

TASK – 8 VPC

Creation of VPC...

The screenshot shows the AWS VPC console interface. The left sidebar contains navigation links for 'VPC dashboard', 'Virtual private cloud', and 'Security'. The main content area displays 'Your VPCs (2)' with a table listing two VPCs. The first VPC is 'vpc-00aa32b792ae81dee' with state 'Available' and IPv4 CIDR '172.31.0.0/16'. The second VPC is 'myvpc' with state 'Available' and IPv4 CIDR '10.0.0.0/16'. Below the table, there is a 'Select a VPC above' prompt.

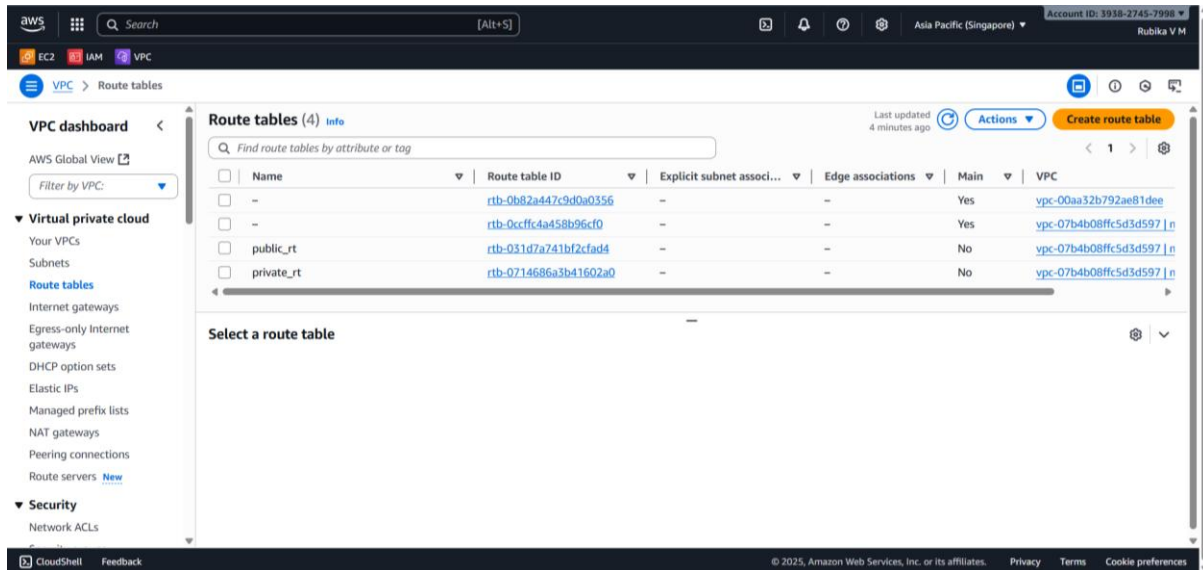
Name	VPC ID	State	Block Public...	IPv4 CIDR	IPv6 CIDR
-	vpc-00aa32b792ae81dee	Available	Off	172.31.0.0/16	-
myvpc	vpc-07b4b08ffc5d3d597	Available	Off	10.0.0.0/16	-

Creation of subnets...

The screenshot shows the AWS VPC console interface for subnets. The left sidebar contains navigation links for 'VPC dashboard', 'Virtual private cloud', and 'Security'. The main content area displays 'Subnets (5)' with a table listing five subnets. The subnets are 'public_subnet', 'private_subnet', and three unnamed subnets. The first subnet is 'public_subnet' with state 'Available' and IPv4 CIDR '10.0.1.0/24'. The second subnet is 'private_subnet' with state 'Available' and IPv4 CIDR '10.0.2.0/24'. The third subnet is unnamed with state 'Available' and IPv4 CIDR '172.31.0.0/24'. The fourth and fifth subnets are unnamed with state 'Available' and IPv4 CIDR '172.31.16.0/24'.

Name	Subnet ID	State	VPC	Block Public...	IPv4 CIDR
public_subnet	subnet-06ab185e6112be247	Available	vpc-07b4b08ffc5d3d597 myvpc	Off	10.0.1.0/24
-	subnet-00b1afc1e5e29345	Available	vpc-00aa32b792ae81dee	Off	172.31.32.0
private_subnet	subnet-0cb4fe2f0c9bf2759	Available	vpc-07b4b08ffc5d3d597 myvpc	Off	10.0.2.0/24
-	subnet-09cd94db8c5f77451	Available	vpc-00aa32b792ae81dee	Off	172.31.0.0/24
-	subnet-03776fe5f5968f808	Available	vpc-00aa32b792ae81dee	Off	172.31.16.0

