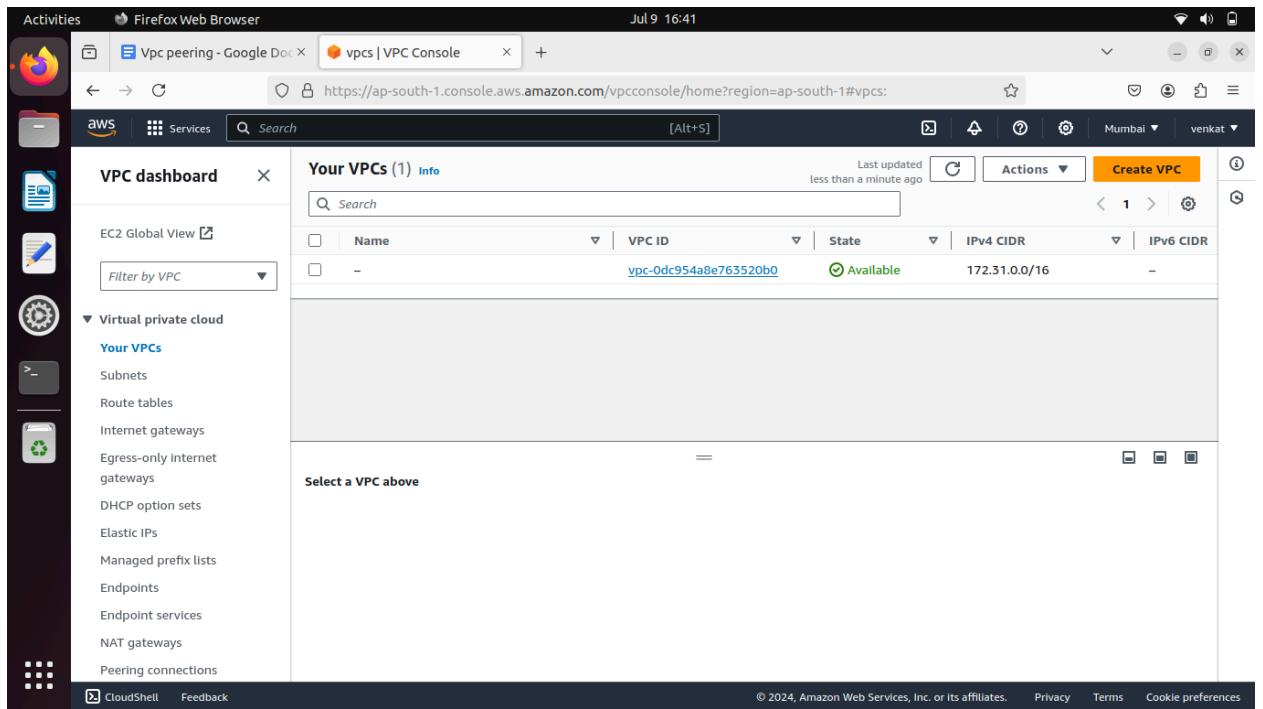


## Vpc peering

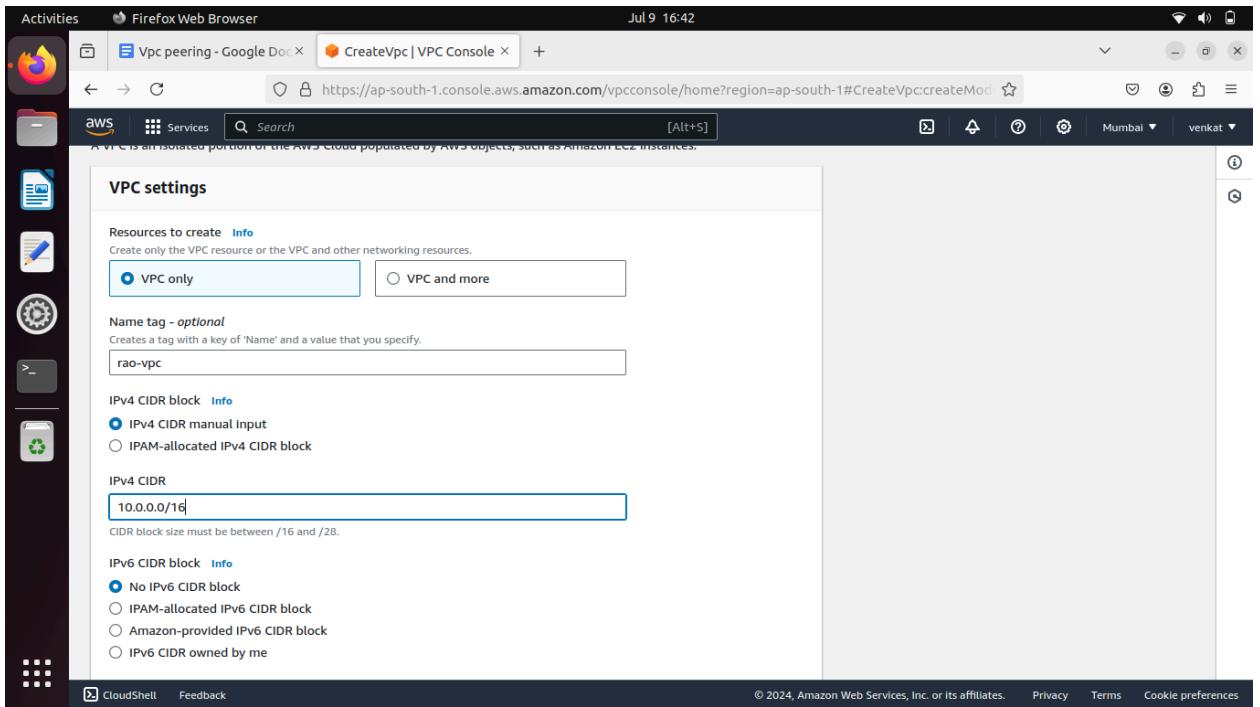
- 1) Create peering we need 2 vpc and connect both but dont use cidr block range
- 2) Peering connection we use same region and cross region same account different account
- 3) Vpc→ create vpc



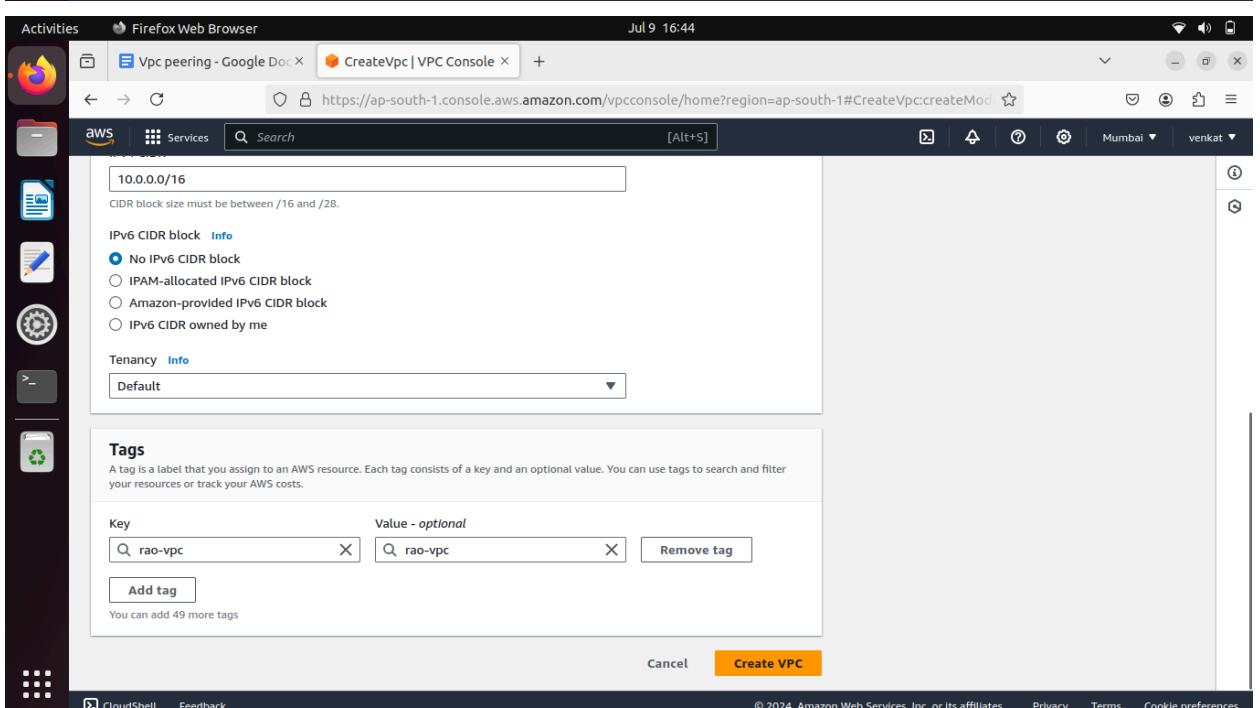
The screenshot shows the AWS VPC Dashboard. On the left, there's a sidebar with icons for various services like EC2, Lambda, and CloudWatch. The main area is titled "Your VPCs (1)" and shows a table with one row. The columns are Name, VPC ID, State, IPv4 CIDR, and IPv6 CIDR. The single entry is named "-", VPC ID is "vpc-0dc954a8e763520b0", State is "Available", IPv4 CIDR is "172.31.0.0/16", and IPv6 CIDR is "-". Below the table, it says "Select a VPC above". At the bottom of the dashboard, there are links for CloudShell, Feedback, and some legal information.

Name	VPC ID	State	IPv4 CIDR	IPv6 CIDR
-	vpc-0dc954a8e763520b0	Available	172.31.0.0/16	-

- 4)
- 5) Select vpc only
- 6) name= rao-vpc
- 7) ipv4CIDR= 10.0.0.0/16



8)



9)

10) Click create vpn

Your VPCs (1/2) [Info](#)

Name	VPC ID	State	IPv4 CIDR	IPv6 CIDR
-	vpc-0dc954a8e763520b0	Available	172.31.0.0/16	-
<b>rao-vpc</b>	<b>vpc-0c8cd33aa4681f099</b>	<b>Available</b>	<b>10.0.0.0/16</b>	-

**vpc-0c8cd33aa4681f099 / rao-vpc**

[Details](#) [Resource map](#) [CIDRs](#) [Flow logs](#) [Tags](#) [Integrations](#)

**Details**

VPC ID vpc-0c8cd33aa4681f099	State <span style="color: green;">Available</span>	DNS hostnames Disabled	DNS resolution Enabled
Tenancy	DHCP option set	Main route table	Main network ACL

11)

12) Now go to internet gateway

13) Click create internet gateway

Internet gateways (1) [Info](#)

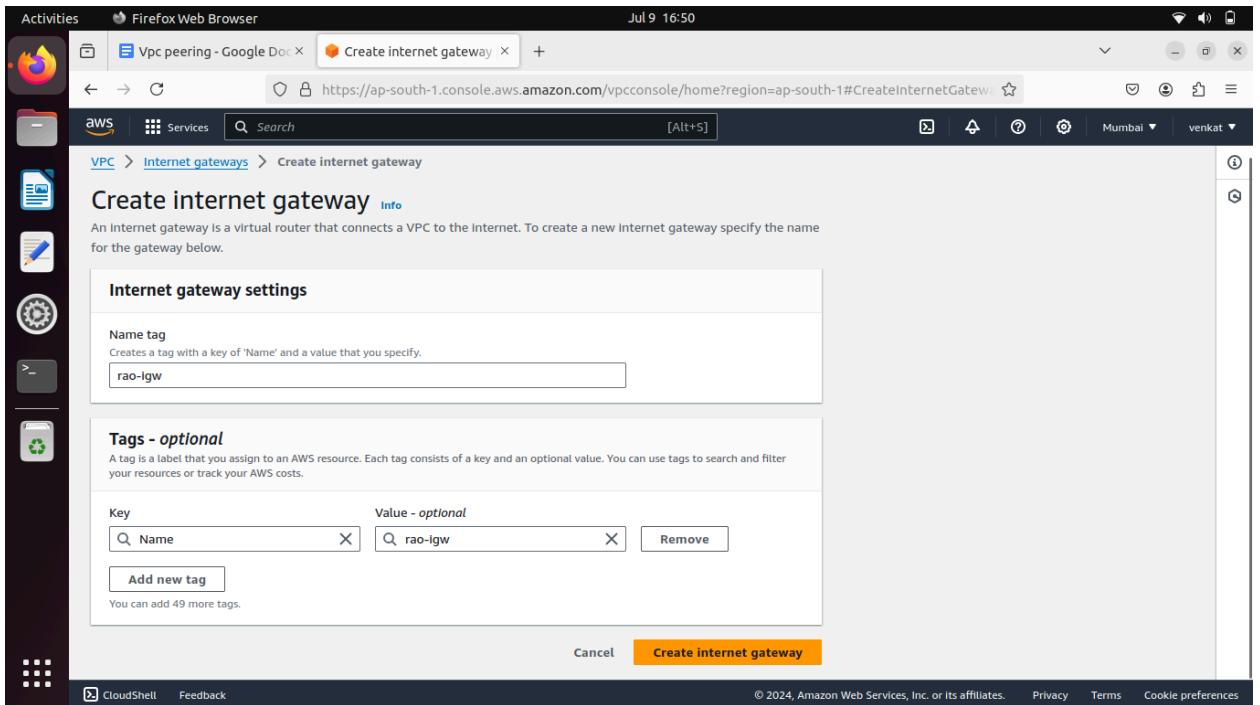
Name	Internet gateway ID	State	VPC ID
-	igw-03fa492fa7003b207	Attached	vpc-0dc954a8e763520b0

