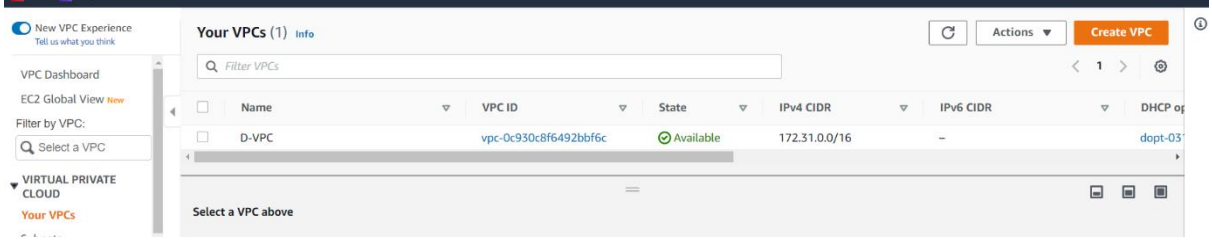
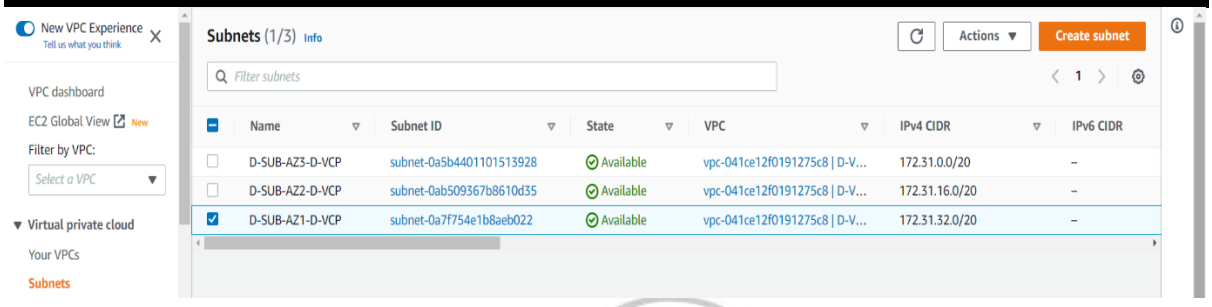
Virtual Private Cloud (Amazon VPC)

By default, AWS on Default services in new portal check all list

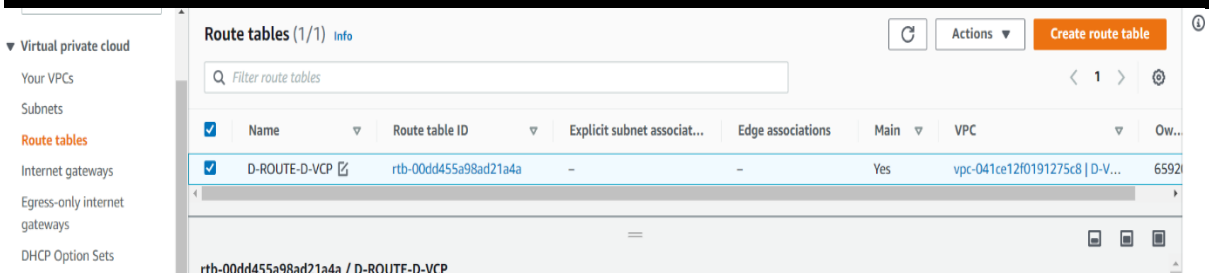
Click your VPC check automatic Default one VPC create AWS



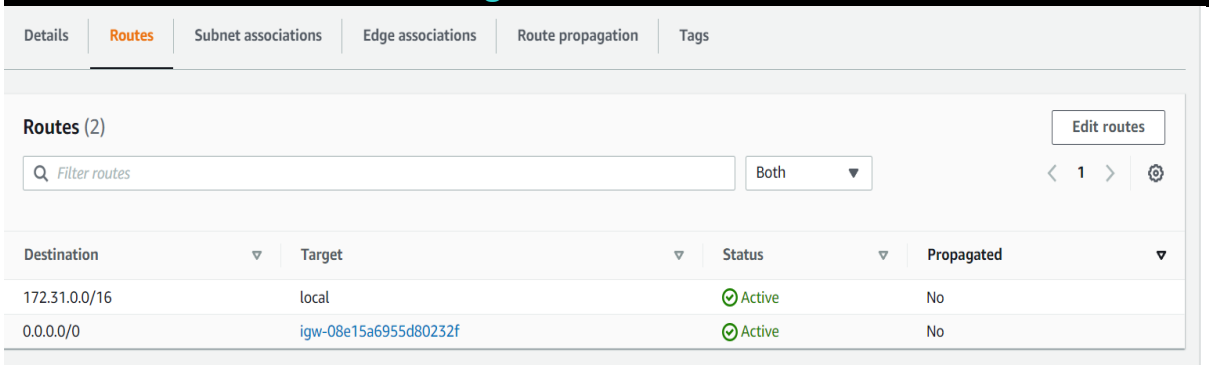
Default AZ-Subnet create to AWS



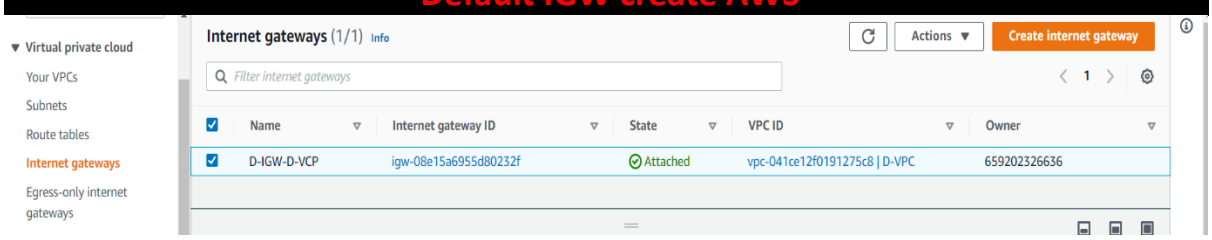
Automatic create Default Route Table create AWS



Two networks configure automatic Default create AWS

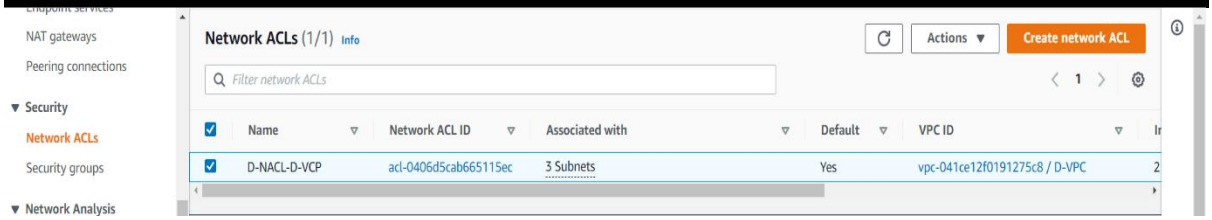


Default IGW create AWS

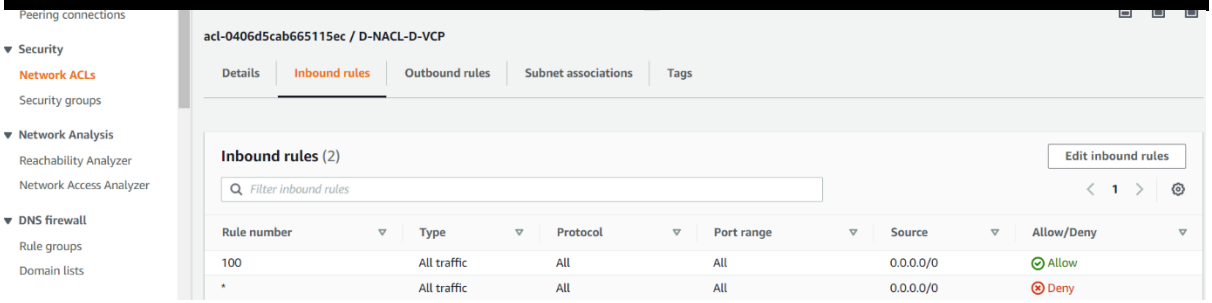


Virtual Private Cloud (Amazon VPC)

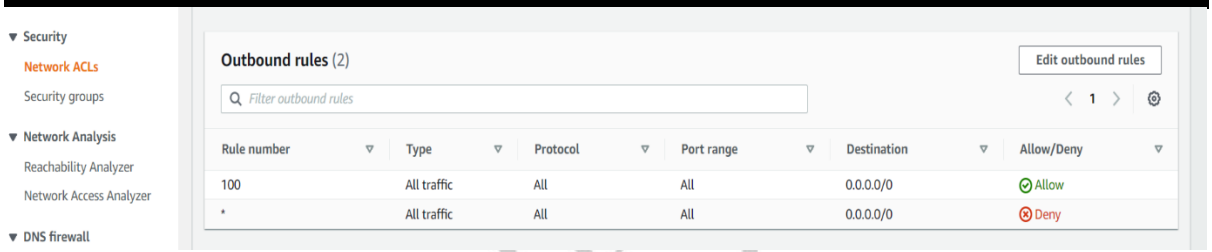
Default NACLs create AWS



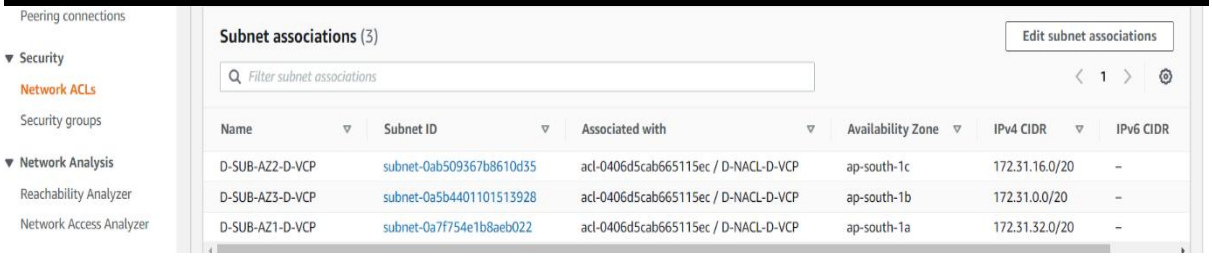
Default NACLs Inbound rules create AWS



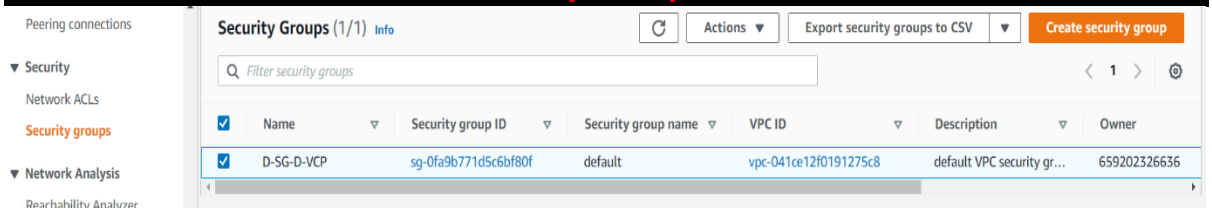
Default NACLs Outbound rules create AWS



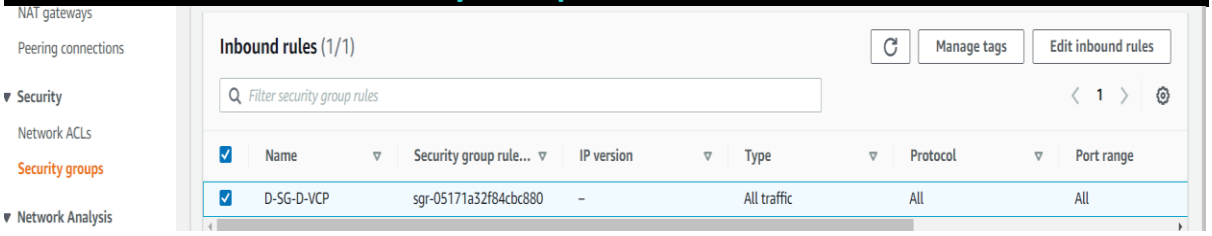
Default NACLs Subnet Associations rules create AWS



Default Security Group create AWS

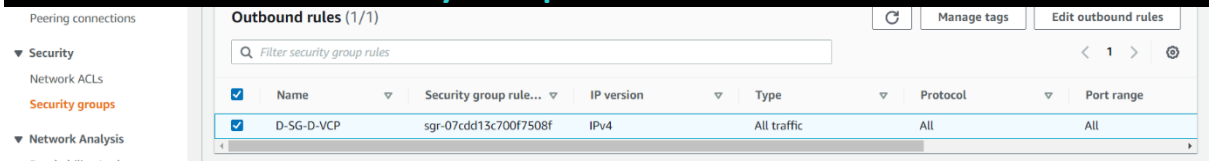


Default Security Group Inbound rules create AWS



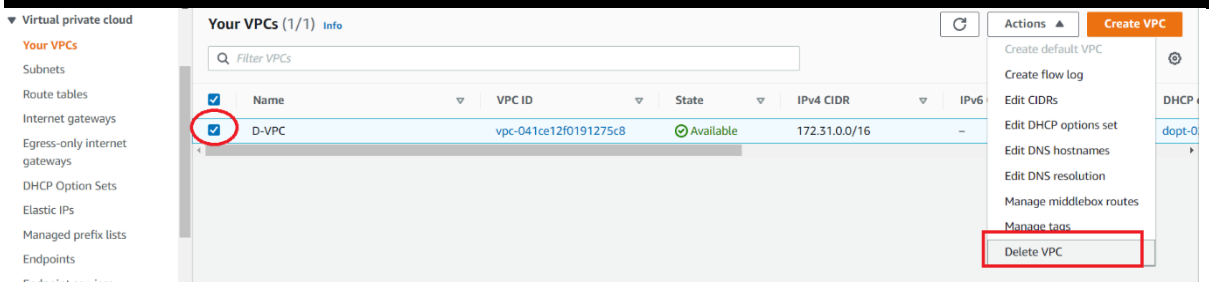
Virtual Private Cloud (Amazon VPC)

Default Security Group Outbound rules create AWS

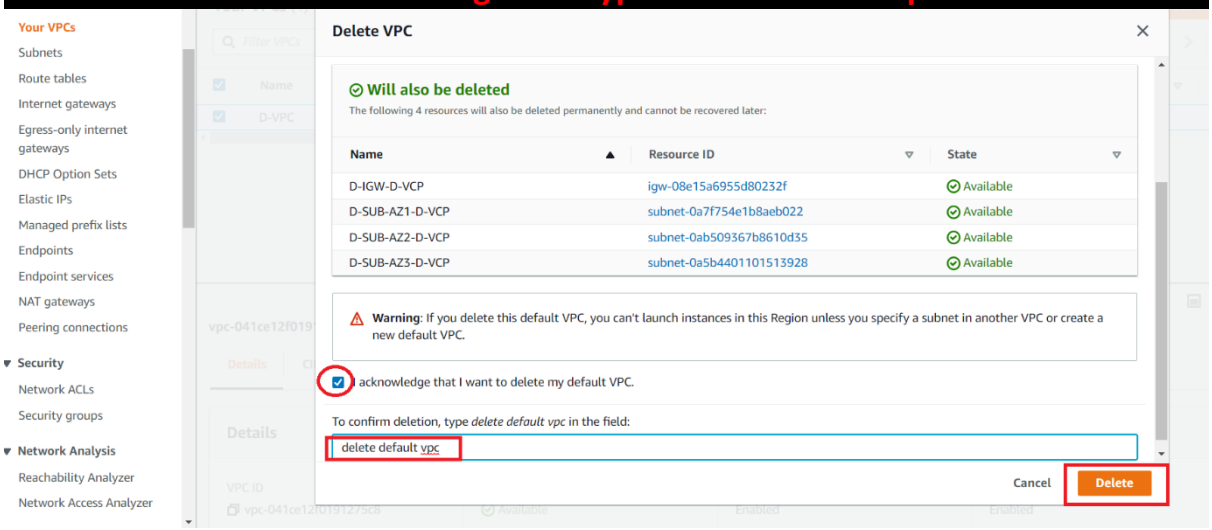


How to delete Default VPC and after delete VPC which service auto delete

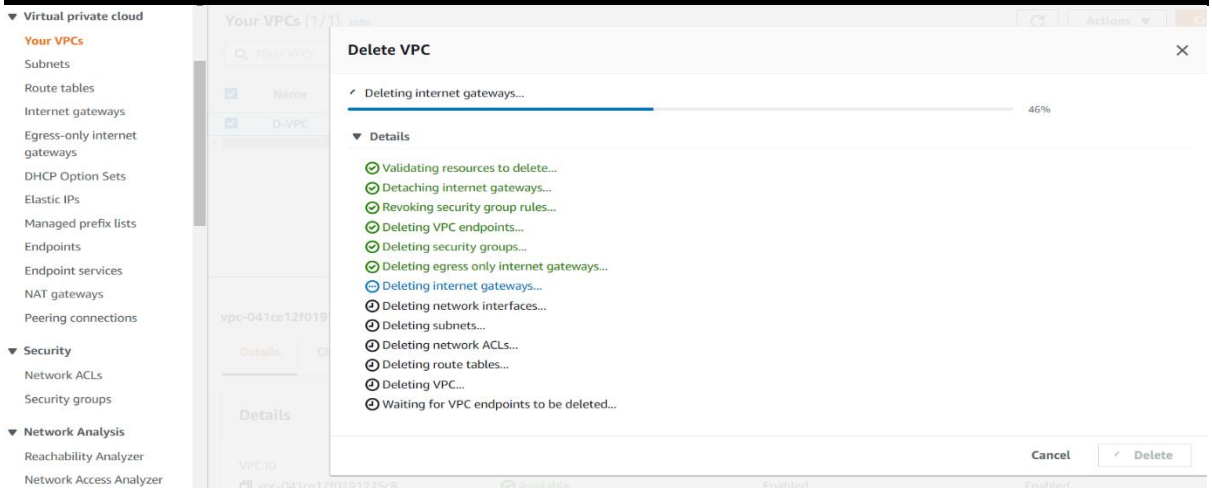
Select Default VPC → select Actions → click Delete VPC



Check mark acknowledge and type delete default vpc → delete

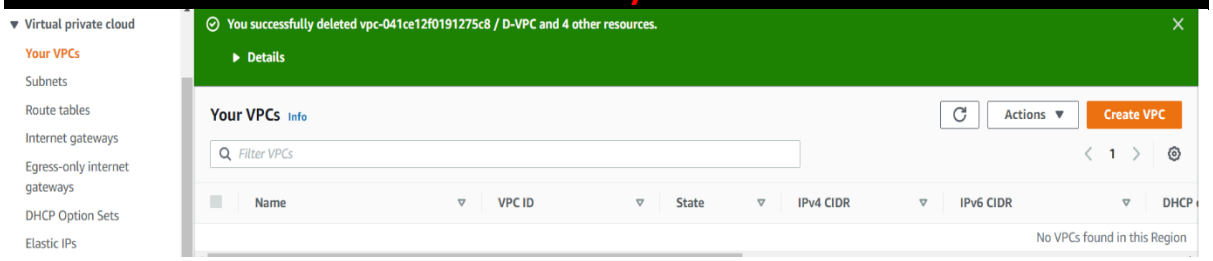


All service default deletes after delete default VPC



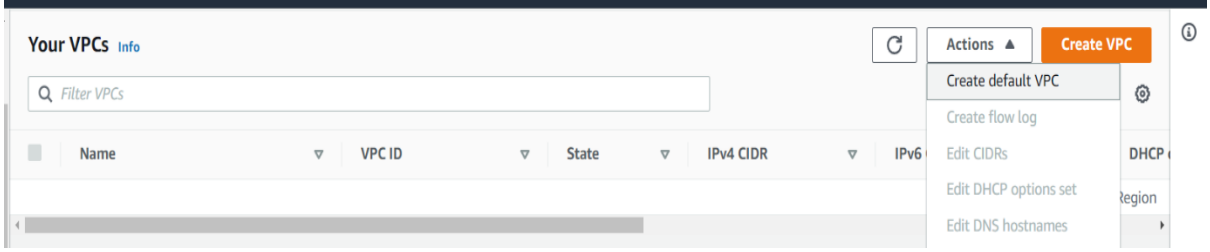
Virtual Private Cloud (Amazon VPC)

Successfully delete

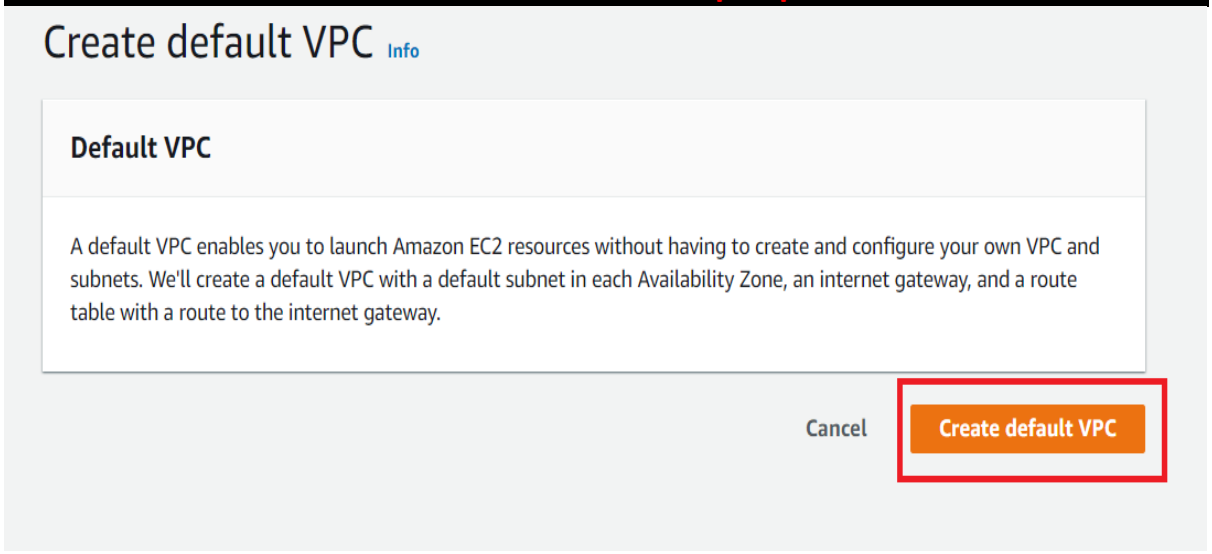


How to create default VPC

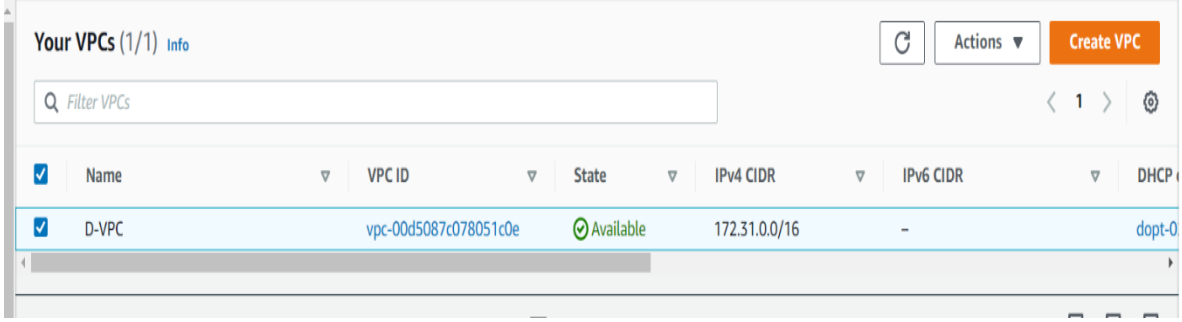
Click Actions option → create default vpc option select



