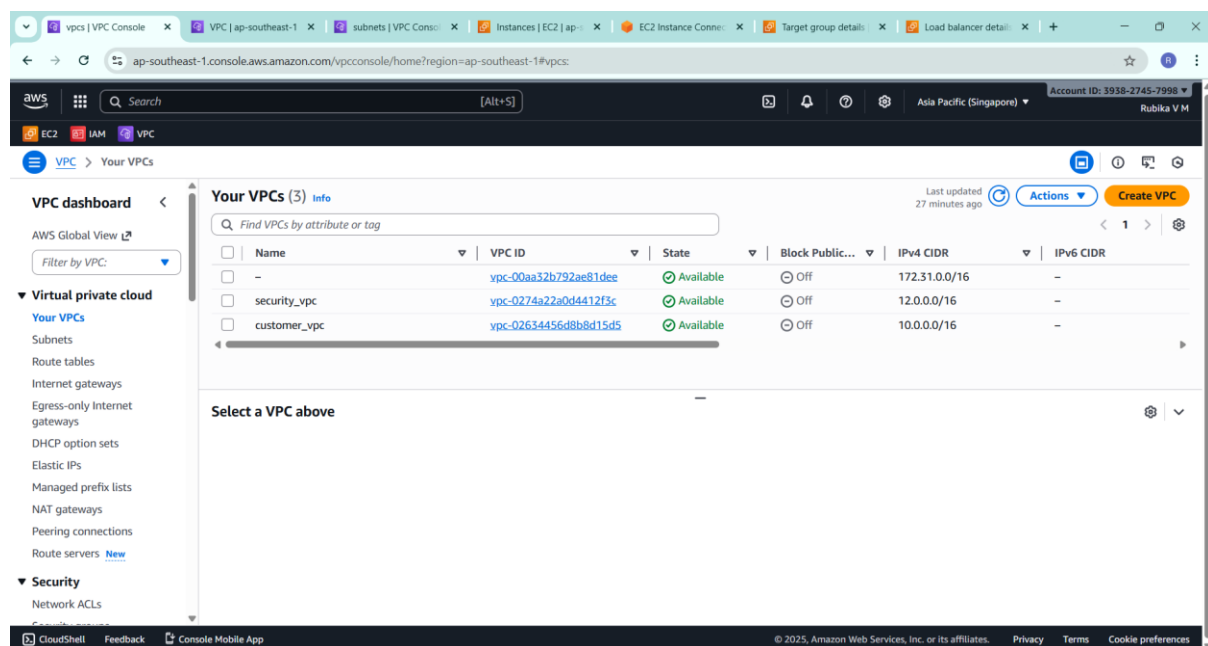


Task - 23

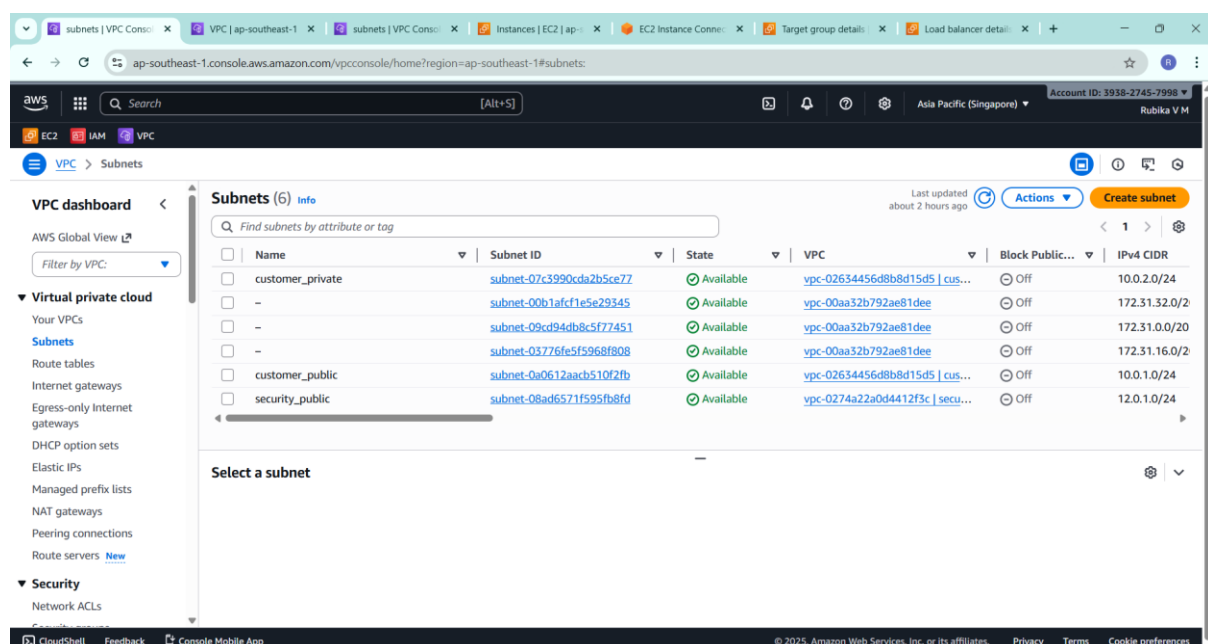
Gateway load balancer

- A Gateway Load Balancer (GWLB) is a type of load balancer that acts as a transparent network gateway to deploy, scale, and manage a fleet of virtual appliances like firewalls, intrusion detection systems, and deep packet inspection systems.
- It provides a single entry and exits point for network traffic, distributes that traffic to healthy appliances, and uses a protocol like Geneve to encapsulate traffic transparently so the appliances see the original source and destination of the traffic.