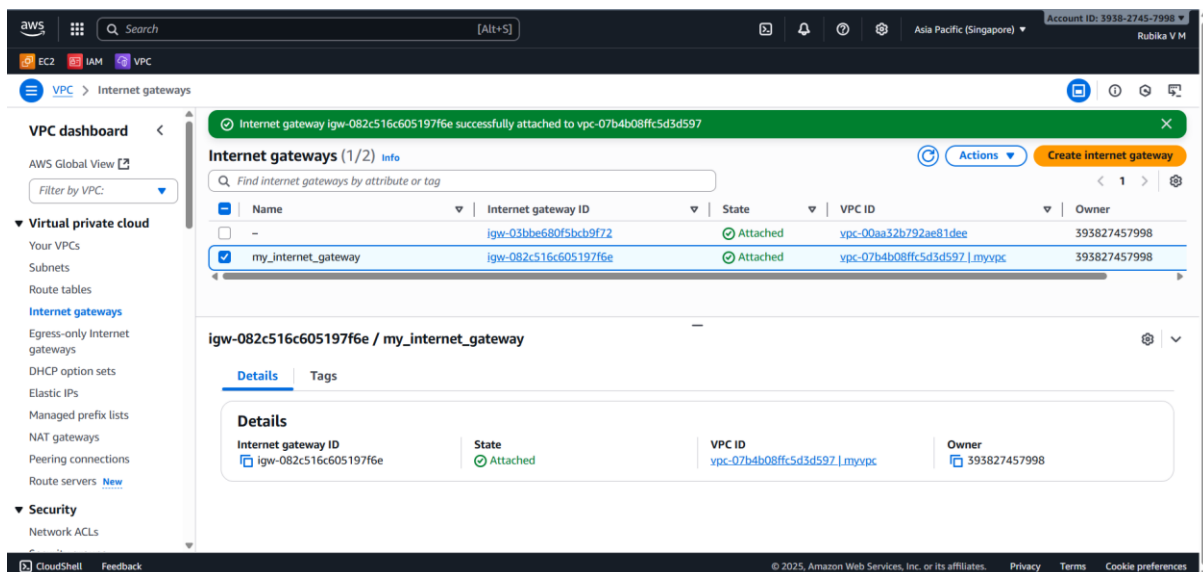
Creation of route tables...



The screenshot shows the AWS Management Console interface for the 'Route tables' page. The left sidebar contains the 'VPC dashboard' and 'Virtual private cloud' sections. The main content area shows a list of route tables with columns: Name, Route table ID, Explicit subnet associ..., Edge associations, Main, and VPC. The table lists four route tables: -, public_rt, and private_rt. The 'public_rt' table is the main route table, and the 'private_rt' table is associated with the VPC 'vpc-07b4b08ffc5d3d597'.

Name	Route table ID	Explicit subnet associ...	Edge associations	Main	VPC
-	rtb-0b82a47c9d0a0356	-	-	Yes	vpc-00aa32b792ae81dee
-	rtb-0ccffc4a458b96cf0	-	-	Yes	vpc-07b4b08ffc5d3d597 n
public_rt	rtb-031d7a741bf2cfad4	-	-	No	vpc-07b4b08ffc5d3d597 n
private_rt	rtb-0714686a3b41602a0	-	-	No	vpc-07b4b08ffc5d3d597 n

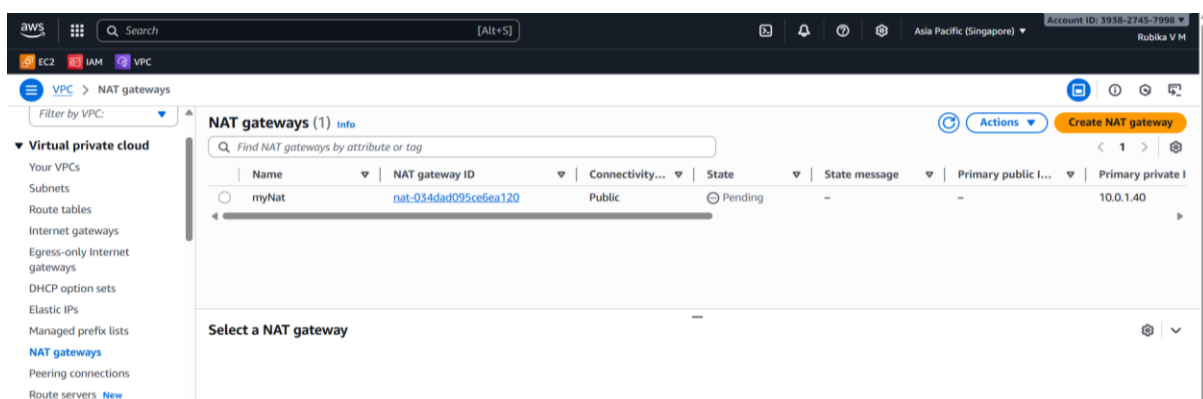
Creation of Internet gateway and attached to VPC...