Click to create default vpc option



Create successfully default VPC

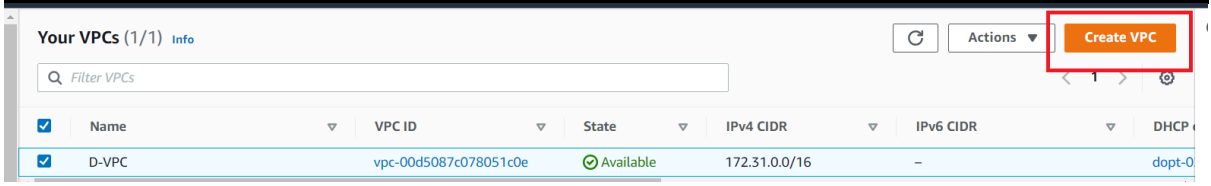


CREATED BY:- VIVEK GANDHI

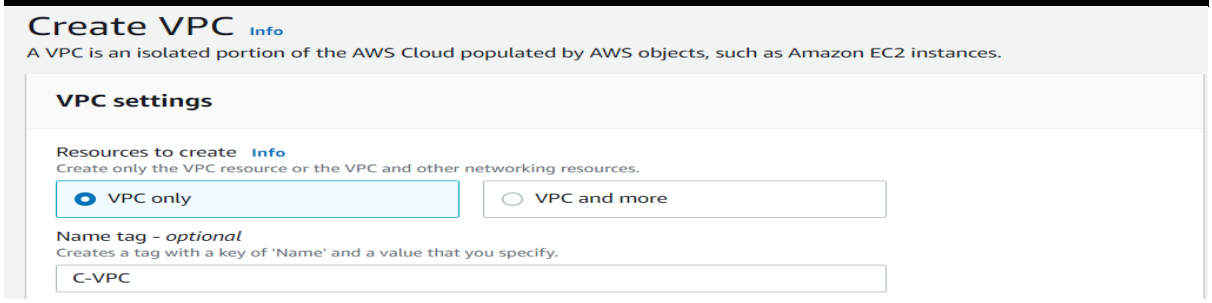
Virtual Private Cloud (Amazon VPC)

If create custom VPC how many services create automatic

Select Create custom VPC

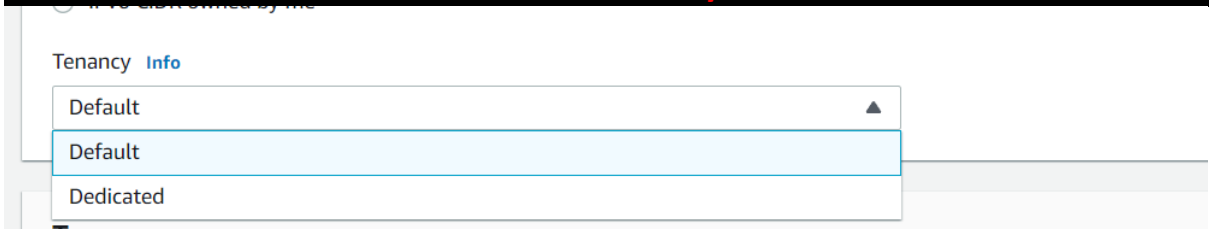


Insert name

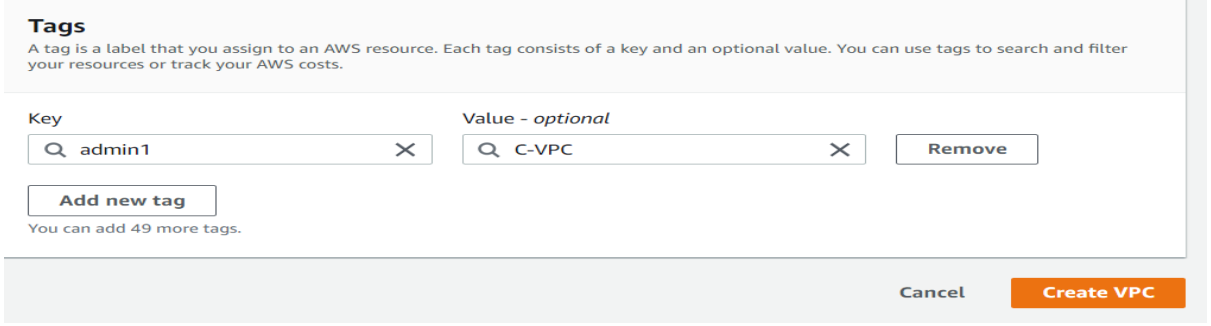


Insert ip

Select Tenancy



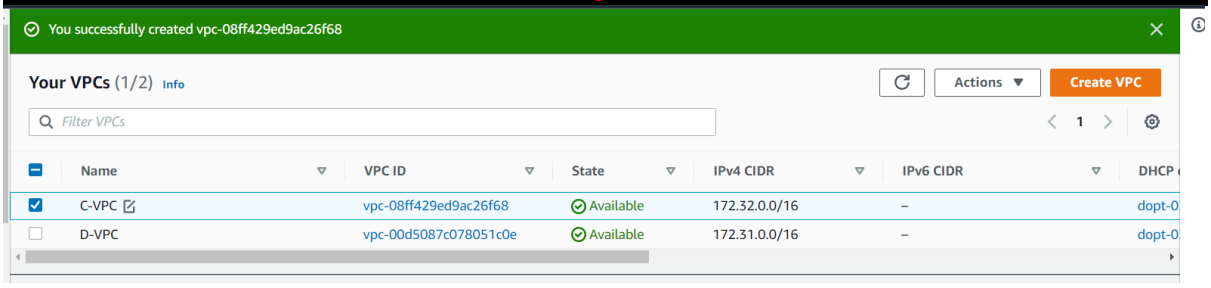
Add tags and create vpc option



CREATED BY:- VIVEK GANDHI

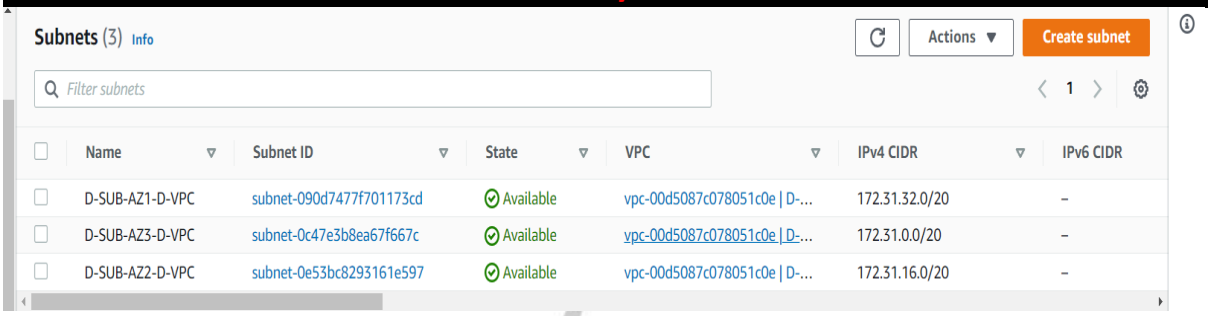
Virtual Private Cloud (Amazon VPC)

Successfully create VPC

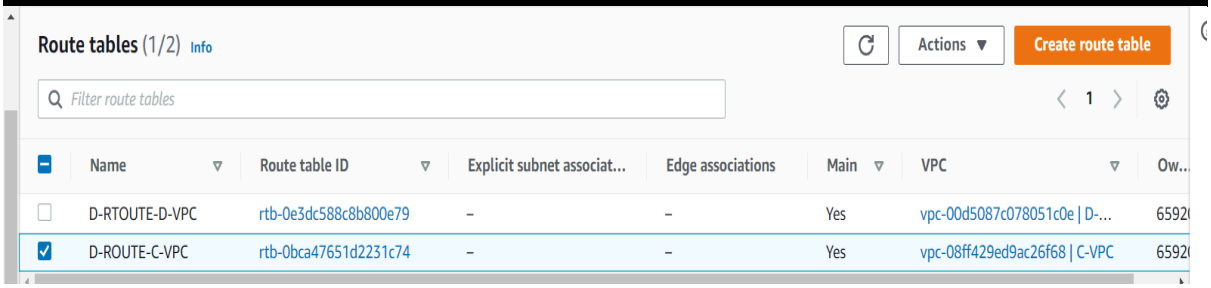


Check which service on by default

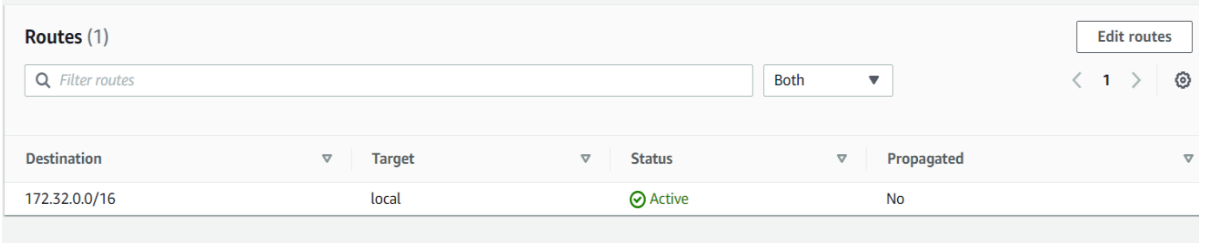
Not Automatic create any subnet in custom VPC



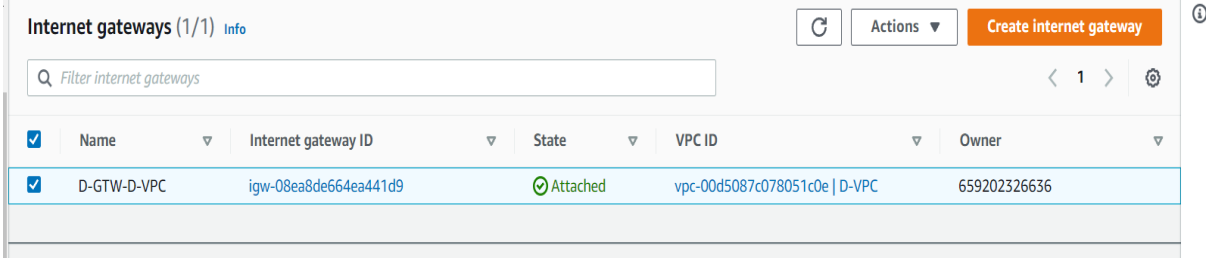
Automatic Create Route table in custom VPC



Only one networks configure automatic in custom VPC



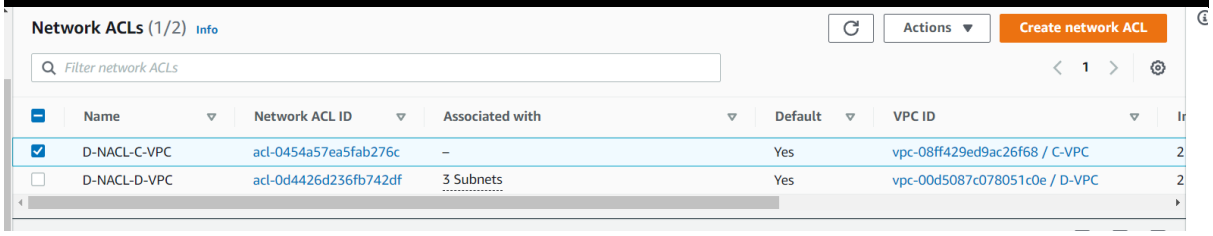
Not Automatic Create IGW in custom VPC



CREATED BY:- VIVEK GANDHI

Virtual Private Cloud (Amazon VPC)

Automatic Create NACLs in custom VPC



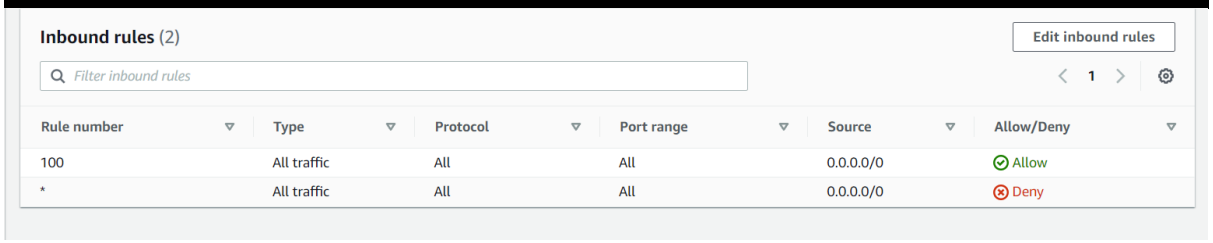
Network ACLs (1/2) Info

Actions | Create network ACL

Filter network ACLs

Name	Network ACL ID	Associated with	Default	VPC ID
D-NACL-C-VPC	acl-0454a57ea5fab276c	–	Yes	vpc-08ff429ed9ac26f68 / C-VPC
D-NACL-D-VPC	acl-0d4426d236fb742df	3 Subnets	Yes	vpc-00d5087c078051c0e / D-VPC

Automatic Create NACLs Inbound rule in custom VPC



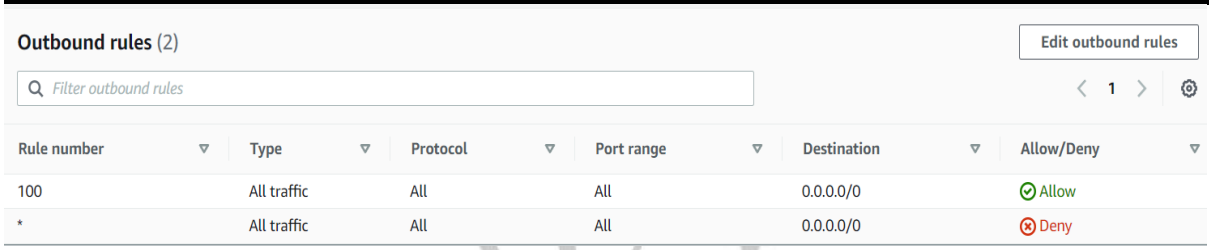
Inbound rules (2)

Edit inbound rules

Filter inbound rules

Rule number	Type	Protocol	Port range	Source	Allow/Deny
100	All traffic	All	All	0.0.0.0/0	Allow
*	All traffic	All	All	0.0.0.0/0	Deny

Automatic Create NACLs Outbound rule in custom VPC



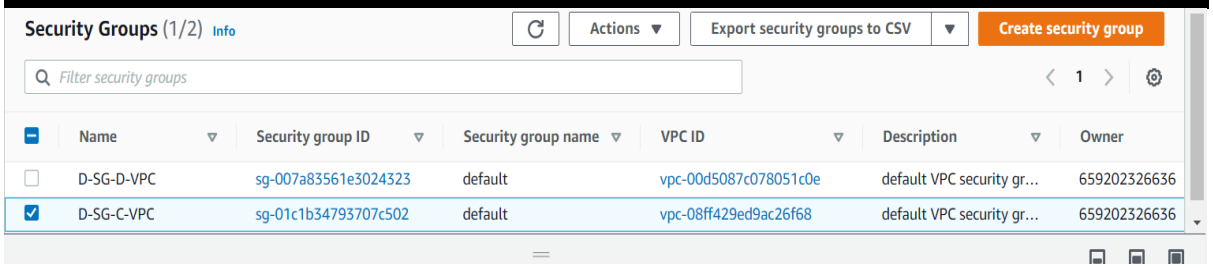
Outbound rules (2)

Edit outbound rules

Filter outbound rules

Rule number	Type	Protocol	Port range	Destination	Allow/Deny
100	All traffic	All	All	0.0.0.0/0	Allow
*	All traffic	All	All	0.0.0.0/0	Deny

Automatic Create SG in custom VPC



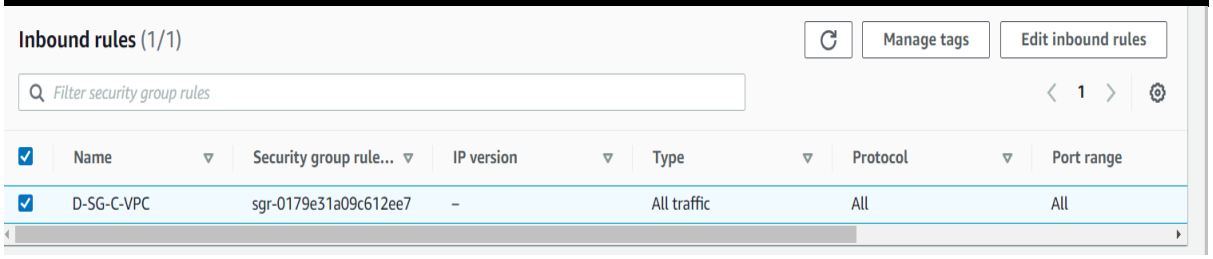
Security Groups (1/2) Info

Actions | Export security groups to CSV | Create security group

Filter security groups

Name	Security group ID	Security group name	VPC ID	Description	Owner
D-SG-D-VPC	sg-007a83561e3024323	default	vpc-00d5087c078051c0e	default VPC security gr...	659202326636
D-SG-C-VPC	sg-01c1b34793707c502	default	vpc-08ff429ed9ac26f68	default VPC security gr...	659202326636

Automatic Create SG Inbound rule in custom VPC



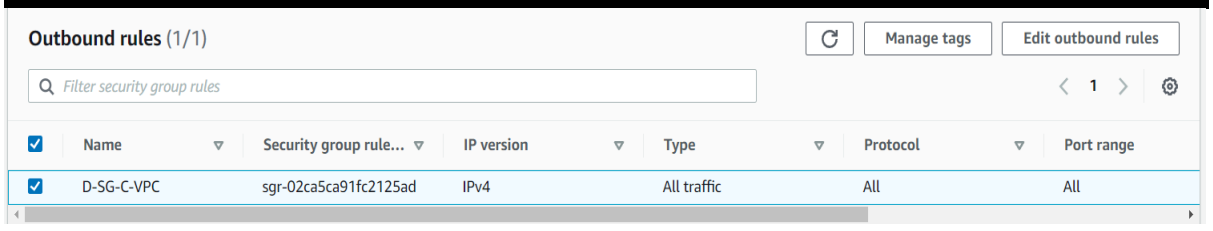
Inbound rules (1/1)

Manage tags | Edit inbound rules

Filter security group rules

Name	Security group rule...	IP version	Type	Protocol	Port range
D-SG-C-VPC	sgr-0179e31a09c612ee7	–	All traffic	All	All

Automatic Create SG Outbound rule in custom VPC



Outbound rules (1/1)

Manage tags | Edit outbound rules

Filter security group rules

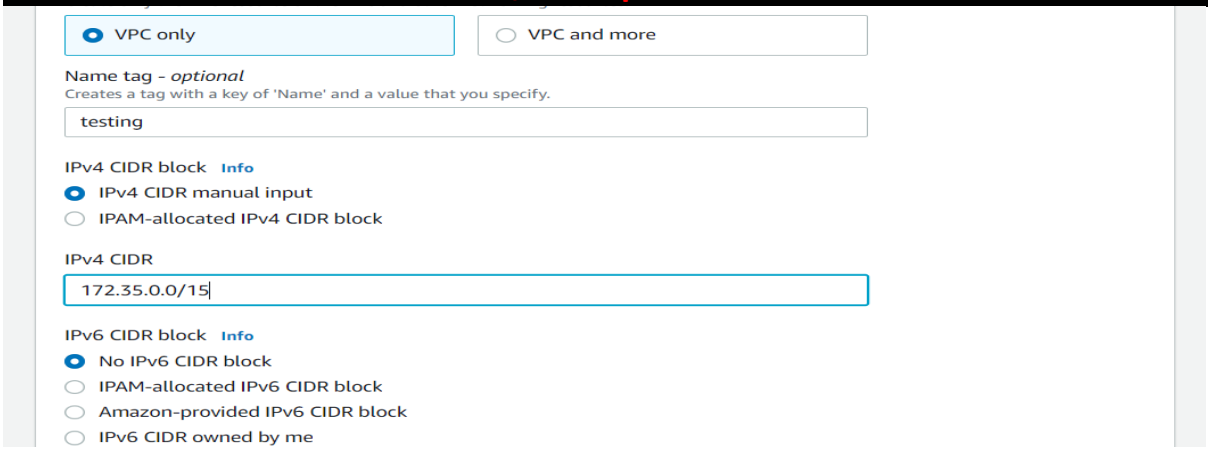
Name	Security group rule...	IP version	Type	Protocol	Port range
D-SG-C-VPC	sgr-02ca5ca91fc2125ad	IPv4	All traffic	All	All

Virtual Private Cloud (Amazon VPC)

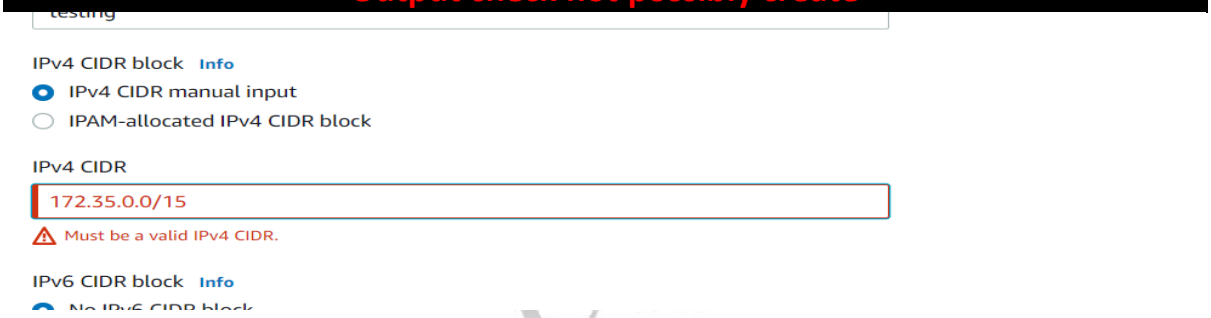
Check CIDR rules its True or not

Only create CIDR /16 to CIDR /28 IP assign in VPC check its true or not

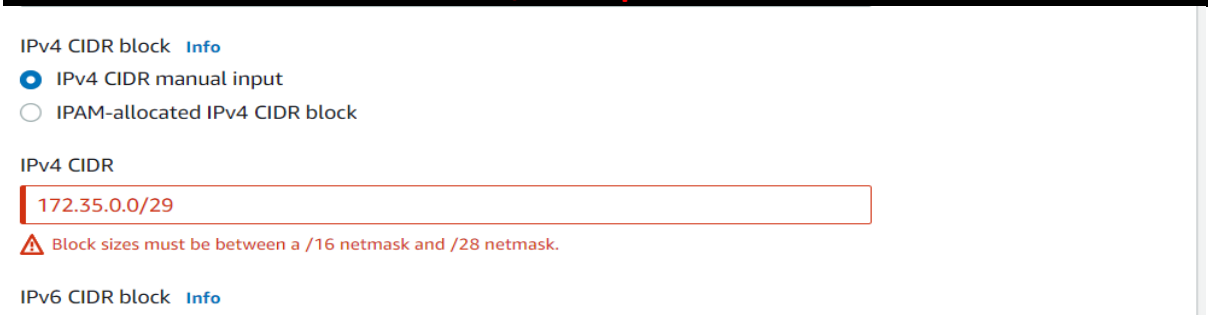
If create 172.35.0.0/15 its possible created or not?



Output check not possibly create



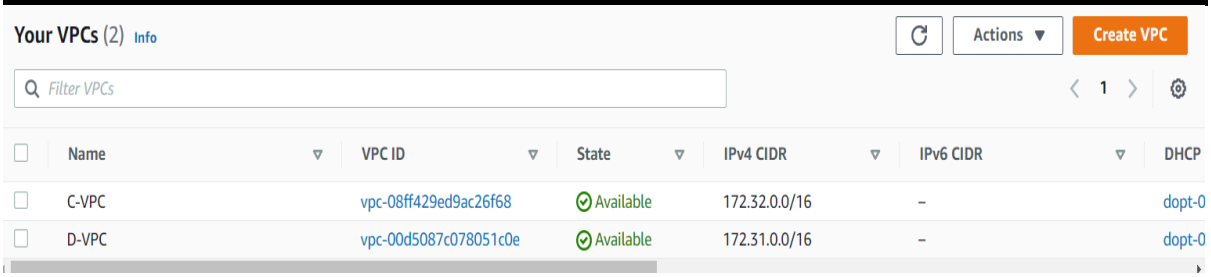
If create 172.35.0.0/29 its possible created or not?