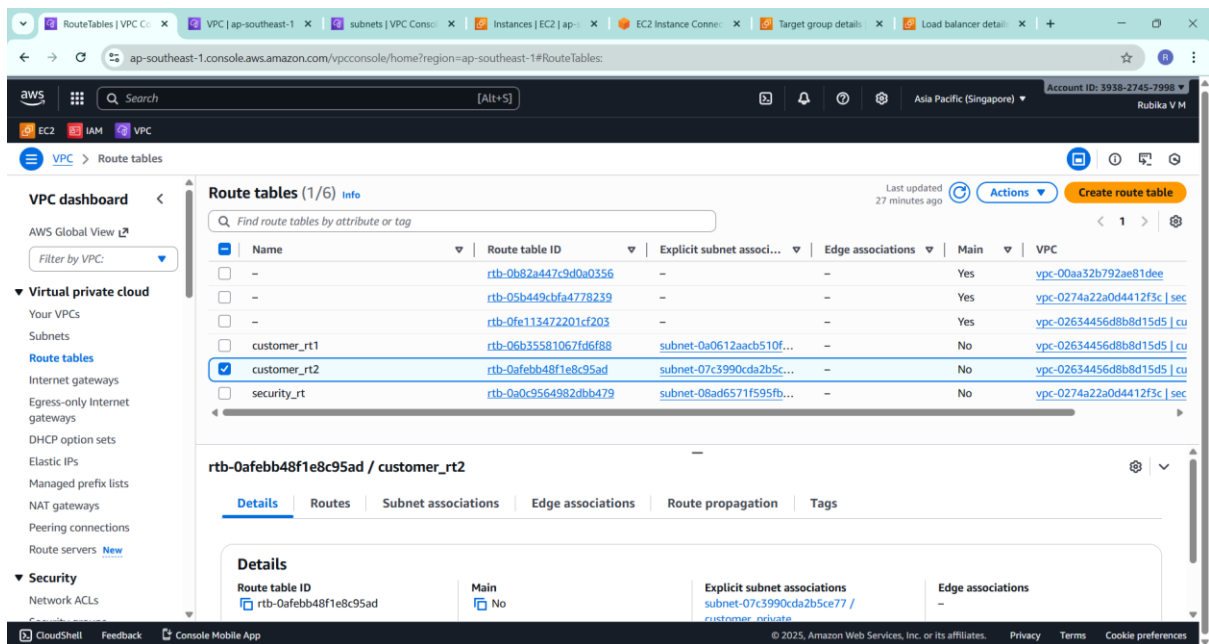
Create a VPC



Create a subnet



Create route table



The screenshot shows the AWS Management Console for the 'Route tables' section. The left sidebar contains the 'VPC dashboard' and 'Virtual private cloud' sections. The main content area displays a table of route tables. The 'customer_rt2' route table is selected, and its details are shown below the table.

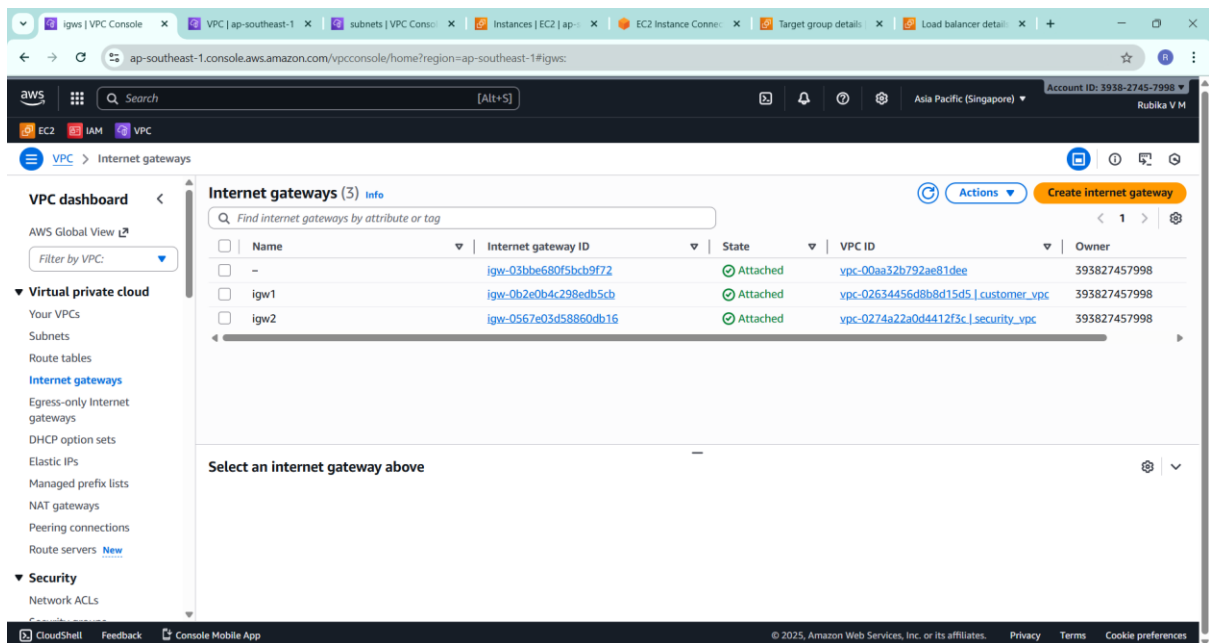
Name	Route table ID	Explicit subnet associ...	Edge associations	Main	VPC
-	rtb-0b82a47c9d0a0356	-	-	Yes	vpc-00aa32b792ae81dee
-	rtb-05b449cbfa4778239	-	-	Yes	vpc-0274a22a0d4412f3c sec
-	rtb-0fe113472201cf203	-	-	Yes	vpc-02634456d8b8d15d5 cu
customer_rt1	rtb-06b35581067fd6f88	subnet-0a0612aacb510f...	-	No	vpc-02634456d8b8d15d5 cu
customer_rt2	rtb-0afebb48f1e8c95ad	subnet-07c3990cda2b5c...	-	No	vpc-02634456d8b8d15d5 cu
security_rt	rtb-0a0c9564982dbb479	subnet-08ad6571f595fb...	-	No	vpc-0274a22a0d4412f3c sec

Below the table, the details for the selected route table 'rtb-0afebb48f1e8c95ad / customer_rt2' are shown. The details include the Route table ID, Main status, Explicit subnet associations, and Edge associations.

