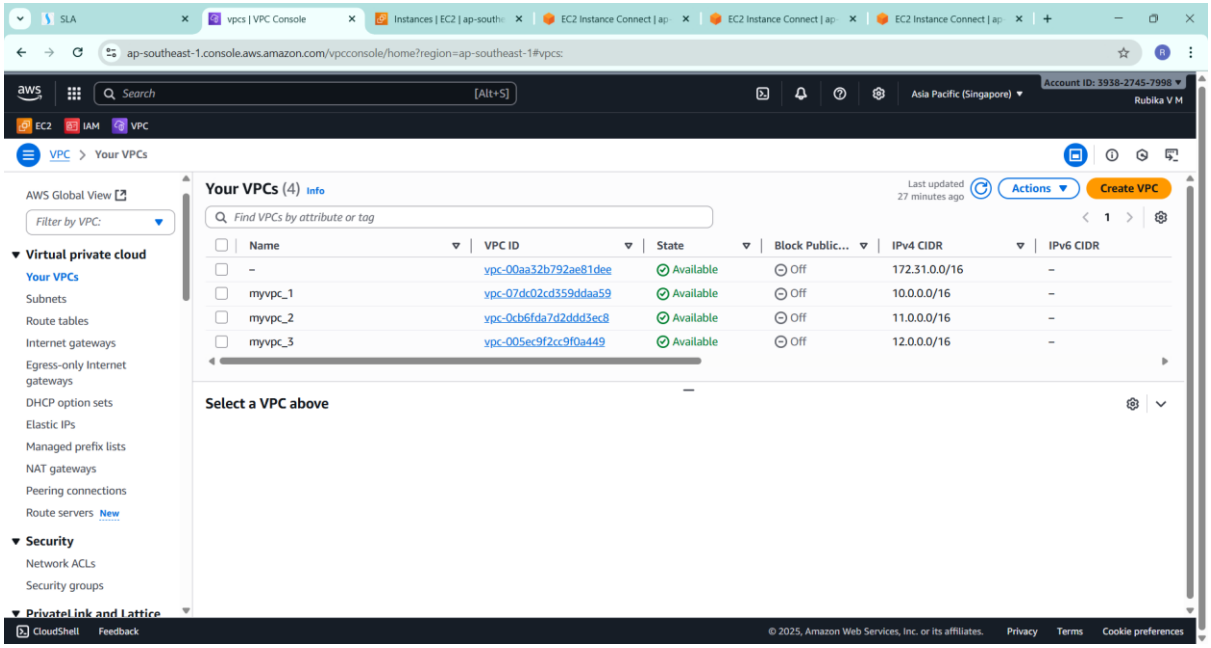
TASK – 10

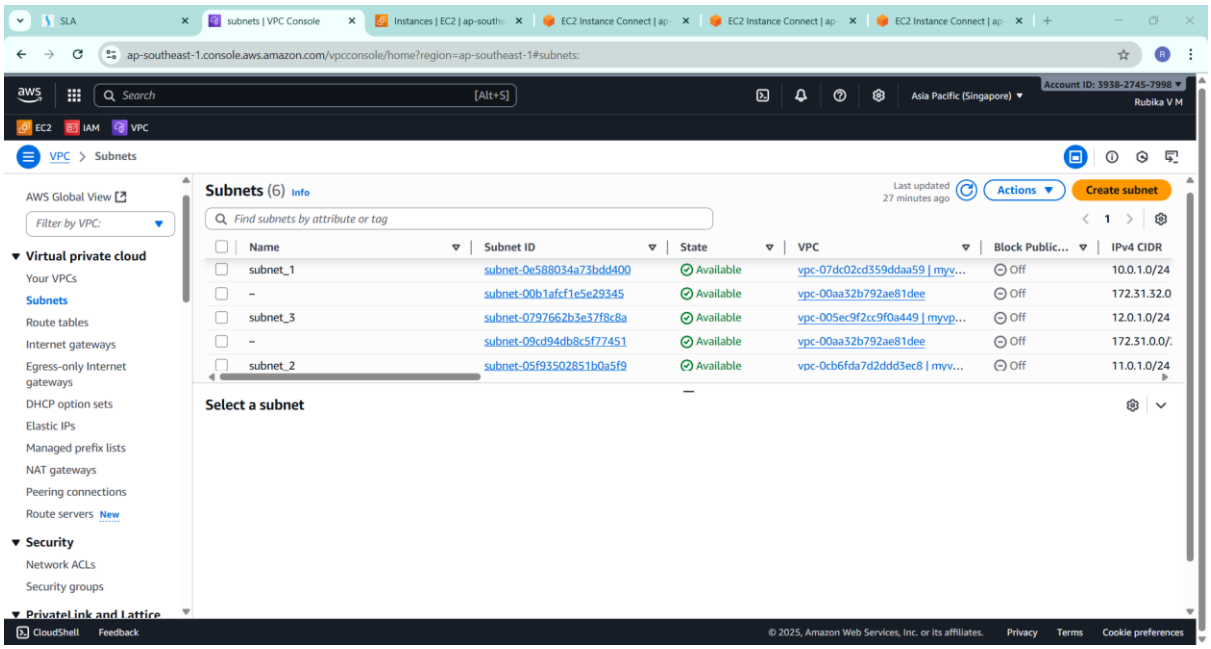
VPC Transit gateway:

- A VPC Transit Gateway is a network hub service, often used in AWS, that simplifies the connectivity of multiple virtual private clouds (VPCs) and on-premises networks by providing a central point for traffic routing.
- Instead of creating separate direct connections between networks (like in VPC peering), a transit gateway works as a central cloud router, allowing each network to connect once and communicate with all other connected networks.