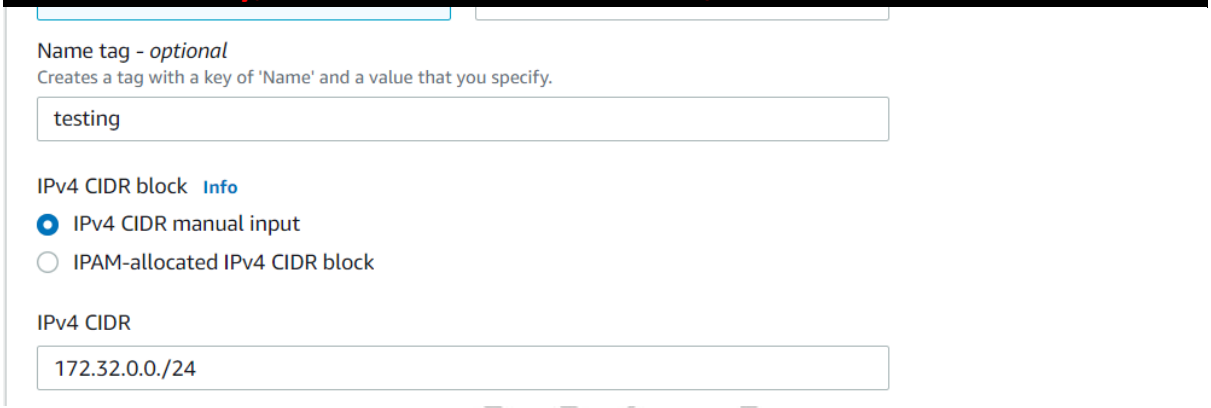
Virtual Private Cloud (Amazon VPC)

Try to give overlap CIDR inside VPC and see what you will get

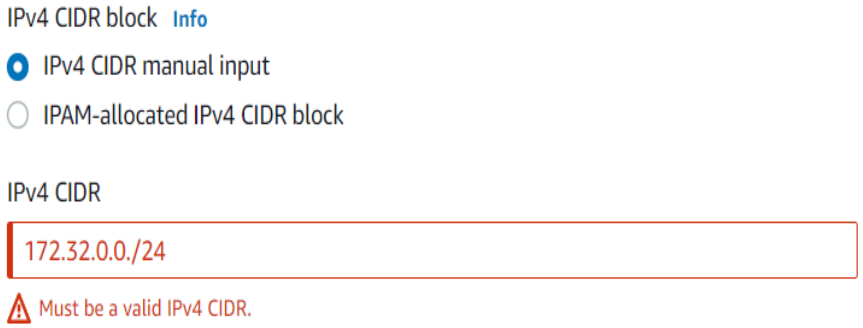
First, I check already created VPC



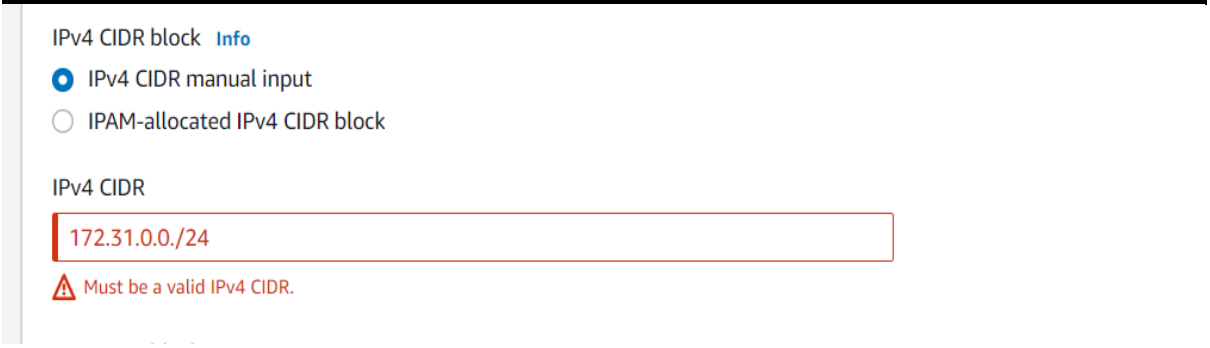
Okay, then after create 172.32.0.0/24 than check result



Check result not create overlap CIDR



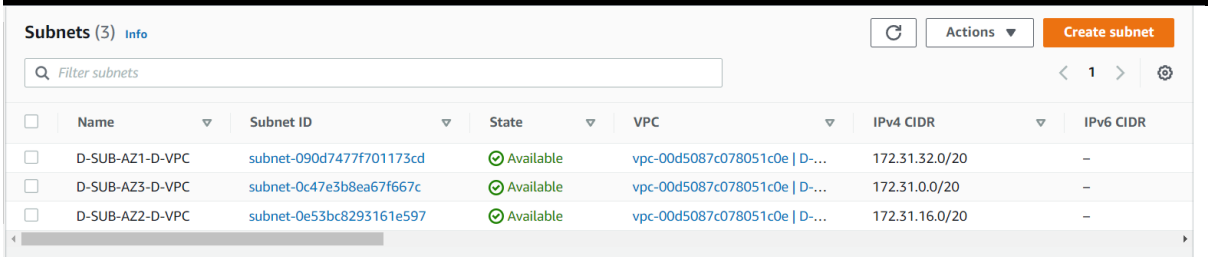
Also check default CIDR



Virtual Private Cloud (Amazon VPC)

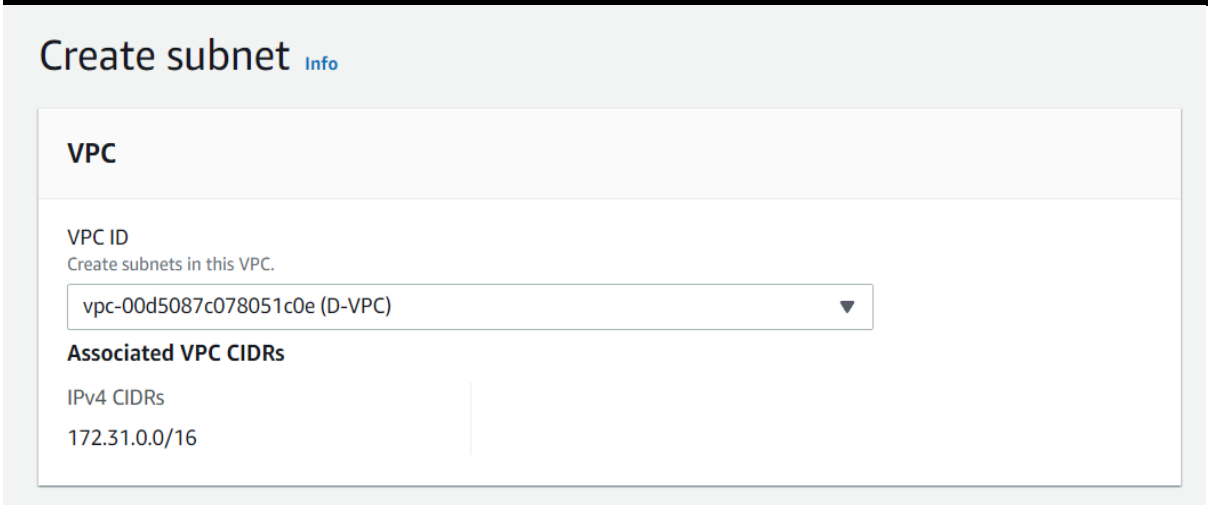
Can I create same AZ to multiple subnet?

Check all subnet and check AZ

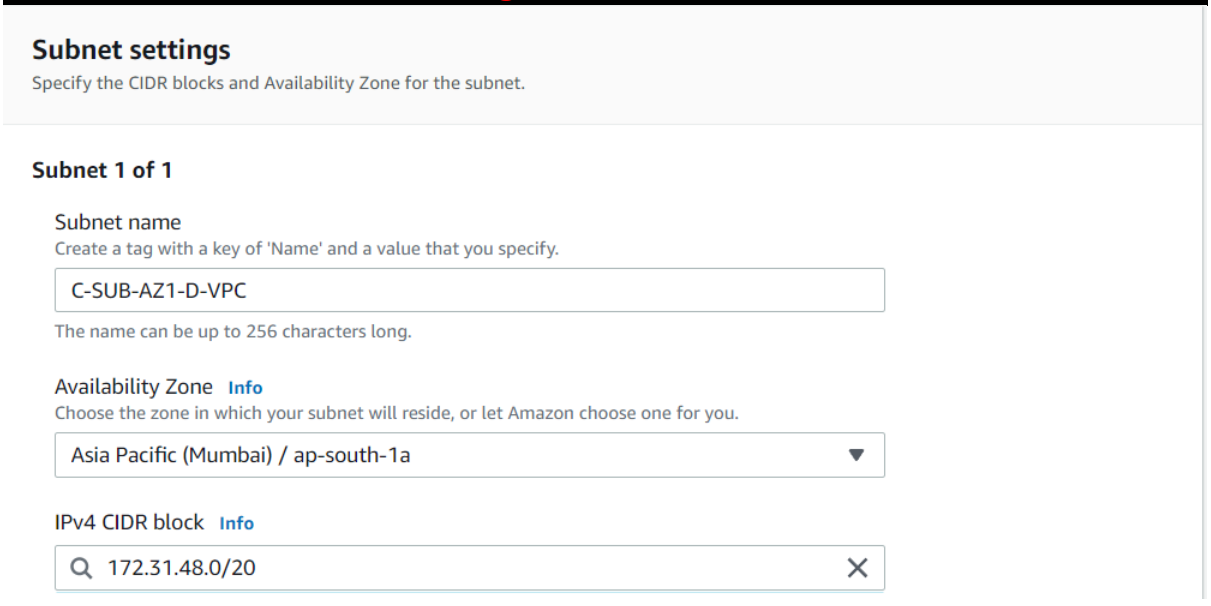


Create AZ1 its already created subnet but try to same AZ to assign multi subnet to Default VPC check its possible or not?

Select default VPC

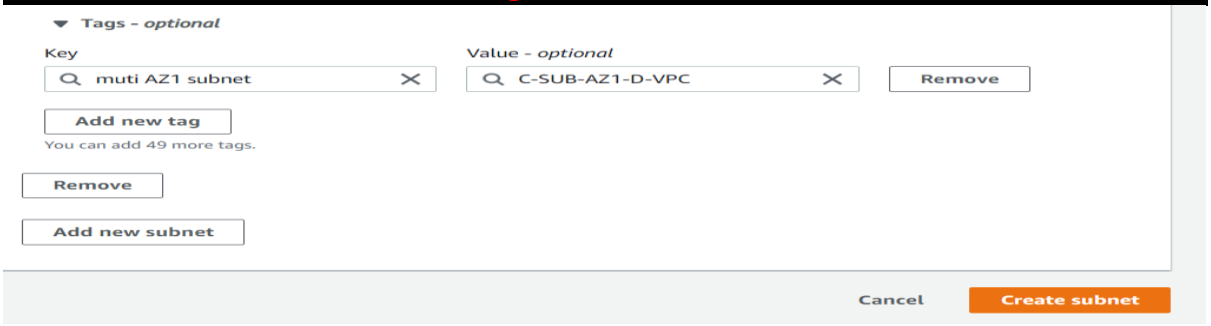


Configure AZ1 to subnet

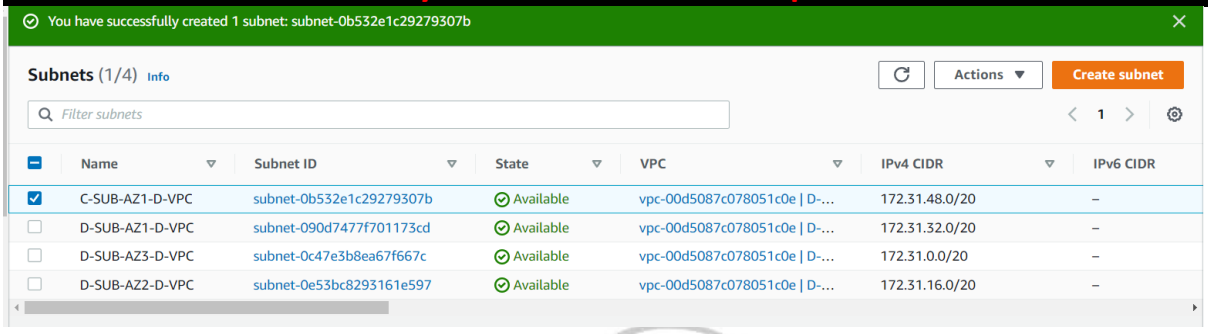


Virtual Private Cloud (Amazon VPC)

Add Tag and create subnet

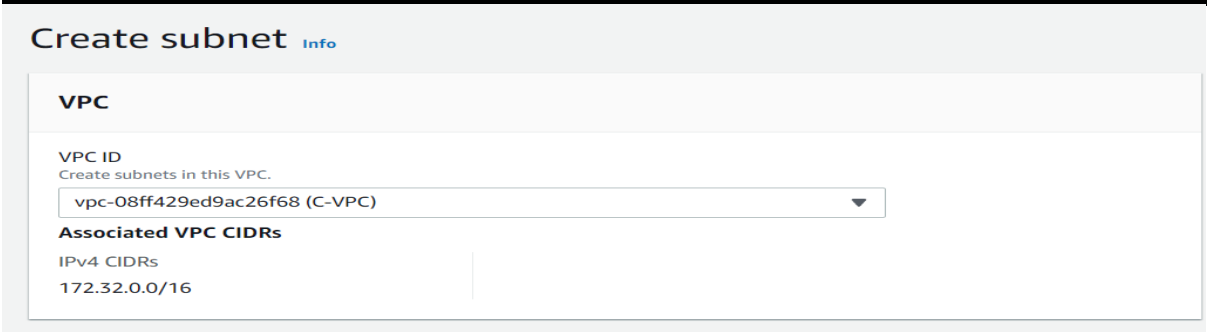


OUTPUT successfully create one AZ to multiple subnets created

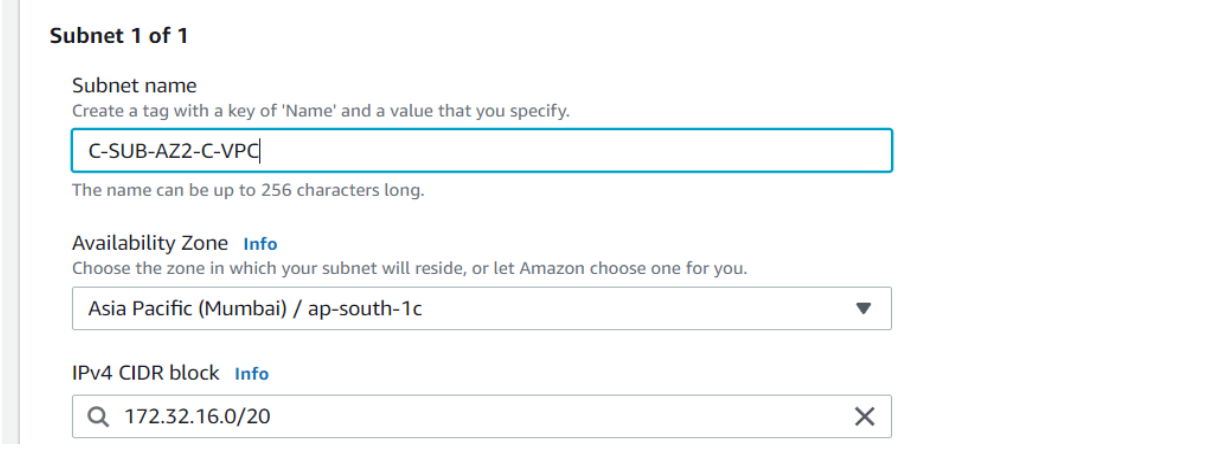


Create AZ1 its already created subnet but try to same AZ to assign multi subnet to CUSTOM VPC check its possible or not?

Select Custom VPC

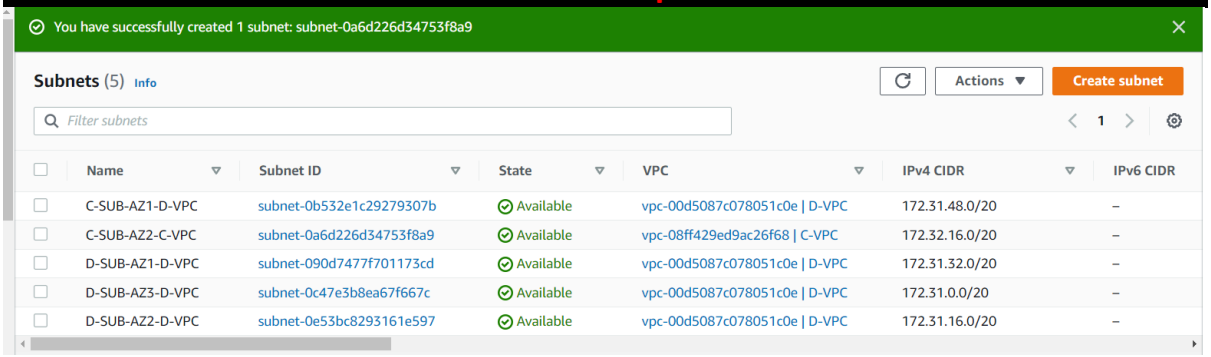


Configure AZ2 to subnet



Virtual Private Cloud (Amazon VPC)

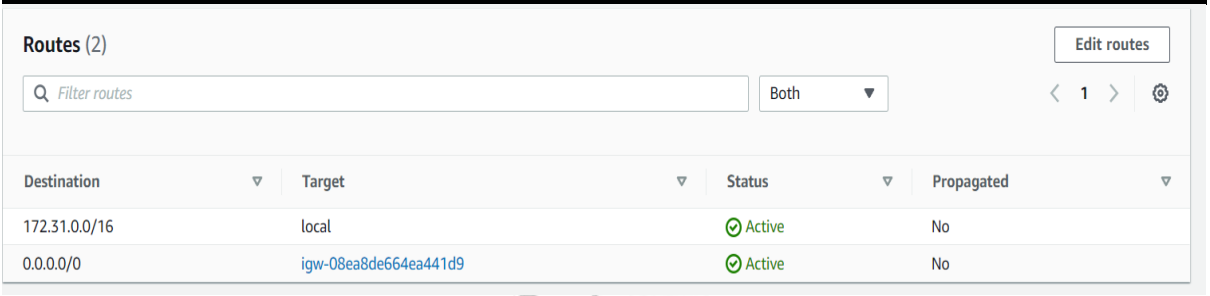
Check output



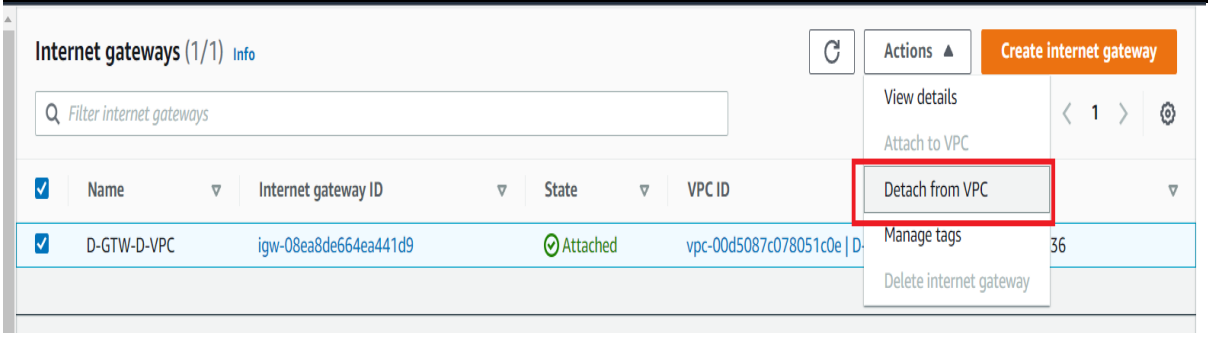
If remove IGW than after which service change automatic

First check which services used IGW used

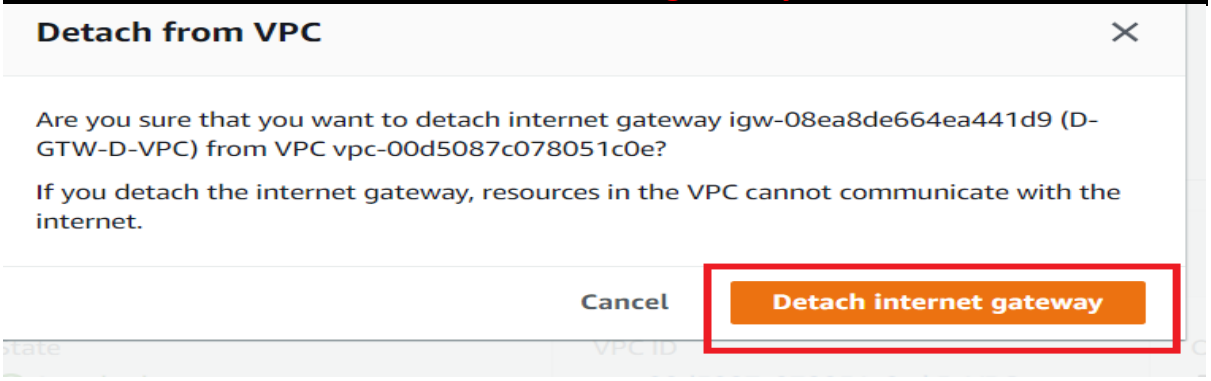
Check route table default VPC service



Detached IGW

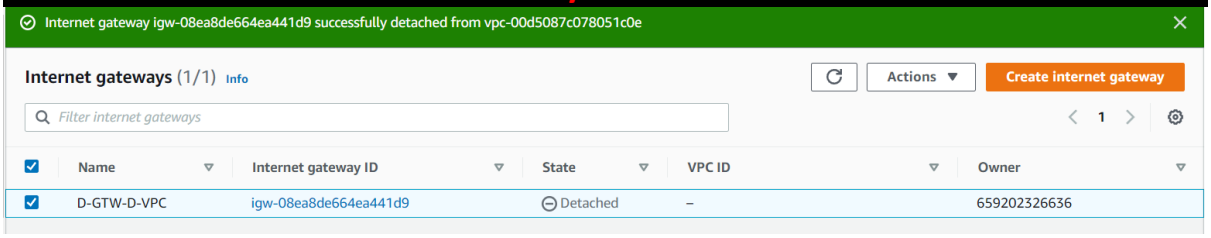


Detach internet gateway

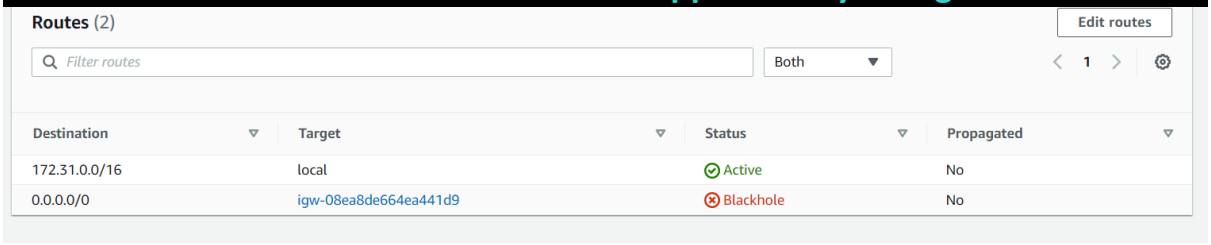


Virtual Private Cloud (Amazon VPC)