Details

- Route table ID: rtb-0afebb48f1e8c95ad
- Main: No
- Explicit subnet associations: subnet-07c3990cda2b5c77 / customer_rt2
- Edge associations: -

Create internet gateway



The screenshot shows the AWS Management Console for the 'Internet gateways' section. The left sidebar contains the 'VPC dashboard' and 'Virtual private cloud' sections. The main content area displays a table of internet gateways. The 'igw1' internet gateway is selected, and its details are shown below the table.

Name	Internet gateway ID	State	VPC ID	Owner
-	igw-03bbe680f5bcb9f72	Attached	vpc-00aa32b792ae81dee	393827457998
igw1	igw-0b2e0b4c298edb5cb	Attached	vpc-02634456d8b8d15d5 customer_vpc	393827457998
igw2	igw-0567e03d58860db16	Attached	vpc-0274a22a0d4412f3c security_vpc	393827457998

Below the table, the details for the selected internet gateway 'igw1' are shown. The details include the Internet gateway ID, State, VPC ID, and Owner.

Select an internet gateway above

Create a security group

Security group (sg-095b818c210f6241f | sg_2) was created successfully

Details

Security Groups (9) Info

Find security groups by attribute or tag

<input type="checkbox"/>	Name	Security group ID	Security group name	VPC ID	Description
<input type="checkbox"/>	-	sg-0a89dbfa2910b0a83	launch-wizard-3	ypc-00aa32b792ae81dee	launch-wizard-
<input type="checkbox"/>	-	sg-0f5c90fb0671c5566	launch-wizard-1	ypc-00aa32b792ae81dee	launch-wizard-
<input type="checkbox"/>	-	sg-095b818c210f6241f	sg_2	ypc-0274a22a0d4412f3c	sg
<input type="checkbox"/>	-	sg-0890560fda1252428	launch-wizard-4	ypc-00aa32b792ae81dee	launch-wizard-
<input type="checkbox"/>	-	sg-05ee9f9ba43e0a7dd	default	ypc-0274a22a0d4412f3c	default VPC sec
<input type="checkbox"/>	-	sg-048c0219ee74e277a	sg_1	ypc-02634456d8b8d15d5	sg
<input type="checkbox"/>	-	sg-05d188ac4f7894163	default	ypc-02634456d8b8d15d5	default VPC sec

Select a security group

Create target group

Target groups (1) Info

Filter target groups

<input type="checkbox"/>	Name	ARN	Port	Protocol	Target type	Load balancer	VPC ID
<input type="checkbox"/>	my-tg	arn:aws:elasticloadbalancing...	6081	GENEVE	Instance	None associated	vpc-0274...

0 target groups selected

Select a target group above.

Create a GWLB

The screenshot shows the AWS Management Console for the 'ap-southeast-1' region. The 'Load balancers' page is active, showing a table with one load balancer:

Name	State	Type	Scheme	IP address type	VPC ID	Availability Zones
gw-lb	Active	gateway	-	IPv4	vpc-0274a22a0d4412f3c	ap-southeast-1a (ap)

The left sidebar shows the following navigation options:

- Capacity Manager
- Images
 - AMIs
 - AMI Catalog
- Elastic Block Store
 - Volumes
 - Snapshots
 - Lifecycle Manager
- Network & Security
 - Security Groups
 - Elastic IPs
 - Placement Groups
 - Key Pairs
 - Network Interfaces
- Load Balancing
 - Load Balancers
 - Target Groups
 - Trust Stores
- Auto Scaling