Select an internet gateway above

14)

15) Give name = rao-igw

16) Crate igw



17)

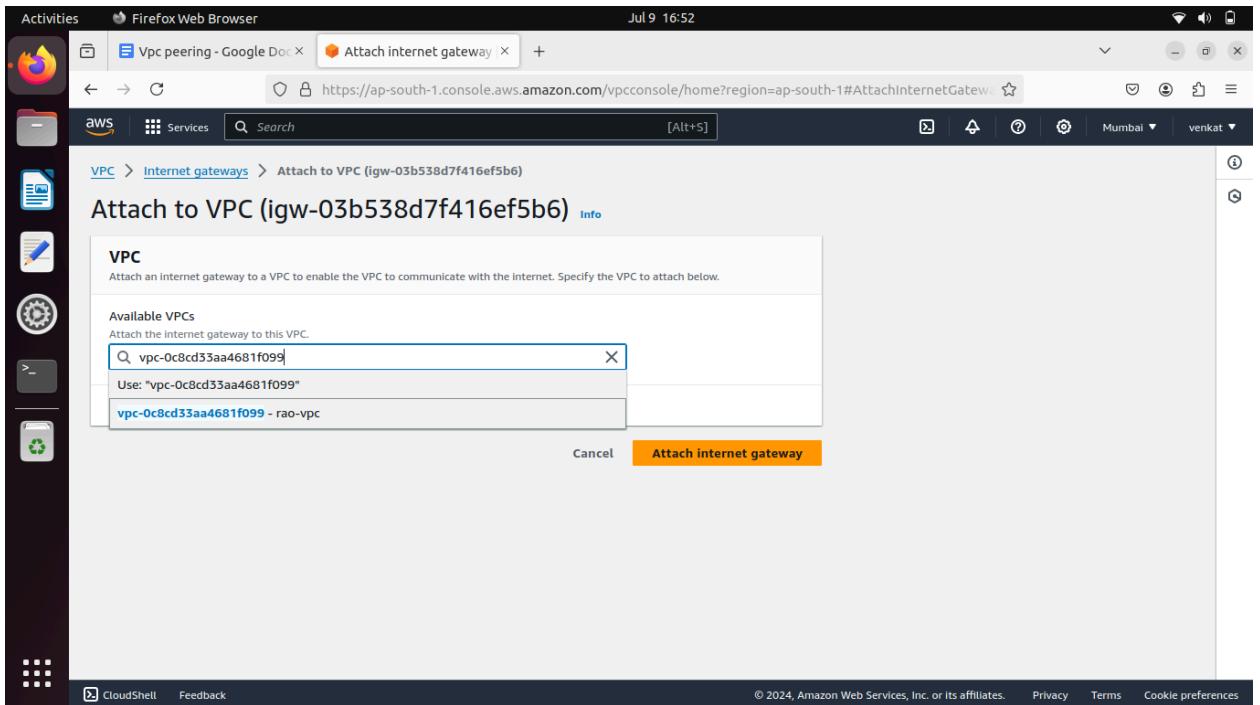
18) Now select rao-lgw click on actions

19) Click attach to vpc

Name	Internet gateway ID	Actions
-	igw-03fa492fa7003b207	<a href="#">View details</a>
<input checked="" type="checkbox"/> rao-lgw	igw-03b538d7f416ef5b6	<a href="#">Attach to VPC</a>

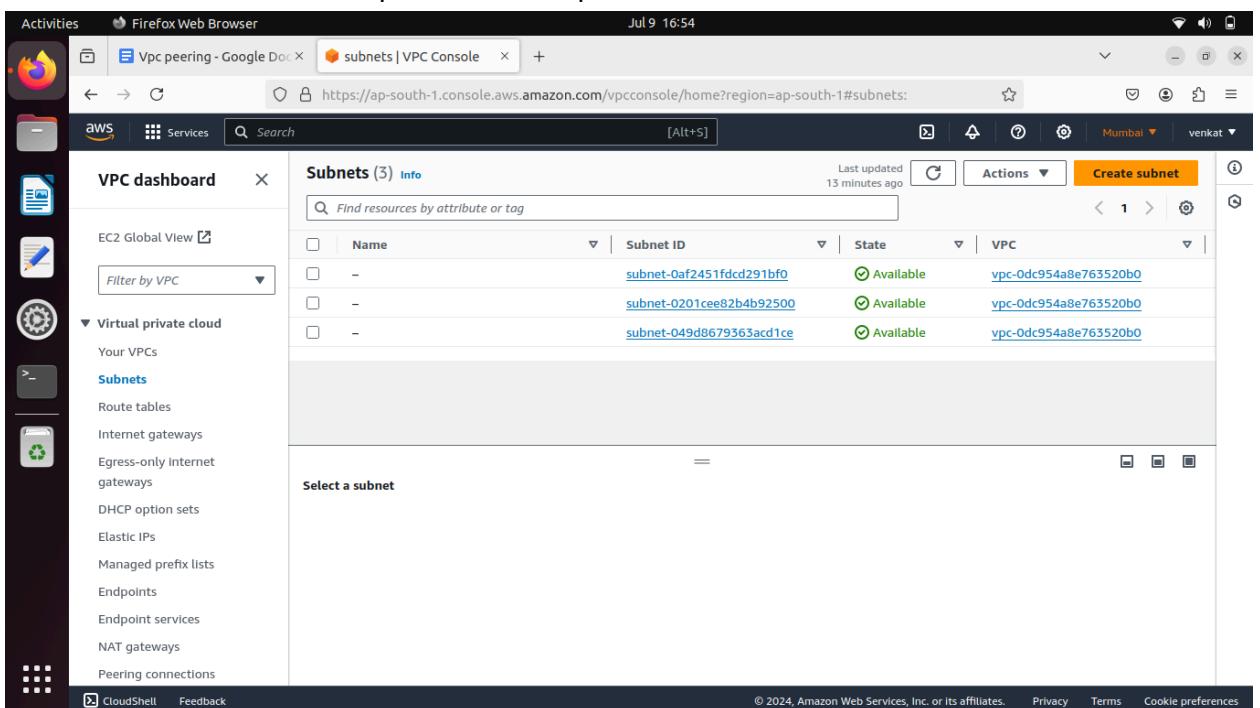
20)

21) Now select rao-vpc and click attach igw



22)

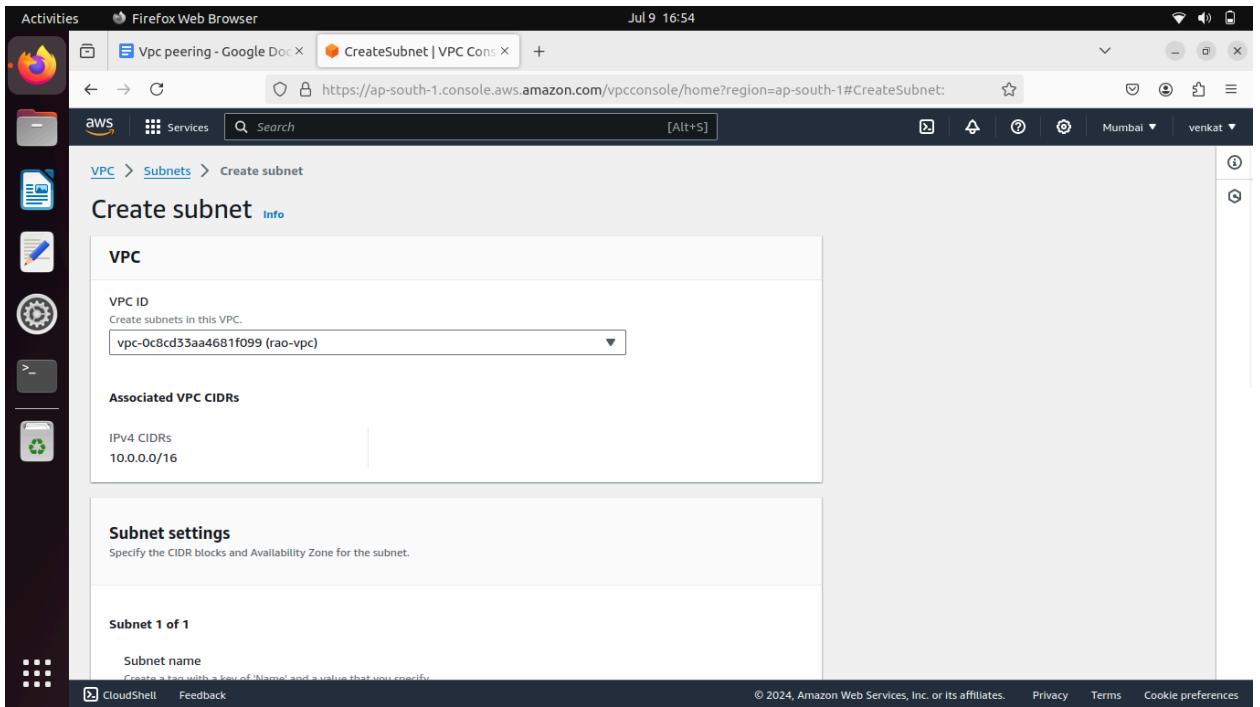
23) Go to subnets and create one public and one private subnet



24)

25) Click create subnet

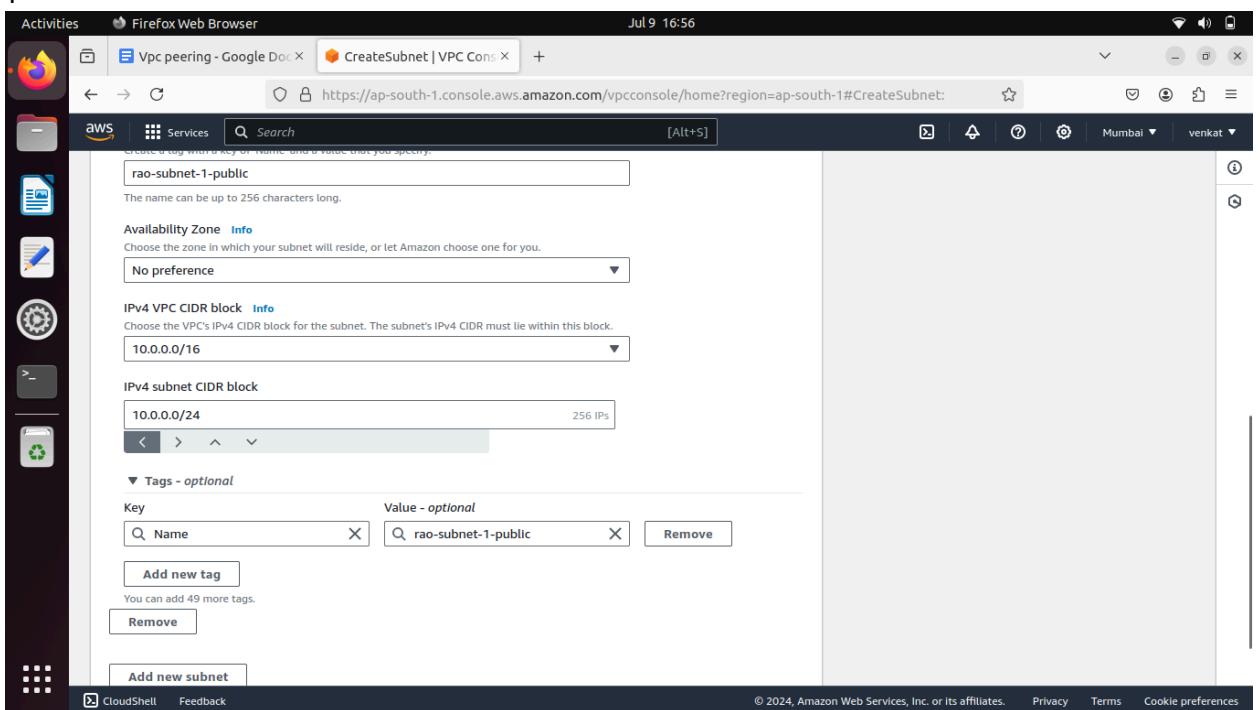
26) vpc= rao-vpc



27)

28) name= rao-subnet-1-public

29) ipv4 subnet cidr block= 10.0.0.0/24



30)

31) Click create subnet

The screenshot shows the AWS VPC dashboard. A green success message at the top states: "You have successfully created 1 subnet: subnet-01a33beba708fa57d". Below this, the "Subnets (1)" section is displayed. A table lists one subnet:

Name	Subnet ID	State	VPC
rao-subnet-1-public	subnet-01a33beba708fa57d	Available	vpc-0c8cd33aa4681f099   rao-vpc

On the left sidebar, under "Virtual private cloud", the "Subnets" option is selected. At the bottom of the page, there are links for CloudShell, Feedback, and a footer with copyright information.

