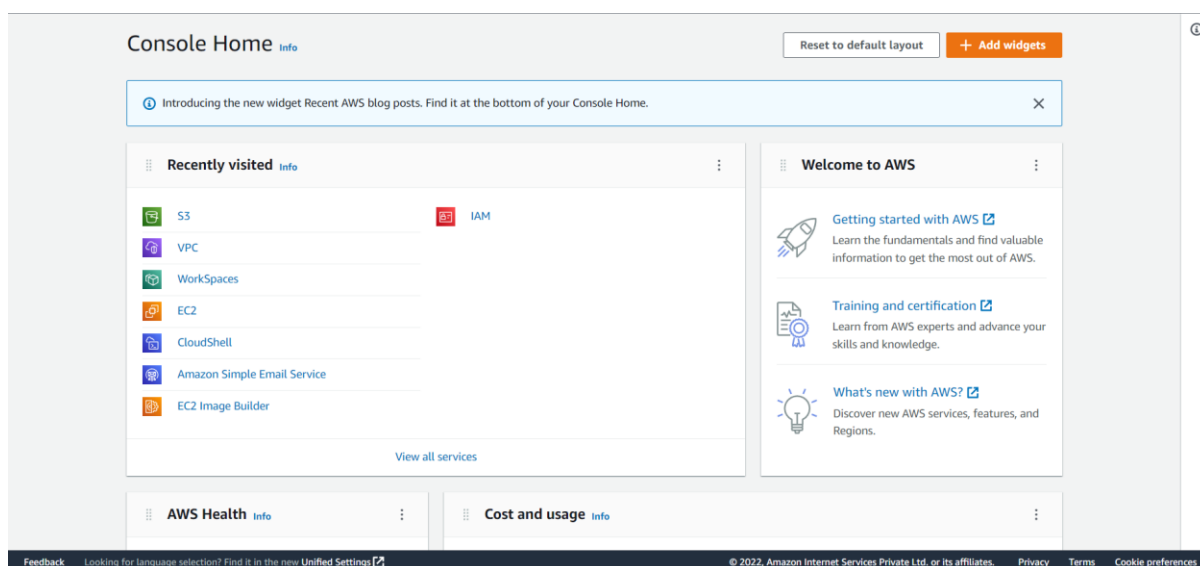


Experiment 3 - Configuring Virtual Private Cloud VPC & Troubleshoot a VPC

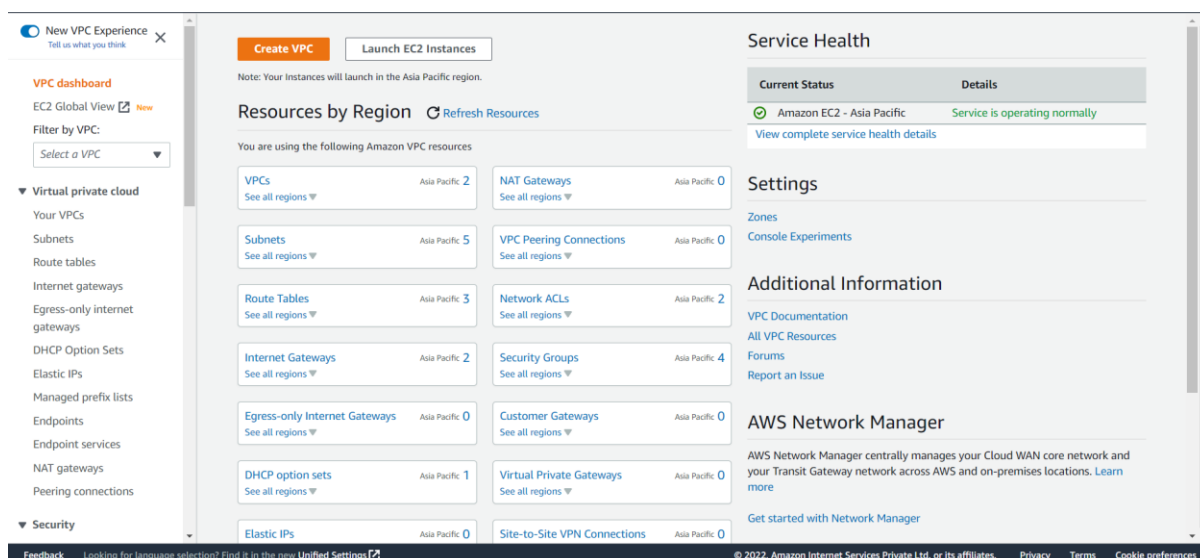
AIM: To configure a Virtual Private Cloud VPC & Troubleshoot a VPC

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.

