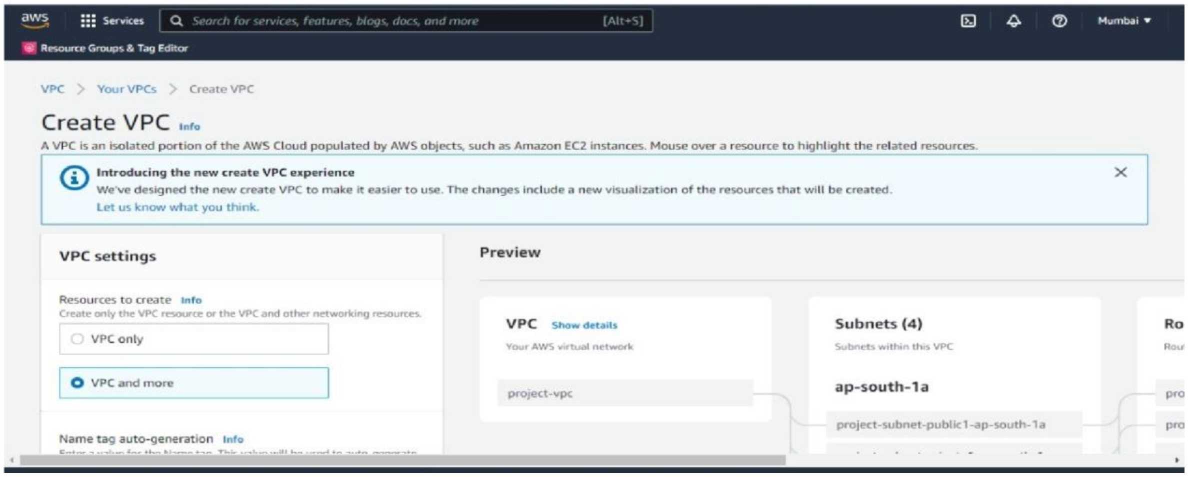
<u>EXPERIMENT 3: CREATING AND CONFIGURING A VIRTUAL PRIVATE CLOUD</u>

AIM- To create and configure a Virtual Private cloud

PROCEDURE-

1. Sign to the console and open Amazon VPC Console and choose the option to create VPC from the dashboard.
2. Select Create VPC from the VPC dashboard.



Create VPC

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.

Introducing the new create VPC experience
We've designed the new create VPC to make it easier to use. The changes include a new visualization of the resources that will be created.
Let us know what you think.

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

project-vpc

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

3. Select the number of Availability Zones (AZs) in which you wish to launch your subnets under Number of Availability Zones (AZs).
4. Select the quantity of public subnets you wish to add to your VPC under Number of public subnets.
5. Select the number of private subnets you wish to add to your VPC under Number of private subnets.
6. Now go to security group and create one security group.

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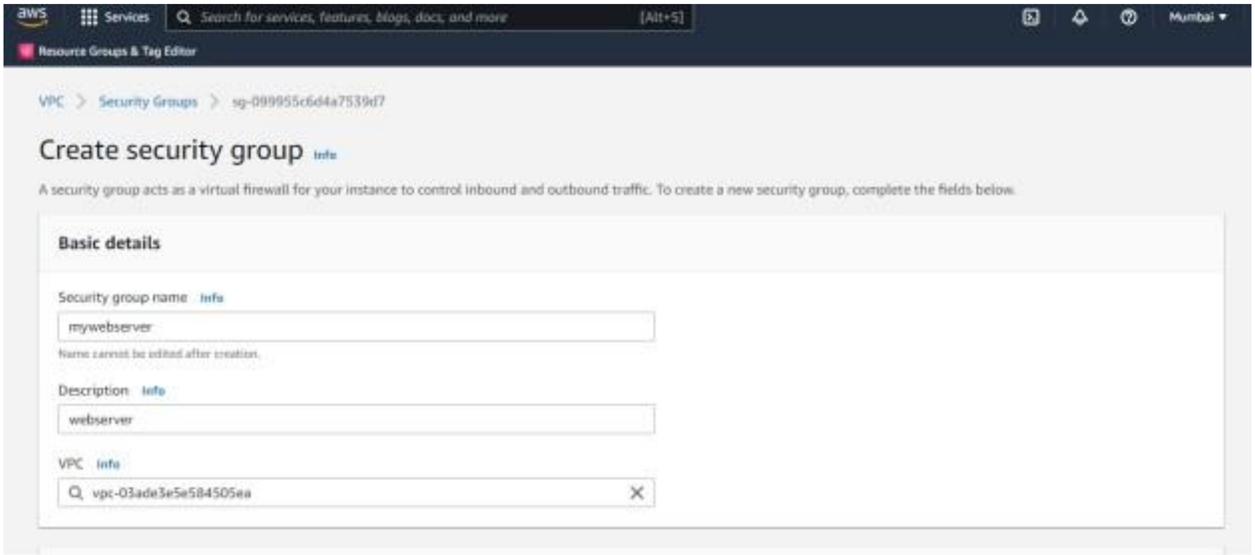
aws
Services
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Mumbai ▾
Resource Groups & Tag Editor
VPC > Security Groups > sg-099955c6d4a7539d7

