

26/09/2022

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 the browser.
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.
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.

Resources by Region Refresh Resources

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

You are using the following Amazon VPC resources

Resource	Count
VPCs	2
Subnets	7
Route Tables	5
Internet Gateways	2
Egress-only Internet Gateways	0
DHCP option sets	1
NAT Gateways	0
VPC Peering Connections	0
Network ACLs	2
Security Groups	2
Customer Gateways	0
Virtual Private Gateways	0

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

Preview

VPC Show details
Your AWS virtual network

project-vpc

Subnets (4)
Subnets within this VPC

ap-south-1a

project-subnet-public1-ap-south-1a

project-subnet-private1-ap-south-1a

ap-south-1b

project-subnet-public2-ap-south-1b

project-subnet-private2-ap-south-1b

Route tables (3)
Route network traffic to resources

project-rtb-public

project-rtb-private1-ap-south-1a

project-rtb-private2-ap-south-1b

Network connections (2)
Connections to other networks

project-igw

project-vpc-s3

RA2011028010099

aws

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CloudShell

VPC

>

Your VPCs

>

Create VPC

>

Create VPC resources

Create VPC workflow

Creating VPC Resources

Thank you for using the new create VPC experience. Let us know what you think.

Create subnet

24%

Details

Create VPC: vpc-043ec2ce762601920

Enable DNS hostnames

Enable DNS resolution

Verifying VPC creation: vpc-043ec2ce762601920

Create S3 endpoint: vpce-0f18cb28bd75c0e2a

Create subnet

Create subnet

Create subnet

Create subnet

Create internet gateway

Attach internet gateway to the VPC

Create route table

Create route

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CloudShell

Create VPC: vpc-043ec2ce762601920

Enable DNS hostnames

Enable DNS resolution

Verifying VPC creation: vpc-043ec2ce762601920

Create S3 endpoint: vpce-0f18cb28bd75c0e2a

Create subnet: subnet-01a9f018574420bb8

Create subnet: subnet-02f3c6d7d8779717d

Create subnet: subnet-08d42dfdaa5a0ef6a

Create subnet: subnet-0218e99c8fb5203ee

Create internet gateway: igw-029fd438773c30e07

Attach internet gateway to the VPC

Create route table: rtb-07f21af1ba91fa5b9

Create route

Associate route table

Associate route table

Create route table: rtb-0f2cb954603cd74b8

Associate route table

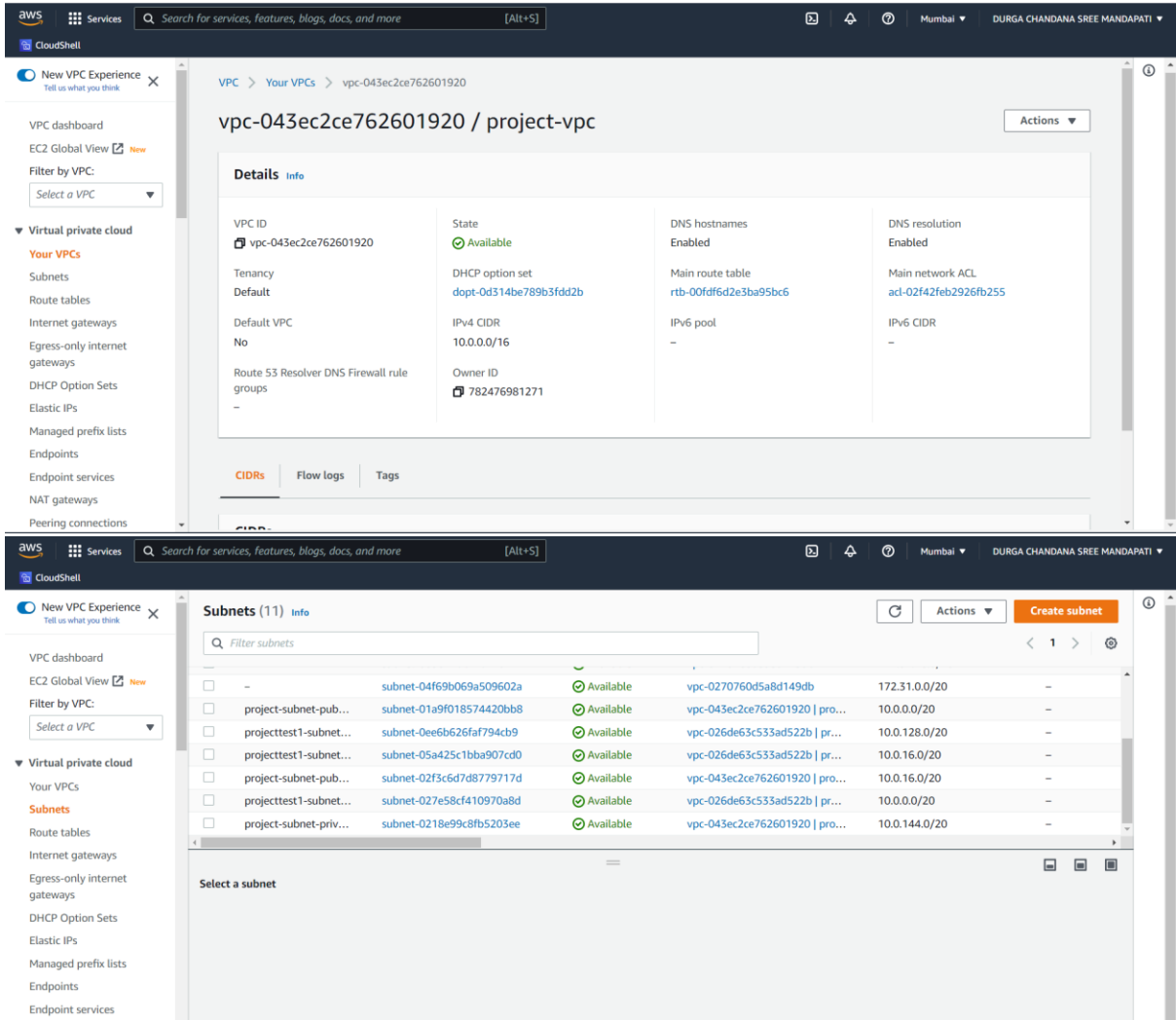
Create route table: rtb-0cc63870bf463674e

Associate route table

Verifying route table creation

Associate S3 endpoint with private subnet route tables: vpce-0f18cb28bd75c0e2a

View VPC



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