VPC > Your VPCs > Create VPC

Create VPC [Info](#)

A VPC is an isolated portion of the AWS Cloud populated by AWS objects, such as Amazon EC2 instances. Mouse over a resource to highlight the related resources.

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
project-test1

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

10.0.0.0/16 65,536 IPs

IPv6 CIDR block [Info](#)

☒ No IPv6 CIDR block

☐ Amazon-provided IPv6 CIDR block

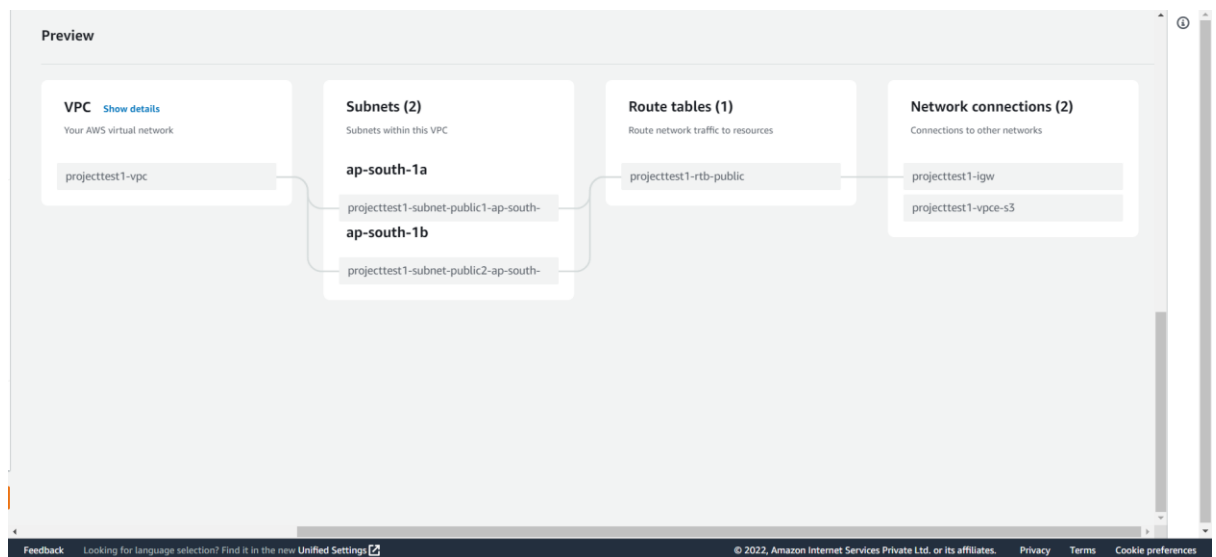
Preview

VPC [Show details](#)
Your AWS virtual network
project-test1-vpc

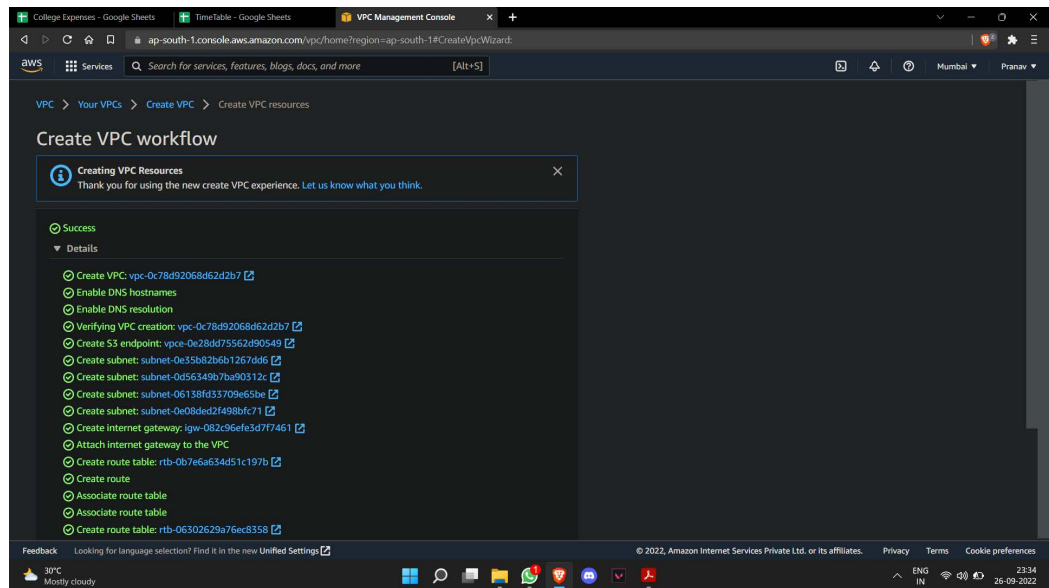
Subnets (4)
Subnets within this VPC
ap-south-1a
project-test1-subnet-public1-ap-south-
project-test1-subnet-private1-ap-south-
ap-south-1b
project-test1-subnet-public2-ap-south-
project-test1-subnet-private2-ap-south-