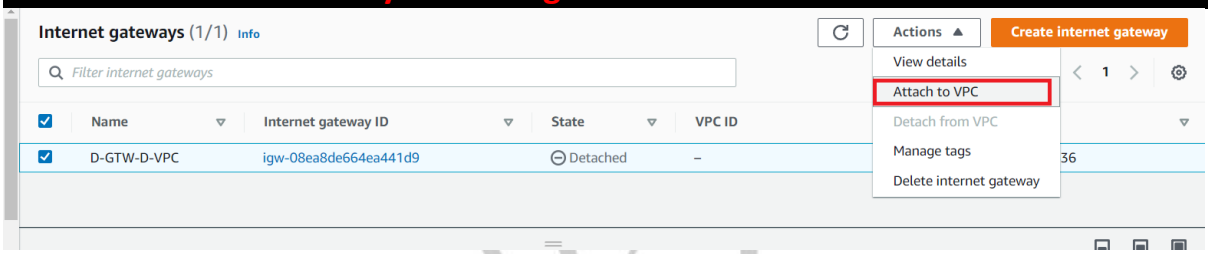
Successfully detached IGW



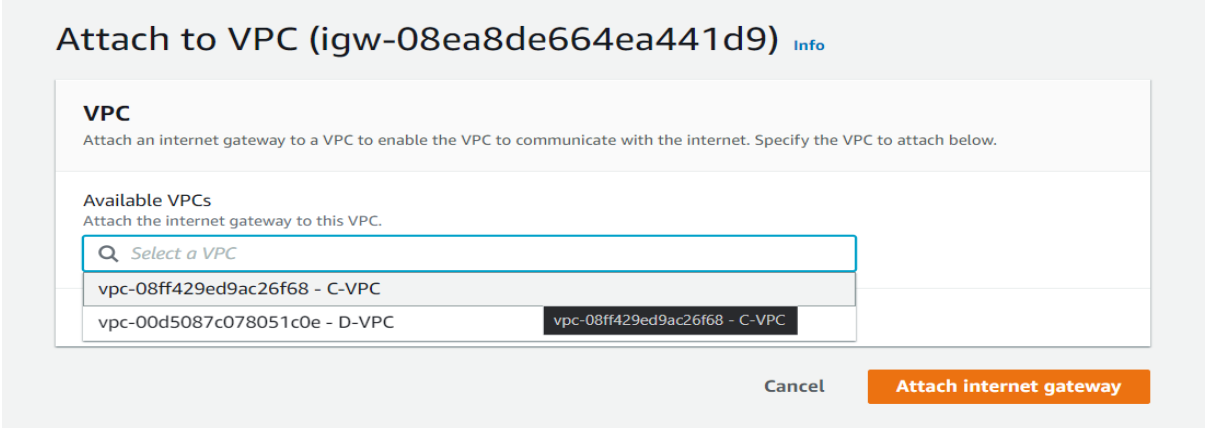
Check Route table let's see what happened any changes or not



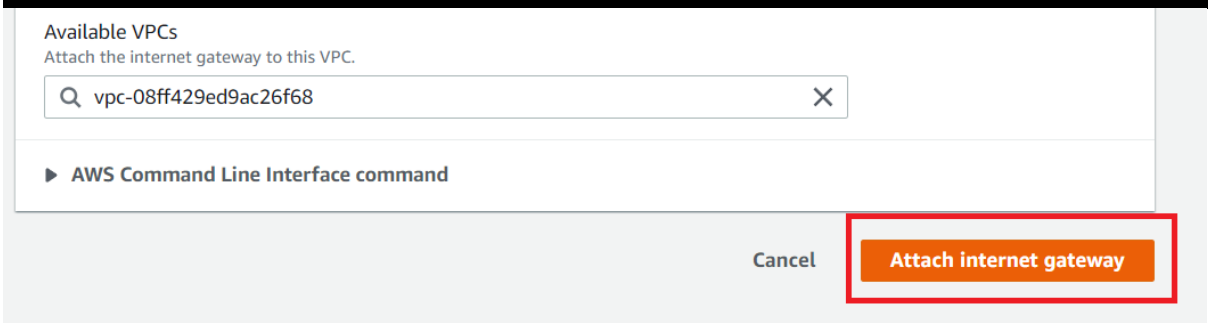
Okay then assign IGW to custom VPC



Select custom VPC

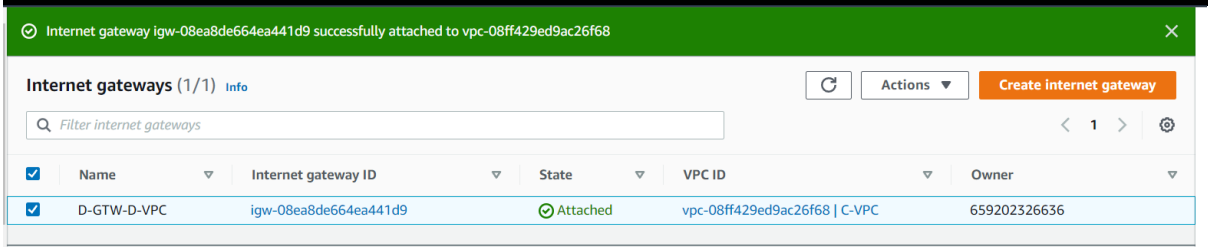


Click to attached IGW

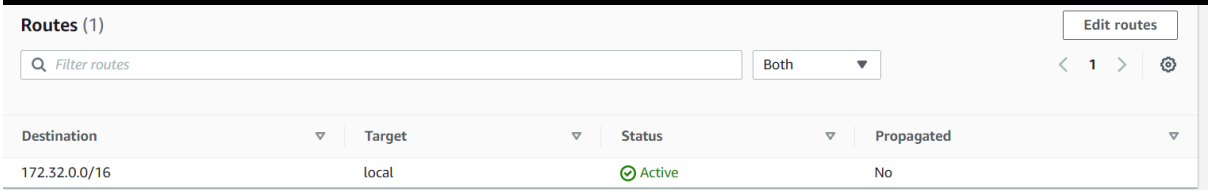


Virtual Private Cloud (Amazon VPC)

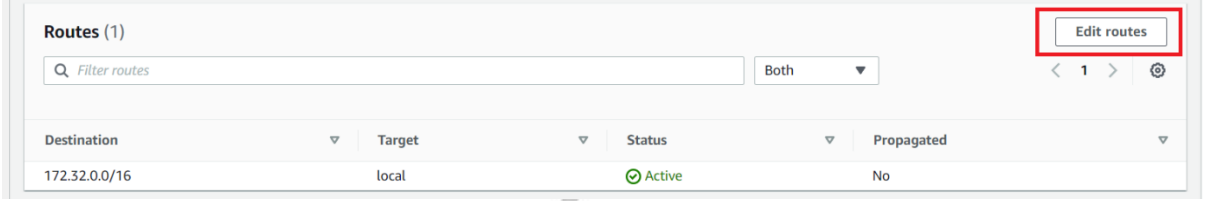
SUCCESSFULLY ATTACHED AND CHANGE VPC



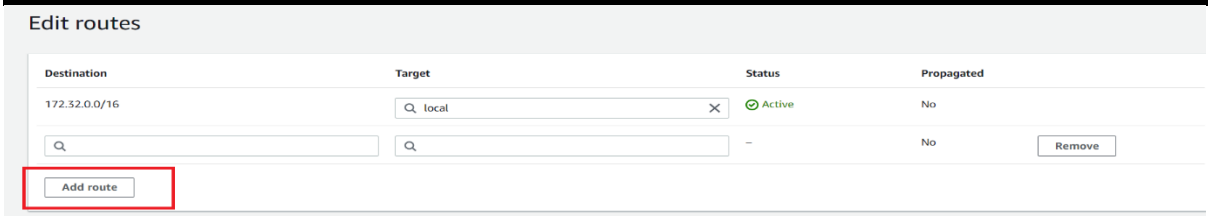
Check Route table custom VPC not auto add IGW



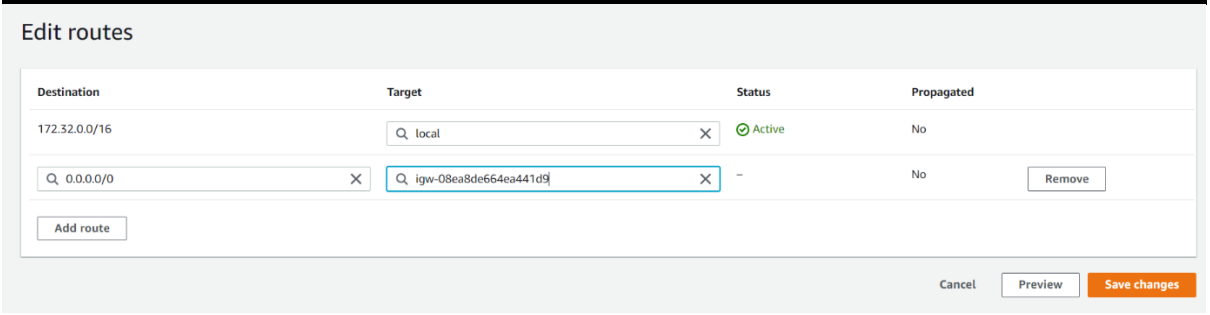
Click Edit Routes



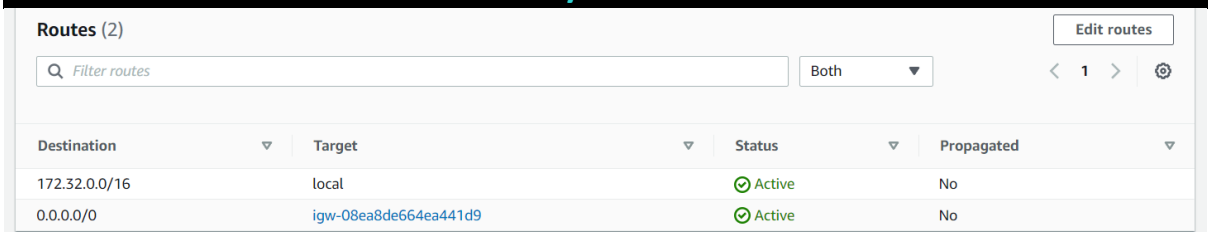
Click add route



Insert IGW and save chnages



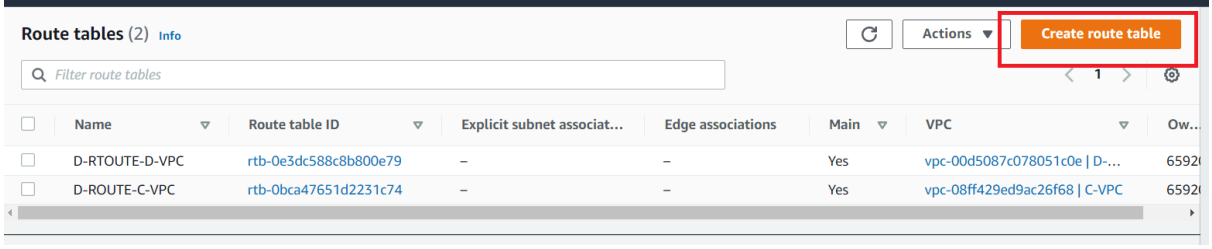
Let's see successfully add custom VPC in IGW



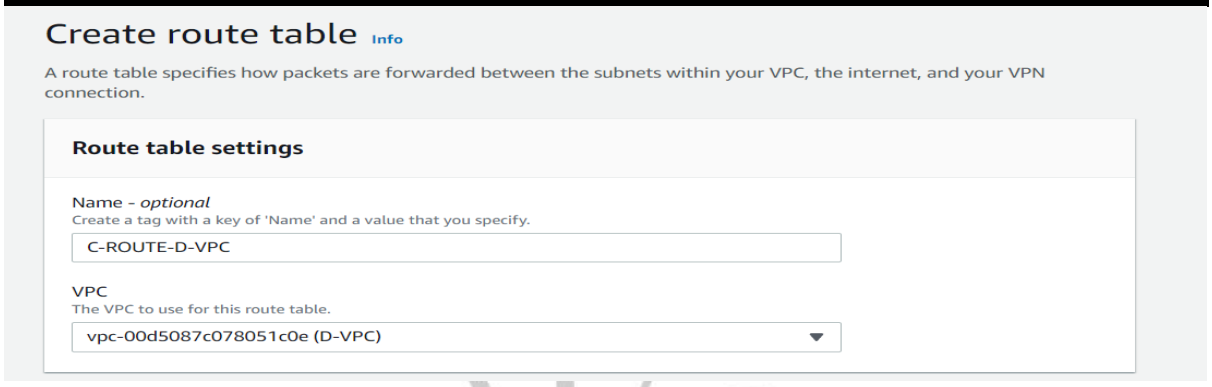
Virtual Private Cloud (Amazon VPC)

Create route table

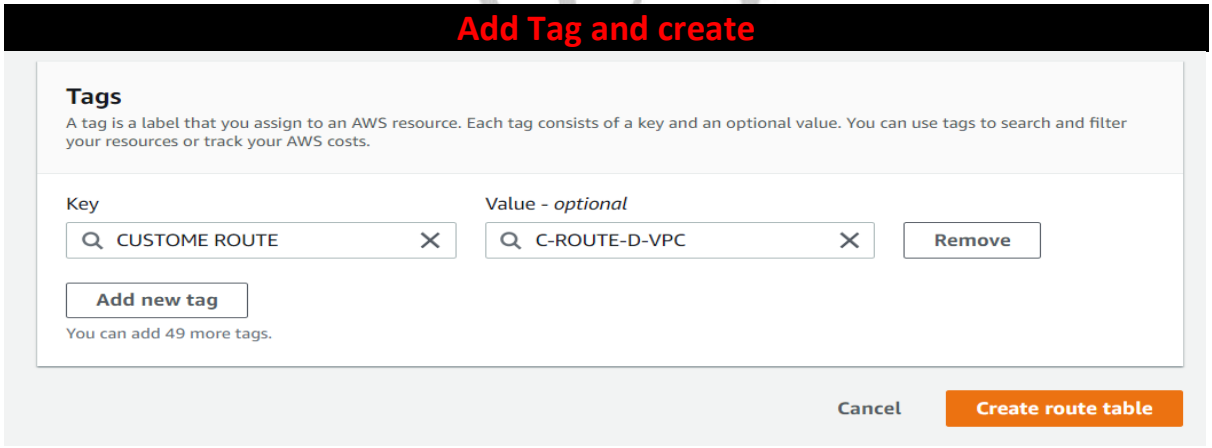
Click Create route table



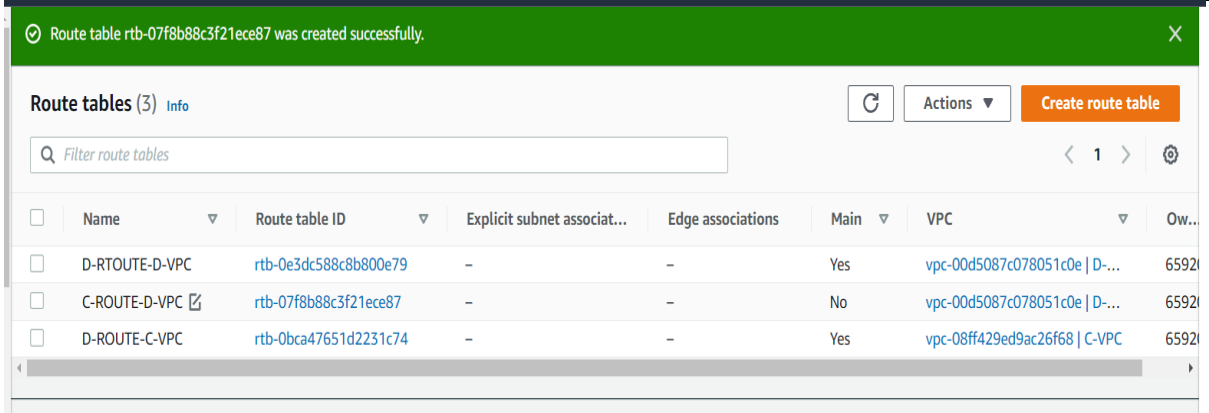
Create custom route default VPC



Add Tag and create



Create successfully



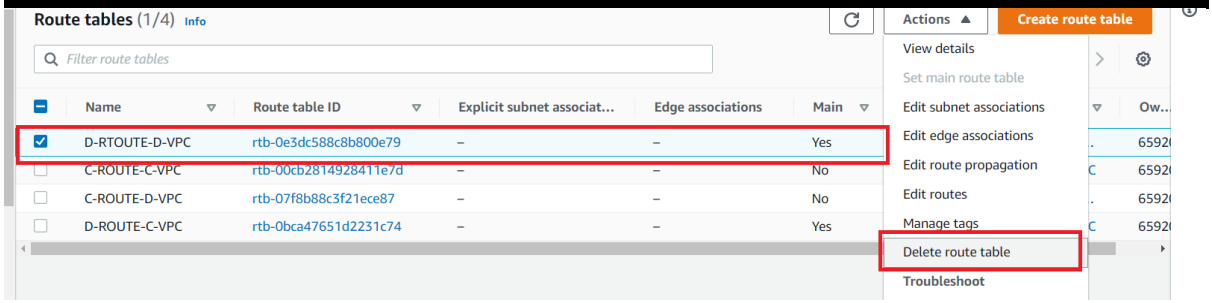
Virtual Private Cloud (Amazon VPC)

Can delete default main?

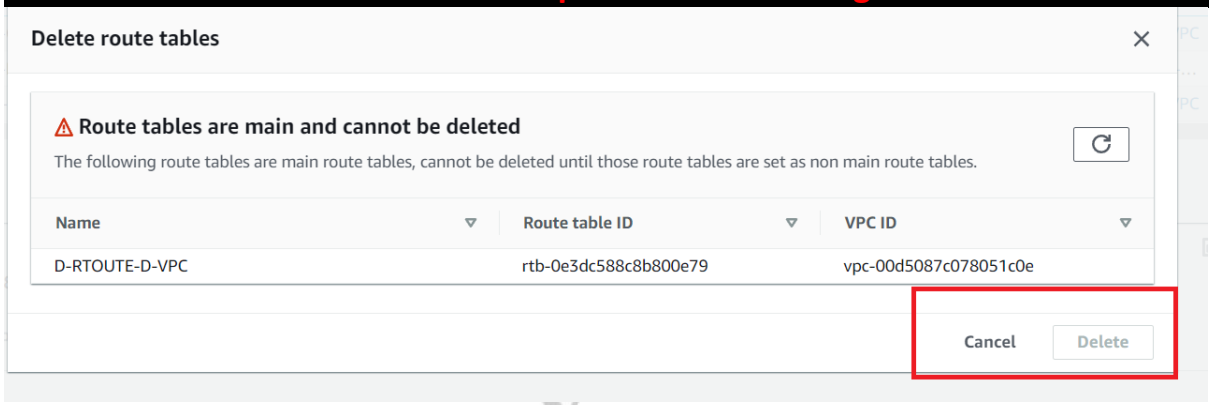
Yes, but first you can change main configuration than after delete default route table.

Let's check without change main in default route table delete or not?

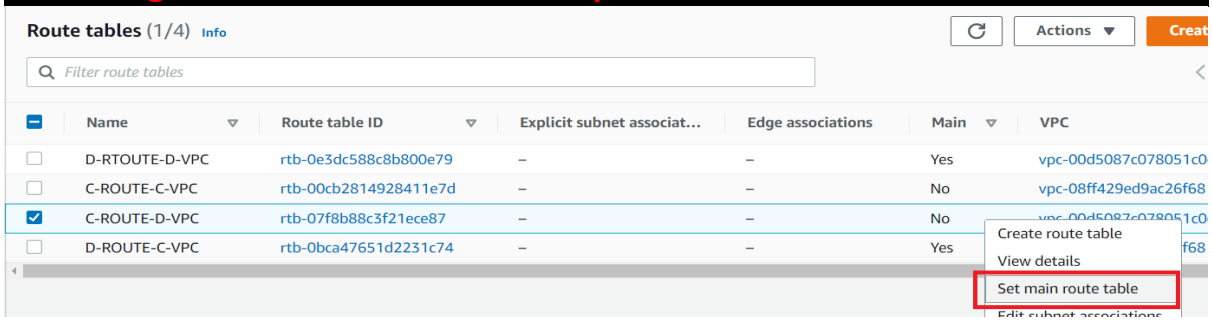
Click to delete route table



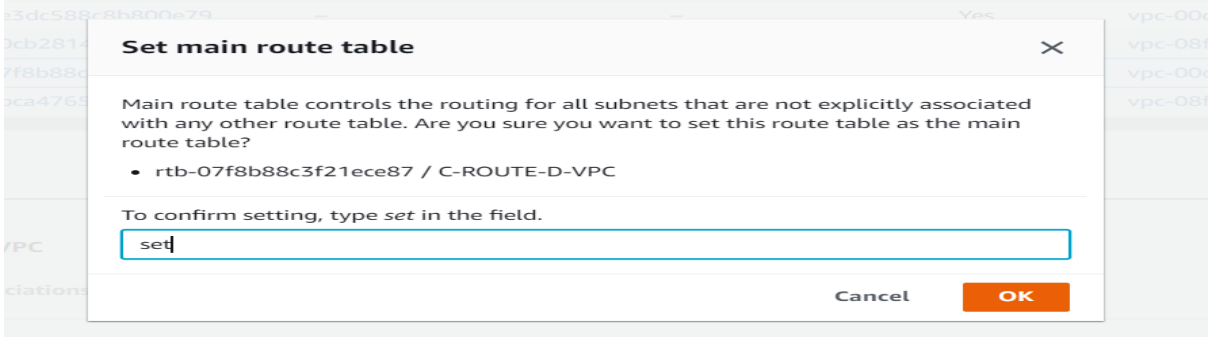
Can't access delete option without change main



Right click to another default vpc route table and click set main

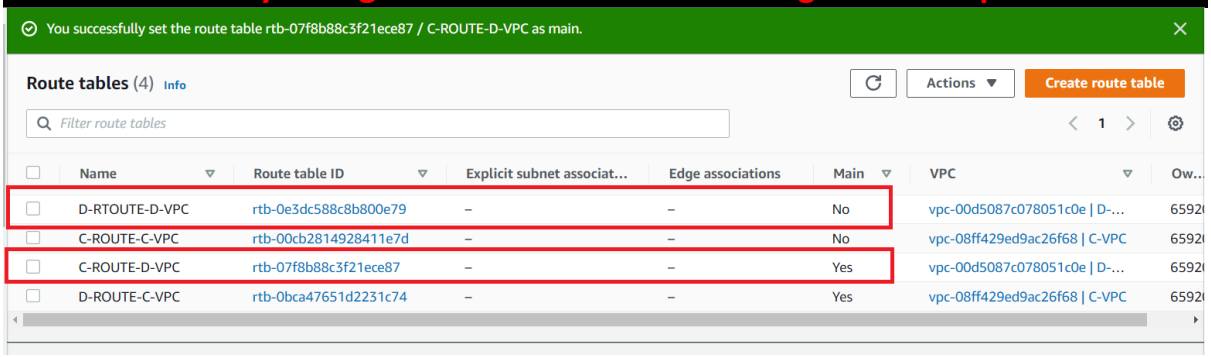


Insert set and click ok

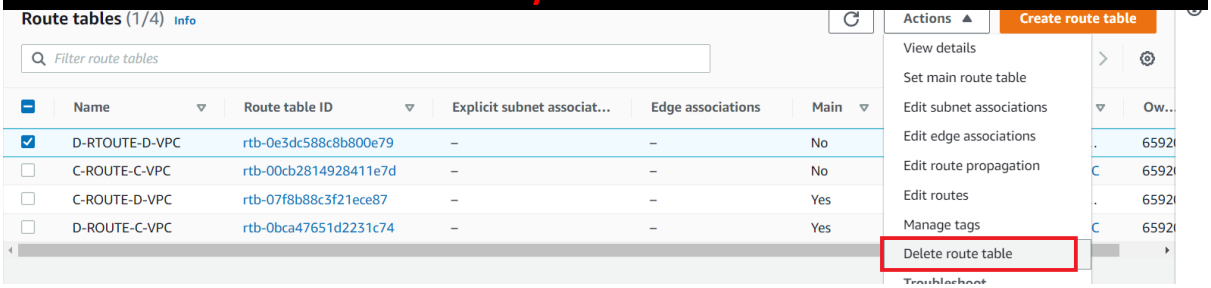


Virtual Private Cloud (Amazon VPC)

