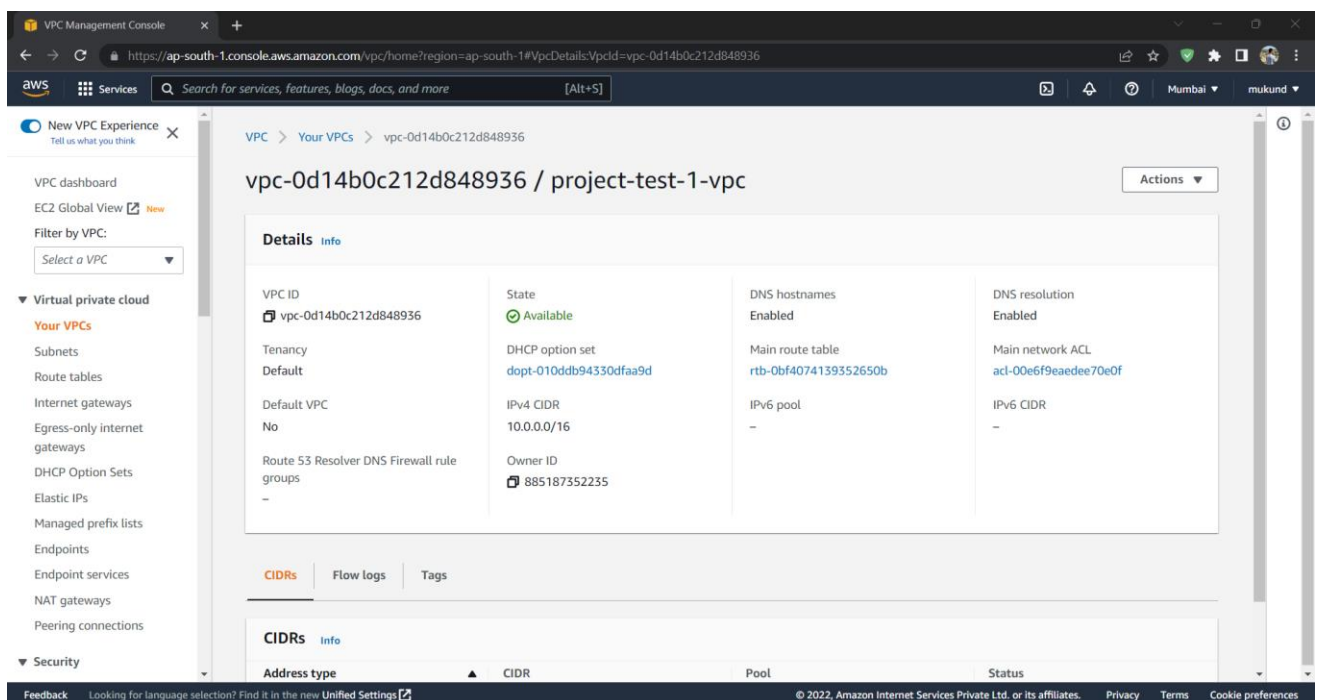
- Select the following configurations with appropriate VPC name.



- Click on “Create VPC” button and wait for your VPC to be created.



- 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 (7) Info**

Filter subnets

|                          | Name                   | Subnet ID                | State     | VPC                           | IPv4 CIDR      | IPv6 CIDR |
|--------------------------|------------------------|--------------------------|-----------|-------------------------------|----------------|-----------|
| <input type="checkbox"/> | -                      | subnet-0a62dd2d4d6f47a06 | Available | vpc-0b22726cf049952b5         | 172.31.16.0/20 | -         |
| <input type="checkbox"/> | project-test-1-subn... | subnet-00579dd908ffdc6fd | Available | vpc-0d14b0c212d848936   pr... | 10.0.128.0/20  | -         |
| <input type="checkbox"/> | project-test-1-subn... | subnet-05e781c7351ccdbd7 | Available | vpc-0d14b0c212d848936   pr... | 10.0.144.0/20  | -         |
| <input type="checkbox"/> | -                      | subnet-07b17ad9915816c9f | Available | vpc-0b22726cf049952b5         | 172.31.32.0/20 | -         |
| <input type="checkbox"/> | project-test-1-subn... | subnet-081c04f6227e20dbe | Available | vpc-0d14b0c212d848936   pr... | 10.0.0.0/20    | -         |
| <input type="checkbox"/> | -                      | subnet-0c7e5af59970d8e3d | Available | vpc-0b22726cf049952b5         | 172.31.0.0/20  | -         |
| <input type="checkbox"/> | project-test-1-subn... | subnet-0930bf60c33db53f9 | Available | vpc-0d14b0c212d848936   pr... | 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.

