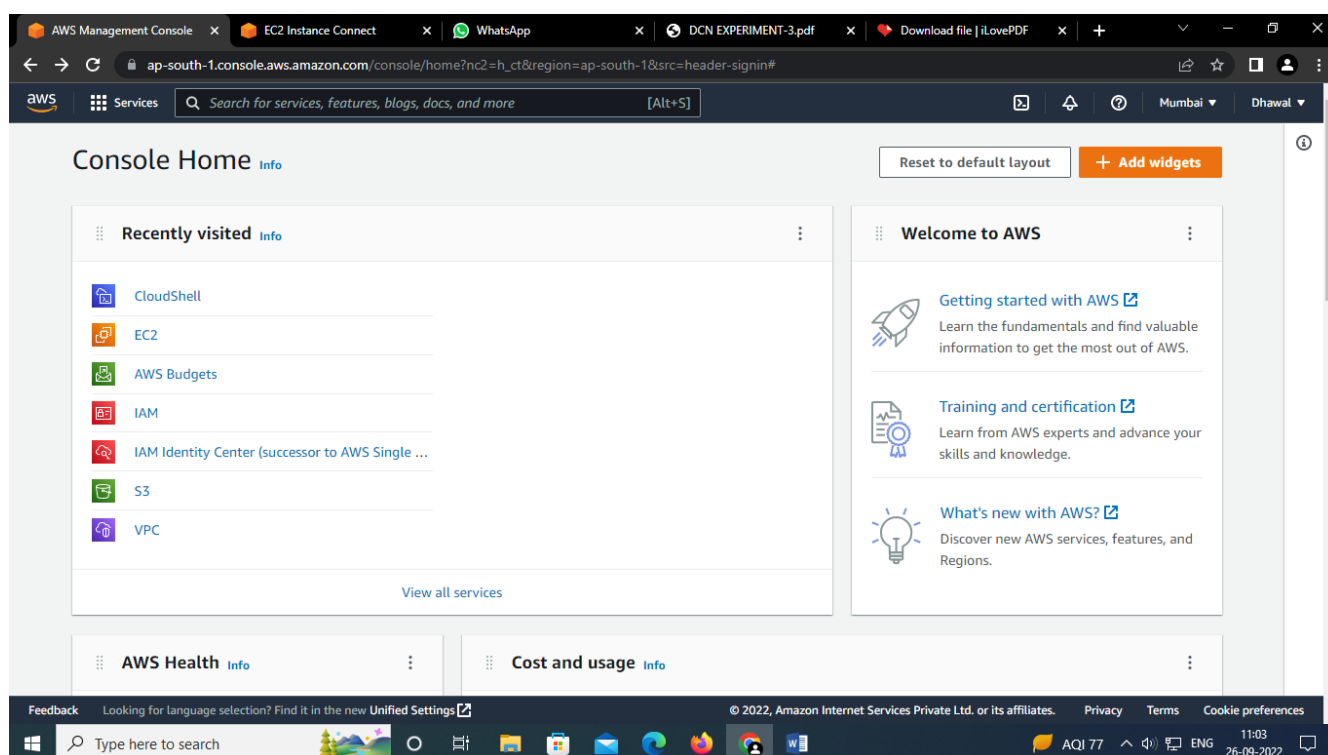


Experiment 3 - Configuring Virtual Private Cloud VPC & Troubleshoot a VPC

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.

The screenshot displays the AWS VPC Management Console interface. The top navigation bar includes the AWS logo, a search bar, and a list of services. The left sidebar shows the 'VPC dashboard' and a list of VPC resources. The main content area, titled 'Resources by Region', shows a grid of resource counts for the Asia Pacific region. The right sidebar contains 'Service Health', 'Settings', 'Additional Information', and 'AWS Network Manager' sections. The bottom of the image shows a Windows taskbar with various application icons and system information.

Services Search for services, features, blogs, docs, and more [Alt+S]

New VPC Experience Tell us what you think

VPC dashboard

EC2 Global View [New](#)

Filter by VPC: [Select a 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

Create VPC **Launch EC2 Instances**

Note: Your Instances will launch in the Asia Pacific region.