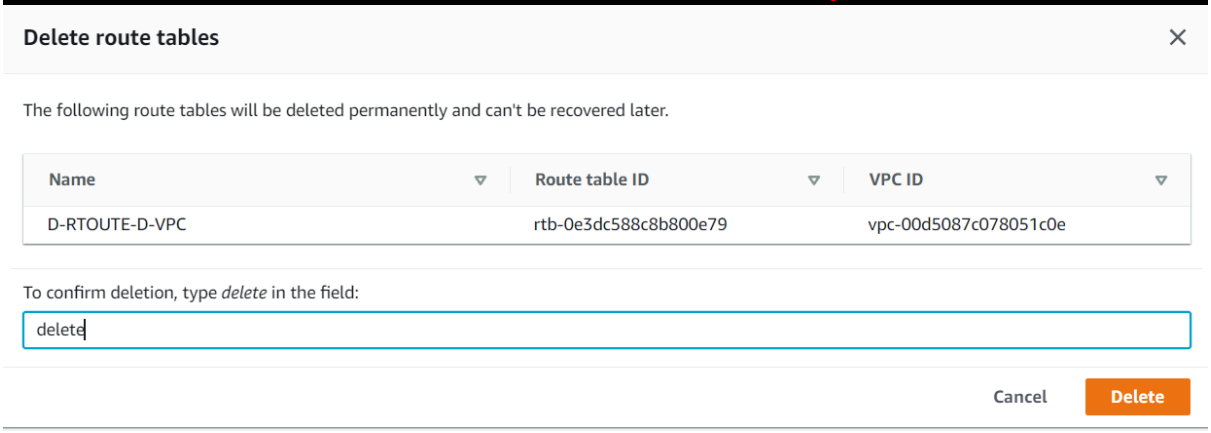
Successfully change main and automatic change default vpc status



Then after try to delete route table



Let's see enable to access delete option

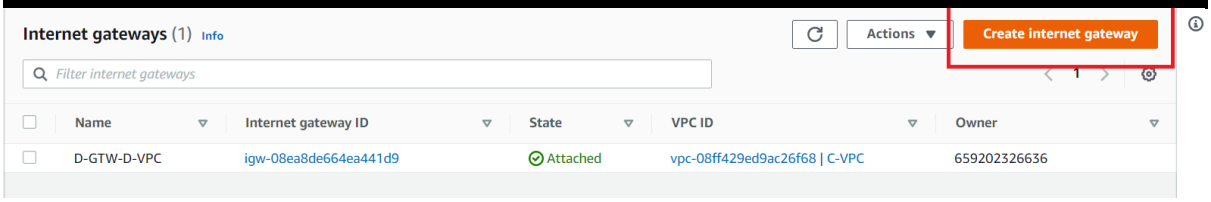


CREATED BY:- VIVEK GANDHI

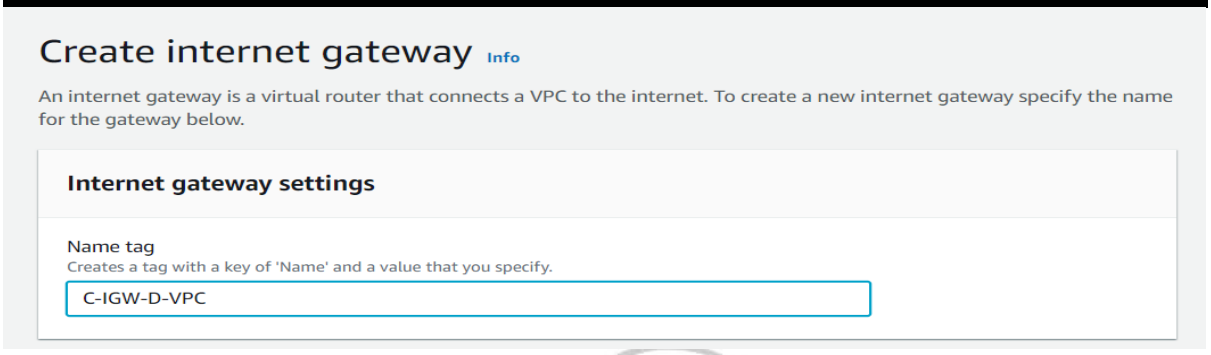
Virtual Private Cloud (Amazon VPC)

Create new IGW and attached new VPC

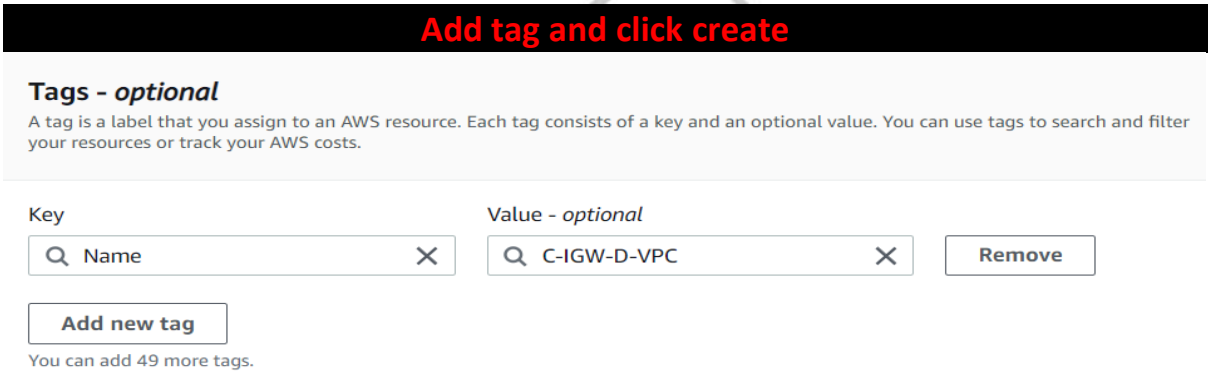
Select Create IGW



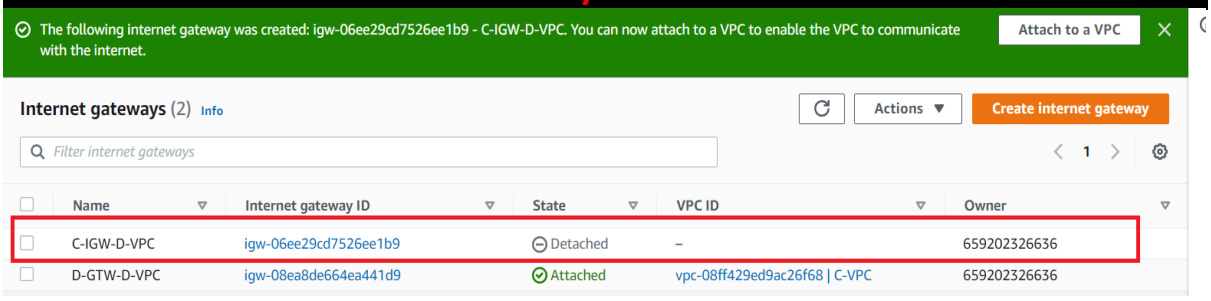
Insert name



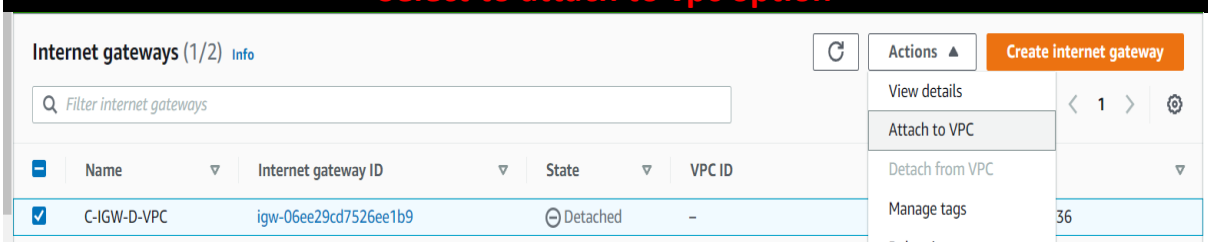
Add tag and click create



Create IGW successfully but status was detached

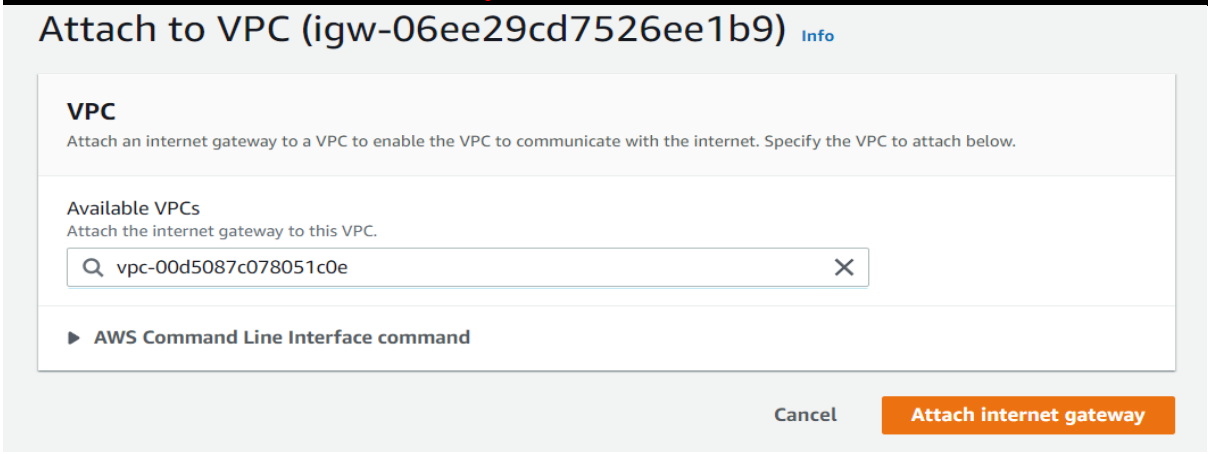


Select to attach to vpc option

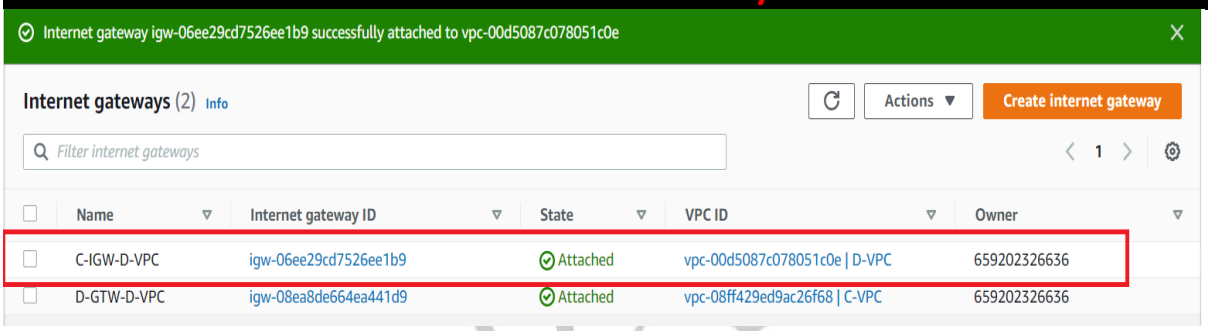


Virtual Private Cloud (Amazon VPC)

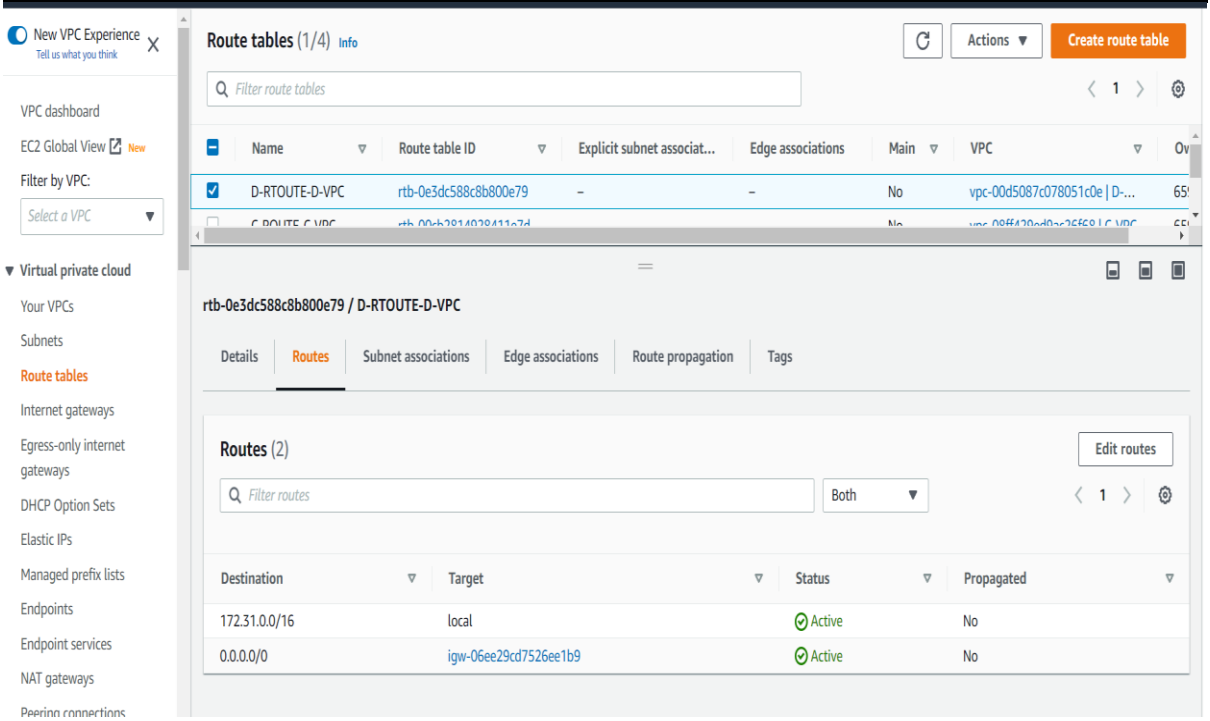
Select vpc and attach IGW click



Attached successfully



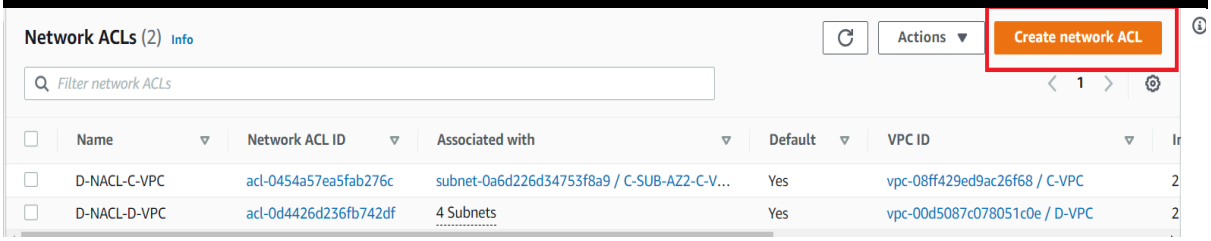
Then check Default vpc route



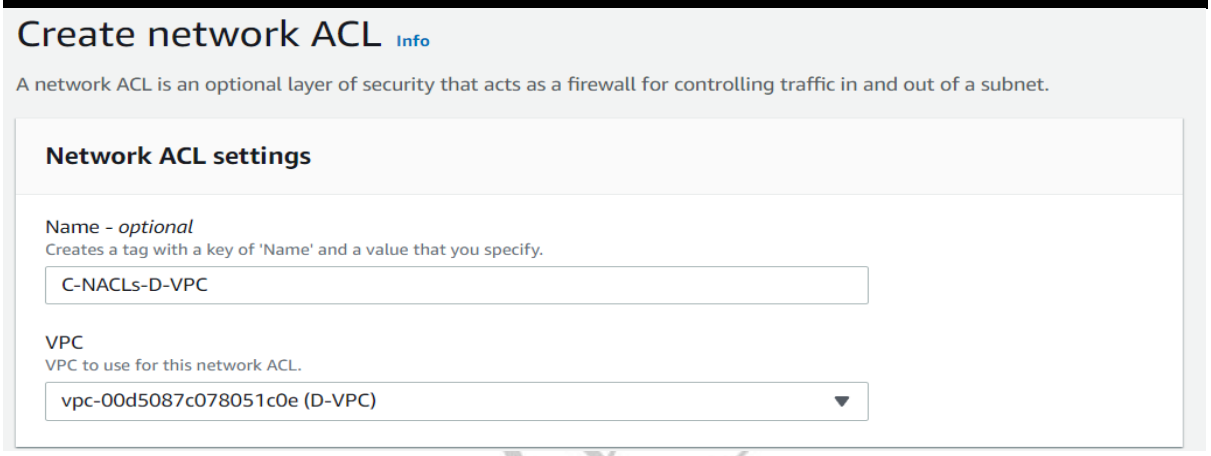
Virtual Private Cloud (Amazon VPC)

If I create a new NACLs, then what permission will be given to the new NACLs by default?

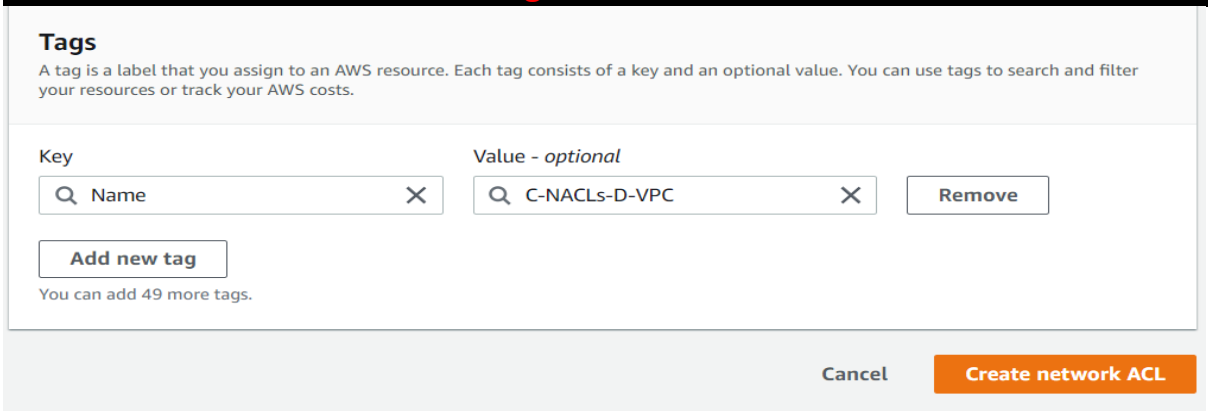
Create new NACLs in Default VPC



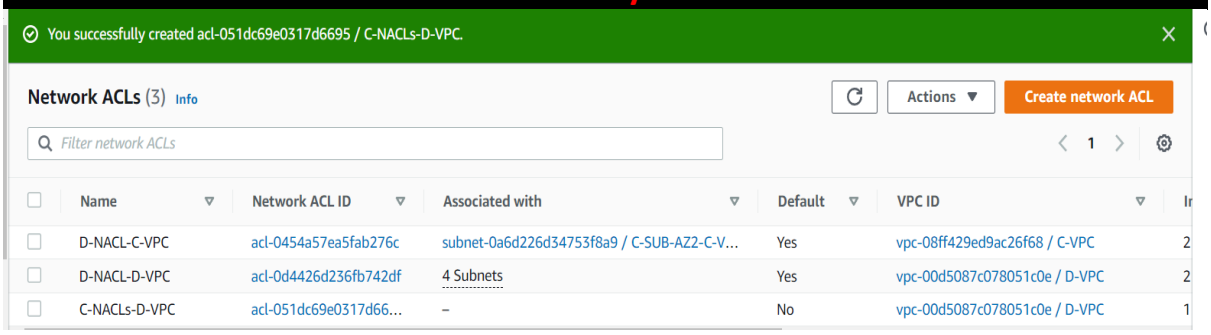
Insert Name and select default VPC



Create Tag and click to create



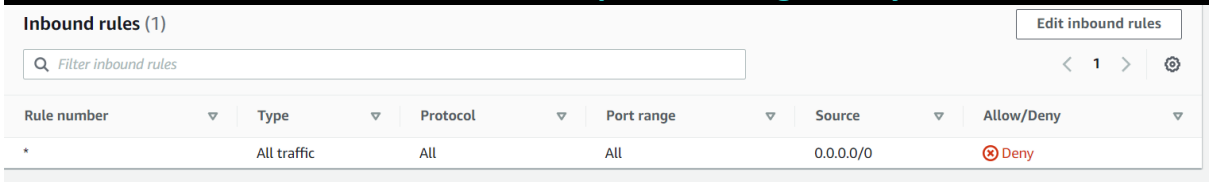
Successfully create



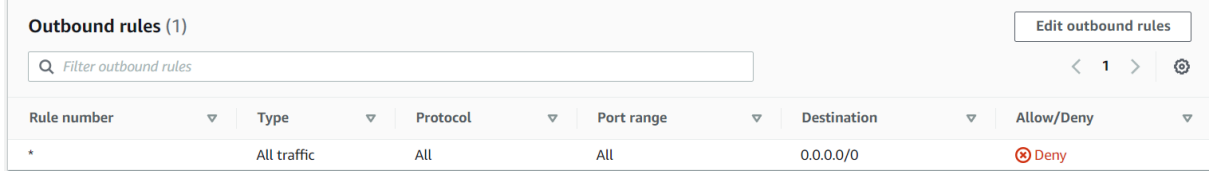
CREATED BY:- VIVEK GANDHI

Virtual Private Cloud (Amazon VPC)

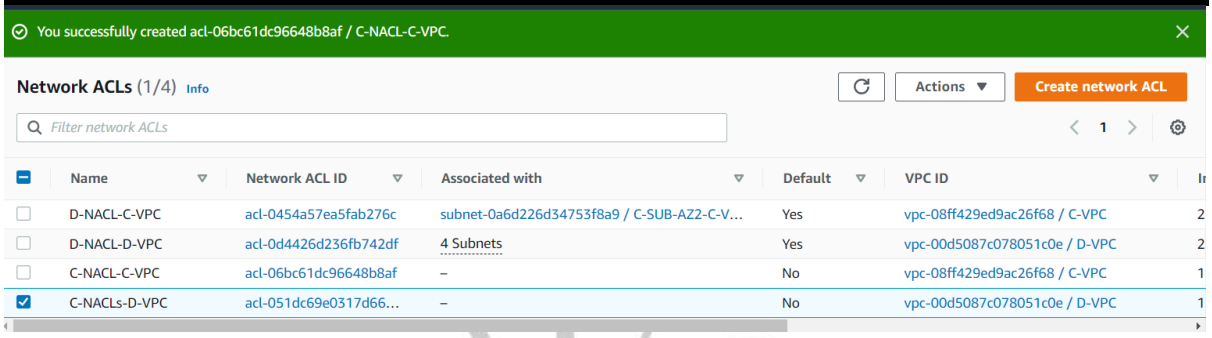
Check inbound rules what permission given by default



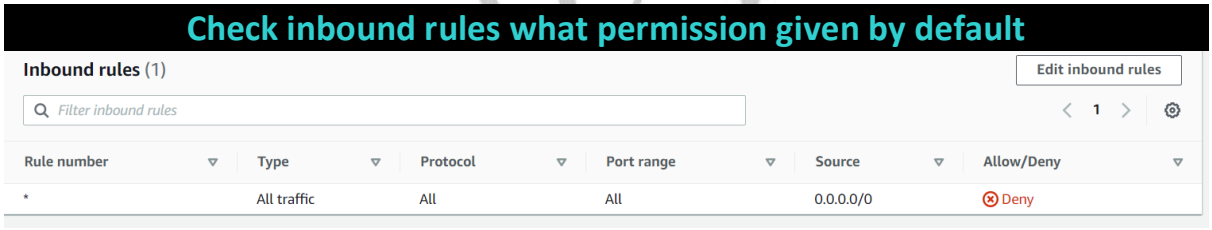
Check outbound rules what permission given by default



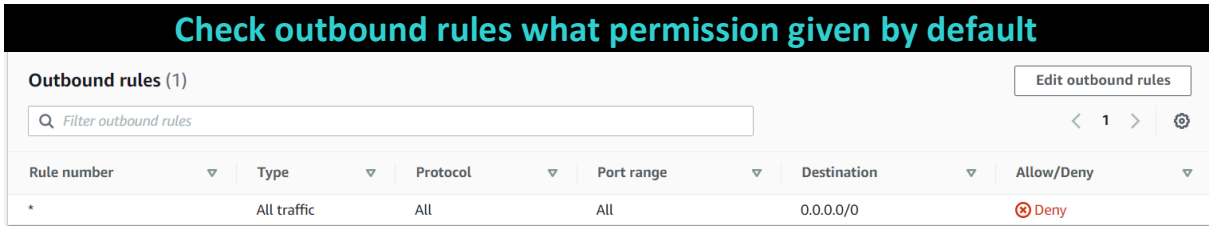
Create new NACLs in Custom VPC



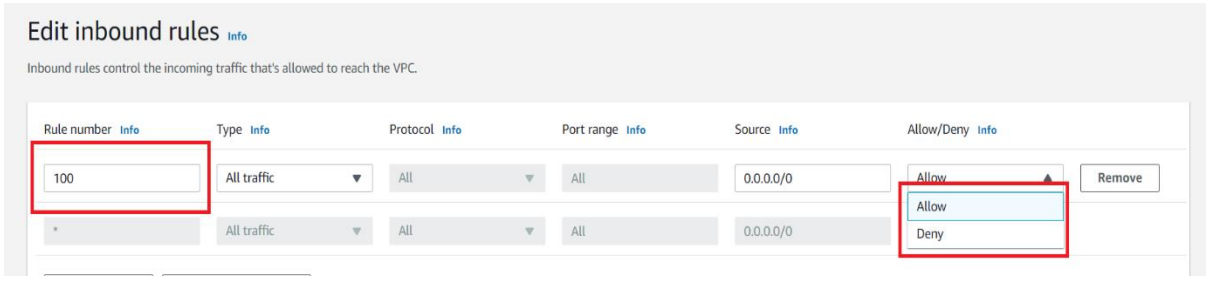
Check inbound rules what permission given by default



Check outbound rules what permission given by default



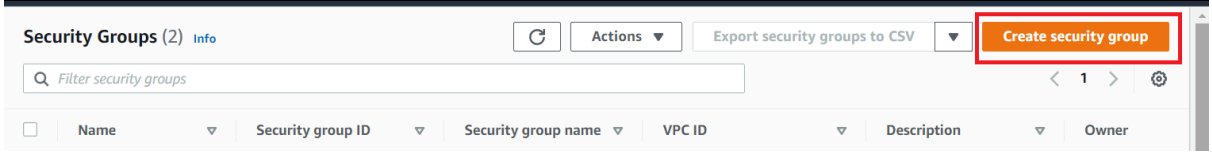
IF CREATE CUSTOM NACLs ALL PERMISIION DENY BY DEFAULT AND IF CREATE NEW RULES ALLOW AND DENY BOTH PERMISSION GIVEN RULES BUT CREATE NUMBERING WISE BECAUSE RULES ACT ONLY ASSIGN NUMBERIC WISE.