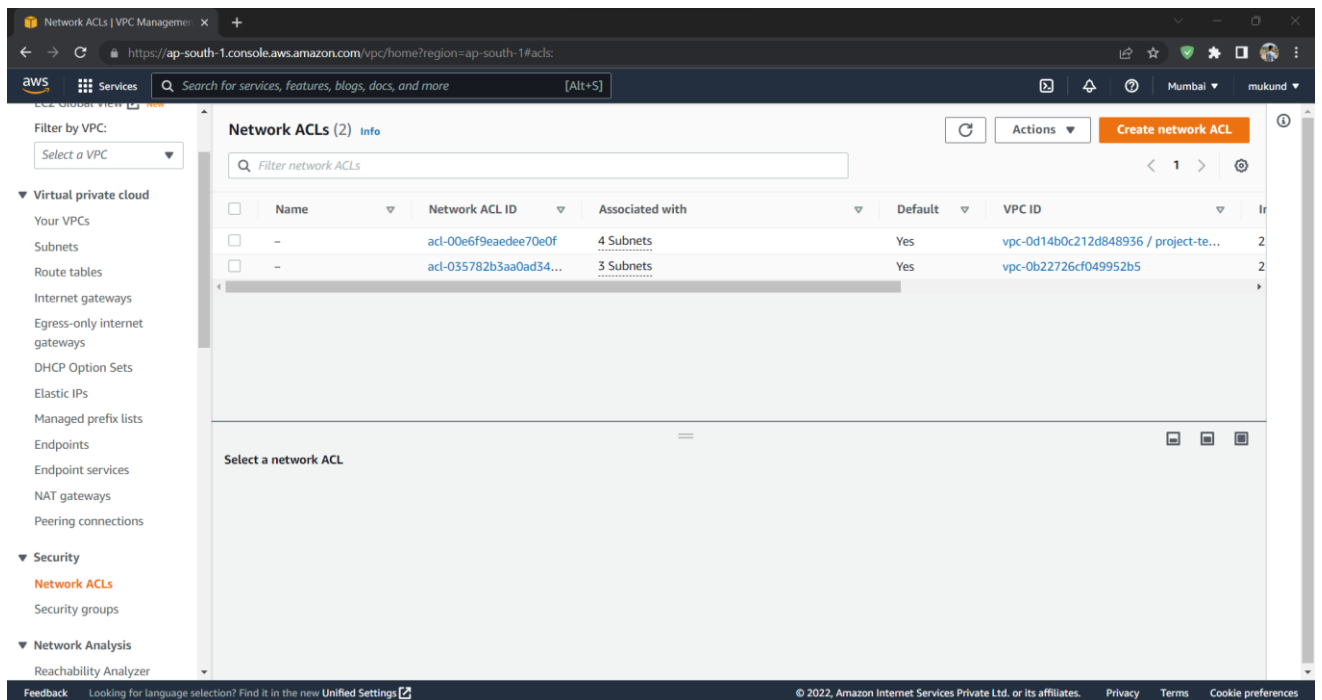
**Route tables (5) Info**

Filter route tables

|                          | Name                    | Route table ID        | Explicit subnet associ... | Edge associations | Main | VPC                           | Ow... |
|--------------------------|-------------------------|-----------------------|---------------------------|-------------------|------|-------------------------------|-------|
| <input type="checkbox"/> | project-test-1-rtb-p... | rtb-0ecb36a00a858d18d | subnet-00579dd908ffdc...  | -                 | No   | vpc-0d14b0c212d848936   pr... | 8851  |
| <input type="checkbox"/> | project-test-1-rtb-p... | rtb-097a8fb25a85215fb | 2 subnets                 | -                 | No   | vpc-0d14b0c212d848936   pr... | 8851  |
| <input type="checkbox"/> | -                       | rtb-0d0cd2b5fbf4cf31  | -                         | -                 | Yes  | vpc-0b22726cf049952b5         | 8851  |
| <input type="checkbox"/> | project-test-1-rtb-p... | rtb-00d997add161ee835 | subnet-05e781c7351cc...   | -                 | No   | vpc-0d14b0c212d848936   pr... | 8851  |
| <input type="checkbox"/> | -                       | rtb-0bf4074139352650b | -                         | -                 | Yes  | vpc-0d14b0c212d848936   pr... | 8851  |

Select a route table

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.