32)

- 33) Create same way private subnet
- 34) Create subnet
- 35) vpc= rao-vpc
- 36) name= rao-subnet-2-private
- 37)Ipv4 subnet cidr block= 10.0.3.0/24
- 38) Click on create subnet

The screenshot shows the "Create Subnet" wizard, step 1 of 1. The form fields are as follows:

- Subnet name:** rao-subnet-2-private
- Availability Zone:** No preference
- IPv4 VPC CIDR block:** 10.0.0/16
- IPv4 subnet CIDR block:** 10.0.20/24
- Tags - optional:** Key: Name, Value: rao-subnet-2-private

At the bottom, there are "Next Step" and "Cancel" buttons.

39)

Activities Firefox Web Browser Jul 9 17:01

Vpc peering - Google Doc X subnets | VPC Console +

https://ap-south-1.console.aws.amazon.com/vpcconsole/home?region=ap-south-1#subnets: Star

AWS Services Search [Alt+S]

Mumbai venkat

VPC dashboard EC2 Global View Subnets (5) info Find resources by attribute or tag

Last updated less than a minute ago Actions Create subnet

	Name	Subnet ID	State	VPC
□	-	subnet-0af2451fdcd291bf0	Available	vpc-0dc954a8e763520b0
□	-	subnet-0201cee82b4b92500	Available	vpc-0dc954a8e763520b0
□	-	subnet-049d8679363acd1ce	Available	vpc-0dc954a8e763520b0
□	rao-subnet-1-public	subnet-01a33beba708fa57d	Available	vpc-0c8cd33aa4681f099   rao-vpc
□	rao-subnet-2-private	subnet-0204d5aaca7099493	Available	vpc-0c8cd33aa4681f099   rao-vpc

Select a subnet

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40)

41) Now go to route tables and create one public and private routetable

Activities Firefox Web Browser Jul 9 17:04

Vpc peering - Google Doc X RouteTables | VPC Console +

https://ap-south-1.console.aws.amazon.com/vpcconsole/home?region=ap-south-1#RouteTables: Star

AWS Services Search [Alt+S]

Mumbai venkat

VPC dashboard EC2 Global View Route tables (1) info Find resources by attribute or tag

Last updated 23 minutes ago Actions Create route table

	Name	Route table ID	Explicit subnet associ...	Edge associations	Main
□	-	rtb-08b0525906d1551ab	-	-	Yes

Select a route table

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42)

43) Click create routetable

44) name=rao-route-1-public

45) vpc= rao-vpc

46) Click create route

47)

**Route table settings**

Name - optional  
Create a tag with a key of 'Name' and a value that you specify.

VPC  
The VPC to use for this route table.

**Tags**  
A tag is a label that you assign to an AWS resource. Each tag consists of a key and an optional value. You can use tags to search and filter your resources or track your AWS costs.

Key	Value - optional
<input type="text" value="Name"/>	<input type="text" value="rao-route-1-public"/>

**Add new tag**  
You can add 49 more tags.

Cancel **Create route table**

48)

**VPC dashboard**

**Route tables (3) Info**

Last updated less than a minute ago

Name	Route table ID	Explicit subnet associ...	Edge associations	Main
-	<a href="#">rtb-08b0525906d1551ab</a>	-	-	Yes
-	<a href="#">rtb-0463b061406c3d353</a>	-	-	Yes
rao-route-1-public	<a href="#">rtb-0f6c20ca400e4bd60</a>	-	-	No

Select a route table

49) Create private route same as above

50) Name = rao-route-2-private

51) vpc=rao-vpc

52) Click create route

Activities Firefox Web Browser Jul 9 17:09

Vpc peering - Google Doc X RouteTables | VPC Consol X + https://ap-south-1.console.aws.amazon.com/vpcconsole/home?region=ap-south-1#RouteTables: AWS Services Search [Alt+S] Mumbai venkat

VPC dashboard × EC2 Global View Find resources by attribute or tag

Route tables (4) Info Last updated less than a minute ago Actions Create route table

Name	Route table ID	Explicit subnet assoc...	Main
-	<a href="#">rtb-08b0525906d1551ab</a>	-	Yes
-	<a href="#">rtb-0463b061406c3d353</a>	-	Yes
rao-route-1-public	<a href="#">rtb-0f6c20ca400e4bd60</a>	-	No
rao-route-2-private	<a href="#">rtb-00ae8063c32314a4a</a>	-	No

Select a route table

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53)

54) Select rao-route-1-public click actions

55) Click edit subnet associations'

Activities Firefox Web Browser Jul 9 17:11

Vpc peering - Google Doc X RouteTables | VPC Consol X + https://ap-south-1.console.aws.amazon.com/vpcconsole/home?region=ap-south-1#RouteTables: AWS Services Search [Alt+S] Mumbai venkat

VPC dashboard × EC2 Global View Find resources by attribute or tag

Route tables (1/4) Info Last updated 2 minutes ago Actions Create route table

Name	Route table ID	Explicit subnet assoc...	Main
-	<a href="#">rtb-08b0525906d1551ab</a>	-	Yes
-	<a href="#">rtb-0463b061406c3d353</a>	-	Yes
<input checked="" type="checkbox"/> rao-route-1-public	<a href="#">rtb-0f6c20ca400e4bd60</a>	-	No
<input type="checkbox"/> rao-route-2-private	<a href="#">rtb-00ae8063c32314a4a</a>	-	No

rtb-0f6c20ca400e4bd60 / rao-route-1-public

Details Routes Subnet associations Edge associations Route propagation Tags

Explicit subnet associations (0) Edit subnet associations

Find subnet association

Name	Subnet ID	IPv4 CIDR	IPv6 CIDR
No subnet associations			

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56)

57) Select rao-subnet-1-public and clic save associations

Activities Firefox Web Browser Jul 9 17:13

Vpc peering - Google Doc X EditRouteTableSubnetAs X + https://ap-south-1.console.aws.amazon.com/vpcconsole/home?region=ap-south-1#EditRouteTableSubnetAssociations

AWS Services Search [Alt+S] Mumbai venkat

VPC > Route tables > rtb-0f6c20ca400e4bd60 > Edit subnet associations

### Edit subnet associations

Change which subnets are associated with this route table.

**Available subnets (1/2)**

Name	Subnet ID	IPv4 CIDR	IPv6 CIDR	Route table ID
rao-subnet-1-public	subnet-01a33beba708fa57d	10.0.0/24	-	rtb-0f6c20ca400e4bd60 / rao-route-1-public
rao-subnet-2-private	subnet-0204d5aaca7099493	10.0.3.0/24	-	Main (rtb-0463b061406c3d353)

**Selected subnets**

- subnet-01a33beba708fa57d / rao-subnet-1-public X

Cancel Save associations

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58)

59) Select rao-route-1-public click actions

60) Click edit routes

61) Click add route

62) Attach rao -igw

Activities Firefox Web Browser Jul 9 17:14

Vpc peering - Google Doc X RouteTables | VPC Console X + https://ap-south-1.console.aws.amazon.com/vpcconsole/home?region=ap-south-1#RouteTables

AWS Services Search [Alt+S] Mumbai venkat

VPC dashboard X Route tables (1/4) Info Last updated 1 minute ago Actions Create route table

Name	Route table ID	Explicit subnet associations
-	rtb-08b0525906d1551ab	-
-	rtb-0463b061406c3d353	-
<b>rao-route-1-public</b>	<b>rtb-0f6c20ca400e4bd60</b>	<b>subnet-01a33beba708fa57d</b>
rao-route-2-private	rtb-00ae8063c32314a4a	-

**rtb-0f6c20ca400e4bd60 / rao-route-1-public**

Actions View details Set main route table Edit subnet associations Edit edge associations Edit route propagation Edit routes Manage tags Delete route table

Details Routes Subnet associations Edge associations Route propagation Tags

**Details**

Route table ID rtb-0f6c20ca400e4bd60	Main No	Explicit subnet associations subnet-01a33beba708fa57d / rao-subnet-1-public	Edge associations -
---	------------	--	------------------------

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63)

64)

The screenshot shows the 'Edit routes' page for a specific route table. A single route entry is present:

Destination	Target	Status	Propagated
10.0.0.0/16	local	Active	No

Buttons at the bottom include 'Add route', 'Cancel', 'Preview', and 'Save changes'.

65)

The screenshot shows the 'Edit routes' page for a specific route table. A new route entry is being configured:

Destination	Target	Status	Propagated
10.0.0.0/16	local	Active	No
0.0.0.0/0	Internet Gateway	-	No

The 'Target' dropdown is set to 'Internet Gateway'. A search bar shows 'igw-' and a suggestion 'igw-03b538d7f416ef5b6 (rao-igw)' is visible. A 'Remove' button is also present.

- 66) Click save changes  
67) Now select rao-subnet-2-private click actions click edit subnet assassins and select rao-subnet-2-private click save associations

68)

Name	Route table ID	Explicit subnet associations
-	<a href="#">rtb-08b0525906d1551ab</a>	-
-	<a href="#">rtb-0463b061406c3d353</a>	-
rao-route-1-public	<a href="#">rtb-0f6c20ca400e4bd60</a>	<a href="#">subnet-01a33beba</a>
<input checked="" type="checkbox"/> rao-route-2-private	<a href="#">rtb-00ae8063c32314a4a</a>	-

69)

Name	Subnet ID	IPv4 CIDR	IPv6 CIDR	Route table ID
rao-subnet-1-public	<a href="#">subnet-01a33beba708fa57d</a>	10.0.0.0/24	-	<a href="#">rtb-0f6c20ca400e4bd60 / rao-route-1-public</a>
<input checked="" type="checkbox"/> rao-subnet-2-private	<a href="#">subnet-0204d5aaca7099493</a>	10.0.3.0/24	-	<a href="#">Main (rtb-0463b061406c3d353)</a>

- 70) Now create **vpn2** same way but use different ip range
- 71) Vpc click create vpc
- 72) name=**baby-vpc**
- 73) **Ipv4 cidr= 198.0.0.0/16**
- 74) Create vpc

75)

**Resources to create** Info  
Create only the VPC resource or the VPC and other networking resources.

VPC only  VPC and more

**Name tag - optional**  
Creates a tag with a key of 'Name' and a value that you specify.  
baby-vpc

**IPv4 CIDR block** Info  
 IPv4 CIDR manual input  IPAM-allocated IPv4 CIDR block

**IPv4 CIDR**  
198.0.0.0/16  
CIDR block size must be between /16 and /28.

**IPv6 CIDR block** Info  
 No IPv6 CIDR block  IPAM-allocated IPv6 CIDR block  Amazon-provided IPv6 CIDR block  IPv6 CIDR owned by me

**Tenancy** Info  
Default

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76)

**VPC dashboard**

**Your VPCs (1/3)** Info

Name	VPC ID	State	IPv4 CIDR	IPv6 CIDR
-	vpc-0dc954a8e763520b0	Available	172.31.0.0/16	-
rao-vpc	vpc-0cfd33aa4681f099	Available	10.0.0.0/16	-
<b>baby-vpc</b>	<b>vpc-0950e61710b02ae7d</b>	<b>Available</b>	<b>198.0.0.0/16</b>	-