Route tables (3)
Route network traffic to resources
project-test1-rtb-public
project-test1-rtb-private1-ap-
project-test1-rtb-private2-ap-

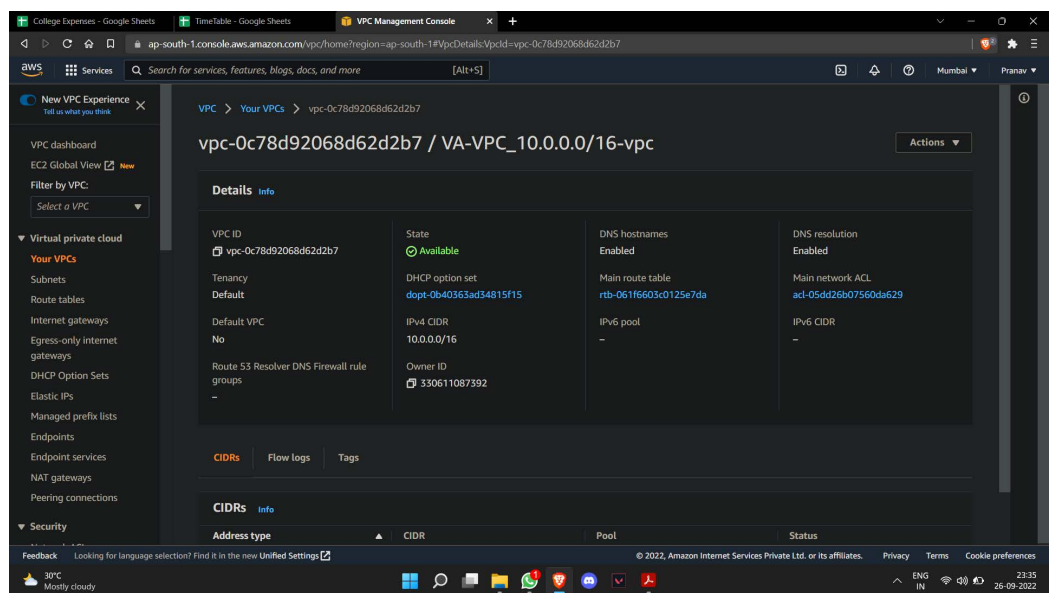
4. Select the following configurations with appropriate VPC name.