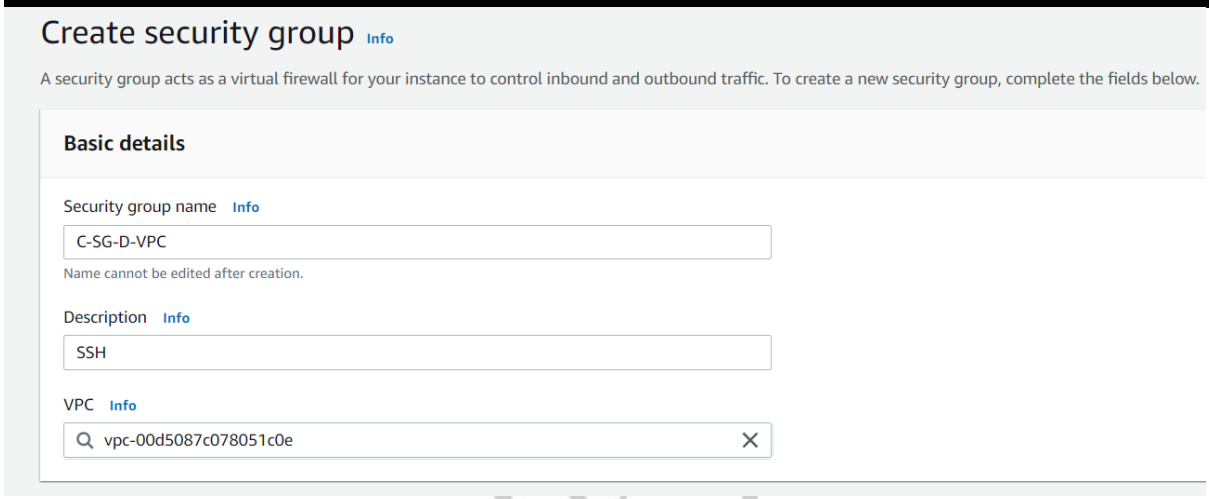
Virtual Private Cloud (Amazon VPC)

If I create a new Security Group, then what permission will be given to the new Security Group by default?

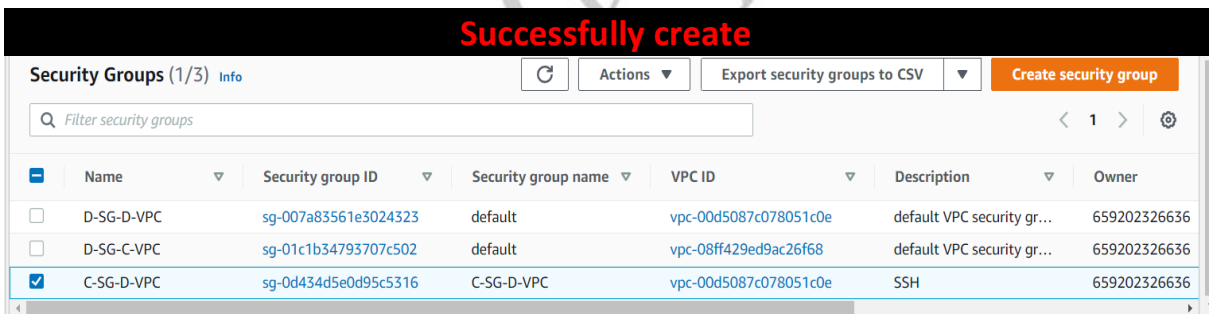
Create new SG in Default VPC



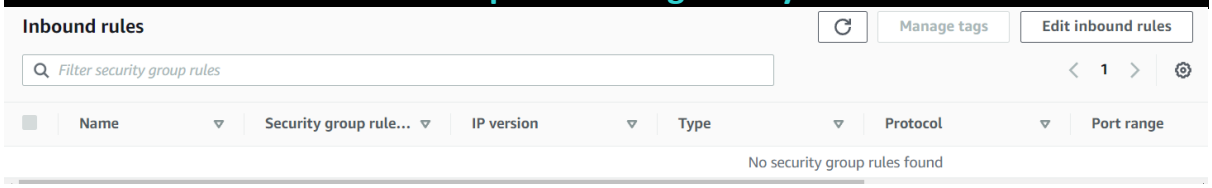
Insert Name and select default VPC



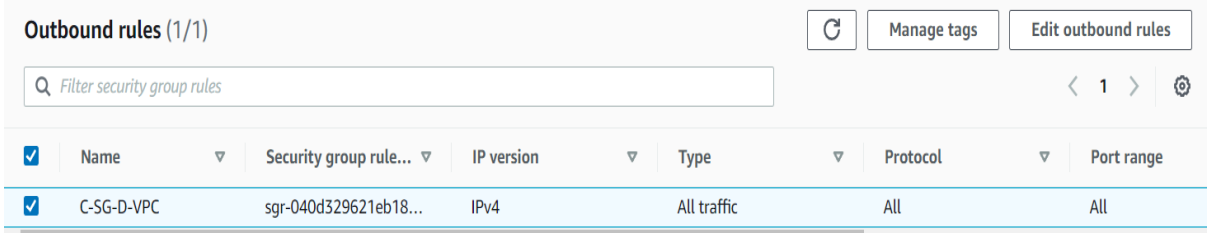
Successfully create



Check inbound rules what permission given by default → Not create

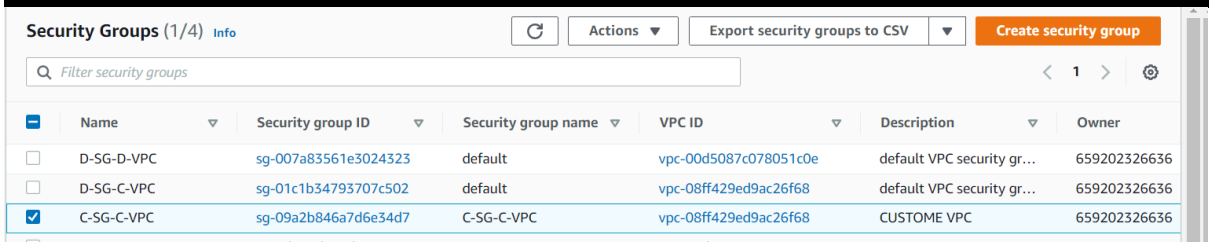


Check outbound rules what permission given by default

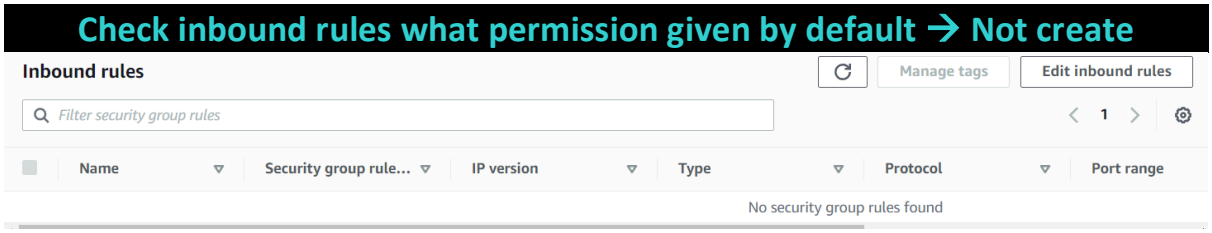


Virtual Private Cloud (Amazon VPC)

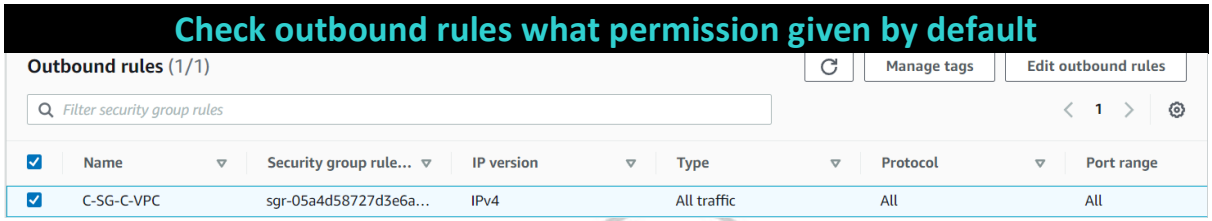
Create new SG in Custom VPC



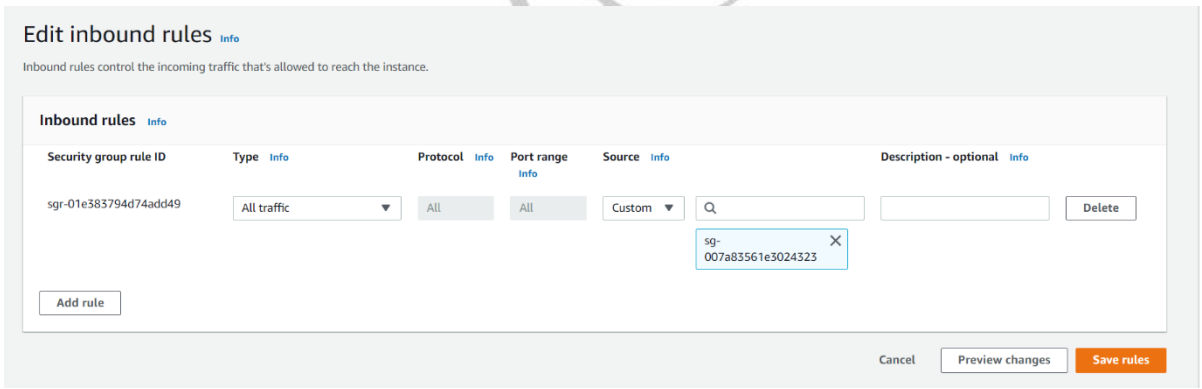
Check inbound rules what permission given by default → Not create



Check outbound rules what permission given by default



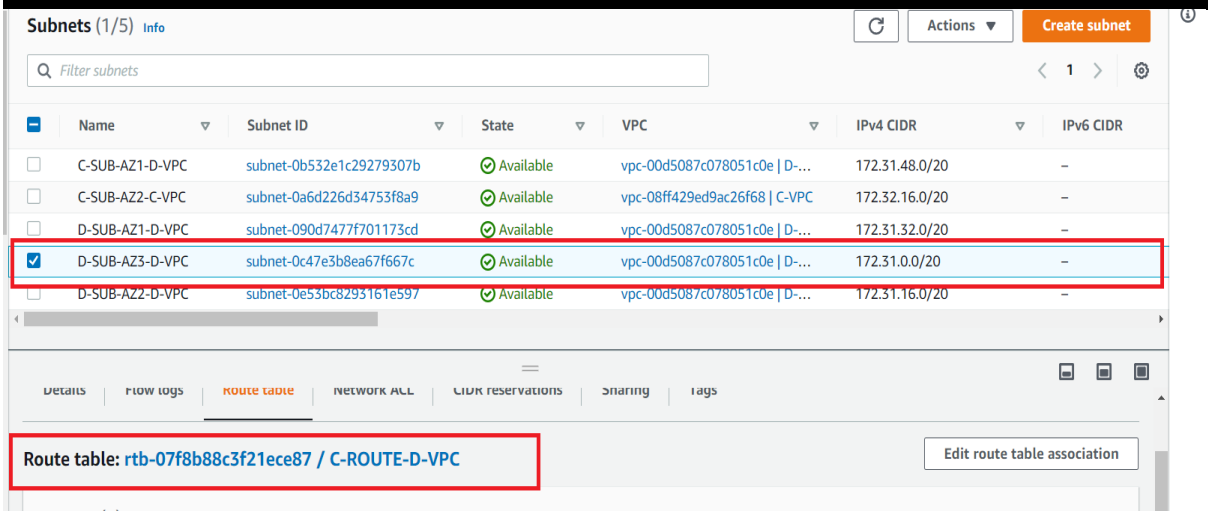
IF CREATE CUSTOM SG ALL PERMISIION ALLOW ONLY OUTBOUND NOT INBOUND RULE CREATE BY DEFAULT AND IF CREATE NEW RULES ONLY ALLOW PERMISSION GIVEN RULES NOT FOUND ANY DENY OPTION.



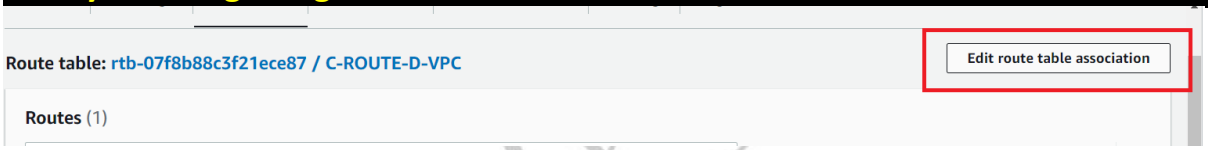
Virtual Private Cloud (Amazon VPC)

If you change Subnet in route table to use Assign Explicit subnet association in route table

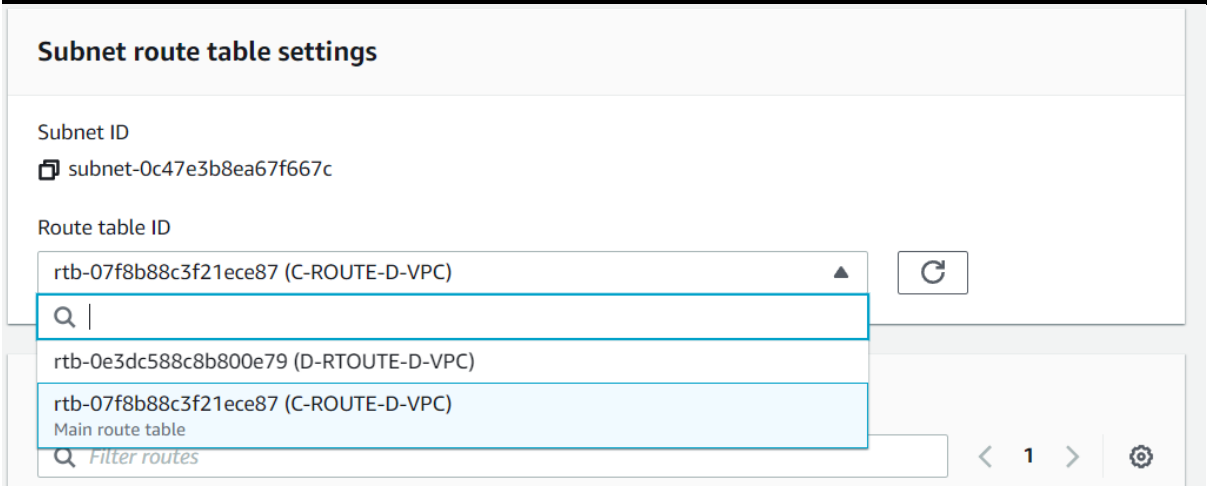
Check subnet and default route



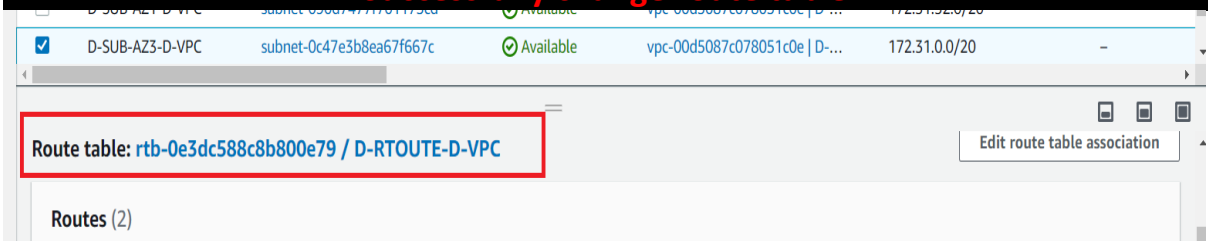
If you change single subnet in route to click edit route table association



Change route table id by default its assign in main route table



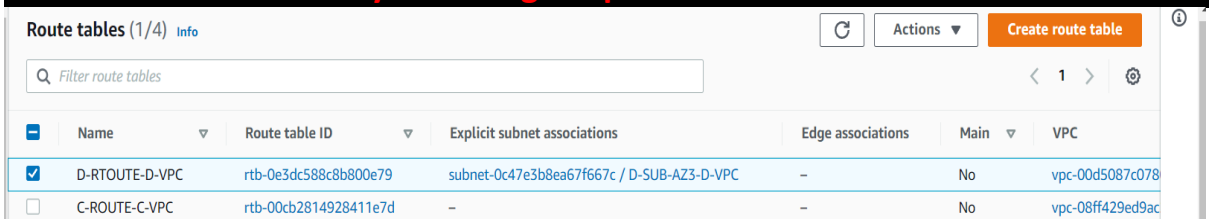
Successfully change route table



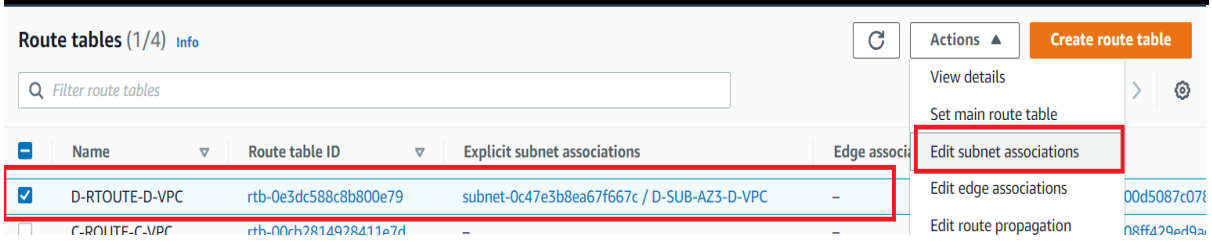
Virtual Private Cloud (Amazon VPC)

If you change multi subnet in route to open route table and edit Assign Explicit subnet association

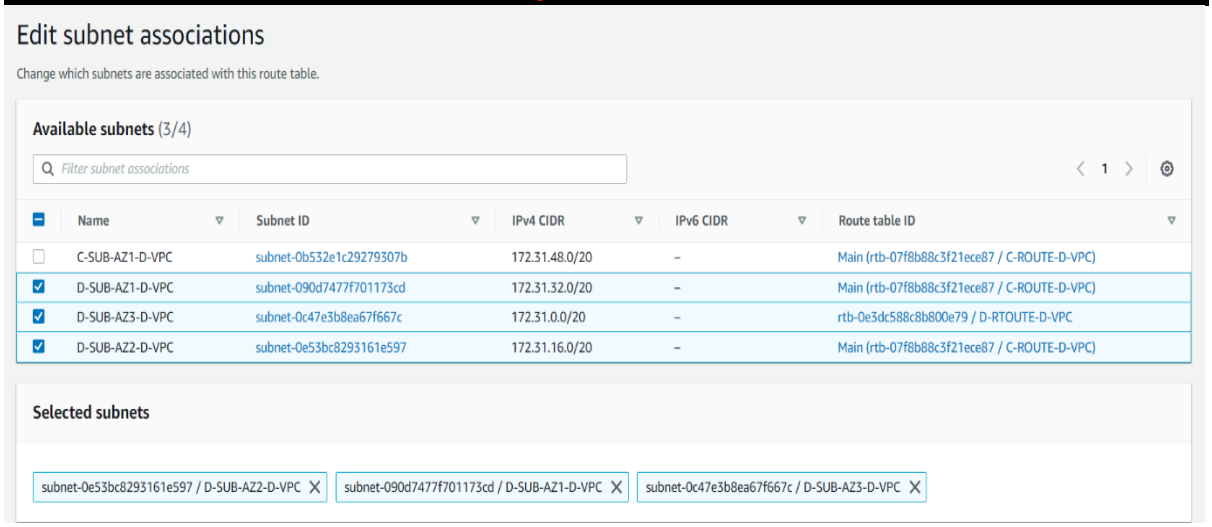
Check only one assign explicit subnet associations



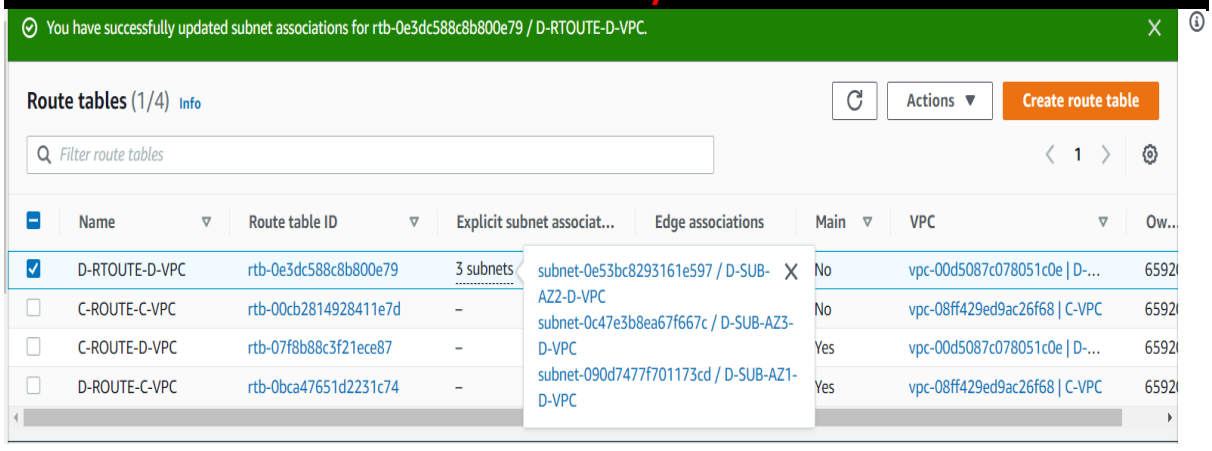
Click any route and click actions to edit subnet associations



