

Experiment 3

Configuring Virtual Private Cloud VPC & Troubleshoot a VPC

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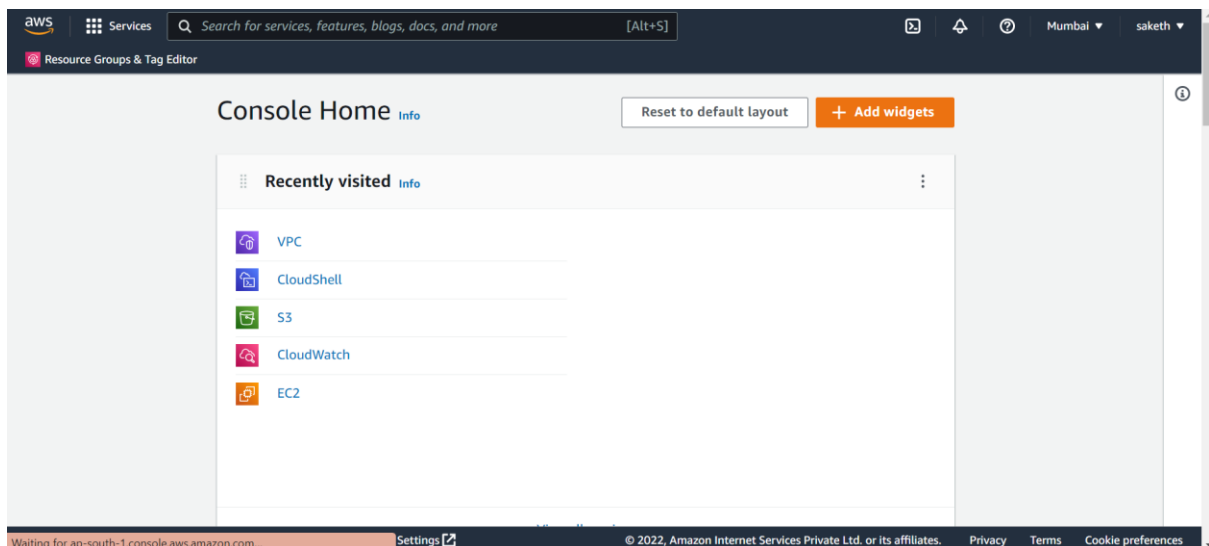
Registration No – RA2011028010071

Department – CSE W/S in Cloud Computing

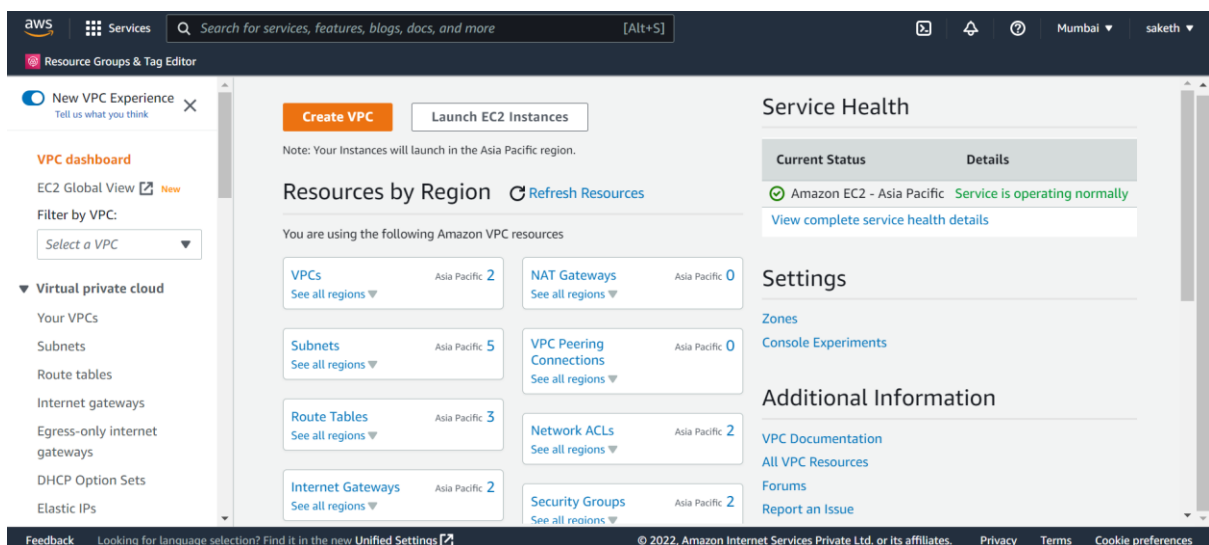
AIM: To configure a Virtual Private Cloud VPC & Troubleshoot a VPC