Resources by Region [Refresh Resources](#)

You are using the following Amazon VPC resources

Resource	Count
VPCs	1
NAT Gateways	0
Subnets	3
VPC Peering Connections	0
Route Tables	1
Network ACLs	1
Internet Gateways	1
Security Groups	4
Egress-only Internet Gateways	0
Customer Gateways	0

Service Health

Current Status	Details
Amazon EC2 - Asia Pacific	Service is operating normally

[View complete service health details](#)

Settings

- Zones
- Console Experiments

Additional Information

- VPC Documentation
- All VPC Resources
- Forums
- Report an Issue

AWS Network Manager

AWS Network Manager centrally manages your Cloud WAN core network and your Transit Gateway network across AWS and on-premises.

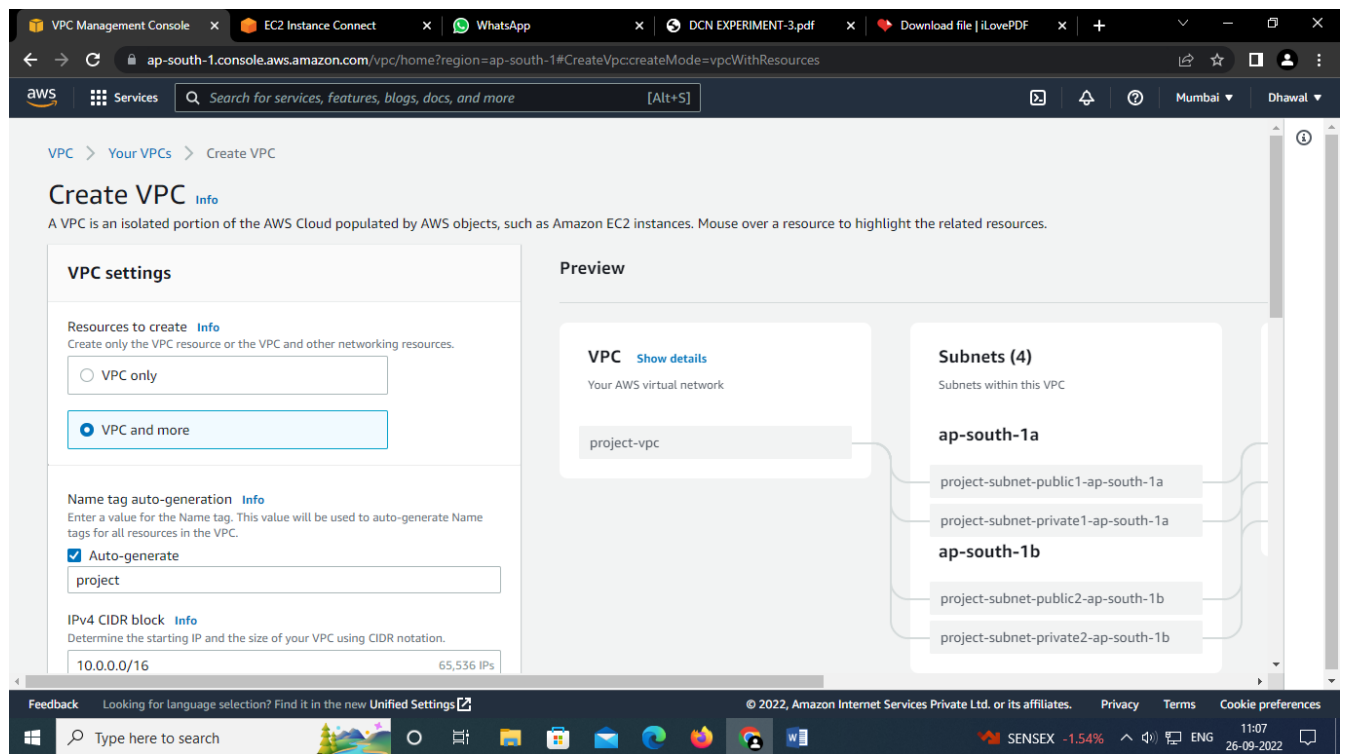
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Feedback Looking for language selection? Find it in the new Unified Settings