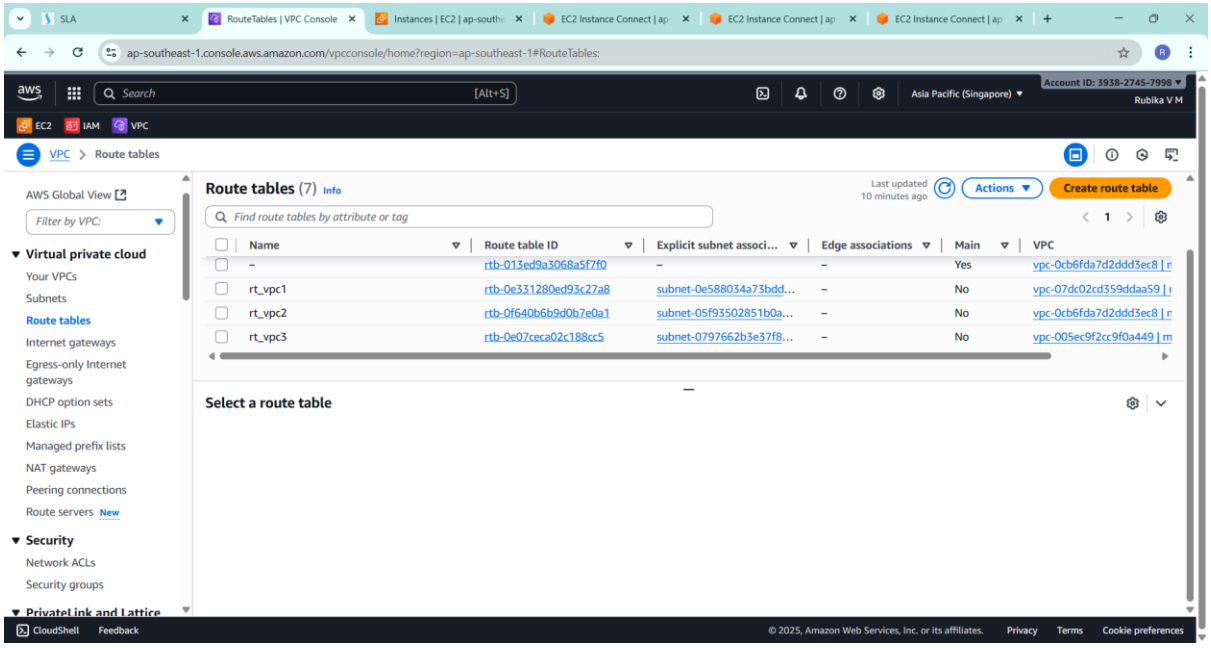
Creation of VPC:



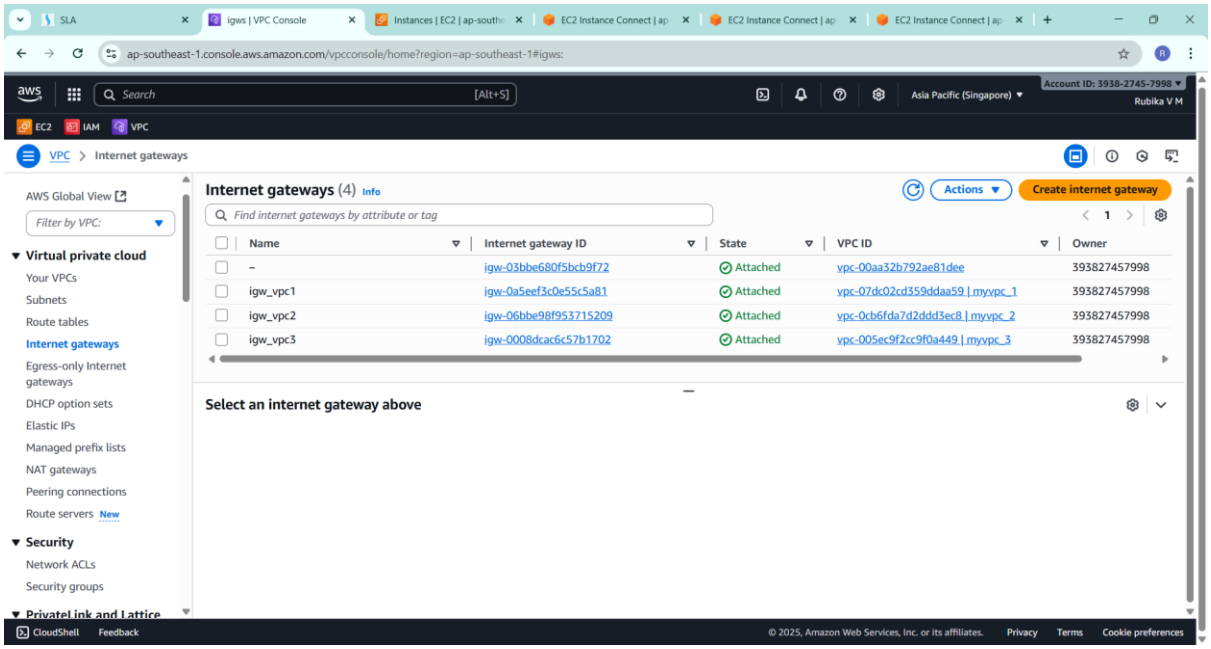
Creation of subnets:



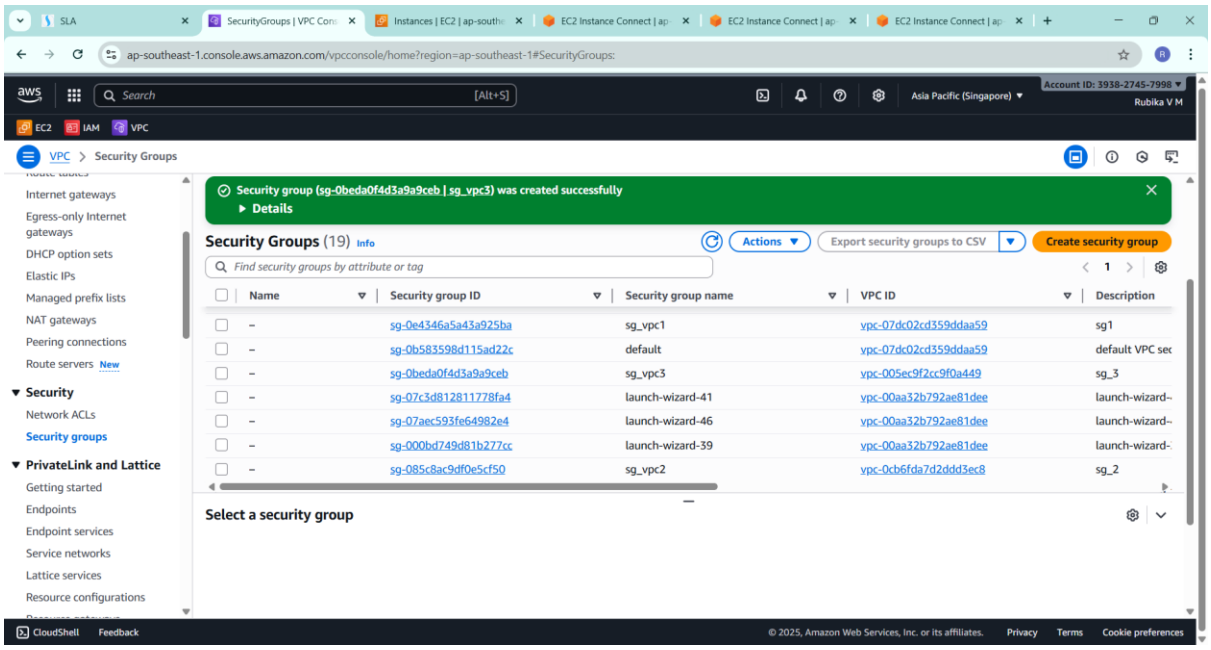
Creation of Route tables:



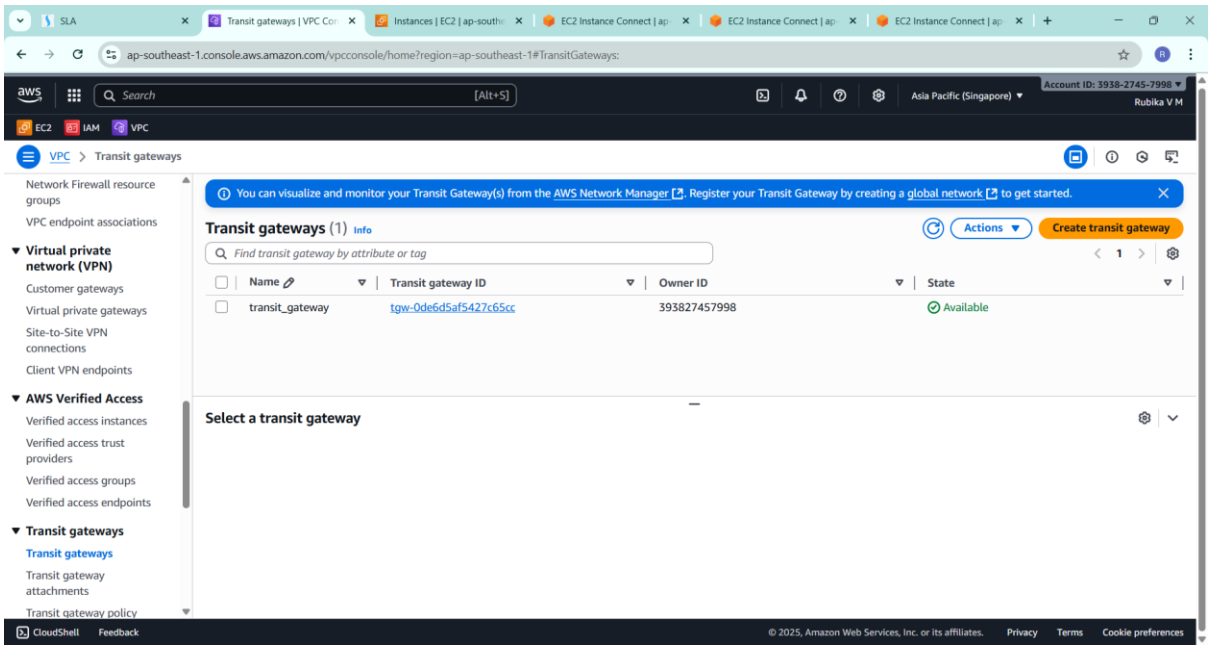
Creation of Internet Gateway:



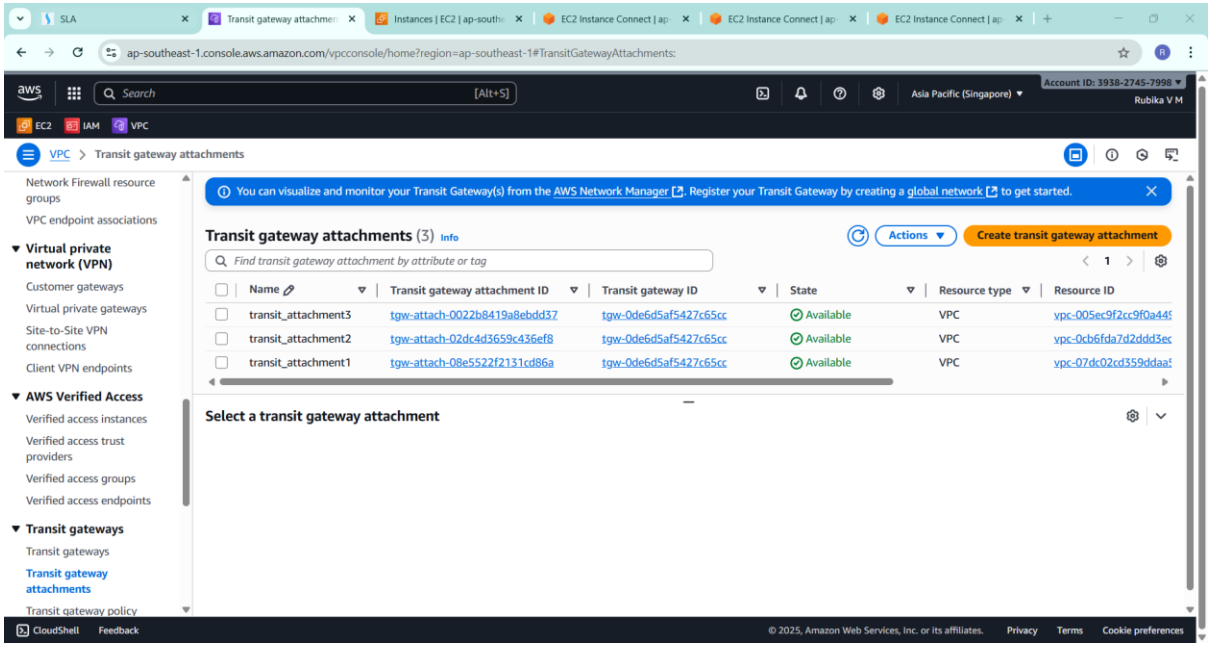
Creation of Security Groups:



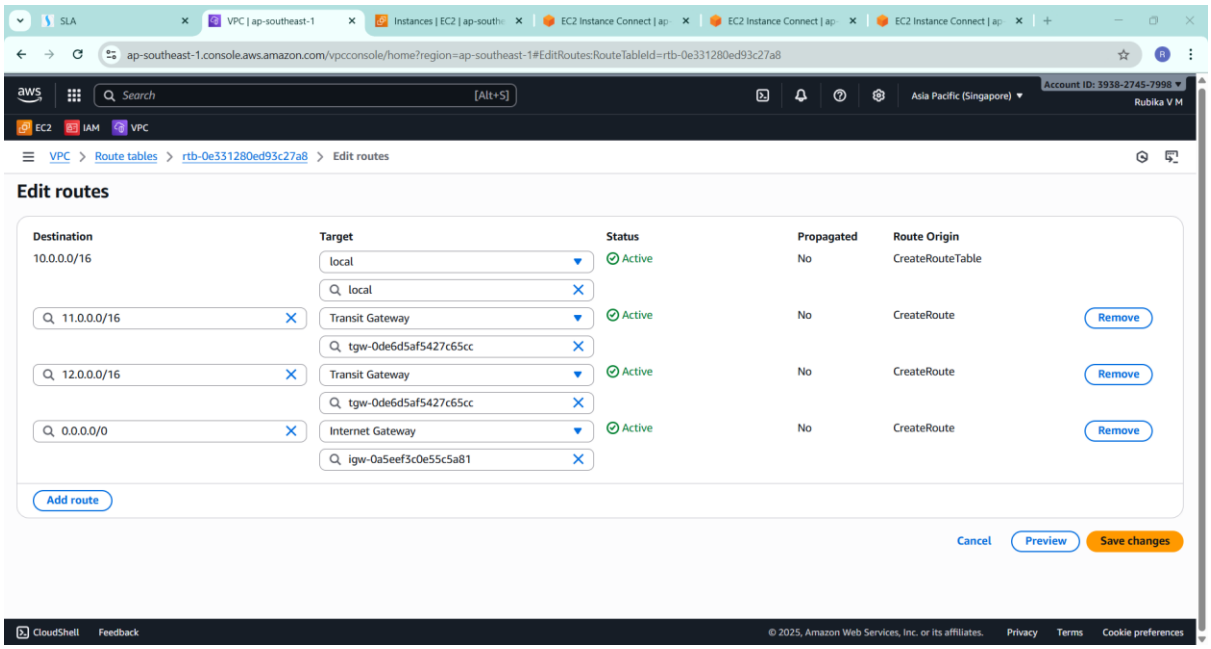
Creation of Transit gateways:

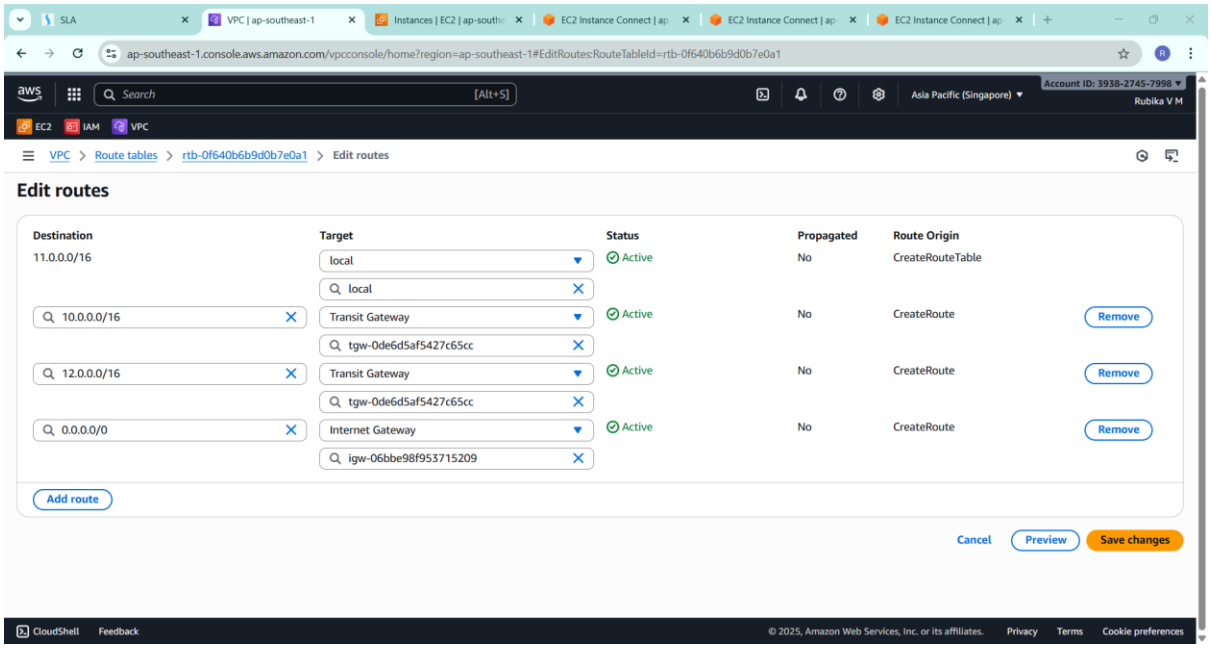


Attachment of transit gateways:



Then attaching create transit gateway attachment to routes:




ap-southeast-1.console.aws.amazon.com/vpcconsole/home?region=ap-southeast-1#EditRoutes:RouteTableId=rtb-0f640b6b9d0b7e0a1