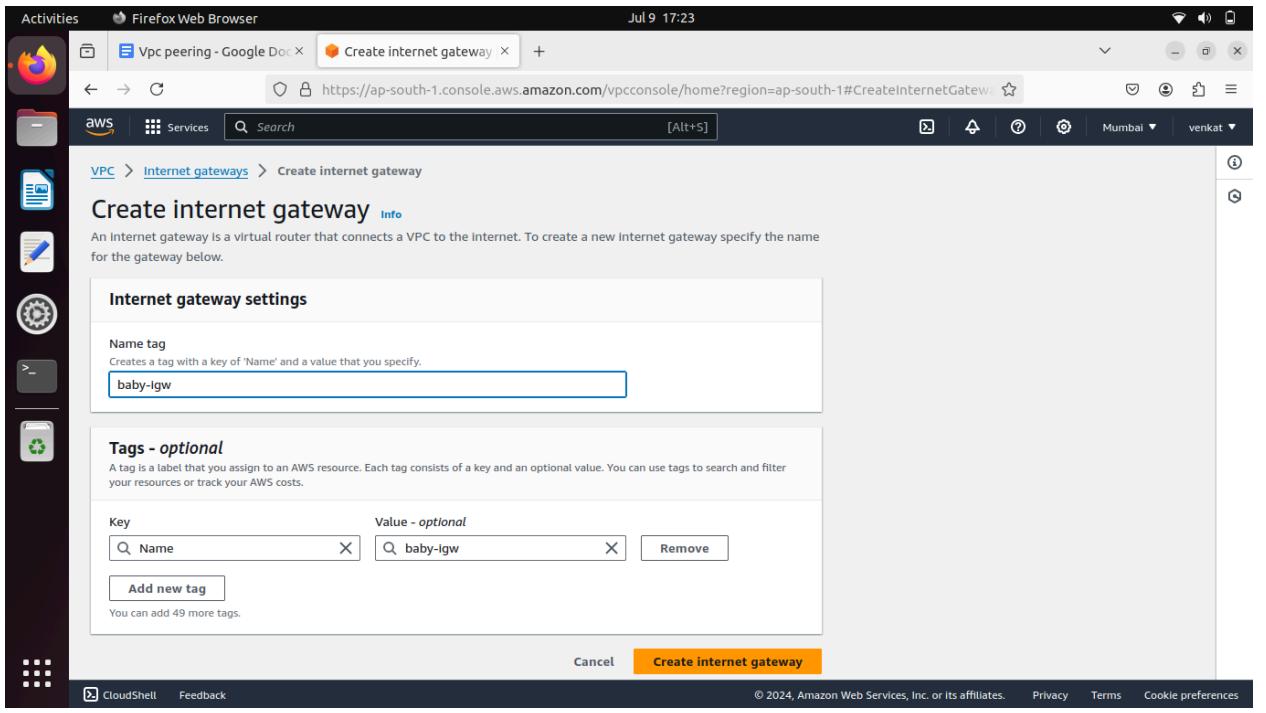
**vpc-0950e61710b02ae7d / baby-vpc**

**Details** | Resource map | CIDs | Flow logs | Tags | Integrations

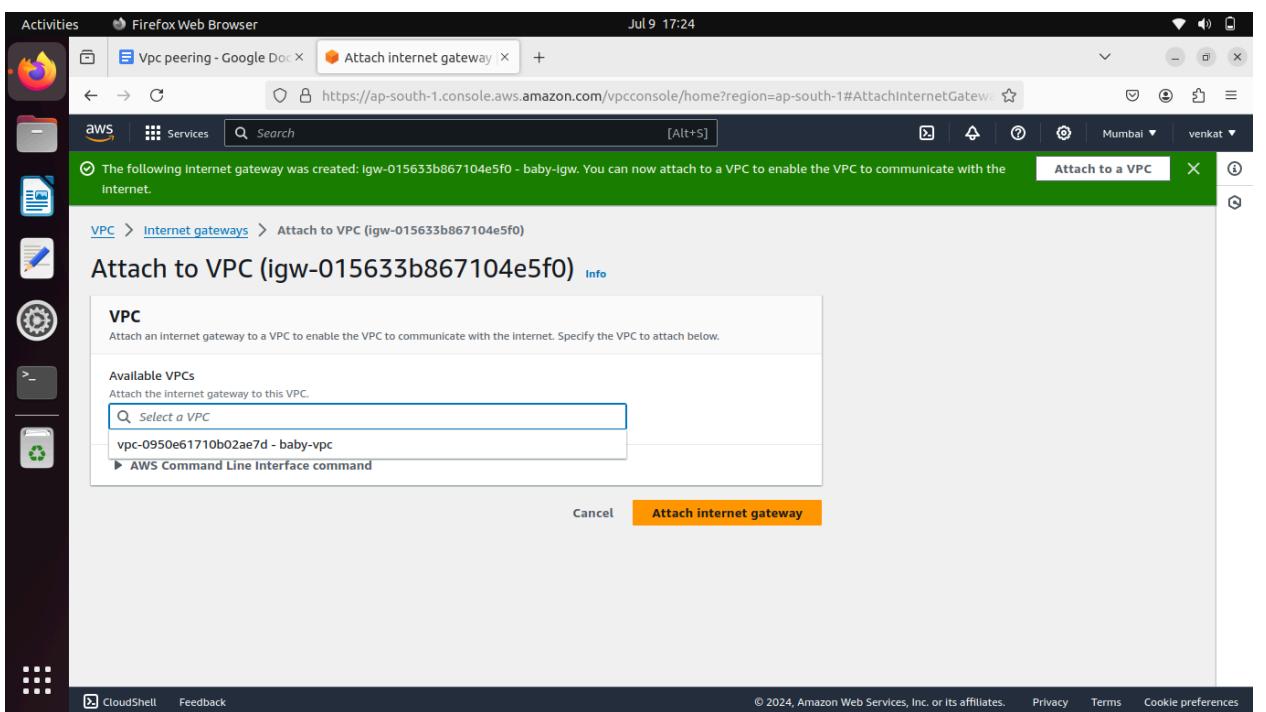
Details				
VPC ID vpc-0950e61710b02ae7d	State Available	DNS hostnames Disabled	DNS resolution Enabled	
Tenancy	DHCP option set	Main route table	Main network ACL	

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77) Now baby-igw and attach to baby-vpc

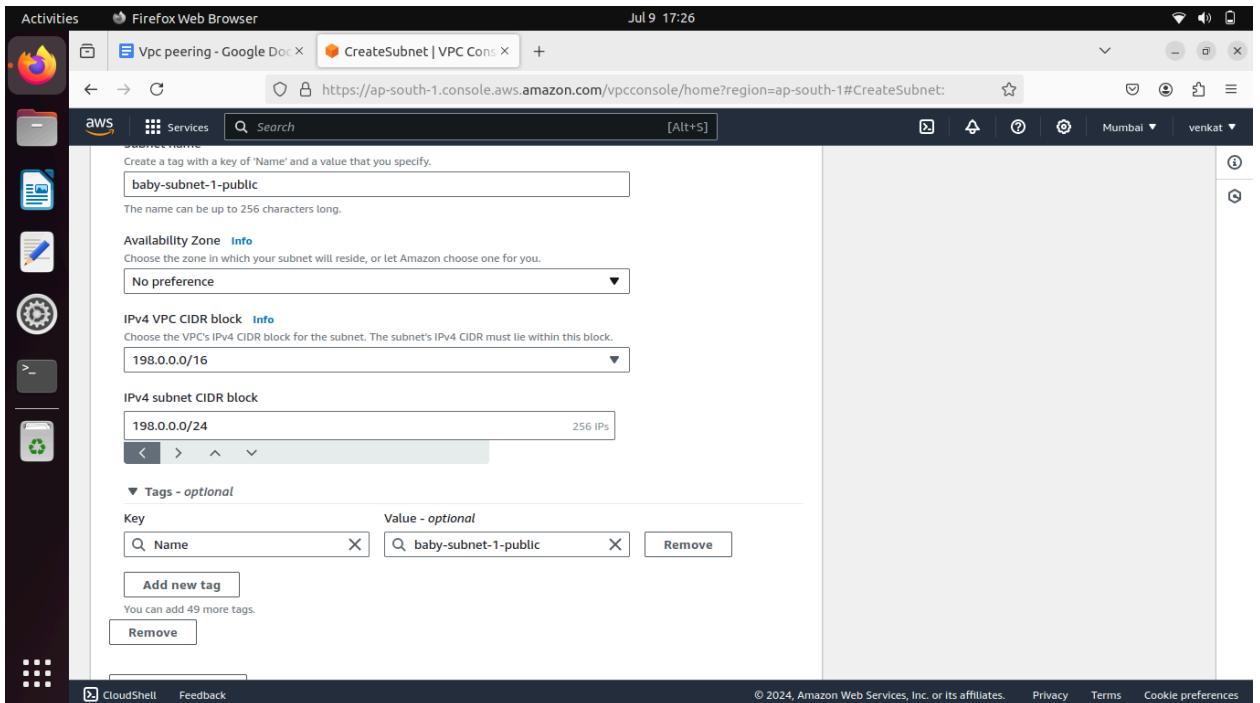


78)



79)

- 80) Now create baby-subnet-1-public
- 81) vpc= baby-vpc
- 82)Ipv4 subnet range=198.0.0.0/24 and click create subnet

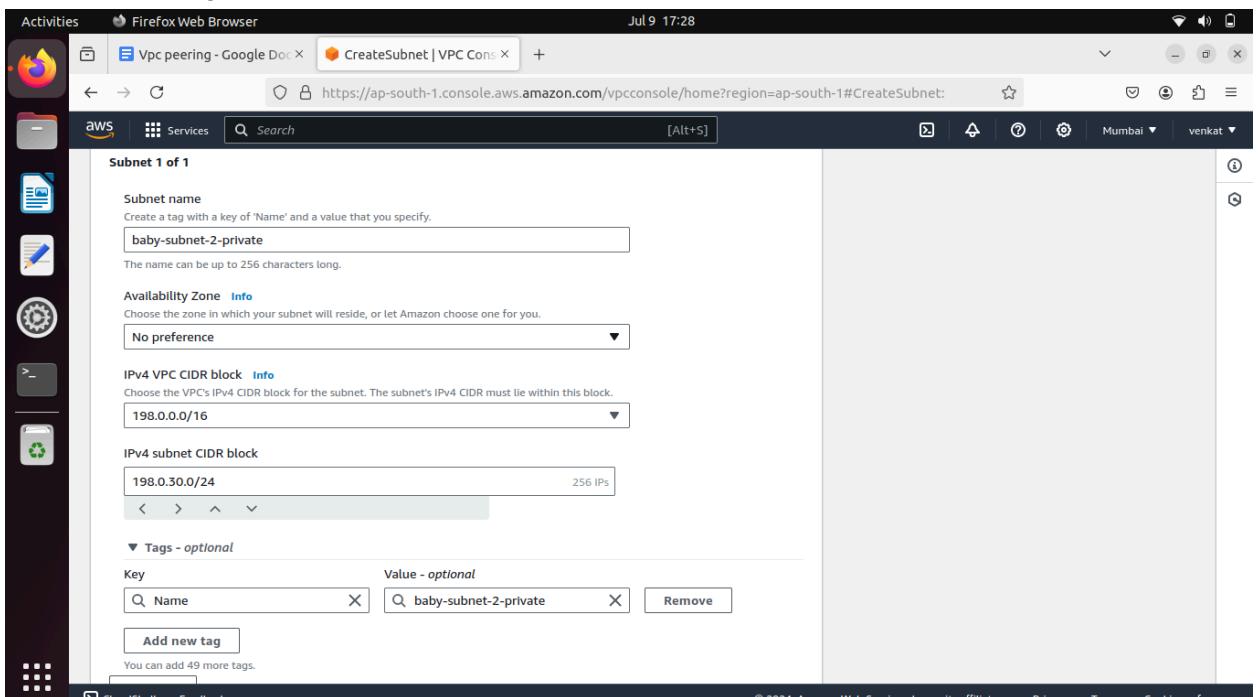


83)

84) Now create baby-subnet-2-private

85) `vpc= baby-vpc`

86) `Ipv4 subnet range=198.0.30.0/24` and click create subnet



87)

Activities Firefox Web Browser Jul 9 17:32

Vpc peering - Google Doc + https://ap-south-1.console.aws.amazon.com/vpcconsole/home?region=ap-south-1#subnets: Mumbai venkat

**VPC dashboard**

**Subnets (7) info**

Last updated 3 minutes ago

**Actions** Create subnet

Name	Subnet ID	State	VPC
rao-subnet-1-public	subnet-01a53beba708fa57d	Available	vpc-0c8cd33aa4681f099   rao-vpc
rao-subnet-2-private	subnet-0204d5aaca7099493	Available	vpc-0c8cd33aa4681f099   rao-vpc
baby-subnet-1-public	subnet-0bc2c92a58d7fac96	Available	vpc-0950e61710b02ae7d   bab...
baby-subnet-2-private	subnet-01d5918ce75d64e58	Available	vpc-0950e61710b02ae7d   bab...

Select a subnet

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88)

89) Create route tables private and public

90) Go to route table

91) name=baby-route-1-public select vpc= baby-vpc create route table

Activities Firefox Web Browser Jul 9 17:33

Vpc peering - Google Doc + https://ap-south-1.console.aws.amazon.com/vpcconsole/home?region=ap-south-1#CreateRouteTable: Mumbai venkat

A route table specifies how packets are forwarded between the subnets within your VPC, the internet, and your VPN connection.

**Route table settings**

**Name - optional**  
Create a tag with a key of 'Name' and a value that you specify.

**VPC**  
The VPC to use for this route table.

**Tags**  
A tag is a label that you assign to an AWS resource. Each tag consists of a key and an optional value. You can use tags to search and filter your resources or track your AWS costs.

Key	Value - optional
<input type="text" value="Name"/>	<input type="text" value="baby-route-1-public"/> Remove

Add new tag  
You can add 49 more tags.

Cancel Create route table

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92)

93) Create route 2 name=baby-route-2-private select vpc=baby-vpc click create route table

94)

**Route table settings**

Name - optional  
Create a tag with a key of 'Name' and a value that you specify.

VPC  
The VPC to use for this route table.

**Tags**  
A tag is a label that you assign to an AWS resource. Each tag consists of a key and an optional value. You can use tags to search and filter your resources or track your AWS costs.

Key	Value - optional
<input type="text" value="Name"/>	<input type="text" value="baby-route-2-private"/>

**Create route table**

95)

**Route tables (7) Info**

Name	Route table ID	Explicit subnet associations	Edge associations	Main
rao-route-2-private	<a href="#">rtb-00ae8063c32314a4a</a>	<a href="#">subnet-0204d5aaca7099...</a>	-	No
-	<a href="#">rtb-08b0525906d1551ab</a>	-	-	Yes
rao-route-1-public	<a href="#">rtb-0f6c20ca400e4bd60</a>	<a href="#">subnet-01a33beba708fa...</a>	-	No
baby-route-1-public	<a href="#">rtb-01c9d2bf4e0818d9d</a>	-	-	No
-	<a href="#">rtb-0174ff92d17c30101</a>	-	-	Yes
baby-route-2-private	<a href="#">rtb-0aee52ec1eb6f2d7e</a>	-	-	No

- 96) Select baby-route-1-public and click actions and select edit subnet associations and select baby-subnet-1-public and click save associates

97)

The screenshot shows the AWS VPC dashboard with the 'Route tables' section selected. A context menu is open over the row for 'baby-route-1-public'. The 'Actions' menu is expanded, and 'Edit subnet associations' is highlighted.