Create security group

A security group acts as a virtual firewall for your instance to control inbound and outbound traffic. To create a new security group, complete the fields below.

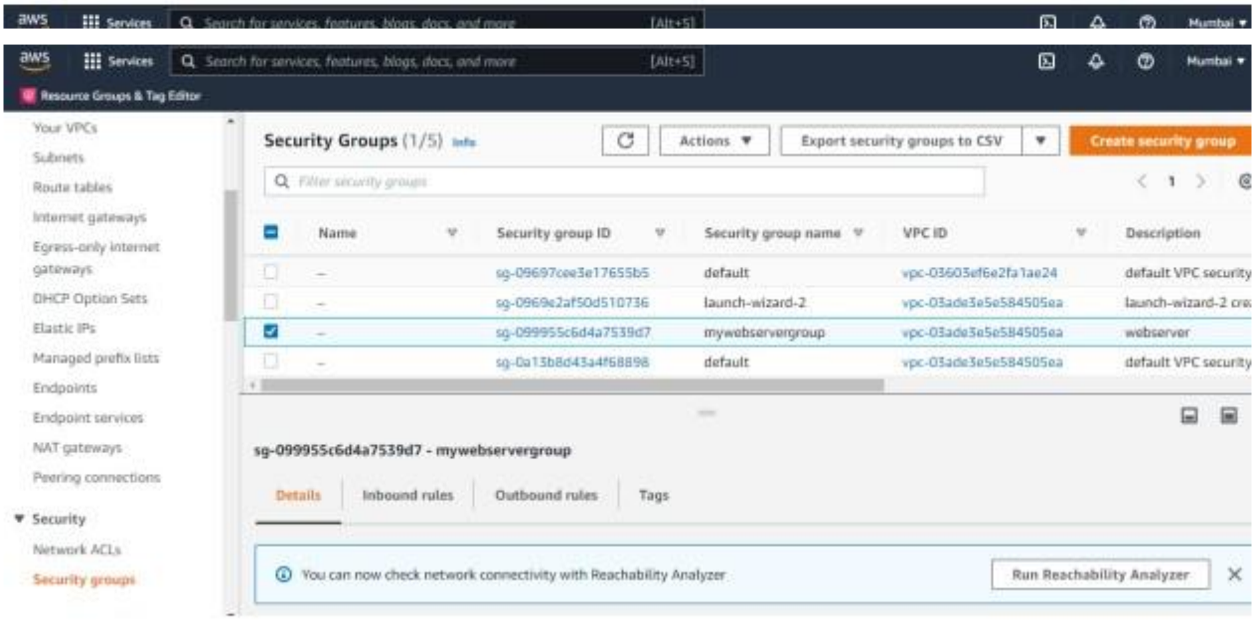
Basic details

Security group name: mywebserver

Name cannot be edited after creation.

Description: webserver

VPC: vpc-03ade3e5e584505ea



Security Groups (1/5)