Search [Alt+S]
Asia Pacific (Singapore)
Account ID: 3938-2745-7998
Rubika V M
EC2 IAM VPC
VPC > Route tables > rtb-0f640b6b9d0b7e0a1 > Edit routes
Edit routes
Destination
Target
Status
Propagated
Route Origin
11.0.0.0/16
local
Active
No
CreateRouteTable
local
10.0.0.0/16
Transit Gateway
Active
No
CreateRoute
Remove
tgw-0de6d5af5427c65cc
12.0.0.0/16
Transit Gateway
Active
No
CreateRoute
Remove
tgw-0de6d5af5427c65cc
0.0.0.0/0
Internet Gateway
Active
No
CreateRoute
Remove
igw-06bbe98f953715209
Add route
Cancel
Preview
Save changes
CloudShell
Feedback
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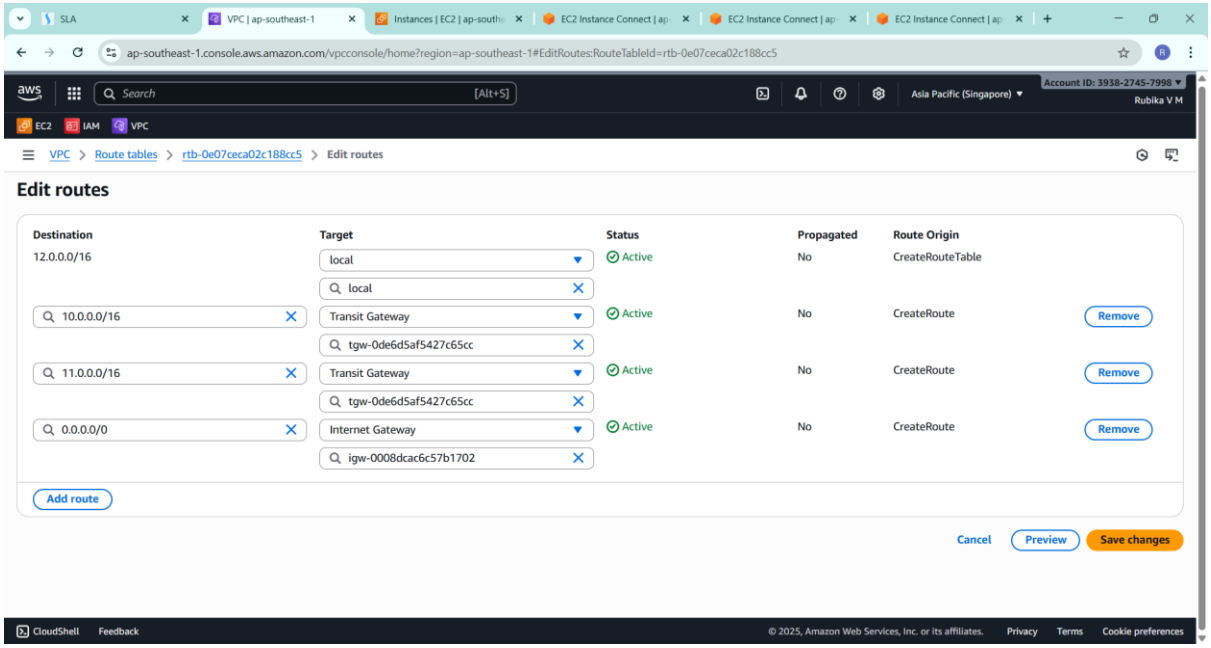
ap-southeast-1.console.aws.amazon.com/vpcconsole/home?region=ap-southeast-1#EditRoutes:RouteTableId=rtb-0e07ceca02c188cc5
Search [Alt+S]
Asia Pacific (Singapore)
Account ID: 3938-2745-7998
Rubika V M
EC2 IAM VPC
VPC > Route tables > rtb-0e07ceca02c188cc5 > Edit routes
Edit routes
Destination
Target
Status
Propagated
Route Origin
12.0.0.0/16
local
Active
No
CreateRouteTable
local
10.0.0.0/16
Transit Gateway
Active
No
CreateRoute
Remove
tgw-0de6d5af5427c65cc
11.0.0.0/16
Transit Gateway
Active
No
CreateRoute
Remove
tgw-0de6d5af5427c65cc
0.0.0.0/0
Internet Gateway
Active
No
CreateRoute