Name	Route table ID	Explicit subnet associations
-	<a href="#">rtb-0463b061406c3d353</a>	-
rao-route-2-private	<a href="#">rtb-00ae0063c32314a4a</a>	<a href="#">subnet-0204d5aa</a>
-	<a href="#">rtb-08b0525906d1551ab</a>	-
rao-route-1-public	<a href="#">rtb-0f6c20ca400e4bd60</a>	<a href="#">subnet-01a33beb</a>
baby-route-1-public	<a href="#">rtb-01c9d2bf4e0818d9d</a>	-
-	<a href="#">rtb-0174ff92d17c30101</a>	-

98)

The screenshot shows the 'Edit subnet associations' dialog for the 'rtb-01c9d2bf4e0818d9d' route table. The 'Available subnets' table shows two entries: 'baby-subnet-1-public' and 'baby-subnet-2-private'. The 'Selected subnets' list contains 'baby-subnet-1-public'. The 'Save associations' button is highlighted.

Name	Subnet ID	IPv4 CIDR	IPv6 CIDR	Route table ID
<input checked="" type="checkbox"/> baby-subnet-1-public	<a href="#">subnet-0bc2c92a58d7fac96</a>	198.0.0.0/24	-	Main (rtb-0174ff92d17c30101)
<input type="checkbox"/> baby-subnet-2-private	<a href="#">subnet-01d5918ce75d64e58</a>	198.0.30.0/24	-	Main (rtb-0174ff92d17c30101)

**Selected subnets**

subnet-0bc2c92a58d7fac96 / baby-subnet-1-public X

Cancel **Save associations**

- 99) Select baby-route-2- private and click actions and select edit subnet associations and select baby-subnet-2-private and click save associates

100)

Activities Firefox Web Browser

Route tables | VPC Manager X Vpc peering - Google Doc X Jul 9 17:39

https://ap-south-1.console.aws.amazon.com/vpcconsole/home?region=ap-south-1#RouteTables:

VPC dashboard

You have successfully updated subnet associations for rtb-01c9d2bf4e0818d9d / baby-route-1-public.

Route tables (1/7) info

Name	Route table ID	Explicit subnet associations
rao-route-2-private	rtb-00ae8063c52314a4a	subnet-0204d5aa
-	rtb-08b0525906d1551ab	-
rao-route-1-public	rtb-0f6c20ca400e4bd60	subnet-01a33beb
baby-route-1-public	rtb-01c9d2bf4e0818d9d	subnet-0bc2c92a5
-	rtb-0174ff92d17c30101	-
<input checked="" type="checkbox"/> baby-route-2-private	rtb-0aee32ec1eb6f2d7e	-

Actions ▾ Create route table

- View details
- Set main route table
- Edit subnet associations
- Edit edge associations
- Edit route propagation
- Edit routes
- Manage tags
- Delete route table

rtb-0aee32ec1eb6f2d7e / baby-route-2-private

Details Routes Subnet associations Edge associations Route propagation Tags

Details

Route table ID Main Explicit subnet associations Edge associations

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101)

Activities Firefox Web Browser

EditRouteTableSubnetAssociations X Vpc peering - Google Doc X Jul 9 17:40

https://ap-south-1.console.aws.amazon.com/vpcconsole/home?region=ap-south-1#EditRouteTableSubnetAssociations:

VPC > Route tables > rtb-0aee32ec1eb6f2d7e > Edit subnet associations

### Edit subnet associations

Change which subnets are associated with this route table.

Available subnets (1/2)

Name	Subnet ID	IPv4 CIDR	IPv6 CIDR	Route table ID
baby-subnet-1-public	subnet-0bc2c92a58d7fac96	198.0.0.0/24	-	rtb-01c9d2bf4e0818d9d / baby-route-1-public
<input checked="" type="checkbox"/> baby-subnet-2-private	subnet-01d5918ce75d64e58	198.0.30.0/24	-	Main (rtb-0174ff92d17c30101)

Selected subnets

subnet-01d5918ce75d64e58 / baby-subnet-2-private X

Cancel Save associations

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You have successfully updated subnet associations for rtb-0aee32ec1eb6f2d7e / baby-route-2-private.

Name	Route table ID	Explicit subnet assoc...	Edge associations	Main
rao-route-2-private	rtb-00ae08063c52314a4a	subnet-0204d5aaca7099...	-	No
-	rtb-08b0525906d1551ab	-	-	Yes
rao-route-1-public	rtb-0f6c20ca400e4bd60	subnet-01a33beba708fa...	-	No
baby-route-1-public	rtb-01c9d2bf4e081bd9d	subnet-0bc2c92a58d7fac...	-	No
-	rtb-0174ff92d17c30101	-	-	Yes
<b>baby-route-2-private</b>	<b>rtb-0aee32ec1eb6f2d7e</b>	<b>subnet-01d5918ce75d64...</b>	-	No

- 102)
- 103) Now go to ec2 and create ec2 instance using rao-vpc and login it
- 104) Ec2 and click launch instance
- 105) name=rao
- 106) Click create new key pair name=rao create

Create key pair

**Key pair name**  
Key pairs allow you to connect to your instance securely.

**Key pair type**

- RSA  
RSA encrypted private and public key pair
- ED25519  
ED25519 encrypted private and public key pair

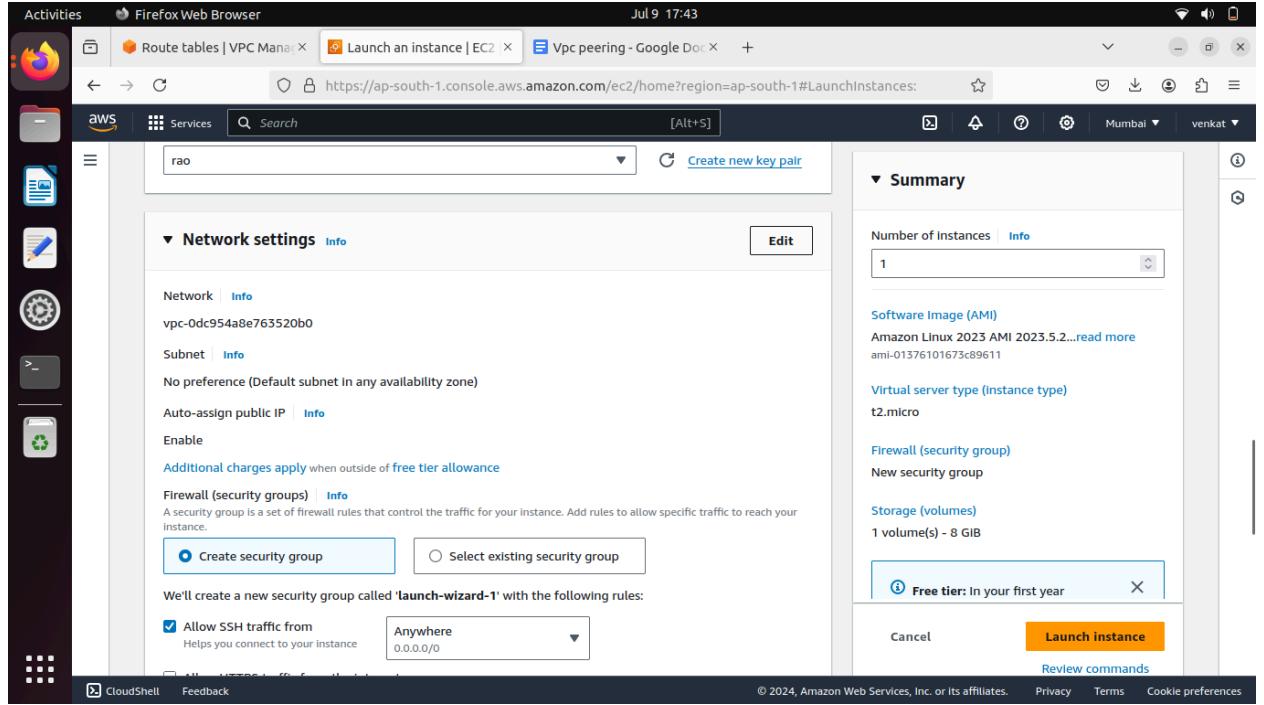
**Private key file format**

- .pem  
For use with OpenSSH
- .ppk  
For use with PuTTY

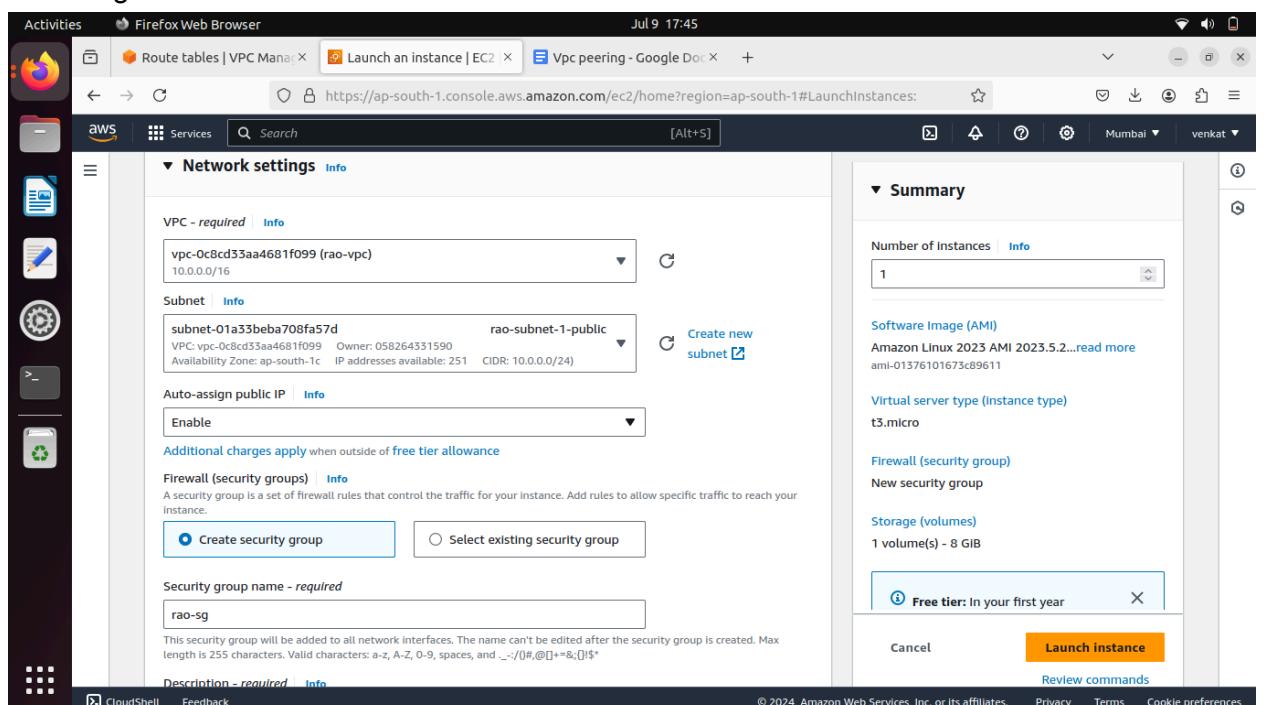
**When prompted, store the private key in a secure and accessible location on your computer. You will need it later to connect to your instance.**

**Create key pair**

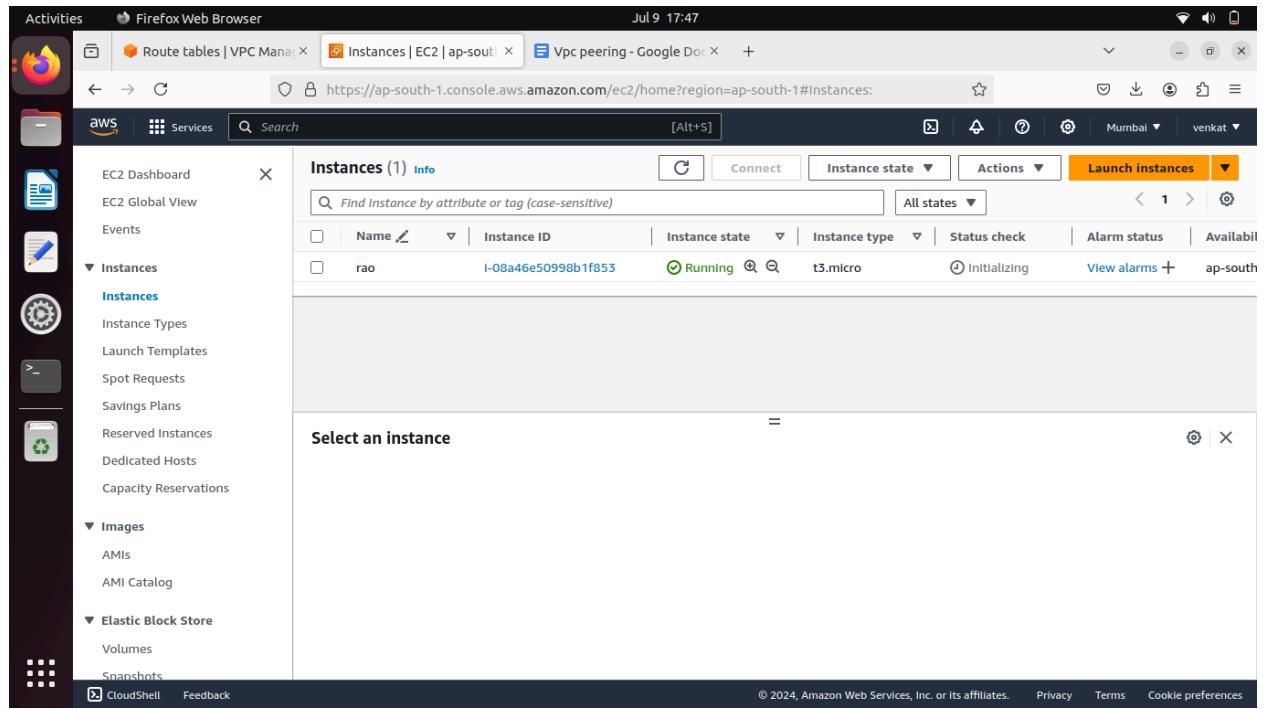
- 107)