	Name	Security group ID	Security group name	VPC ID	Description
□	–	sg-09697cee3e17655b5	default	vpc-03603ef6e2fa1ae24	default VPC security
□	–	sg-0969e2af50d510736	launch-wizard-2	vpc-03ade3e5e584505ea	launch-wizard-2 cre
☑	–	sg-099955c6d4a7539d7	mywebservergroup	vpc-03ade3e5e584505ea	webserver
□	–	sg-0a13b8d43a4f68898	default	vpc-03ade3e5e584505ea	default VPC security

sg-099955c6d4a7539d7 - mywebservergroup

You can now check network connectivity with Reachability Analyzer

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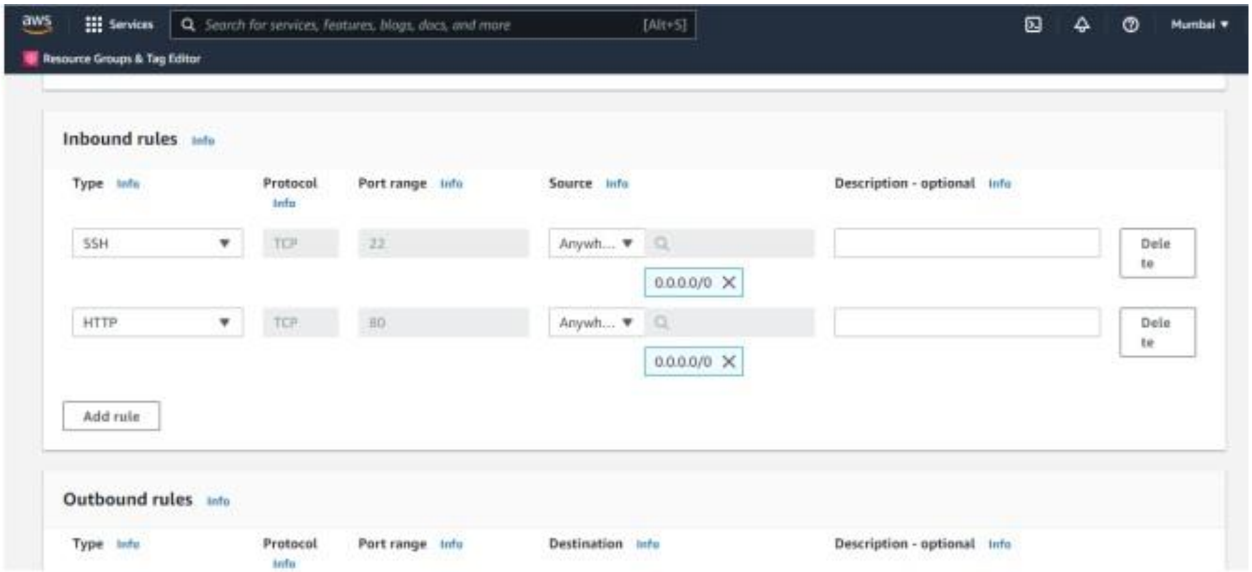
7. As your next step Make the following adjustments to the inbound rules.



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Resource Groups & Tag Editor
Delete
Delete
Add rule

Inbound rules Info

Type	Protocol	Port range	Source	Description - optional
SSH	TCP	22	Anywh... 0.0.0.0/0	
HTTP	TCP	80	Anywh... 0.0.0.0/0	