The screenshot shows the AWS Management Console interface for the 'Internet gateways' page. The left sidebar contains the 'VPC dashboard' and 'Virtual private cloud' sections. The main content area shows a list of Internet gateways with columns: Name, Internet gateway ID, State, VPC ID, and Owner. The table lists two Internet gateways: igw-03bbe680f5bcb9f72 and my_internet_gateway. The 'my_internet_gateway' is attached to the VPC 'vpc-07b4b08ffc5d3d597'.

Name	Internet gateway ID	State	VPC ID	Owner
-	igw-03bbe680f5bcb9f72	Attached	vpc-00aa32b792ae81dee	393827457998
my_internet_gateway	igw-082c516c605197f6e	Attached	vpc-07b4b08ffc5d3d597 myvpc	393827457998

Creation of NAT gateway...



The screenshot shows the AWS Management Console interface for the 'NAT gateways' page. The left sidebar contains the 'VPC dashboard' and 'Virtual private cloud' sections. The main content area shows a list of NAT gateways with columns: Name, NAT gateway ID, Connectivity..., State, State message, Primary public I..., and Primary private I. The table lists one NAT gateway: myNat. The 'myNat' is in a 'Pending' state.

Name	NAT gateway ID	Connectivity...	State	State message	Primary public I...	Primary private I
myNat	nat-034dad095ce6ea120	Public	Pending	-	-	10.0.1.40

Creation of public and private security group...

The screenshot shows the AWS Management Console interface. A green notification banner at the top states: "Security group (sg-009237ba92174f022 | private_securitygrp) was created successfully". Below this, the "Security Groups (65)" page is displayed. A table lists several security groups, including "public_sg" and "private_securitygrp". The "private_securitygrp" section is expanded, showing its details, inbound rules, outbound rules, sharing status, VPC associations, and tags. The left sidebar shows the navigation menu with categories like Virtual private cloud, Security, and PrivateLink and Lattice.

Name	Security group ID	Security group name	VPC ID	Description
public_sg	sg-0b216cfe320dcd2	public_securitygrp	vpc-07b4b08ffc5d3d597	publicsg
-	sg-04713bb55eea3a100	launch-wizard-22	vpc-00aa32b792ae81dee	launch-wizard-
-	sg-06d5b18d21a12f0e3	launch-wizard-6	vpc-00aa32b792ae81dee	launch-wizard-
-	sg-086da116773c26a57	launch-wizard-10	vpc-00aa32b792ae81dee	launch-wizard-
-	sg-06cd71911a7aaaf6	launch-wizard-23	vpc-00aa32b792ae81dee	launch-wizard-
-	sg-0ba4071bc7723096f	launch-wizard-9	vpc-00aa32b792ae81dee	launch-wizard-
-	sg-096942519e05616ad	launch-wizard-50	vpc-00aa32b792ae81dee	launch-wizard-

Attachment of public route table with internet gateway...

The screenshot shows the "Edit routes" page in the AWS Management Console. It displays a table with columns for Destination, Target, Status, Propagated, and Route Origin. Two routes are listed: one for destination 10.0.0.0/16 with target "local", and another for destination 0.0.0.0/0 with target "Internet Gateway". The "Internet Gateway" target is selected, and its ID "igw-082c516c605197f6e" is shown in the search bar. The "Add route" button is visible at the bottom left, and "Cancel", "Preview", and "Save changes" buttons are at the bottom right.

Destination	Target	Status	Propagated	Route Origin
10.0.0.0/16	local	Active	No	CreateRouteTable
0.0.0.0/0	Internet Gateway	Active	No	CreateRoute

Attachment of private route table with NAT gateway...

Edit routes

Destination	Target	Status	Propagated	Route Origin
10.0.0.0/16	local	Active	No	CreateRouteTable
0.0.0.0/0	NAT Gateway	Active	No	CreateRoute

[Add route](#) [Cancel](#) [Preview](#) [Save changes](#)

Creation of public and private instance...

Instances (2)

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IP
private_instance	i-0488b193937affbbf	Running	t2.micro	Initializing	View alarms +	ap-southeast-1a	-
public_instance	i-0bf85b9ea89a3abbf	Running	t2.micro	Initializing	View alarms +	ap-southeast-1a	-

[Select an instance](#)

Checking whether the internet is passing from public to private instance...