PROCEDURE:

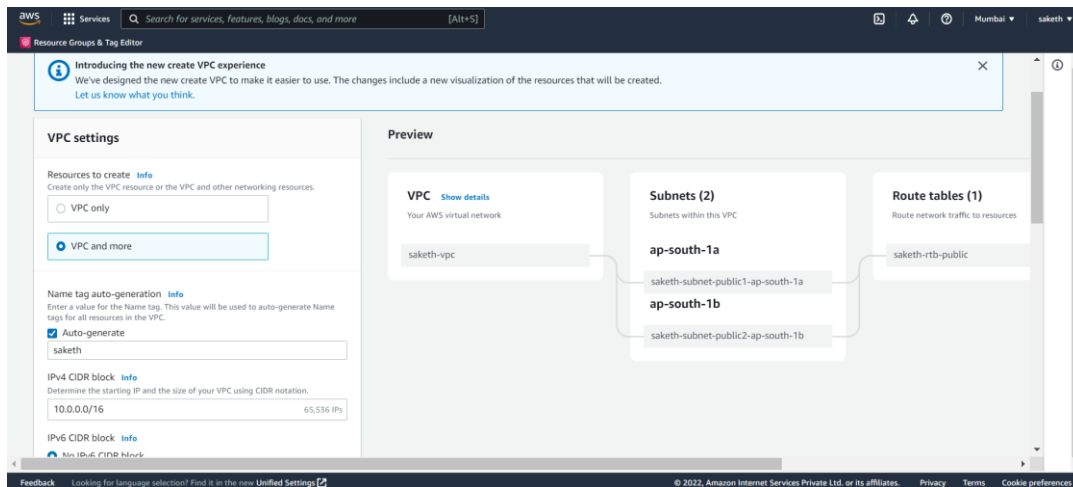
1. Firstly, open the AWS console homepage on browser
(<https://aws.amazon.com/console/>)



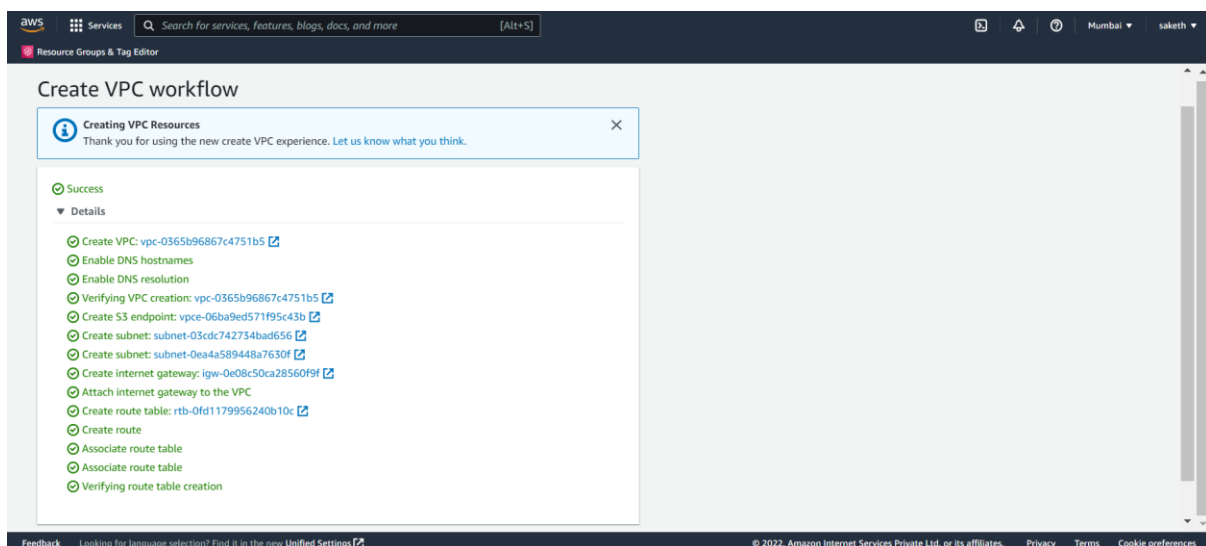
2. Search for VPC in the search bar and open the VPC dashboard page.