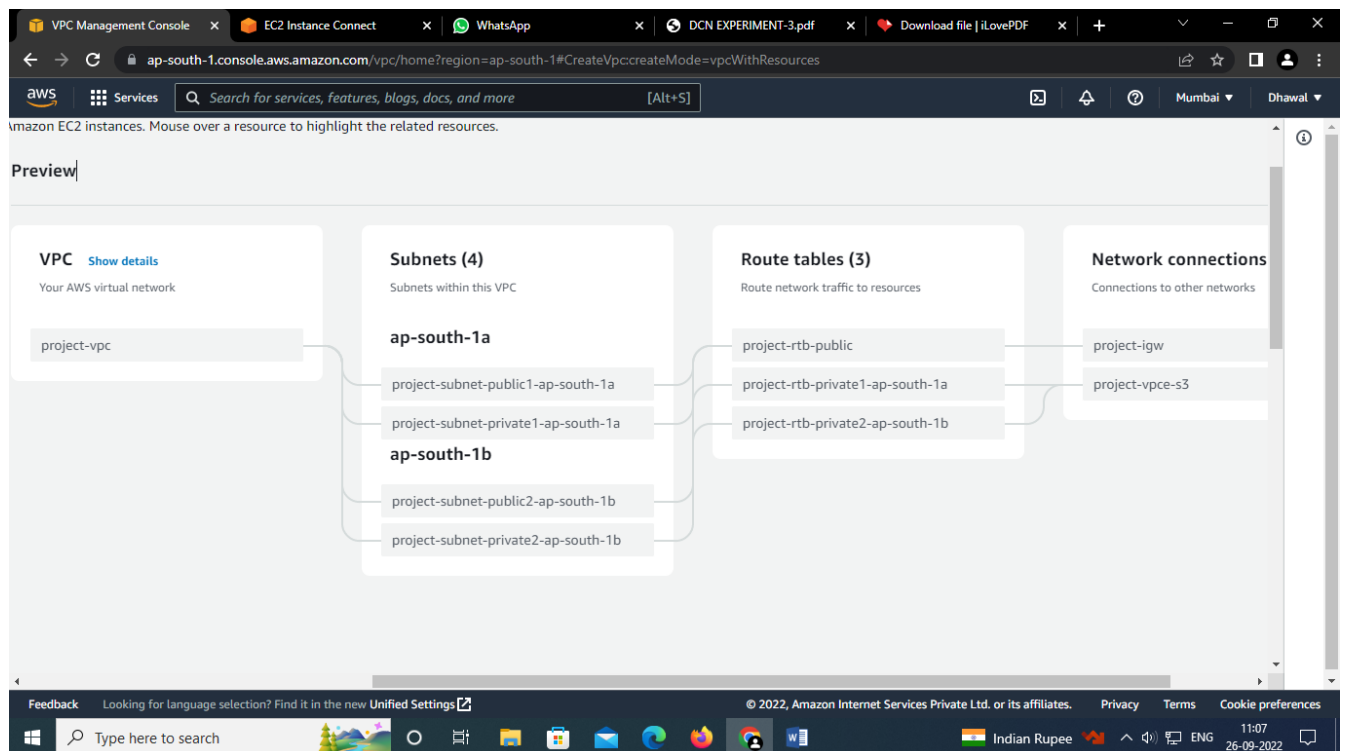
Type here to search

NIFTY -1.73% 11:04 26-09-2022

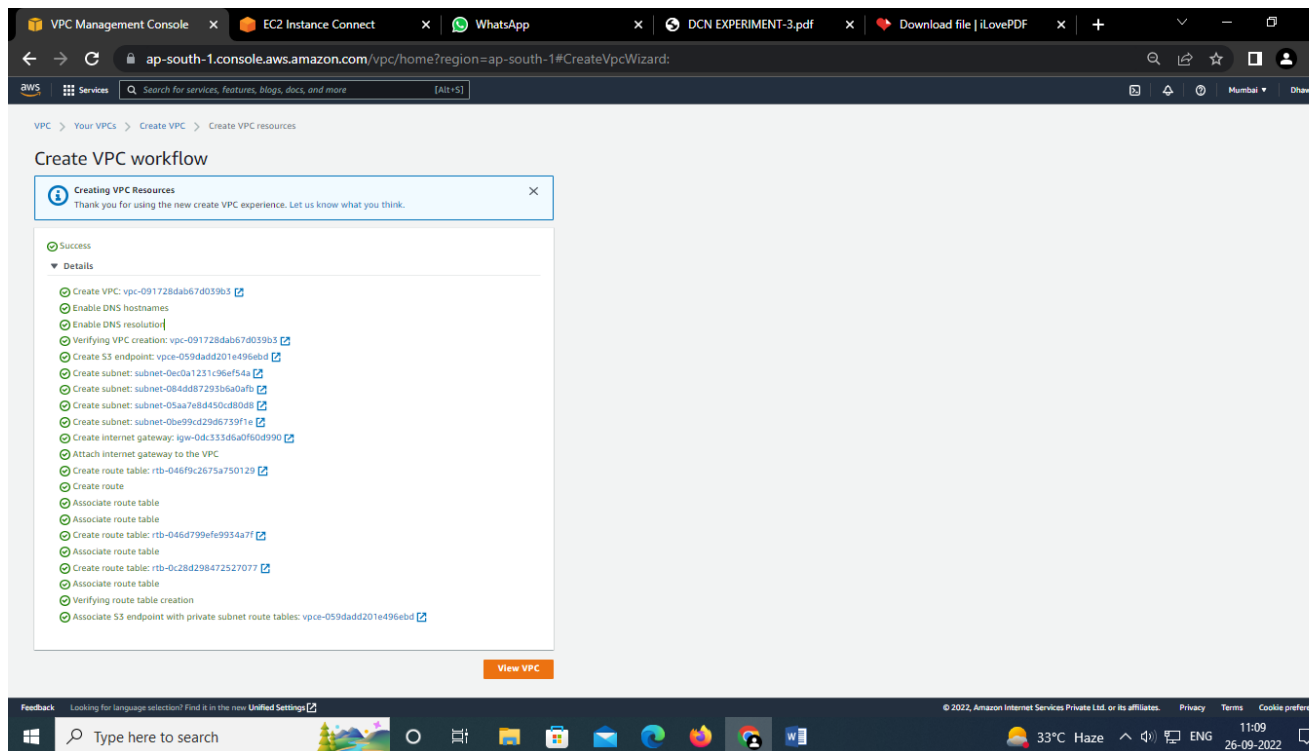
3. To create a new VPC, click “Create VPC” and go to the Create VPC page.



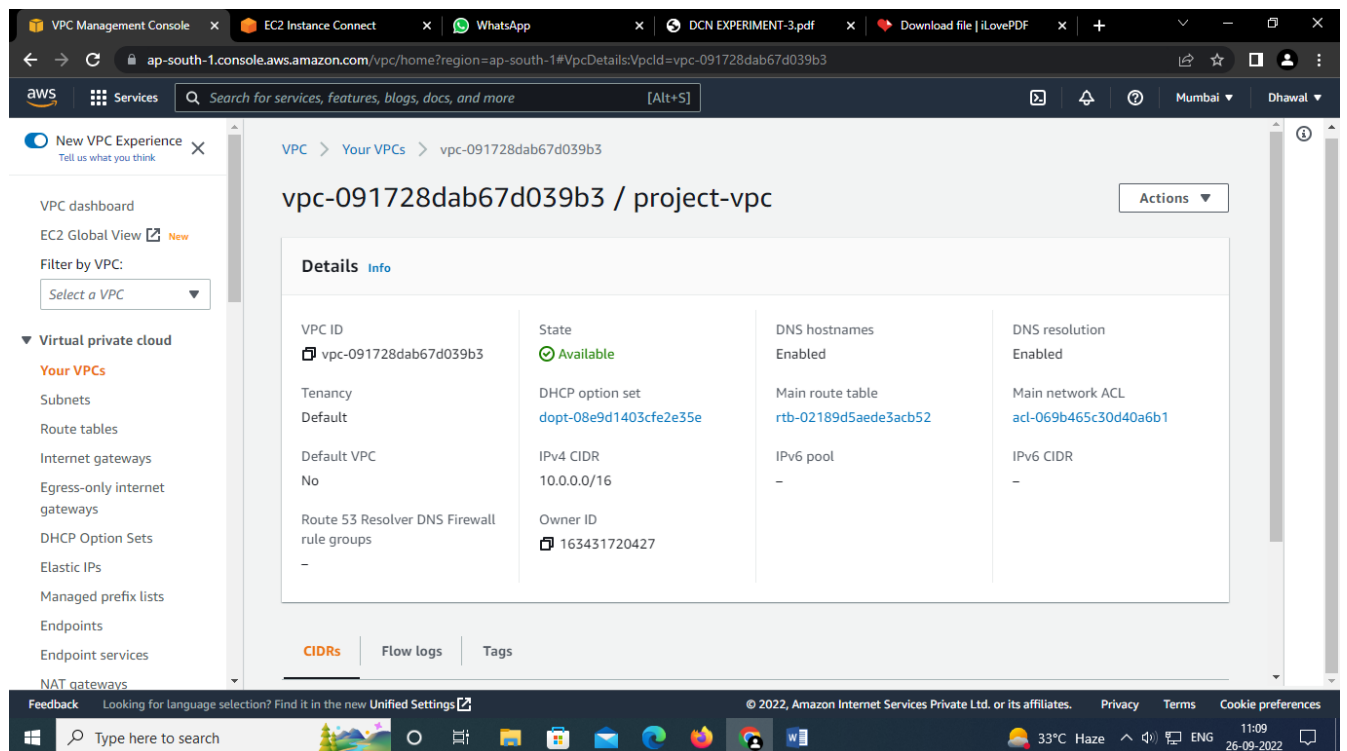
4. Select the following configurations with appropriate VPC name.