Remove
igw-0008dcac6c57b1702
Add route
Cancel
Preview
Save changes
CloudShell
Feedback
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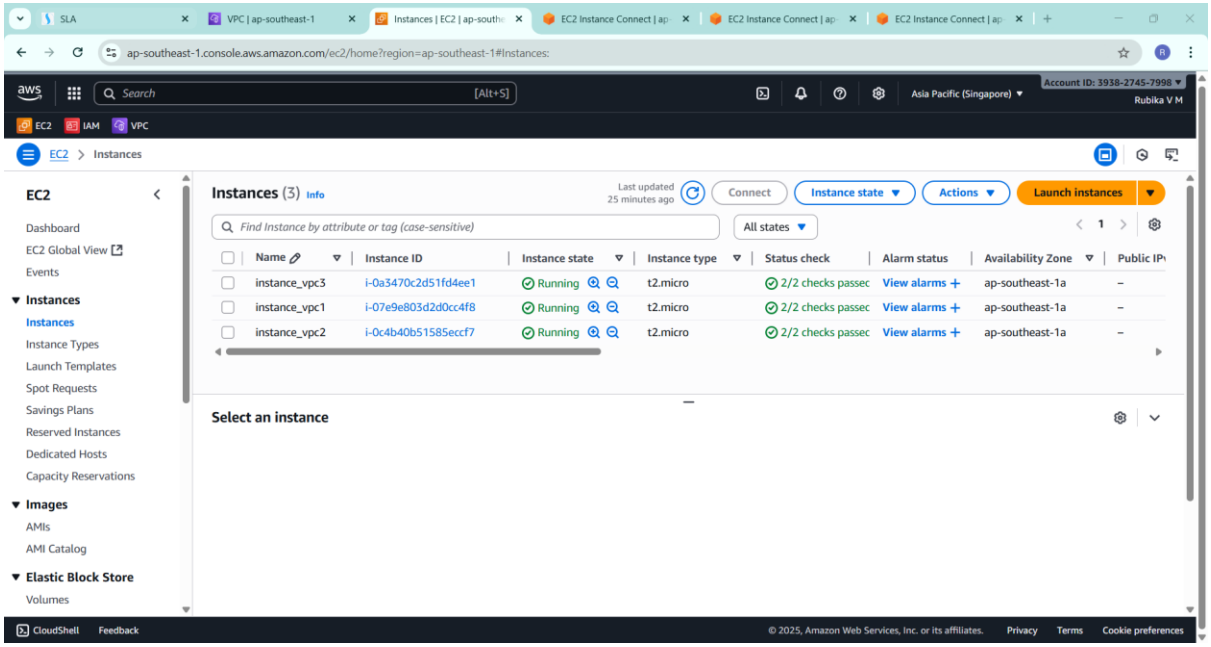
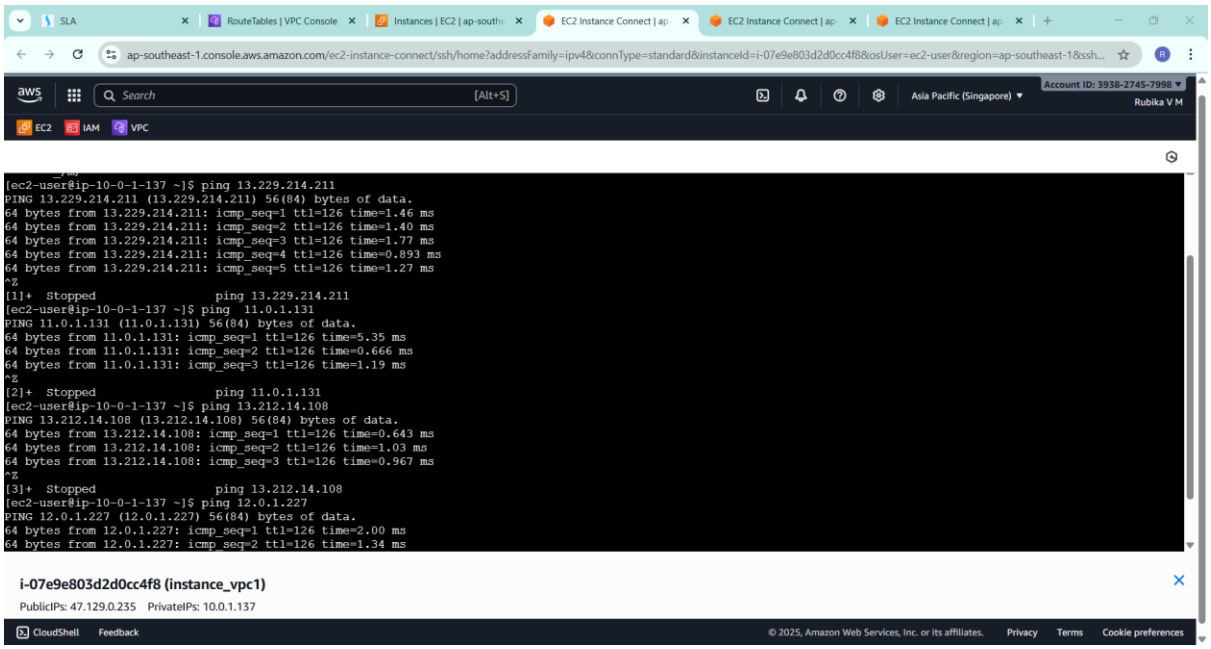
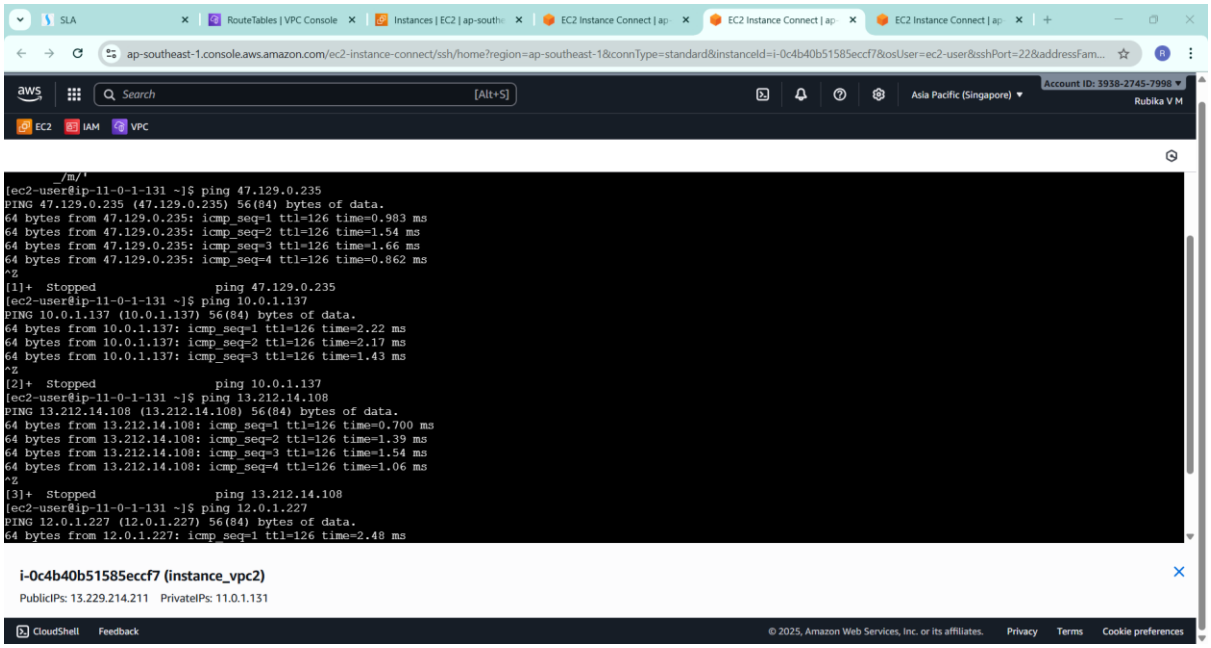
Creation of Instances:



Check for the internet connectivity through ping command:




SLA
RouteTables | VPC Console
Instances | EC2 | ap-southe
EC2 Instance Connect | ap-
EC2 Instance Connect | ap-
EC2 Instance Connect | ap-
ap-southeast-1.console.aws.amazon.com/ec2-instance-connect/ssh/home?region=ap-southeast-1&connType=standard&instanceId=i-0c4b40b51585eccf7&osUser=ec2-user&sshPort=22&addressFam...