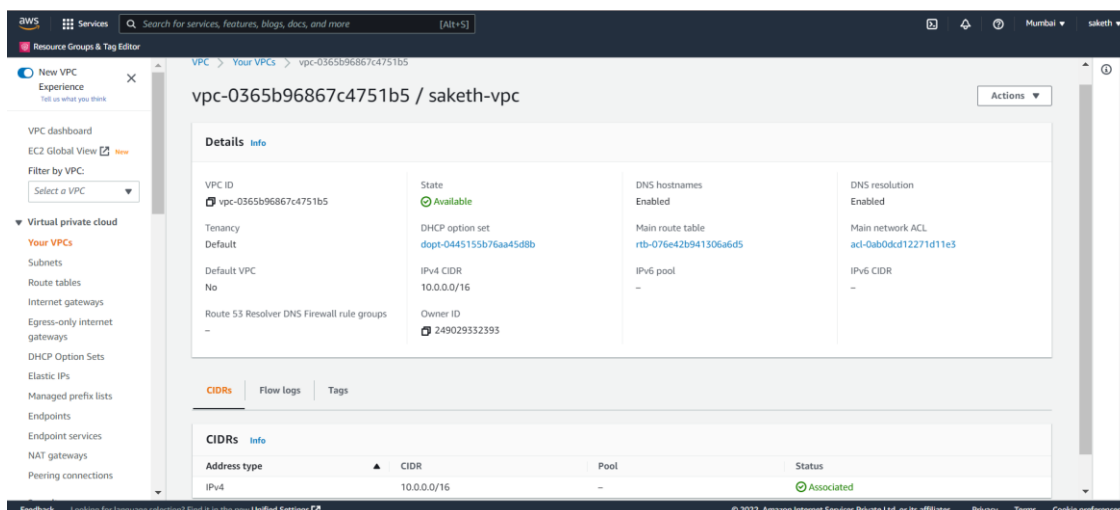
3. To create a new VPC, click “Create VPC” and go to the Create VPC page and Select the following configurations with appropriate VPC name.



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



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



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

Subnets (7) Info

Filter subnets

| <input type="checkbox"/> | Name | Subnet ID | State | VPC | IPv4 CIDR | IPv6 CIDR | Availability |
|--------------------------|-----------------------|--------------------------|-----------|--------------------------------|----------------|-----------|--------------|
| <input type="checkbox"/> | - | subnet-015c63b7420118281 | Available | vpc-0a5350a82e9954b76 | 172.31.32.0/20 | - | 4091 |
| <input type="checkbox"/> | Saketh-subnet-pub... | subnet-057cbec27ad8f87c | Available | vpc-0a2108a1d6a88acfd Sak... | 10.0.0.0/20 | - | 4091 |
| <input type="checkbox"/> | saketh-subnet-publ... | subnet-03cdc742734bad656 | Available | vpc-0365b96867c4751b5 sa... | 10.0.0.0/20 | - | 4091 |
| <input type="checkbox"/> | saketh-subnet-publ... | subnet-0ea4a589448a7630f | Available | vpc-0365b96867c4751b5 sa... | 10.0.16.0/20 | - | 4091 |
| <input type="checkbox"/> | Saketh-subnet-pub... | subnet-025a15154dd2c2784 | Available | vpc-0a2108a1d6a88acfd Sak... | 10.0.16.0/20 | - | 4091 |
| <input type="checkbox"/> | - | subnet-0abb8931d24400be1 | Available | vpc-0a5350a82e9954b76 | 172.31.0.0/20 | - | 4091 |
| <input type="checkbox"/> | - | subnet-0a3994d73e57a00e7 | Available | vpc-0a5350a82e9954b76 | 172.31.16.0/20 | - | 4091 |