Outbound rules Info

Type	Protocol	Port range	Destination	Description - optional

8. Now save the changes.

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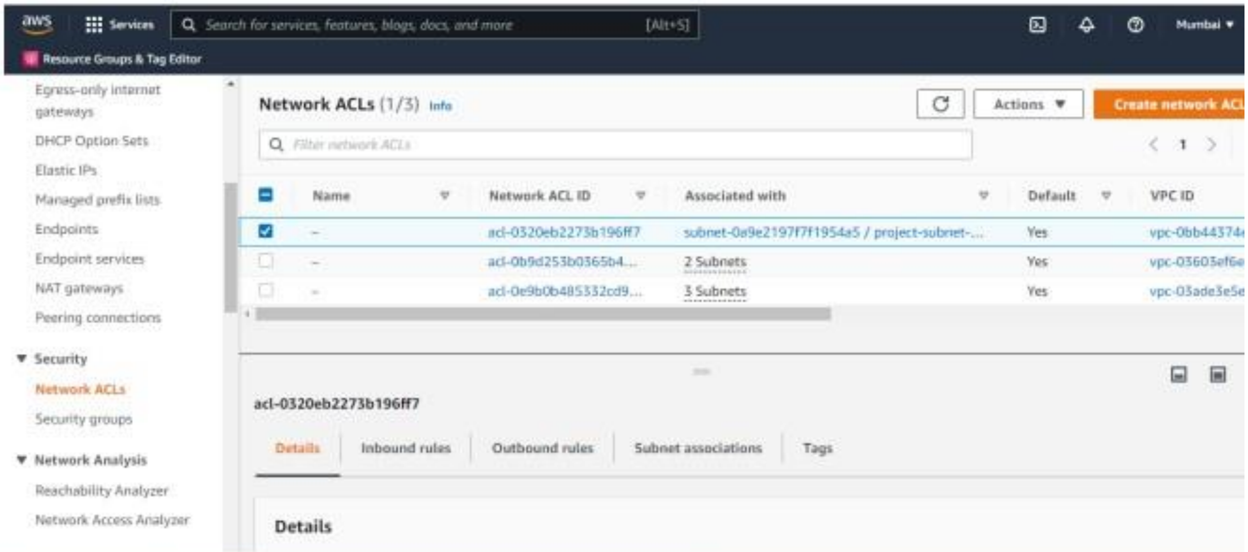
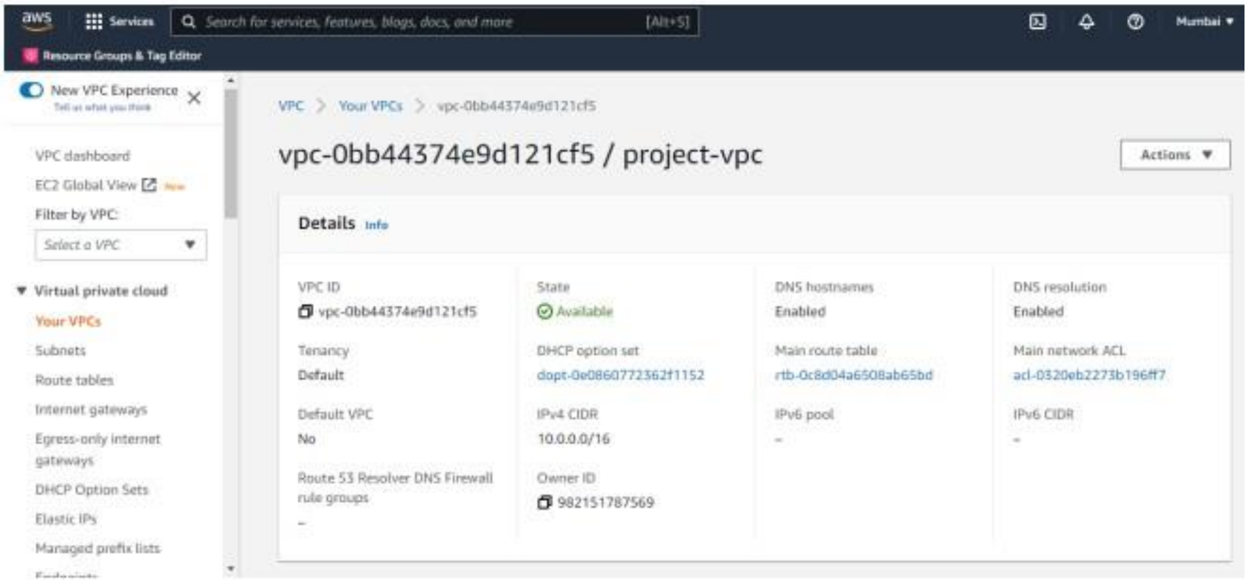


Network ACLs (1/3) Info

	Name	Network ACL ID	Associated with	Default	VPC ID
☑	–	acl-0320eb2273b196ff7	subnet-0a9e2197f7f1954a5 / project-subnet-...	Yes	vpc-0bb44374
□	–	acl-0b9d253b0365b4...	2 Subnets	Yes	vpc-03603ef6e
□	–	acl-0e9b0b485332cd9...	3 Subnets	Yes	vpc-03ade3e5e

acl-0320eb2273b196ff7

Details



vpc-0bb44374e9d121cf5 / project-vpc

Details Info

VPC ID: vpc-0bb44374e9d121cf5

State: Available

DNS hostnames: Enabled

DNS resolution: Enabled

Tenancy: Default

DHCP option set: dopt-0e0860772362f1152

Main route table: rtb-0c8d04a6508ab65bd

Main network ACL: acl-0320eb2273b196ff7

Default VPC: No

IPv4 CIDR: 10.0.0.0/16

IPv6 pool: –

IPv6 CIDR: –

Route 53 Resolver DNS Firewall rule groups: –

Owner ID: 982151787569

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RESULT: The virtual private cloud has been successfully created and configured

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