Click on the you want multi select



Successfully add

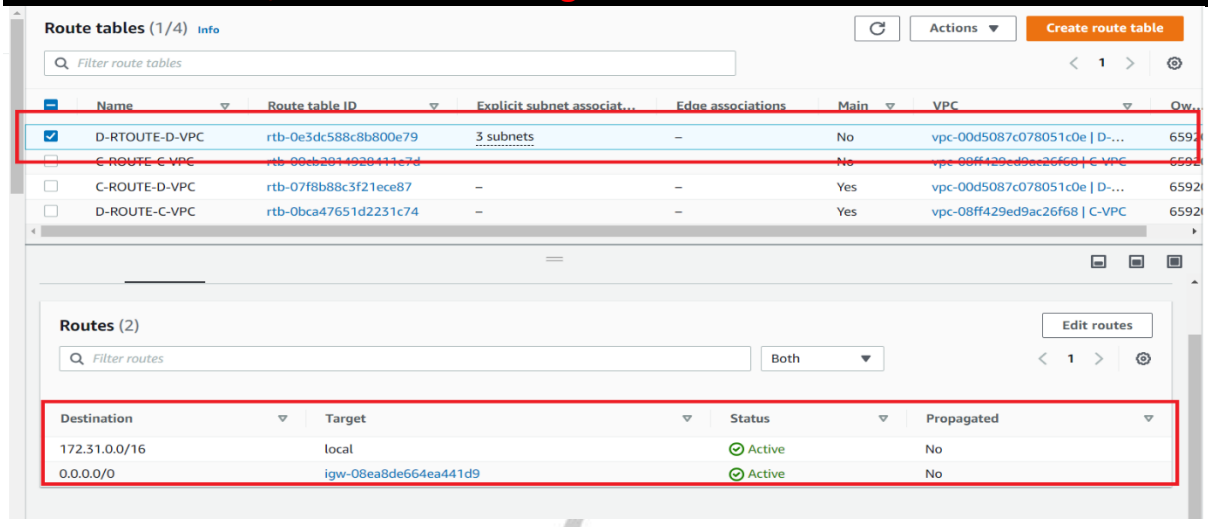


Virtual Private Cloud (Amazon VPC)

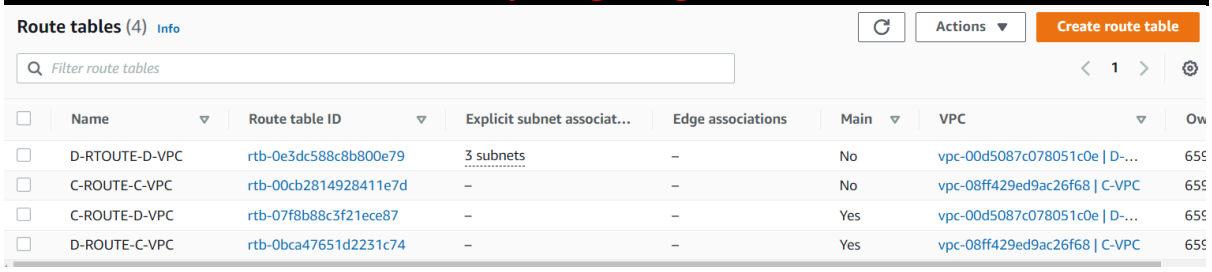
If you change IGW in route table to use Assign Edge association in route table

Assign Edge associations

First, check default assign IGW in subnet route table

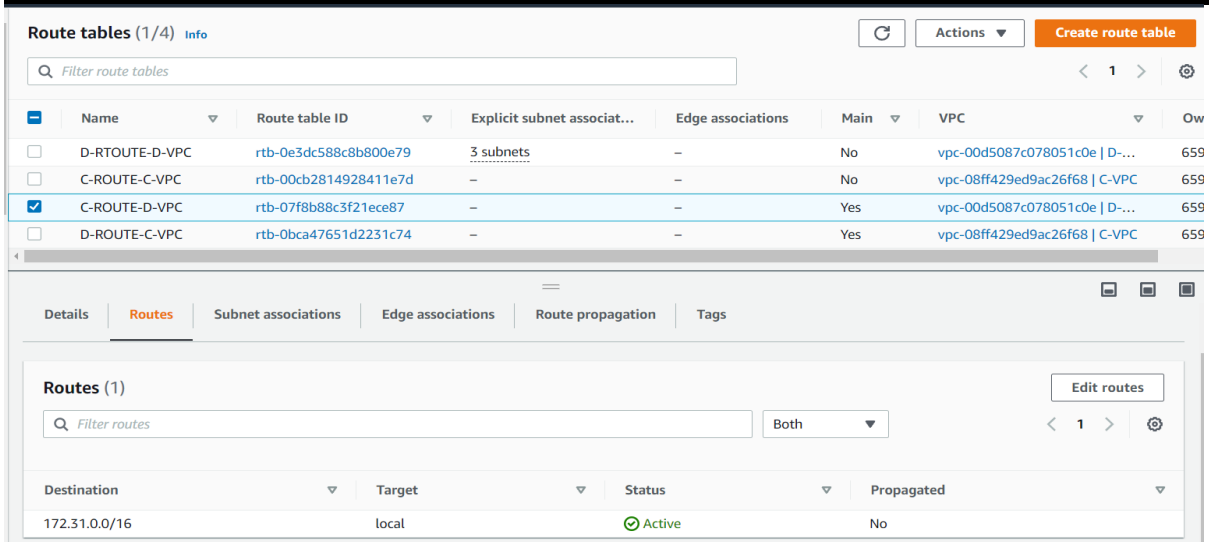


Check not any assign Edge associations



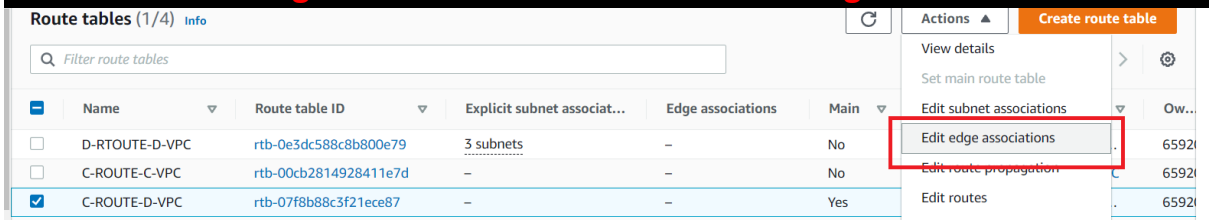
If change IGW in route table assign edge association to change IGW

First, check different route in IGW assign or not

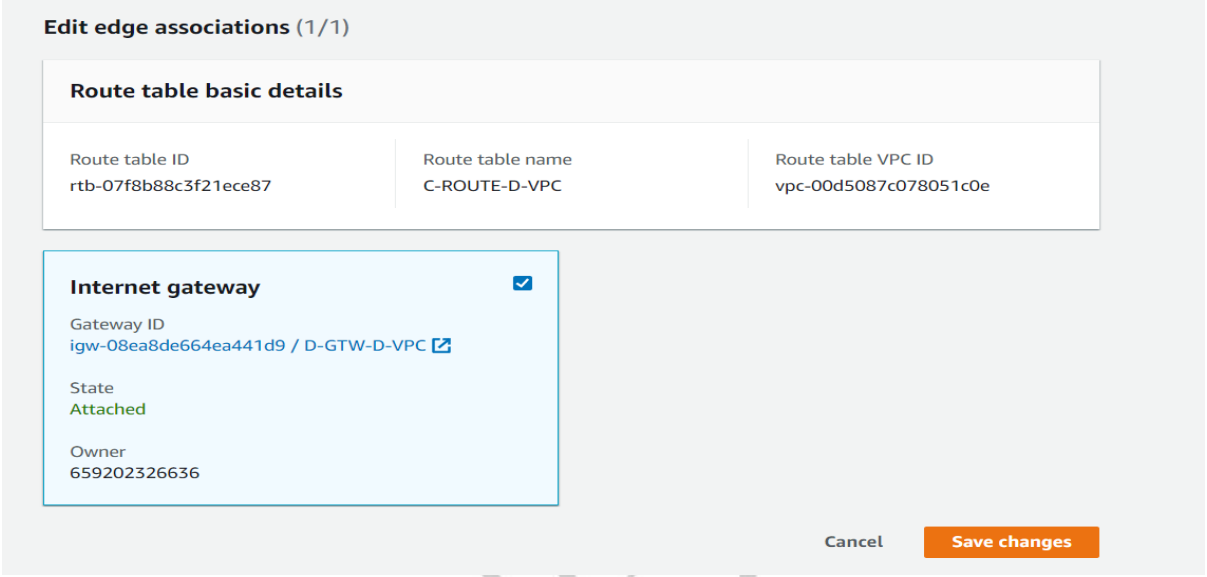


Virtual Private Cloud (Amazon VPC)

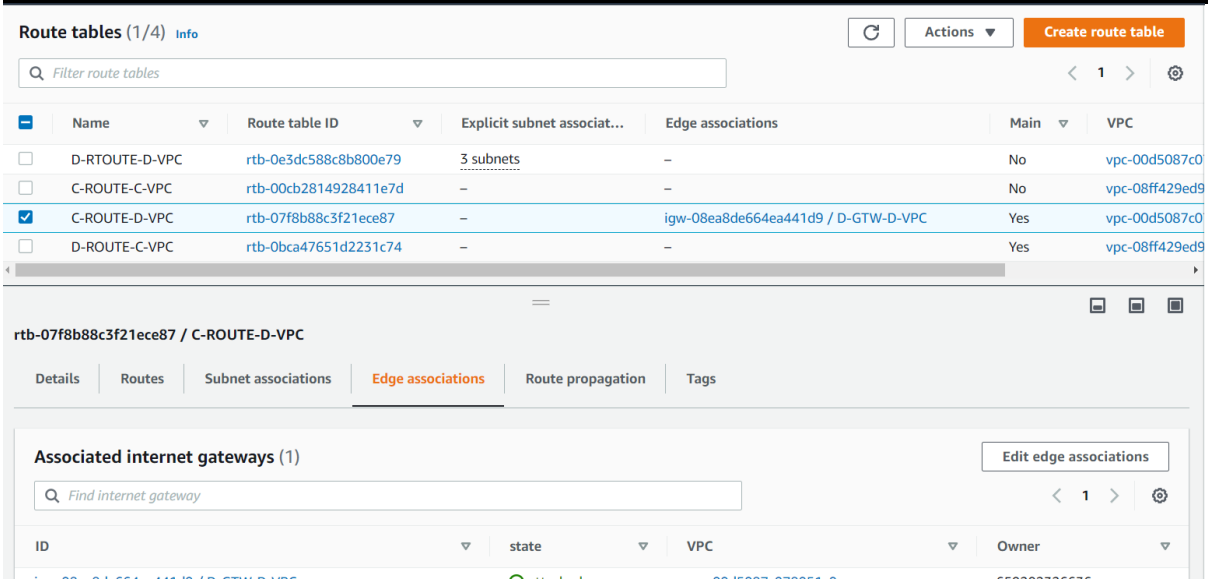
Click Change route and click actions to edit edge associations



Check mark to IGW and save



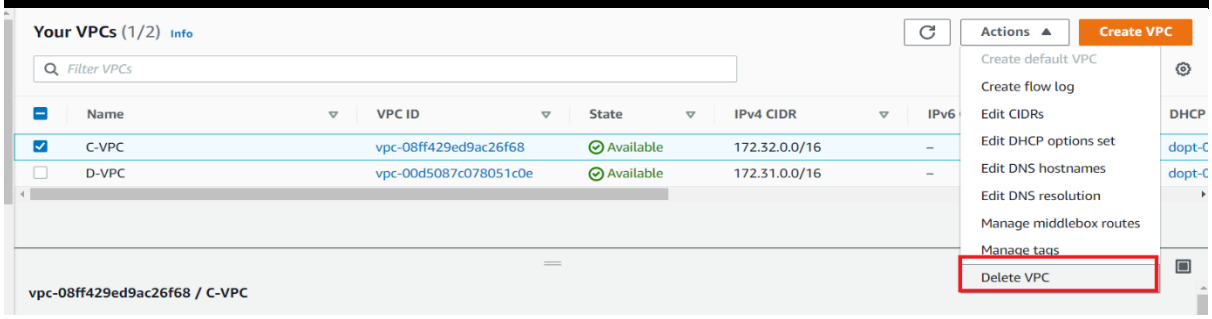
Add successfully IGW



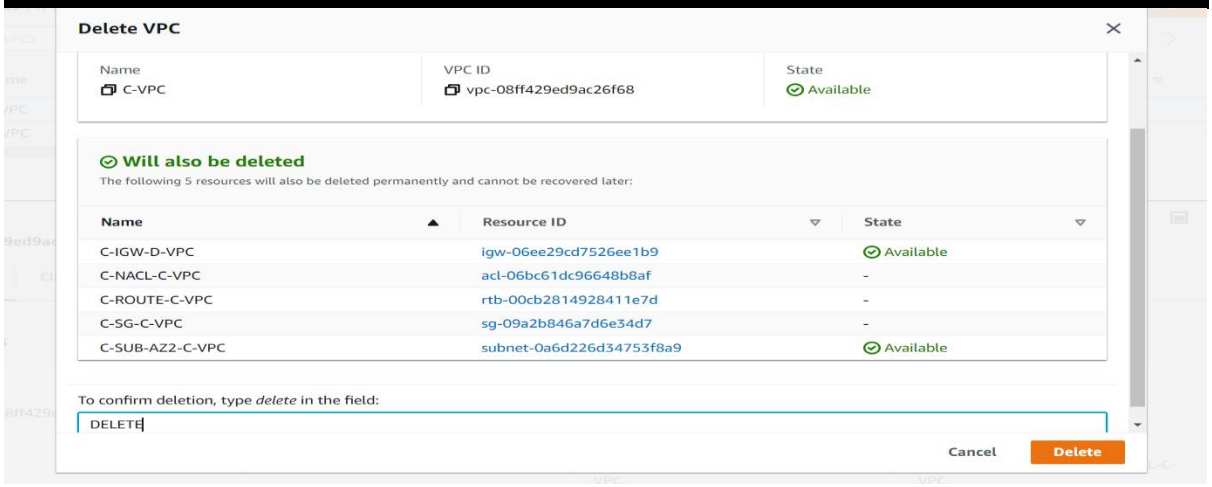
Virtual Private Cloud (Amazon VPC)

If I want to delete direct VPS after all the modification , will they allow me to delete them or not?

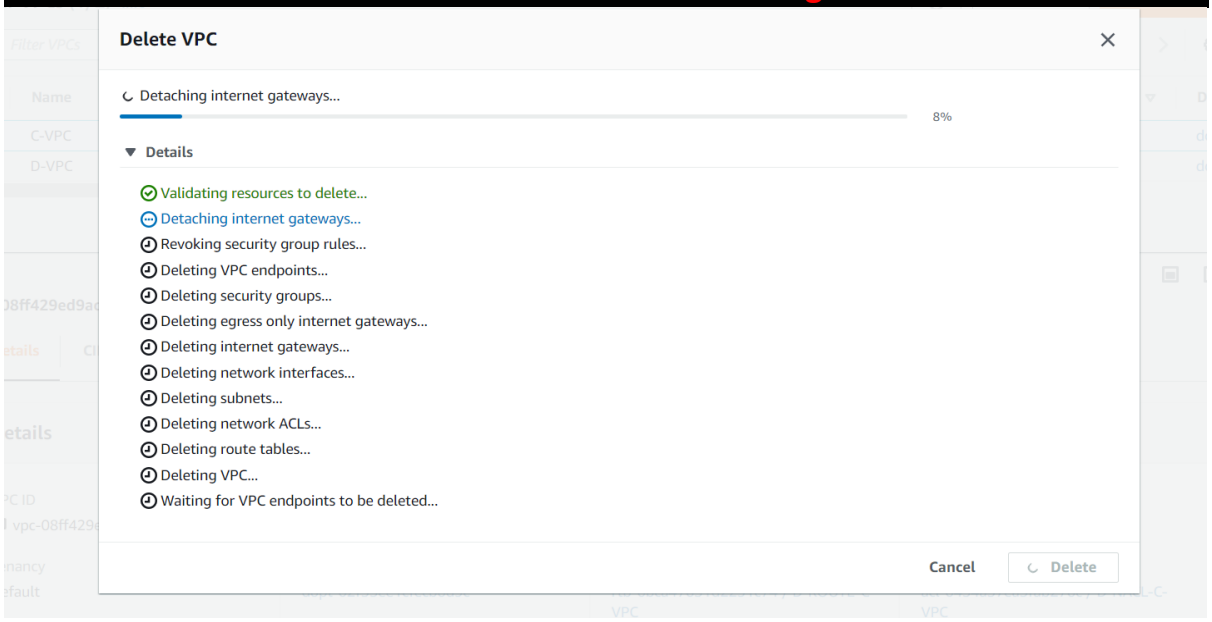
Delete custom VPC



If I delete VPC, So it Show me that you are using another service in VPC. so will it allow me to delete it or not?

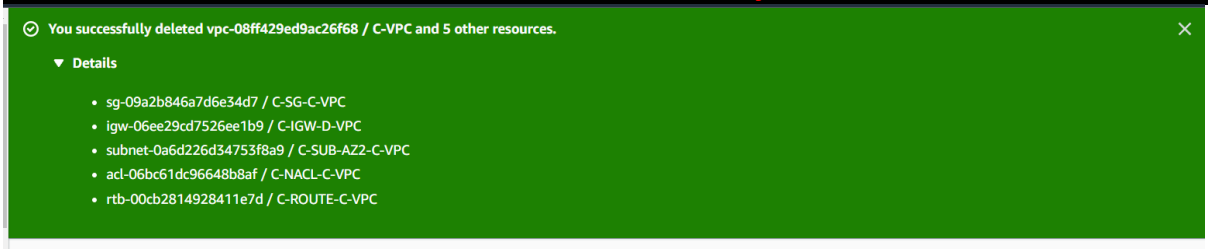


If deleted VPC Automatic detaching service



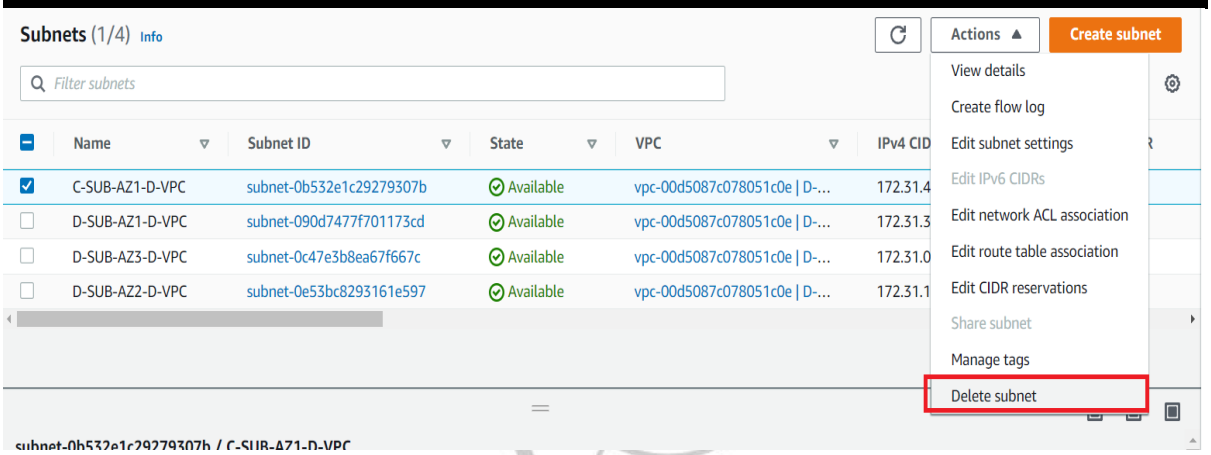
Virtual Private Cloud (Amazon VPC)

After deleting so many service VPC out of all the modifications I did, it got deleted automatically.

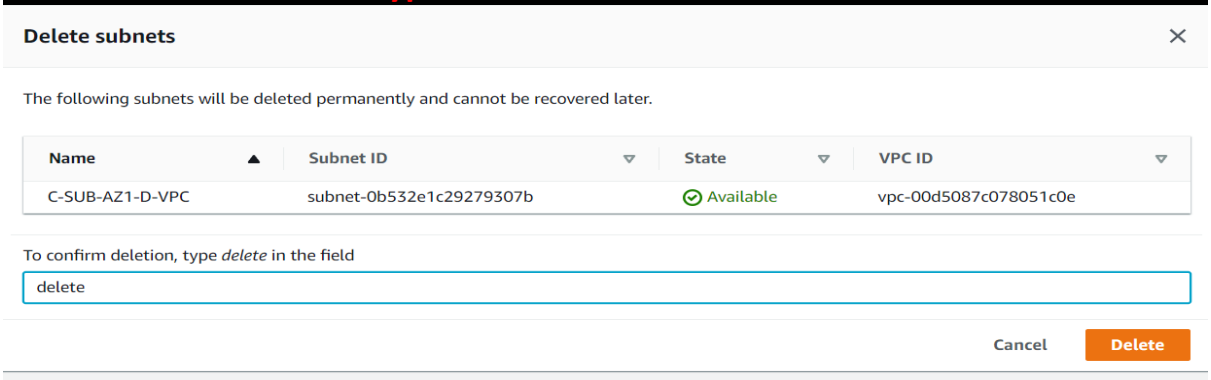


Delete custom subnet

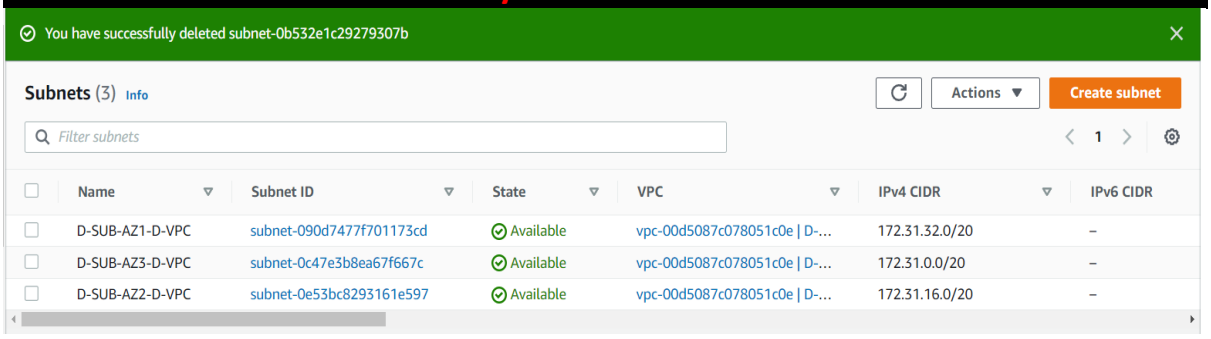
Delete custom subnet



Type to delete and click delete



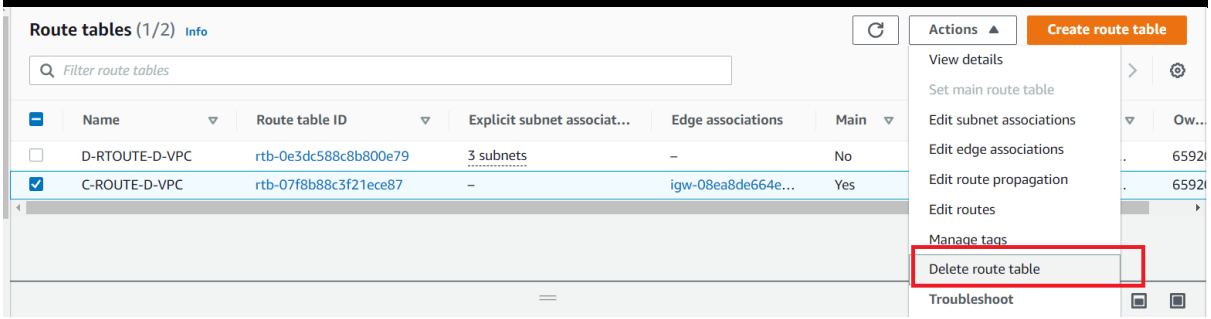
Successfully deleted custom subnet



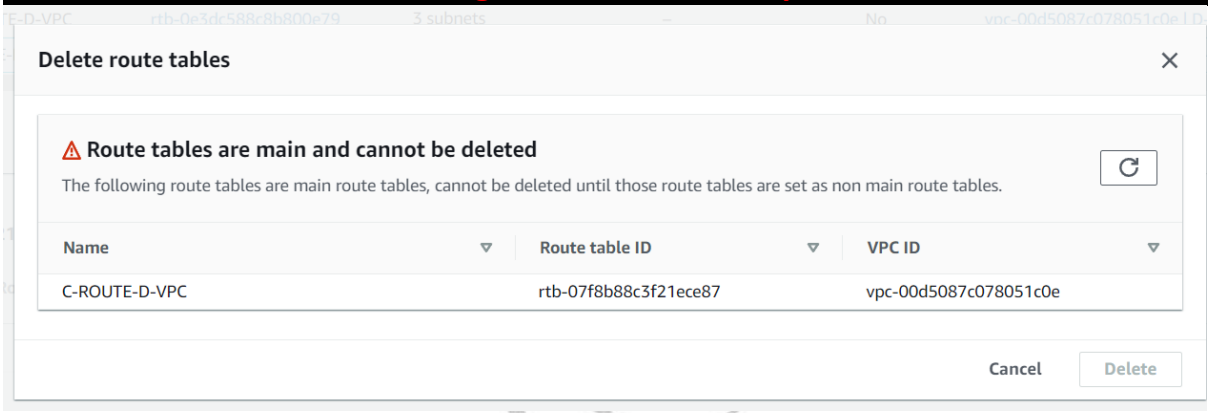
Virtual Private Cloud (Amazon VPC)