Select a subnet

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

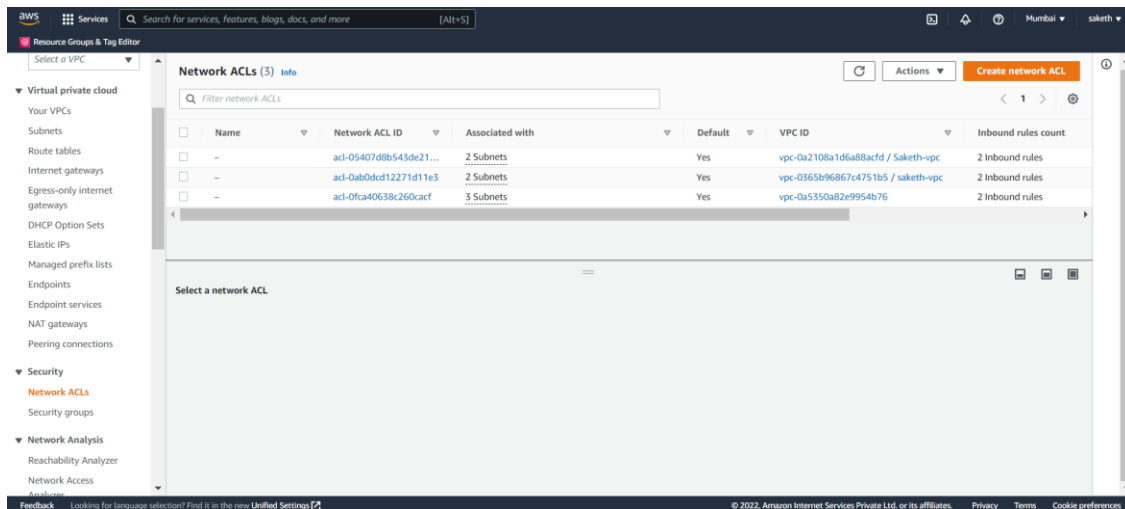
Route tables (5) Info

Filter route tables

| <input type="checkbox"/> | Name | Route table ID | Explicit subnet associat... | Edge associations | Main | VPC | Owner ID |
|--------------------------|-------------------|-----------------------|-----------------------------|-------------------|------|--------------------------------|--------------|
| <input type="checkbox"/> | - | rtb-076e42b941306a6d5 | - | - | Yes | vpc-0365b96867c4751b5 sa... | 249029332393 |
| <input type="checkbox"/> | Saketh-rtb-public | rtb-07388b3c91a14620f | 2 subnets | - | No | vpc-0a2108a1d6a88acfd Sak... | 249029332393 |
| <input type="checkbox"/> | - | rtb-0073c179084be8dd4 | - | - | Yes | vpc-0a5350a82e9954b76 | 249029332393 |
| <input type="checkbox"/> | - | rtb-074054a9f8c129f85 | - | - | Yes | vpc-0a2108a1d6a88acfd Sak... | 249029332393 |
| <input type="checkbox"/> | saketh-rtb-public | rtb-0fd1179956240b10c | 2 subnets | - | No | vpc-0365b96867c4751b5 sa... | 249029332393 |

Select a route table

8. 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.