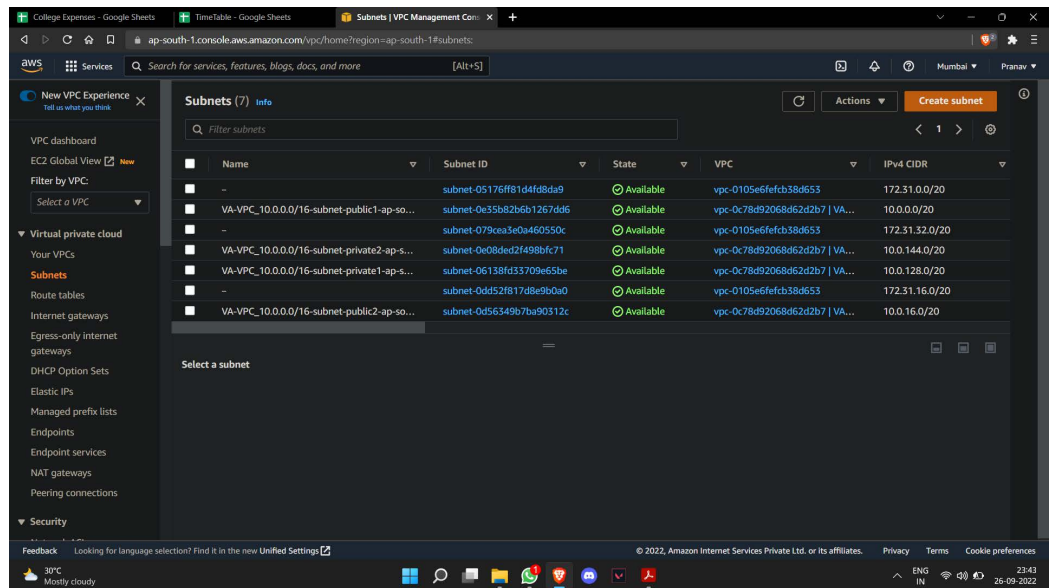
5. Click on “Create VPC” button and wait for your VPC to be created.



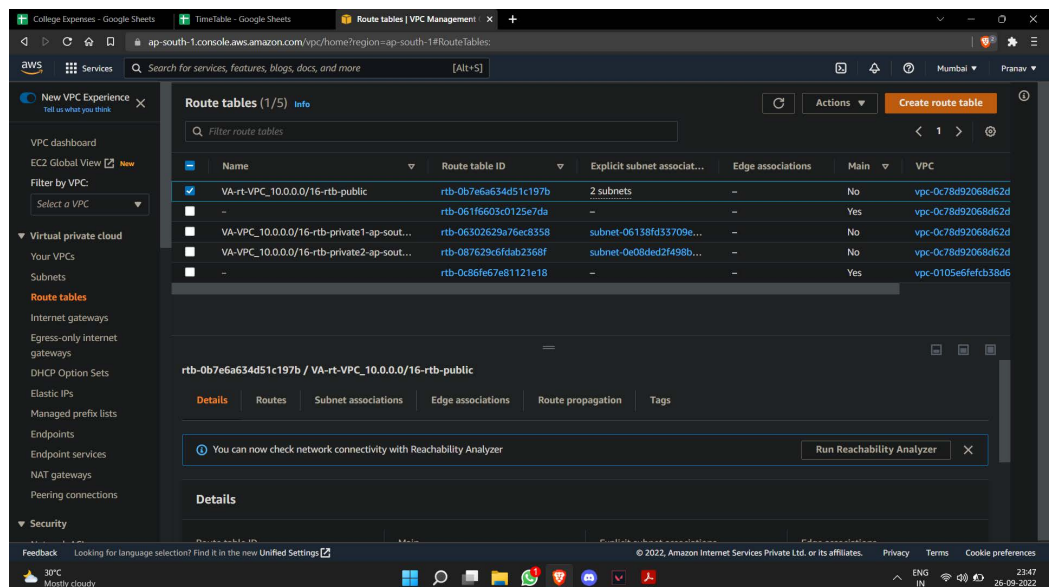
6. Click on “View VPC” to view your VPC details.



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



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.

▼ Virtual private cloud

Your VPCs

Subnets

Route tables

Internet gateways

Egress-only internet gateways

DHCP Option Sets

Elastic IPs

Managed prefix lists

Endpoints

Endpoint services

NAT gateways

Peering connections

▼ Security

Network ACLs

Security groups

▼ Network Analysis

Reachability Analyzer

Network Access Analyzer

▼ DNS firewall

Network ACLs (3) Info

Filter network ACLs

< 1 >

Create network ACL

<input type="checkbox"/>	Name	Network ACL ID	Associated with	Default	VPC ID	Ir
<input type="checkbox"/>	-	acl-0dd10cdd0606fe463	2 Subnets	Yes	vpc-0f1bc3d63b413f466 / test1-vpc	2
<input type="checkbox"/>	-	acl-0e3b050ab865b421f	3 Subnets	Yes	vpc-09aa0d7e6553f1499	2
<input type="checkbox"/>	-	acl-048a455cb80b388...	2 Subnets	Yes	vpc-0b095044a6ed11ecd / projecttest...	2

Select a network ACL

Feedback

Looking for language selection? Find it in the new [Unified Settings](#)

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RESULT:

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