aws
Search
[Alt+S]
Asia Pacific (Singapore)
Account ID: 3938-2745-7998
Rubika V M
EC2
IAM
VPC
[ec2-user@ip-11-0-1-131 ~]$ ping 47.129.0.235
PING 47.129.0.235 (47.129.0.235) 56(84) bytes of data.
64 bytes from 47.129.0.235: icmp_seq=1 ttl=126 time=0.983 ms
64 bytes from 47.129.0.235: icmp_seq=2 ttl=126 time=1.54 ms
64 bytes from 47.129.0.235: icmp_seq=3 ttl=126 time=1.66 ms
64 bytes from 47.129.0.235: icmp_seq=4 ttl=126 time=0.862 ms
^Z
[1]+ Stopped ping 47.129.0.235
[ec2-user@ip-11-0-1-131 ~]$ ping 10.0.1.137
PING 10.0.1.137 (10.0.1.137) 56(84) bytes of data.
64 bytes from 10.0.1.137: icmp_seq=1 ttl=126 time=2.22 ms
64 bytes from 10.0.1.137: icmp_seq=2 ttl=126 time=2.17 ms
64 bytes from 10.0.1.137: icmp_seq=3 ttl=126 time=1.43 ms
^Z
[2]+ Stopped ping 10.0.1.137
[ec2-user@ip-11-0-1-131 ~]$ ping 13.212.14.108
PING 13.212.14.108 (13.212.14.108) 56(84) bytes of data.
64 bytes from 13.212.14.108: icmp_seq=1 ttl=126 time=0.700 ms
64 bytes from 13.212.14.108: icmp_seq=2 ttl=126 time=1.39 ms
64 bytes from 13.212.14.108: icmp_seq=3 ttl=126 time=1.54 ms
64 bytes from 13.212.14.108: icmp_seq=4 ttl=126 time=1.06 ms
^Z
[3]+ Stopped ping 13.212.14.108
[ec2-user@ip-11-0-1-131 ~]$ ping 12.0.1.227
PING 12.0.1.227 (12.0.1.227) 56(84) bytes of data.