Create endpoint services

The screenshot shows the AWS Management Console for the 'ap-southeast-1' region. The 'Endpoint services' page is active, showing a table with one endpoint service:

Name	Service ID	Types	Service name	State	Availability Zones
my-end-pt	vpce-svc-0b6e921648aa08f06	GatewayLoadBalancer	com.amazonaws.vpce.ap-southeast-1.vpce-svc-0b6e921648aa08f06	Available	aps

The left sidebar shows the following navigation options:

- NAT gateways
- Peering connections
- Route servers
- Security
 - Network ACLs
 - Security groups
- PrivateLink and Lattice
 - Getting started
 - Endpoints
 - Endpoint services
 - Service networks
 - Lattice services
 - Resource configurations
 - Resource gateways
 - Target groups
- DNS firewall
 - Rule groups
 - Domain lists
- Network Firewall
 - Firewall rules

Create endpoints

The screenshot shows the AWS Management Console for the VPC Endpoints page. The left sidebar contains navigation links for VPC, Security, PrivateLink and Lattice, DNS firewall, and Network Firewall. The main content area displays the 'Endpoints (1/1)' table with the following data:

Name	VPC endpoint ID	Endpoint type	Status	Service name
my_ept	vpce-07d1f56a13a59cfb3	GatewayLoadBalancer	Available	com.amazonaws.vpce.i

Below the table, the details for the endpoint 'vpce-07d1f56a13a59cfb3 / my_ept' are shown:

- Endpoint ID:** vpce-07d1f56a13a59cfb3
- Status:** Available
- Creation time:** Thursday 30 October 2025 at 16:56:56 GMT+5:30
- Endpoint type:** GatewayLoadBalancer

Create instance

The screenshot shows the AWS Management Console for the EC2 Instances page. The left sidebar contains navigation links for Elastic Block Store, Network & Security, Load Balancing, and Auto Scaling. The main content area displays the 'Instances (1/3)' table with the following data:

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IP
security_insta...	i-079433e80e79243de	Running	t2.micro	2/2 checks passed	View alarms +	ap-southeast-1a	-
customer_priv...	i-0f466dc32114c03bf	Running	t2.micro	2/2 checks passed	View alarms +	ap-southeast-1a	-
customer_pub...	i-02c9f0a8f3b09c443	Running	t2.micro	2/2 checks passed	View alarms +	ap-southeast-1a	-

Below the table, the details for the instance 'i-02c9f0a8f3b09c443 (customer_public_instance)' are shown:

- Instance summary:** Info
- Instance details:** Info
 - AMI ID:** ami-0609186b60570e9c9
 - AMI name:** al2023-ami-2023.9.20251027.0-kernel-6.1-x86_64
 - Monitoring:** disabled
 - Allowed image:** -
 - Platform details:** Linux/UNIX
 - Termination protection:** Disabled

ap-southeast-1

ap-southeast-1

subnets | VPC Consol

Instances | EC2 | ap-

EC2 Instance Conne

Target group detail

Load balancer detail

ap-southeast-1.console.aws.amazon.com/ec2-instance-connect/ssh/home?region=ap-southeast-1&connType=standard&instanceId=i-02c9f0a8f3b09c443&osUser=ec2-user&sshPort=22&addressFami...

aws

Search

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EC2 IAM VPC

Asia Pacific (Singapore)

Account ID: 3938-2745-2998

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Amazon Linux 2023

https://aws.amazon.com/linux/amazon-linux-2023

Last login: Thu Oct 30 11:36:55 2025 from 3.0.5.35
[ec2-user@ip-10-0-1-43 ~]$ sudo tcpdump -nvv 'port 6081'
dropped privs to tcpdump
tcpdump: listening on enX0, link-type EN10MB (Ethernet), snapshot length 262144 bytes
]
```

i-02c9f0a8f3b09c443 (customer_public_instance)

PublicIP: 54.169.718.192 PrivateIP: 10.0.1.43

CloudShell Feedback Console Mobile App

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