- 108)
- 109) Click edit networking settings
- 110)  $vpc=rao-vpc$
- 111) Subnet = public one and select associate ip = enable and create security group name='rao-sg'



- 112)
- 113) Click launch instance



114)

115) Login it

116) And install nginx

```
Activities Terminal Jul 9 17:50
ec2-user@ip-10-0-0-137:~$ cd Downloads/
challa@challa-HP-Laptop-15-da0xxx:~/Downloads$ ll
total 12
drwxr-xr-x  2 challa challa 4096 Jul  9 17:42 .
drwxr-x--- 17 challa challa 4096 Jul  9 14:32 ..
-rw-rw-r--  1 challa challa 1678 Jul  9 17:42 rao.pem
challa@challa-HP-Laptop-15-da0xxx:~/Downloads$ chmod 400 rao.pem
challa@challa-HP-Laptop-15-da0xxx:~/Downloads$ ssh -i "rao.pem" ec2-user@15.207.101.200
The authenticity of host '15.207.101.200 (15.207.101.200)' can't be established.
ED25519 key fingerprint is SHA256:UMLz0l70sc70D8kAPdK74cEApCbQRw/2BJHT+8YWcg.
This key is not known by any other names
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '15.207.101.200' (ED25519) to the list of known hosts.

,
#_
~\_ #####
~~ \#####
~~ \###|
~~ \#/ __>
~~ \~-'-
~~ \~-. /
```

117)

118)  
119)

```
Activities Terminal Jul 9 17:51
[ec2-user@ip-10-0-0-137 ~]$ sudo -i
[root@ip-10-0-0-137 ~]# hostnamectl set-hostname rao
[root@ip-10-0-0-137 ~]# exec bash
[root@rao ~]#
```

120)  
121)  
122)  
123)  
124)

```
Activities Terminal Jul 9 17:53
[root@rao ~]# yum update -y
Last metadata expiration check: 0:05:38 ago on Tue Jul 9 12:18:03 2024.
Dependencies resolved.
Nothing to do.
Complete!
[root@rao ~]# yum install nginx
```

120)  
121) #yum nginx -y  
122) Now go to #cd /user/share/nginx/html  
123) #rm -f index.html  
124) #vi index.html (inside write <h1>this rao server<h1>) and save it

Activities Terminal Jul 9 18:01 root@ip-10-0-0-137:/usr/share/nginx/html

```
[root@rao ~]# cd /usr/share/nginx/html/
[root@rao html]# ll
total 16
-rw-r--r--. 1 root root 3650 Oct 13 2023 404.html
-rw-r--r--. 1 root root 3693 Oct 13 2023 50x.html
drwxr-xr-x. 2 root root 27 Jul 9 12:24 icons
-rw-r--r--. 1 root root 615 Oct 13 2023 index.html
-rw-r--r--. 1 root root 368 Oct 13 2023 nginx-logo.png
lrwxrwxrwx. 1 root root 14 Oct 13 2023 poweredby.png -> nginx-logo.png
[root@rao html]# rm -f index.html
[root@rao html]# ll
total 12
-rw-r--r--. 1 root root 3650 Oct 13 2023 404.html
-rw-r--r--. 1 root root 3693 Oct 13 2023 50x.html
drwxr-xr-x. 2 root root 27 Jul 9 12:24 icons
-rw-r--r--. 1 root root 368 Oct 13 2023 nginx-logo.png
lrwxrwxrwx. 1 root root 14 Oct 13 2023 poweredby.png -> nginx-logo.png
[root@rao html]# vi index.html
```

125)

Activities Terminal Jul 9 18:02 root@ip-10-0-0-137:/usr/share/nginx/html

```
<h1>this is rao server<h1>
```

"index.html" 1L, 27B 1,26 All

126)

127) Now check #systemctl status nginx

128) #systemctl restart/start nginx

```
Activities Terminal Jul 9 18:15
root@ip-10-0-0-137:/usr/share/nginx/html

[root@rao ~]# vi index.html
[root@rao html]# systemctl status nginx
● nginx.service - The nginx HTTP and reverse proxy server
   Loaded: loaded (/usr/lib/systemd/system/nginx.service; disabled; preset: disabled)
   Active: inactive (dead)

[root@rao html]# systemctl start nginx
[root@rao html]# systemctl status nginx
● nginx.service - The nginx HTTP and reverse proxy server
   Loaded: loaded (/usr/lib/systemd/system/nginx.service; disabled; preset: disabled)
   Active: active (running) since Tue 2024-07-09 12:43:02 UTC; 2s ago
     Process: 25667 ExecStartPre=/usr/bin/rm -f /run/nginx.pid (code=exited, status=0/SUCCESS)
     Process: 25671 ExecStartPre=/usr/sbin/nginx -t (code=exited, status=0/SUCCESS)
     Process: 25685 ExecStart=/usr/sbin/nginx (code=exited, status=0/SUCCESS)
   Main PID: 25713 (nginx)
      Tasks: 3 (limit: 1060)
     Memory: 2.9M
        CPU: 79ms
      CGroup: /system.slice/nginx.service
              ├─25713 "nginx: master process /usr/sbin/nginx"
              ├─25714 "nginx: worker process"
              ├─25715 "nginx: worker process"
```

129)

130) Select rao server click security

The screenshot shows the AWS EC2 Instances page. On the left, there's a sidebar with various services like EC2 Dashboard, EC2 Global View, Events, Instances, Images, and Elastic Block Store. The 'Instances' section is expanded, showing 'Instances (1/1)'. The main area displays a table with one row for 'rao'. The 'rao' row has a checkmark in the first column and columns for Name (rao), Instance ID (i-08a46e50998b1f853), Instance state (Running), Instance type (t3.micro), Status check (2/2 checks passed), and Alarm status (View alarms). Below the table, a modal window is open for the instance 'i-08a46e50998b1f853 (rao)'. The 'Security' tab is selected in the modal header. Under the 'Security details' section, it shows IAM Role (empty), Owner ID (058264331590), and Launch time (Tue Jul 09 2024 17:47:20 GMT+0530 (India Standard Time)). It also lists Security groups: 'sg-01031fdeb8c0ec065 (rao-sg)'.

131)

132) Click rao-sg

133) Click edit inbound rules

134) Add rule add http port 80 save changes

Activities Firefox Web Browser Jul 9 18:05

Route tables | VPC Manager Instances | EC2 | ap-south-1 Vpc peering - Google Doc New Tab

https://ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#Instances:

EC2 Dashboard Services Search [Alt+S]

Instances (1/1) Info

Find Instance by attribute or tag (case-sensitive)

All states

Name Instance ID Instance state Instance type Status check Alarm status Av

rao i-08a46e50998b1f853 Running t3.micro 2/2 checks passed View alarms + ap

i-08a46e50998b1f853 (rao)

IAM Role Owner ID

Security groups Owner ID

sg-01031fdb8c0ec065 (rao-sg)

Launch time

Tue Jul 09 2024 17:47:20 GMT+0530 (India Standard Time)

Inbound rules Filter rules

135) https://ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#SecurityGroup:securityGroupId=sg-01031fdb8c0ec065

Activities Firefox Web Browser Jul 9 18:07

Route tables | VPC Manager SecurityGroup | EC2 | ap-south-1 Vpc peering - Google Doc New Tab

https://ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#SecurityGroup:securityGroupID=sg-01031fdb8c0ec065

EC2 Dashboard Services Search [Alt+S]

Details

Security group name Security group ID Description VPC ID

rao-sg sg-01031fdb8c0ec065 launch-wizard-1 created vpc-0c8cd33aa4681f099

Owner Inbound rules count Outbound rules count

058264331590 1 Permission entry 1 Permission entry

Inbound rules Outbound rules Tags

Inbound rules (1)

Search

Name Security group rule... IP version Type Protocol

- sgr-0b690a029204f09... IPv4 SSH TCP

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137)

Inbound rules

Security group rule ID	Type	Protocol	Port range	Source	Description - optional
sgr-0b690a029204f0956	SSH	TCP	22	Cus... 0.0.0.0/0	Info Delete

Rules with source of 0.0.0.0/0 or ::/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only.