64 bytes from 12.0.1.227: icmp_seq=1 ttl=126 time=2.48 ms
i-0c4b40b51585eccf7 (instance_vpc2)
PublicIPs: 13.229.214.211 PrivateIPs: 11.0.1.131
CloudShell
Feedback
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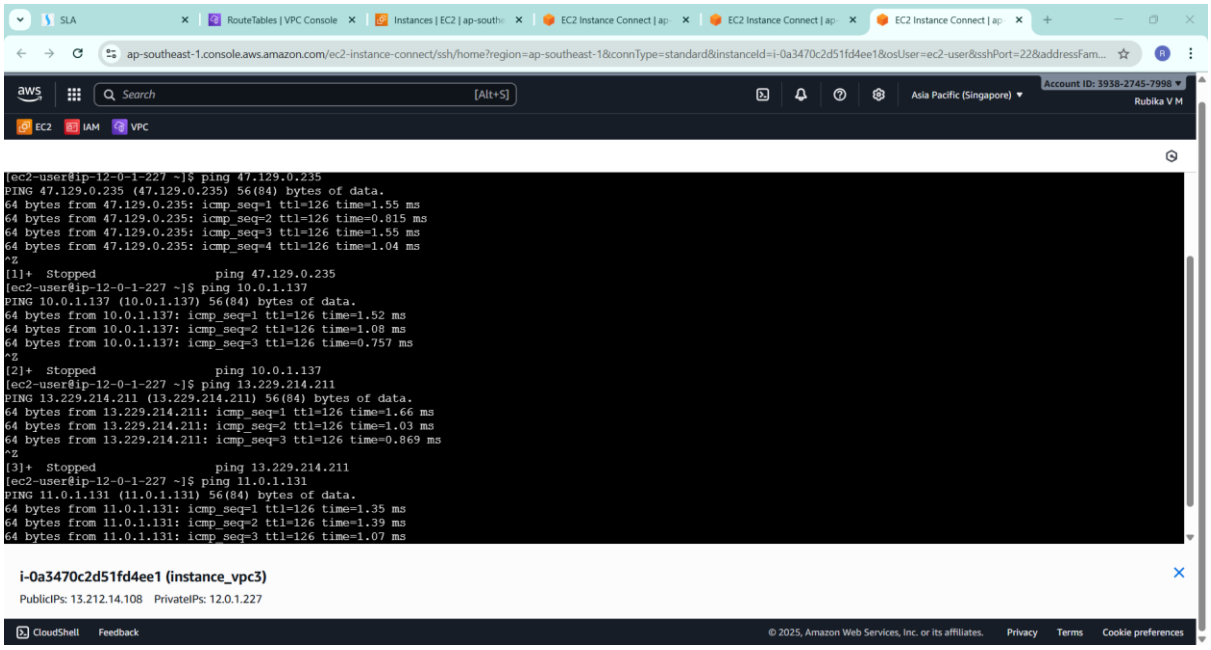
SLA
RouteTables | VPC Console
Instances | EC2 | ap-southe
EC2 Instance Connect | ap-
EC2 Instance Connect | ap-
EC2 Instance Connect | ap-
ap-southeast-1.console.aws.amazon.com/ec2-instance-connect/ssh/home?region=ap-southeast-1&connType=standard&instanceId=i-0a3470c2d51fd4ee1&osUser=ec2-user&sshPort=22&addressFam...
aws
Search
[Alt+S]
Asia Pacific (Singapore)
Account ID: 3938-2745-7998
Rubika V M
EC2
IAM
VPC
[ec2-user@ip-12-0-1-227 ~]$ ping 47.129.0.235
PING 47.129.0.235 (47.129.0.235) 56(84) bytes of data.
64 bytes from 47.129.0.235: icmp_seq=1 ttl=126 time=1.55 ms
64 bytes from 47.129.0.235: icmp_seq=2 ttl=126 time=0.815 ms
64 bytes from 47.129.0.235: icmp_seq=3 ttl=126 time=1.55 ms
64 bytes from 47.129.0.235: icmp_seq=4 ttl=126 time=1.04 ms
^Z
[1]+ Stopped ping 47.129.0.235
[ec2-user@ip-12-0-1-227 ~]$ ping 10.0.1.137
PING 10.0.1.137 (10.0.1.137) 56(84) bytes of data.
64 bytes from 10.0.1.137: icmp_seq=1 ttl=126 time=1.52 ms
64 bytes from 10.0.1.137: icmp_seq=2 ttl=126 time=1.08 ms
64 bytes from 10.0.1.137: icmp_seq=3 ttl=126 time=0.757 ms
^Z
[2]+ Stopped ping 10.0.1.137
[ec2-user@ip-12-0-1-227 ~]$ ping 13.229.214.211
PING 13.229.214.211 (13.229.214.211) 56(84) bytes of data.
64 bytes from 13.229.214.211: icmp_seq=1 ttl=126 time=1.66 ms
64 bytes from 13.229.214.211: icmp_seq=2 ttl=126 time=1.03 ms
64 bytes from 13.229.214.211: icmp_seq=3 ttl=126 time=0.869 ms
^Z
[3]+ Stopped ping 13.229.214.211
[ec2-user@ip-12-0-1-227 ~]$ ping 11.0.1.131
PING 11.0.1.131 (11.0.1.131) 56(84) bytes of data.
64 bytes from 11.0.1.131: icmp_seq=1 ttl=126 time=1.35 ms
64 bytes from 11.0.1.131: icmp_seq=2 ttl=126 time=1.39 ms
64 bytes from 11.0.1.131: icmp_seq=3 ttl=126 time=1.07 ms
i-0a3470c2d51fd4ee1 (instance_vpc3)
PublicIPs: 13.212.14.108 PrivateIPs: 12.0.1.227
CloudShell
Feedback
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