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.

The screenshot shows the AWS Management Console interface for the 'Subnets' page. The left-hand navigation pane is expanded, showing the 'Virtual private cloud' section with 'Subnets' highlighted. The main content area, titled 'Subnets (7) Info', contains a table listing the subnets. Below the table is a section labeled 'Select a subnet' with three icons for different actions.

	Name	Subnet ID	State	VPC	IPv4 CIDR
<input type="checkbox"/>	-	subnet-070dfbdfcc5f3535	Available	vpc-08138762bfb9e804d	172.31.16.0/20
<input type="checkbox"/>	project-subnet-pub...	subnet-0ec0a1231c96ef54a	Available	vpc-091728dab67d039b3 pr...	10.0.0.0/20
<input type="checkbox"/>	-	subnet-0351b4dbdee946dcf	Available	vpc-08138762bfb9e804d	172.31.32.0/20
<input type="checkbox"/>	project-subnet-priv...	subnet-05aa7e8d450cd80d8	Available	vpc-091728dab67d039b3 pr...	10.0.128.0/20
<input type="checkbox"/>	project-subnet-priv...	subnet-0be99cd29d6739f1e	Available	vpc-091728dab67d039b3 pr...	10.0.144.0/20
<input type="checkbox"/>	-	subnet-045b3dda7e7dd96a3	Available	vpc-08138762bfb9e804d	172.31.0.0/20
<input type="checkbox"/>	project-subnet-pub...	subnet-084dd87293b6a0afb	Available	vpc-091728dab67d039b3 pr...	10.0.16.0/20

Below the table, there is a section titled 'Select a subnet' with three icons: a document, a list, and a magnifying glass.

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

The screenshot shows the AWS Management Console interface for Route Tables. The left sidebar contains the navigation menu with options like VPC dashboard, EC2 Global View, and Virtual private cloud. The main content area displays a table of 5 route tables. Below the table is a 'Select a route table' section.

	Name	Route table ID	Explicit subnet associat...	Edge associations	Main	VPC
<input type="checkbox"/>	-	rtb-02189d5aede3acb52	-	-	Yes	vpc-091728dab67
<input type="checkbox"/>	project-rtb-private...	rtb-046d799efe9934a7f	subnet-05aa7e8d450cd...	-	No	vpc-091728dab67
<input type="checkbox"/>	project-rtb-private...	rtb-0c28d298472527077	subnet-0be99cd29d673...	-	No	vpc-091728dab67
<input type="checkbox"/>	-	rtb-0f34b2121d9c26cbb	-	-	Yes	vpc-08138762bfb
<input type="checkbox"/>	project-rtb-public	rtb-046f9c2675a750129	2 subnets	-	No	vpc-091728dab67

Select a route table

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

The screenshot displays the AWS Management Console interface for the 'ap-south-1' region. The left-hand navigation menu is expanded, showing the 'Security' section with 'Network ACLs' highlighted. The main content area is titled 'Network ACLs (2)' and includes a search bar labeled 'Filter network ACLs'. Below this, a table lists two Network ACLs:

	Name	Network ACL ID	Associated with	Default	VPC ID
<input type="checkbox"/>	-	acl-0bc2b5fe8e56e5dfd	3 Subnets	Yes	vpc-08138762bfb9e8
<input type="checkbox"/>	-	acl-069b465c30d40a6...	4 Subnets	Yes	vpc-091728dab67d03

Below the table, there is a section titled 'Select a network ACL' with three icons representing different ACL types. The bottom of the image shows the Windows taskbar with the search bar, system tray, and date/time (11:11, 26-09-2022).

RESULT:

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