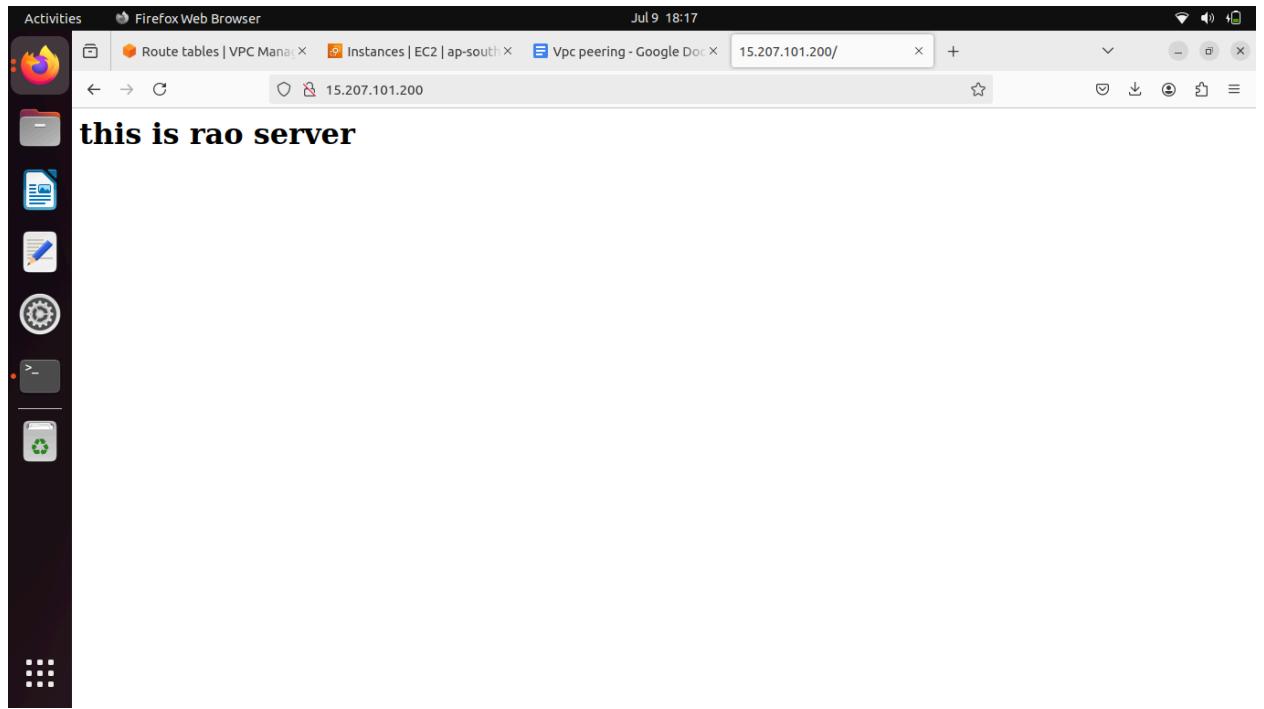
Cancel

Preview changes

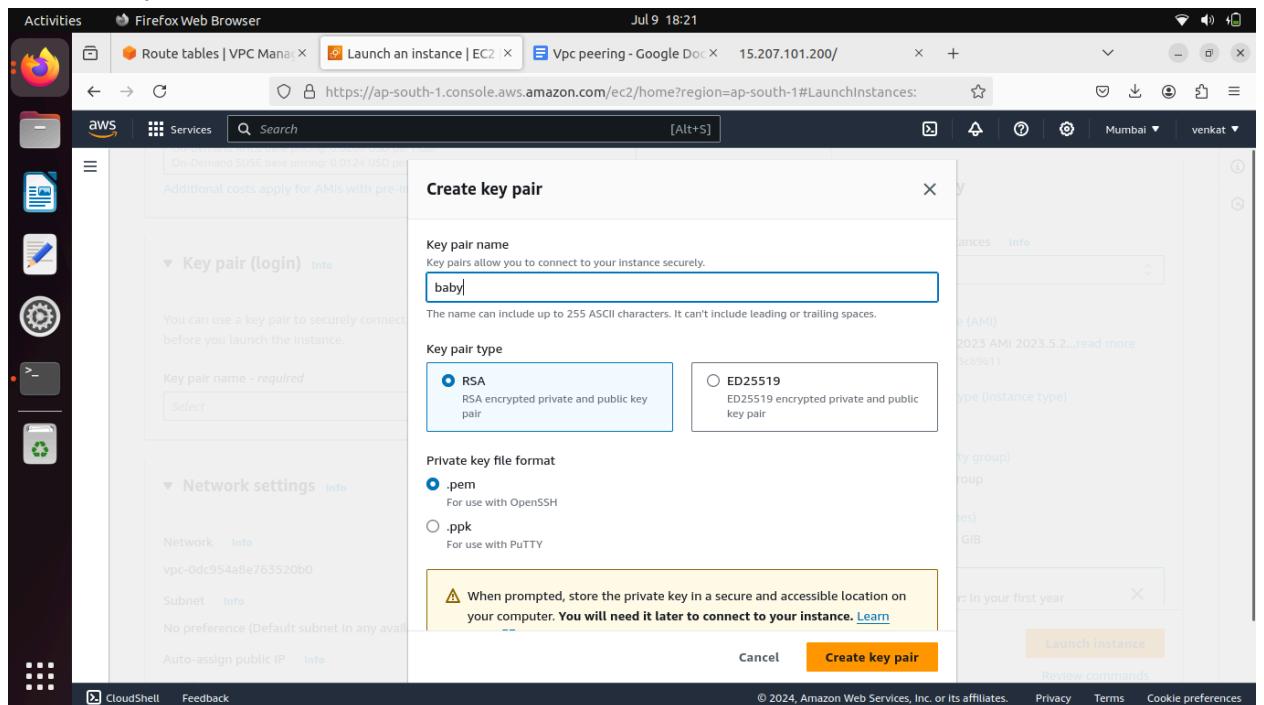
Save rules

138)

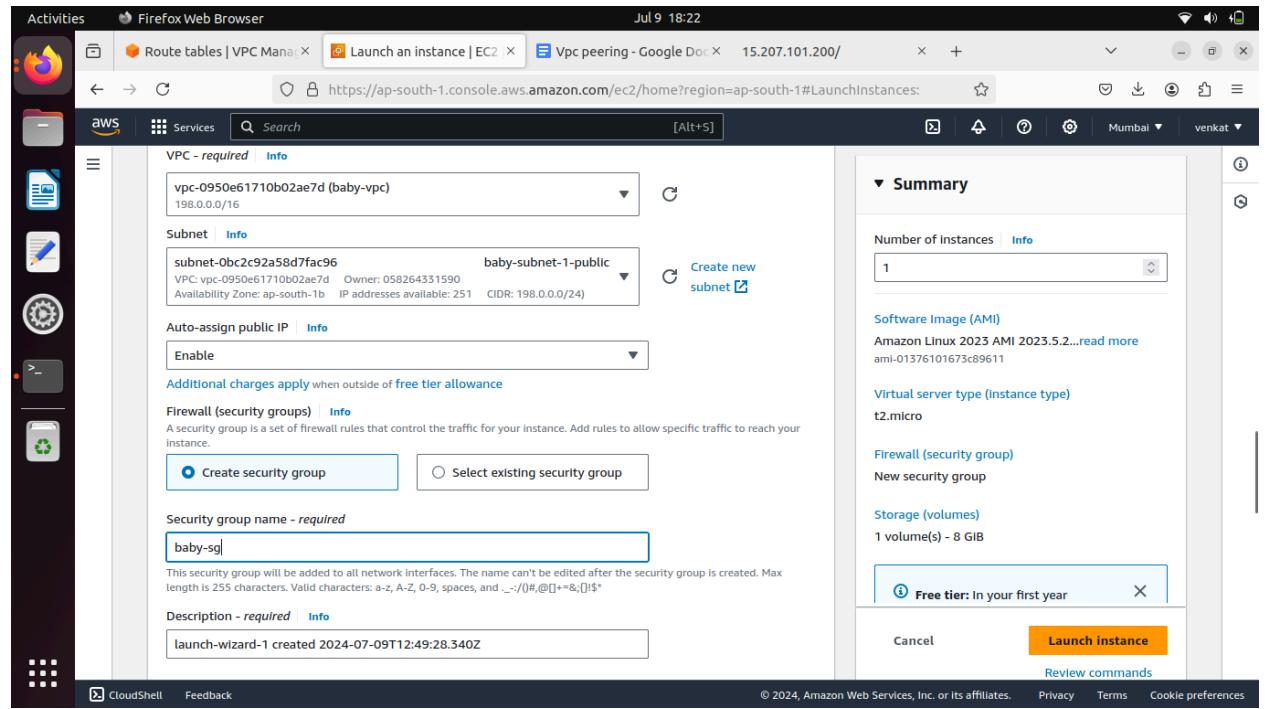
139) Now take rao public ip and paste in google 15.207.101.200:80 enter



- 140)  
141) Now crete another server and attach with baby vpc and connect and install nginx  
142) name=baby

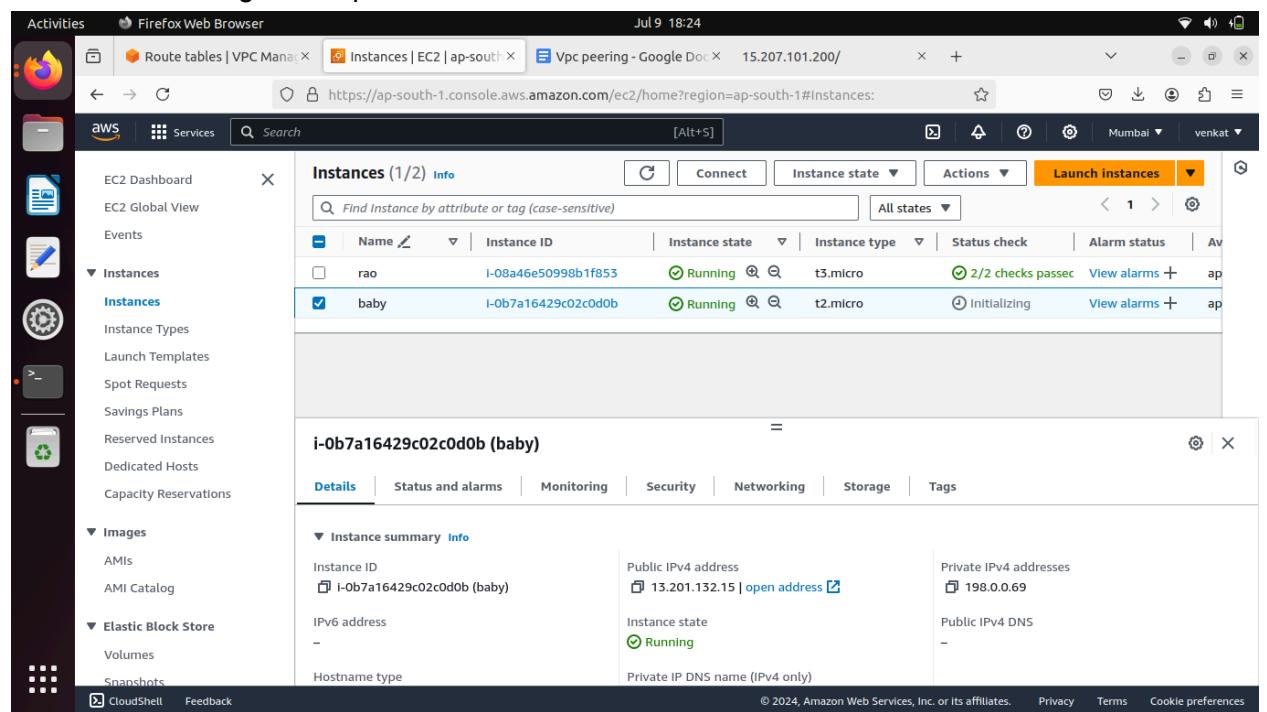


- 143)



144)

145) Click add rule in sg add http and launch instance



146)

147) Connect it install nginx

148) And remove old index file and create your index file take public ip check in google

149)

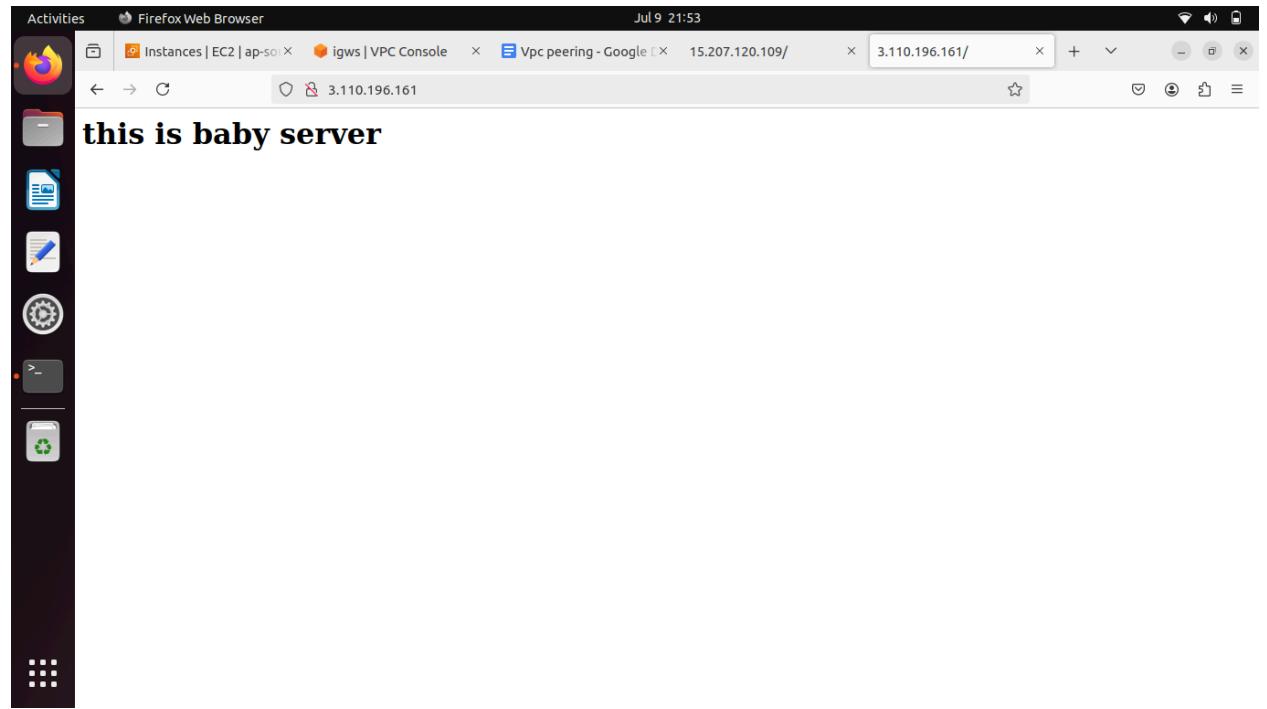
```
[ec2-user@ip-198-0-0-217 ~]$ sudo -i  
[root@ip-198-0-0-217 ~]# hostnamectl set-hostname baby  
[root@ip-198-0-0-217 ~]# exec bash  
[root@baby ~]# yum update -y  
Amazon Linux 2023 repository  
Amazon Linux 2023 Kernel Livepatch repository  
Dependencies resolved.  
Nothing to do.  
Complete!  
[root@baby ~]# yum install nginx -y
```