Delete route table

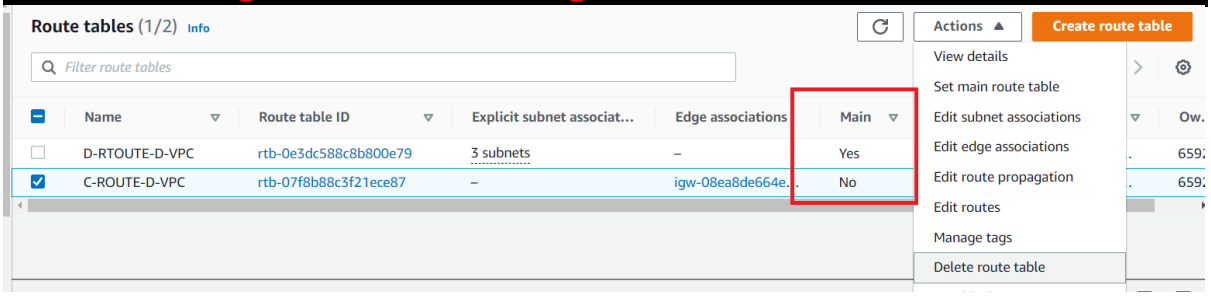
Select custom route and delete



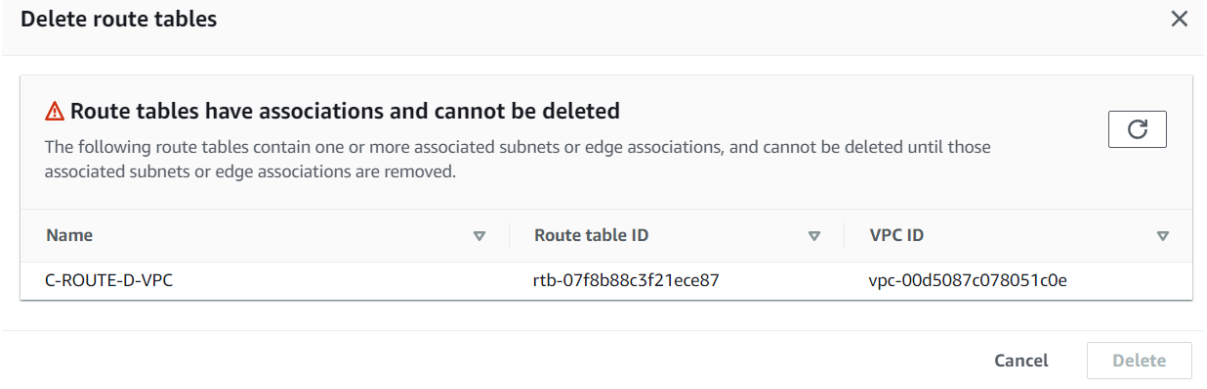
If custom route configure in main so not possible to delete



Change to main after change to main click to delete route



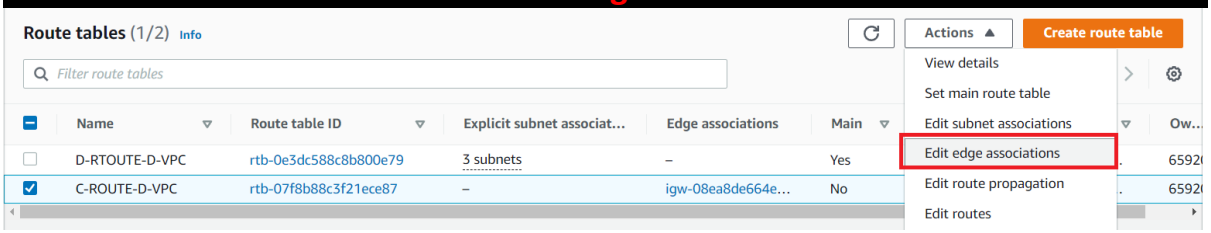
if assign Explicit & Edge so not possible to direct delete to route



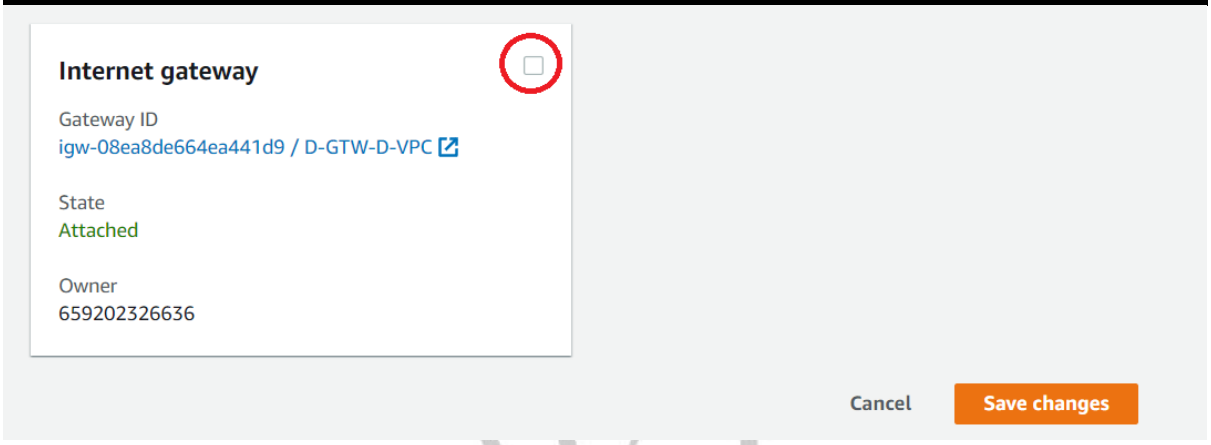
Virtual Private Cloud (Amazon VPC)

Delete edge association

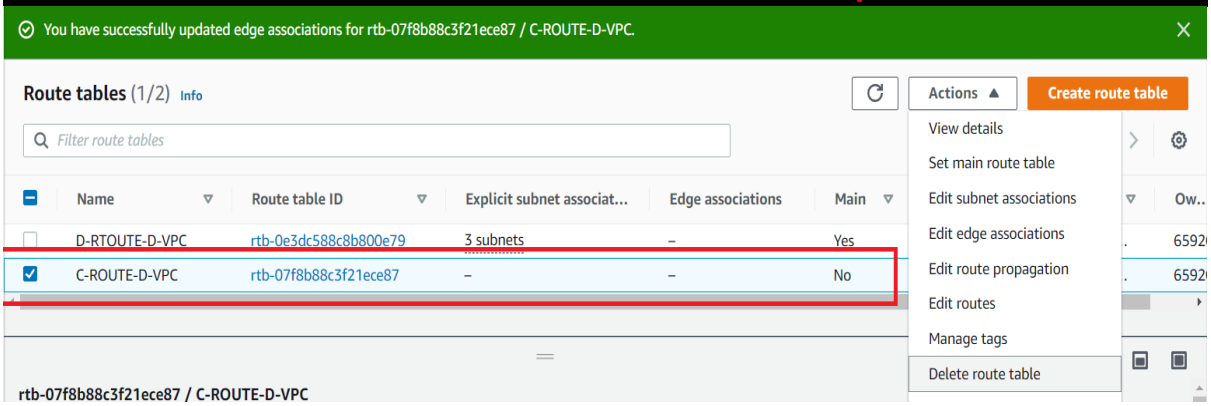
Click to edit edge association



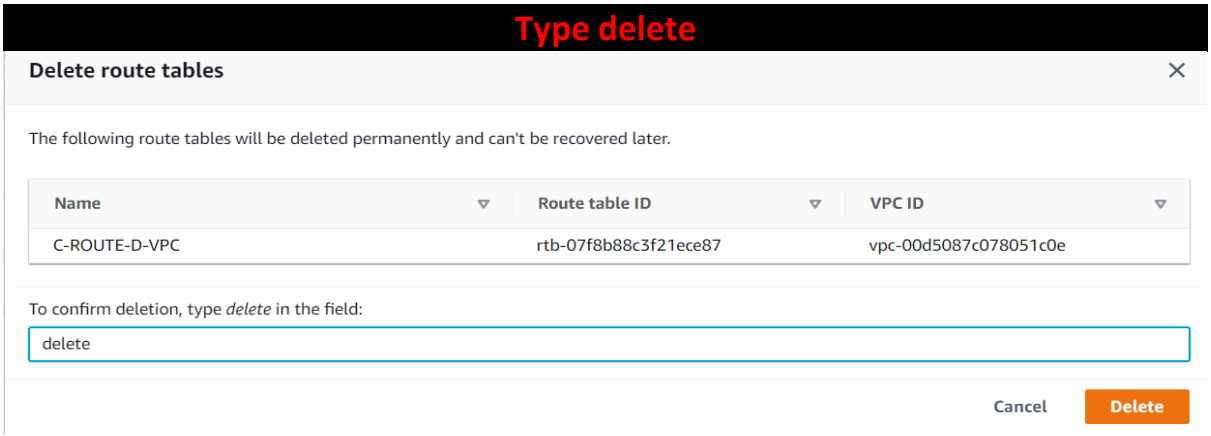
Unselect IGW and save



After all modification click to delete option



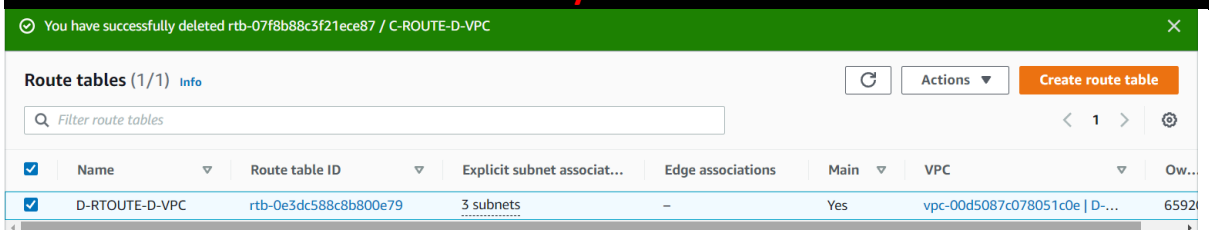
Type delete



CREATED BY:- VIVEK GANDHI

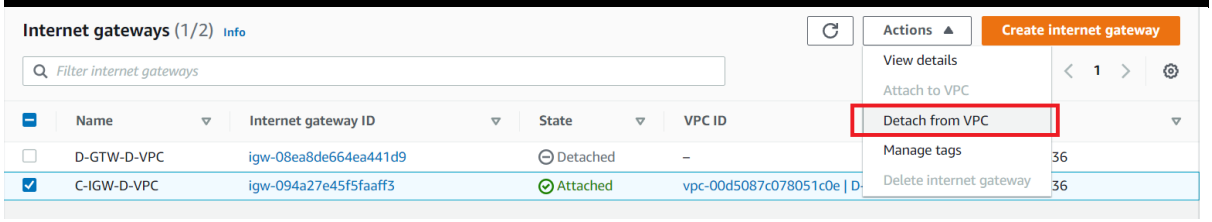
Virtual Private Cloud (Amazon VPC)

Successfully deleted route

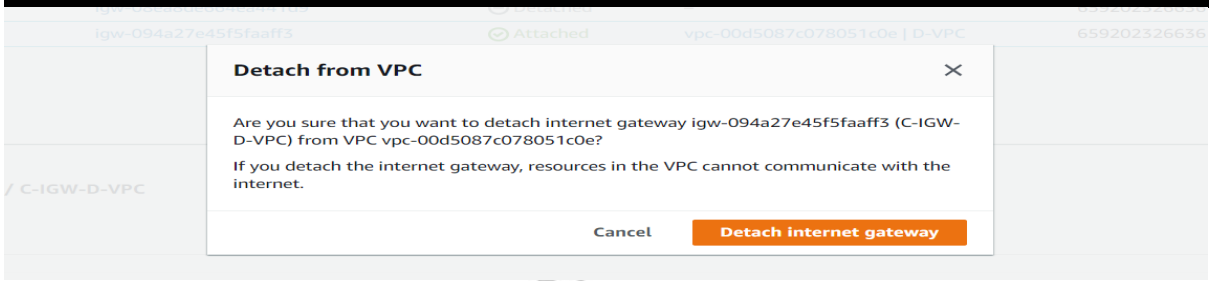


Delete IGW

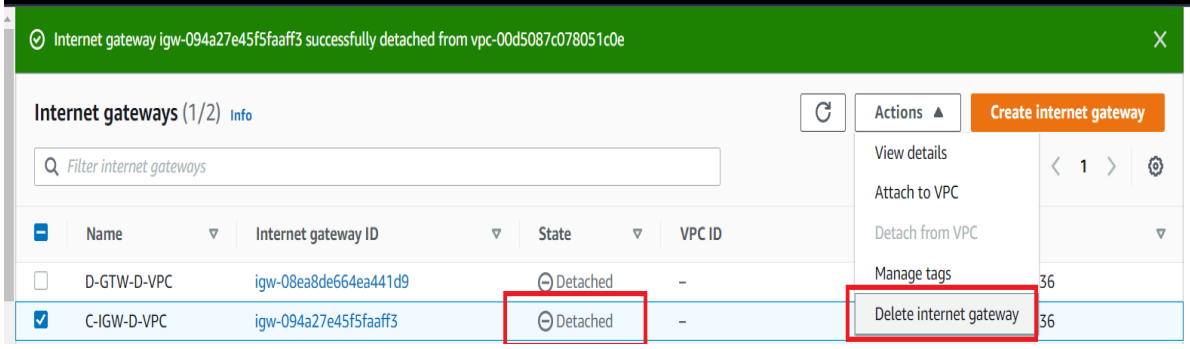
If delete IGW so first detached IGW from VPC



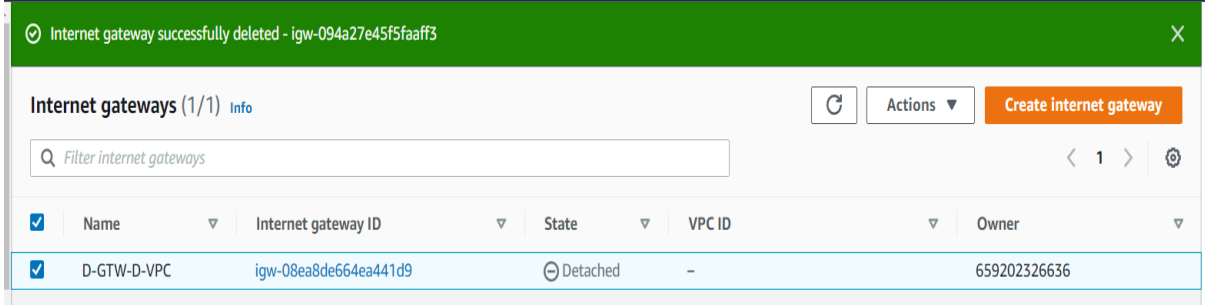
Click to detach



Successfully detach IGW and click delete IGW

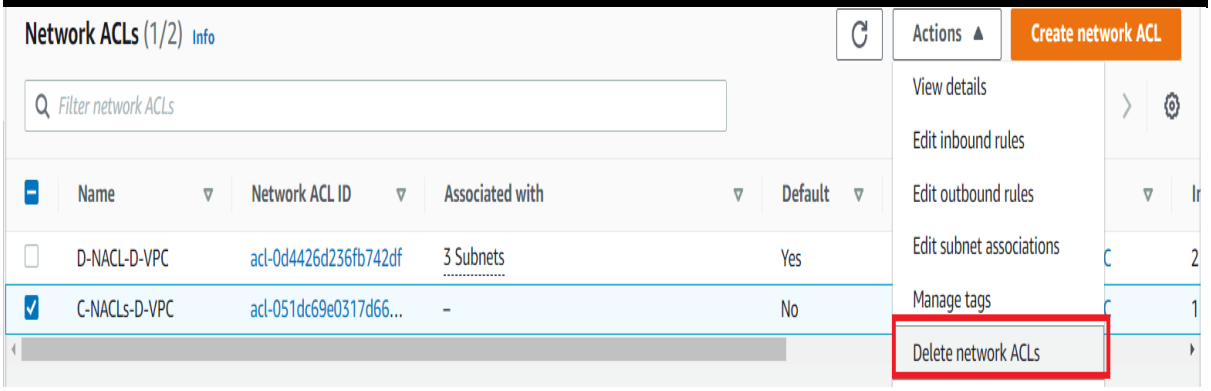


Successfully deleted IGW

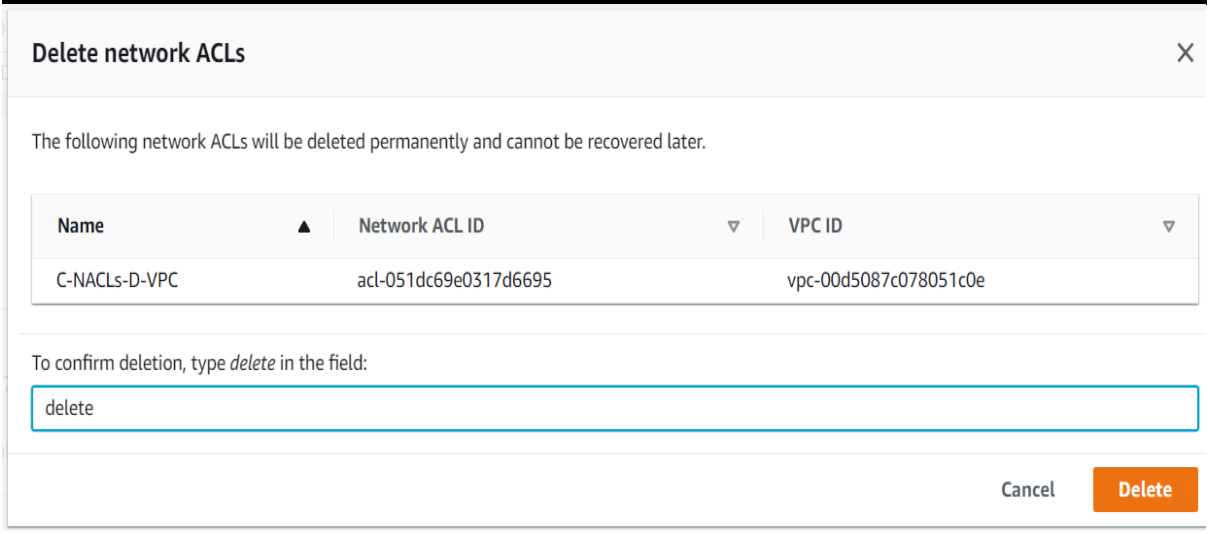


Delete NACLs

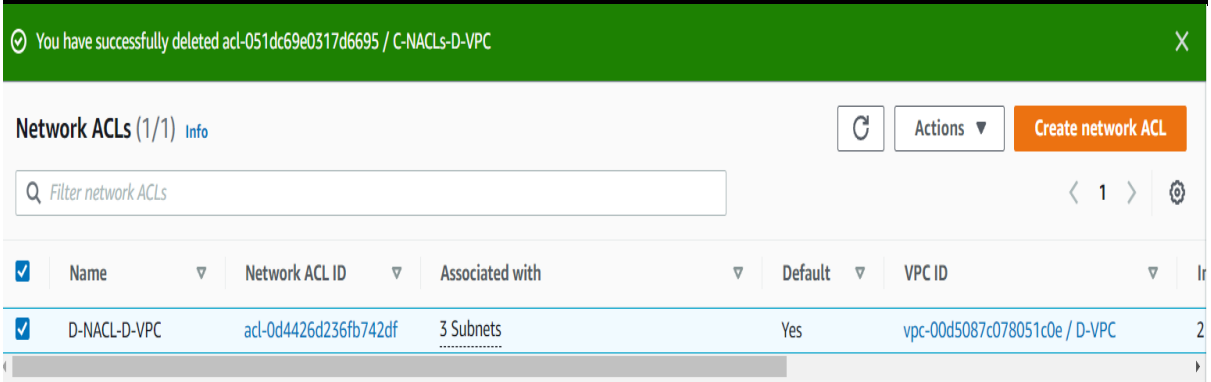
Select custom Nacls and delete



Type delete



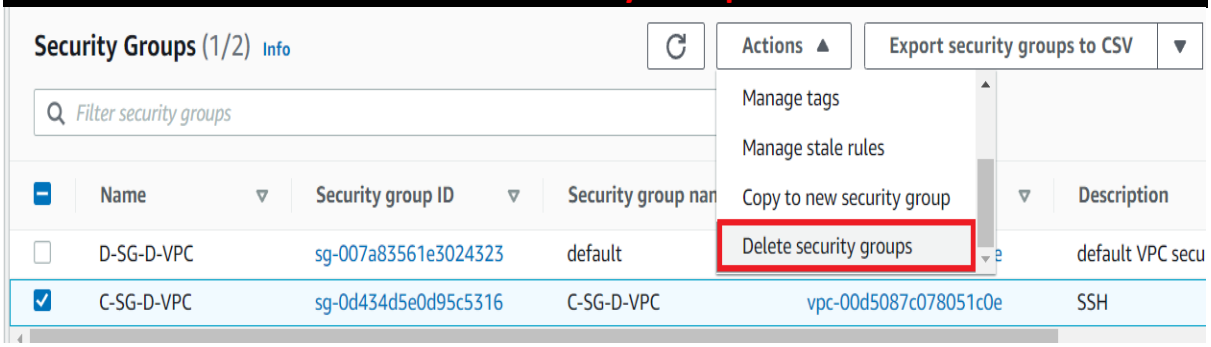
Successfully deleted NACLs



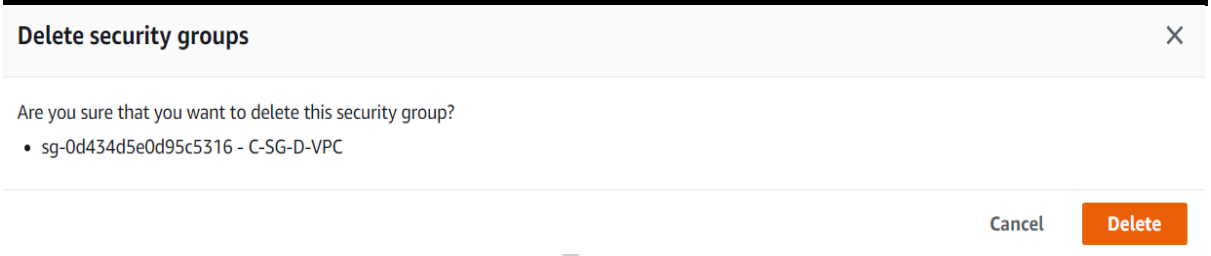
Virtual Private Cloud (Amazon VPC)

Delete Security Group

Select custom Security Group and delete



Click to delete



Successfully deleted Security Group