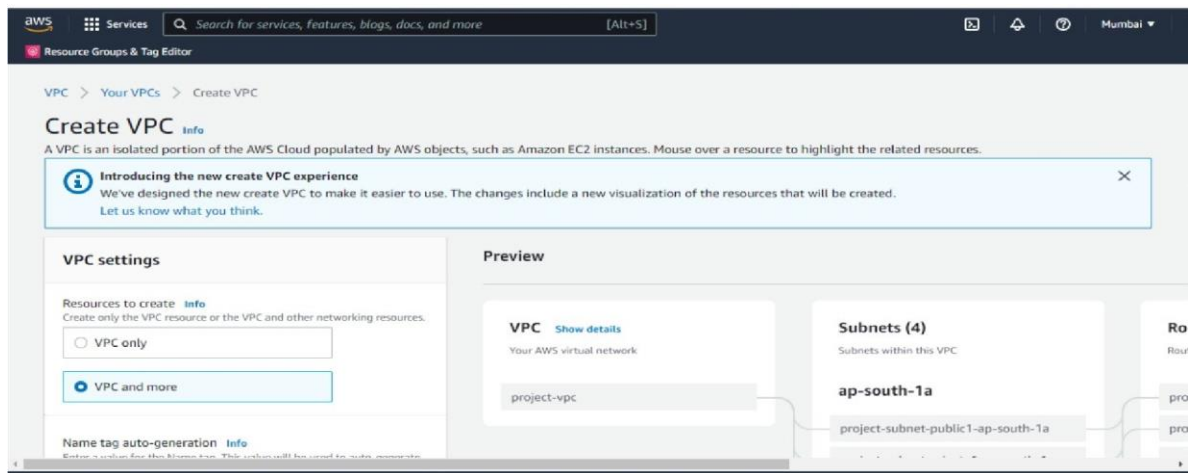


## **EXPERIMENT 3: CREATING AND CONFIGURING A VIRTUAL PRIVATE CLOUD**

**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.



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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**Resource Groups & Tag Editor**

VPC > Security Groups > sg-099955c6d4a7539d7

## Create security group Info

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 Info

Name cannot be edited after creation.

Description Info

VPC Info

**Resource Groups & Tag Editor**

Security Groups (1/5) Info Actions Export security groups to CSV Create security group

Filter security groups

	Name	Security group ID	Security group name	VPC ID	Description
<input type="checkbox"/>	—	sg-08697c0e3e17655b5	default	vpc-03603ef6e2fa1ae24	default VPC security
<input type="checkbox"/>	—	sg-0969e2af50d510736	launch-wizard-2	vpc-03ade3e5e584505ea	launch-wizard-2 cre
<input checked="" type="checkbox"/>	—	sg-099955c6d4a7539d7	mywebservergroup	vpc-03ade3e5e584505ea	webserver
<input type="checkbox"/>	—	sg-0a13b8d43a4f68898	default	vpc-03ade3e5e584505ea	default VPC security

sg-099955c6d4a7539d7 - mywebservergroup

**Details** | Inbound rules | Outbound rules | Tags

ⓘ You can now check network connectivity with Reachability Analyzer. Run Reachability Analyzer ×

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

The screenshot shows the AWS Management Console interface for editing a Security Group's inbound rules. The 'Inbound rules' section is active, displaying a table of rules. The first rule is for 'SSH' using 'TCP' protocol on port '22', with the source set to 'Anywhere'. The second rule is for 'HTTP' using 'TCP' protocol on port '80', also with the source set to 'Anywhere'. Both rules have a 'Delete' button next to them. A third button, 'Add rule', is located at the bottom left of the inbound rules section. The 'Source' field for the SSH rule is currently open, showing a search bar and a dropdown menu with '0.0.0.0/0' selected. The 'Outbound rules' section is visible below the inbound rules section, but it is currently empty.

Type	Protocol	Port range	Source	Description - optional	
SSH	TCP	22	Anywhere		Delete
HTTP	TCP	80	Anywhere		Delete

Add rule

Outbound rules

Type	Protocol	Port range	Destination	Description - optional
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8. Now save the changes.

**Network ACLs (1/3)** Info

Filter network ACLs

Name	Network ACL ID	Associated with	Default	VPC ID
<input checked="" type="checkbox"/> -	acl-0320eb2273b196ff7	subnet-0a9e2197f7f1954a5 / project-subnet-...	Yes	vpc-0bb44374e9d121cf5
<input type="checkbox"/> -	acl-0b9d253b0365b4...	2 Subnets	Yes	vpc-03603ef6e...
<input type="checkbox"/> -	acl-0e9b0b485332cd9...	3 Subnets	Yes	vpc-03ade3e5e...

**acl-0320eb2273b196ff7**

Details Inbound rules Outbound rules Subnet associations Tags

**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 10.0.0/16	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