150)

```
<h1>this is baby server</h1>
```

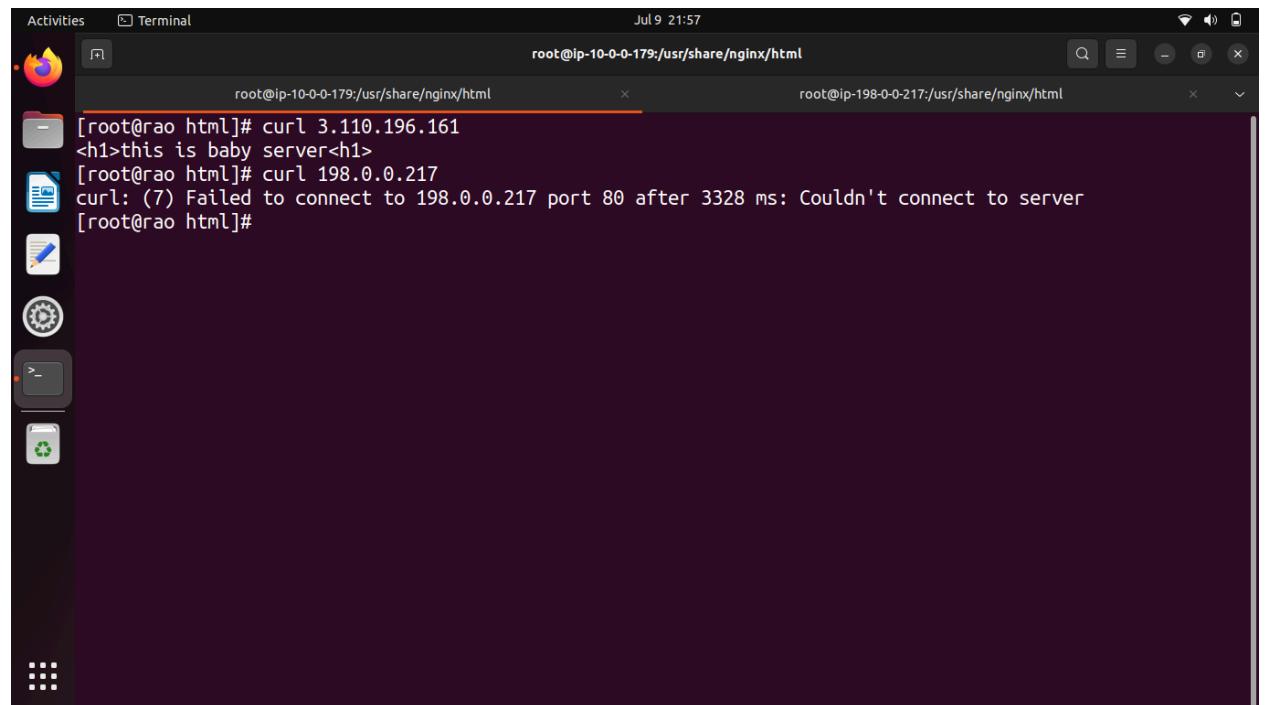
151)

Take baby ip and paste google



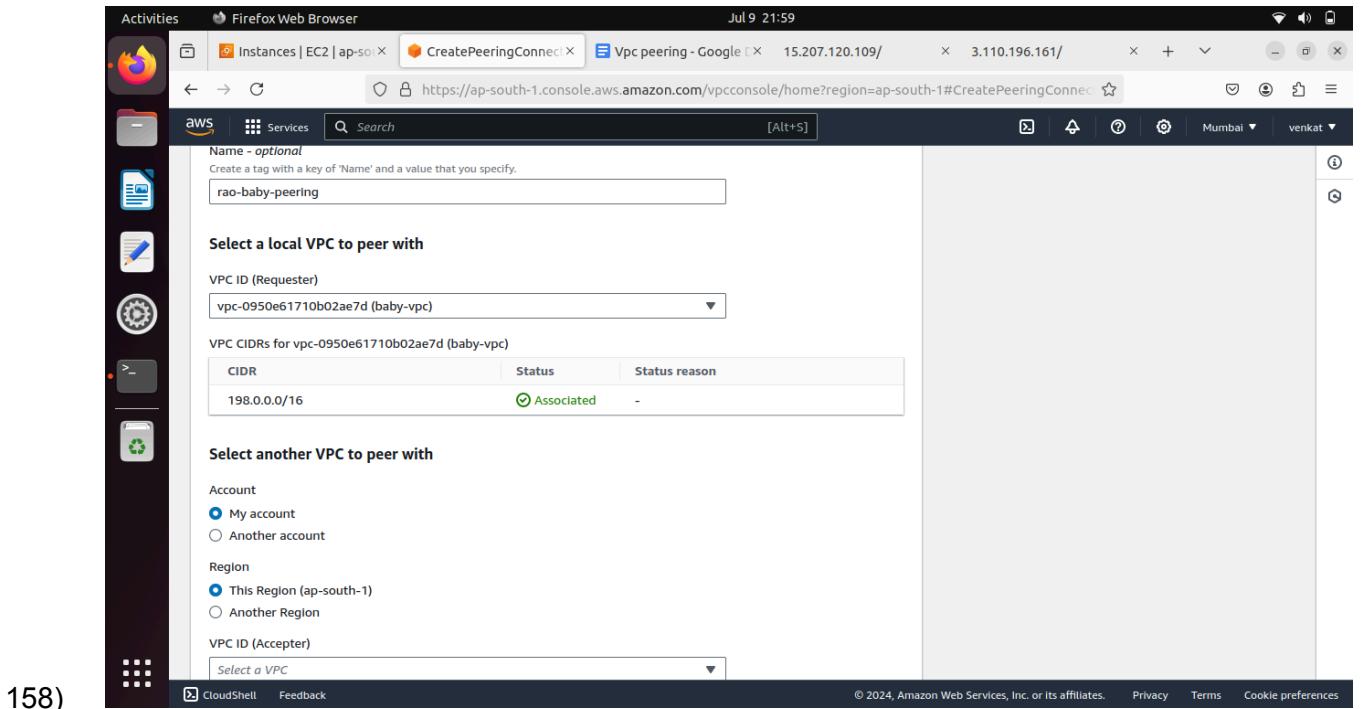
152)

- 153) Now take private ip login rao sever #curl baby sever private ip its ping connection establish other wise not establish

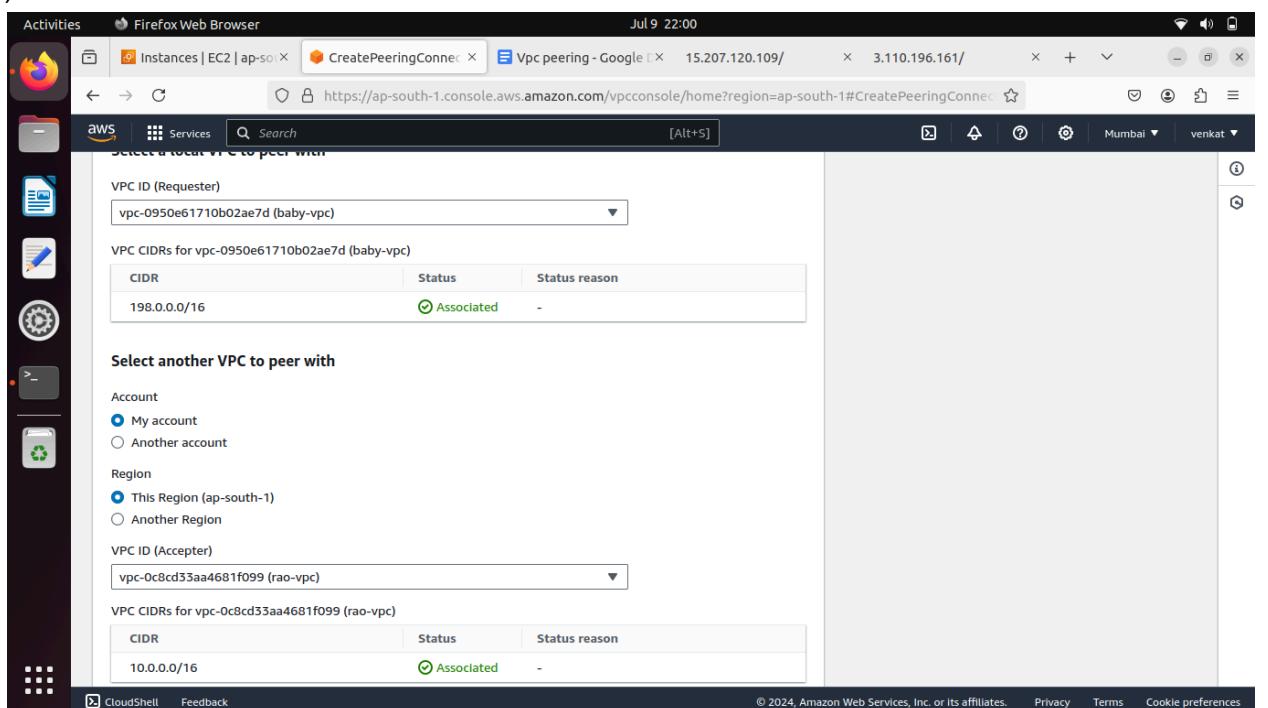


154)

- 155) Now start peering process  
156) Go to vpc go to peering connection  
157) Create peering connection



158)



- 159) name=baby-rao-peer  
160) Request vpc =baby-vpc  
161) My account  
162) This region  
163) Request vpc= baby-vpc  
164) Create peering  
165) Select baby-rao-peering click actions click accept request

The screenshot shows the AWS VPC dashboard with the 'Peering connections' section selected. A single peering connection is listed:

- Name:** baby-rao-peering
- Peering connection ID:** pcx-0887892890c023818
- Status:** Pending

An action menu is open on the right, showing options like 'Accept request', 'Reject request', 'Edit DNS settings', 'Manage tags', and 'Delete peering connection'. A modal window titled 'pcx-0887892890c023818 / baby-rao-peering' indicates the connection is pending acceptance, with a deadline of Tuesday, July 16, 2024 at 22:04:00 GMT+5:30.

The screenshot shows the 'Accept VPC peering connection request' dialog box. It displays the following information:

- Requester VPC:** vpc-0950e61710b02ae7d / baby-vpc
- Acceptor VPC:** vpc-0c8cd33aa4681f099 / rao-vpc
- Requester CIDR:** 198.0.0.0/16
- Acceptor CIDR:** 198.0.0.0/16
- Requester Region:** Mumbai (ap-south-1)
- Acceptor Region:** Mumbai (ap-south-1)
- Requester owner ID:** 058264331590 (This account)
- Acceptor owner ID:** 058264331590 (This account)

At the bottom, there are 'Cancel' and 'Accept request' buttons, with 'Accept request' being highlighted.

- 166) Now go to route table
- 167) Select rao-route-1-public click actions edit routes and add route duration=use here  
baby vpc ip and target=peering select baby-rao-peering save changes

A screenshot of the AWS VPC Edit Routes interface. The page title is "Edit routes" under "Route tables". The URL is https://ap-south-1.console.aws.amazon.com/vpcconsole/home?region=ap-south-1#EditRoutes:RouteTableId=rtb-0f6c20ca400e4bd60. The main area shows a table with columns: Destination, Target, Status, and Propagated. There are three existing routes: 10.0.0.0/16 to "local" (Status: Active, Propagated: No), 0.0.0.0/0 to "Internet Gateway" (Status: Active, Propagated: No), and 198.0.0.0/16 to "Peering Connection" (Status: -, Propagated: No). A new route is being added to "Peering Connection" with the target "ppx-0887892890c023818 (baby-rao-peering)". The "Save changes" button is highlighted in orange at the bottom right.

168)

- 169) Select rao-route-2-private click actions select edit routes add route ip= baby vpc ip and target baby-rao-peering select and save changes

A screenshot of the AWS VPC Edit Routes interface for route table rtb-00ae8063c32314a4a. The table shows two existing routes: 10.0.0.0/16 to "local" (Status: Active, Propagated: No) and 198.0.0.0/16 to "Peering Connection" (Status: -, Propagated: No). A new route is being added to "Peering Connection" with the target "ppx-0887892890c023818". The "Save changes" button is highlighted in orange at the bottom right.

170)

- 171) Now select baby-route-1-public click actions select edit routes and add route duration=use here rao vpc ip and target=peering select baby-rao-peering save changes

The screenshot shows the 'Edit routes' page for a specific route table. There are two entries:

Destination	Target	Status	Propagated
198.0.0.0/16	local	Active	No
Q 0.0.0.0/0	Internet Gateway	Active	No
Q 10.0.0.0/16	Peering Connection	-	No
Q pcx-0887892890c023818			Remote

Buttons at the bottom include 'Add route', 'Cancel', 'Preview', and 'Save changes'.

172)

- 173) Select baby-route-2-private click actions select edit routes add route ip= rao vpc ip and target baby-rao-peering select and save changes

The screenshot shows the 'Edit routes' page for a specific route table. There is one entry:

Destination	Target	Status	Propagated
198.0.0.0/16	local	Active	No
Q 10.0.0.0/16	Peering Connection	-	No
Q pcx-0887892890c023818			Remote

Buttons at the bottom include 'Add route', 'Cancel', 'Preview', and 'Save changes'.

174)

- 175) Now take baby server private ip and login rao server use #curl baby server private ip  
176) #curl 198.0.0.217  
177) If peer success you get this is baby server

```
root@ip-10-0-0-179:/usr/share/nginx/html
[root@rao html]# curl 3.110.196.161
<h1>this is baby server</h1>
[root@rao html]# curl 198.0.0.217
curl: (7) Failed to connect to 198.0.0.217 port 80 after 3328 ms: Couldn't connect to server
[root@rao html]# curl 198.0.0.217
<h1>this is baby server</h1>
[root@rao html]#
```

178)

179) Login baby server and take rao server private ip #curl rao server private ip

180) #curl 10.0.0.179

```
root@ip-10-0-0-179:/usr/share/nginx/html
[root@rao html]# curl 3.110.196.161
<h1>this is baby server</h1>
[root@rao html]# curl 198.0.0.217
curl: (7) Failed to connect to 198.0.0.217 port 80 after 3328 ms: Couldn't connect to server
[root@rao html]# curl 198.0.0.217
<h1>this is baby server</h1>
[root@rao html]# curl 10.0.0.179
<h1>this rao server</h1>
[root@rao html]#
```

181)

182) Same this we add different account and different region also this changes happen  
only on peering connection created time other steps all same

=====