

CROSS ACCOUNT VPC PEERING (ACCOUNT 1 PEER ACCOUNT 2)

Create one VPC in account A and second VPC in account B, create VPC peering between them.

STEP 1 : Create a VPC

- We have a VPC with a CIDR 10.0.0.0/16
- Hence we have create a ACCOUNT-1 VPC in RAJ AWS 06

Create VPC [Info](#)

A VPC is an isolated portion of the AWS Cloud populated by AWS objects, such as Amazon EC2 instances.

VPC settings

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.

ACCOUNT - 1

IPv4 CIDR block [Info](#)
☒ IPv4 CIDR manual input
☐ IPAM-allocated IPv4 CIDR block

IPv4 CIDR
10.0.0.0/16
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

h [Alt+S] Mumbai RAJ AWS 06

Your VPCs (1) [Info](#)

Q Search

Name: ACCOUNT-1 X Clear filters

<input type="checkbox"/>	Name	VPC ID	State	IPv4 CIDR	IPv6 CIDR	DHCP option set	Main route table	Main network ACL	Tenancy	De
<input type="checkbox"/>	ACCOUNT - 1	vpc-0ced17a7b7116ea0	Available	10.0.0.0/16	-	dopt-08d762503c9db...	-	-	Default	No

Mumbai RAJ AWS 06

Create VPC

- We have a VPC with a CIDR 10.2.0.0/16
- Hence we have create a ACCOUNT-2 VPC in Nikhil Malusare

Create VPC [Info](#)

A VPC is an isolated portion of the AWS Cloud populated by AWS objects, such as Amazon EC2 instances.

VPC settings

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.

ACCOUNT - 2

IPv4 CIDR block [Info](#)

☒ IPv4 CIDR manual input

☐ IPAM-allocated IPv4 CIDR block

IPv4 CIDR

10.2.0.0/16

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

Your VPCs (1) Info							
<input type="checkbox"/>	Name	VPC ID	State	IPv4 CIDR	IPv6 CIDR	DHCP option set	Main route table
<input type="checkbox"/>	ACCOUNT - 2	vpc-05f7dc2f2def09473	Available	10.2.0.0/16	-	dopt-0cdf52e18dce9c5bf	rtb-0a314edba9368054a

Mumbai

Nikhil Malusare

Create VPC

STEP 2 : Create a IGW for Both Account

- Create Internet Gateway for each VCP Account

ACCOUNT 1

- Create a IGW for the ACCOUNT 1
- And Attach the ACCOUNT -1 IGW to ACCOUNT 1 VPC

VPC > Internet gateways > igw-064fe5b736b16d317

igw-064fe5b736b16d317 / ACCOUNT IGW Actions ▾

Details [Info](#)

Internet gateway ID igw-064fe5b736b16d317	State Attached	VPC ID vpc-0ce417a767116eac01 ACCOUNT - 1	Owner 211125722329
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Tags

Search tags

Manage tags

Key	Value
Name	ACCOUNT IGW

ACCOUNT 2

- Create a IGW for the ACCOUNT 2
- And Attach the ACCOUNT -2 IGW to ACCOUNT 2 VPC

VPC > Internet gateways > igw-0c2c4358491c6a816

igw-0c2c4358491c6a816 / ACCOOUNT -2 IGW Actions ▾

Details [Info](#)

Internet gateway ID igw-0c2c4358491c6a816	State Attached	VPC ID vpc-05f7dc2f2def09473 ACCOUNT - 2	Owner 819996669041
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Tags

Search tags

Manage tags

Key	Value
Name	ACCOOUNT -2 IGW

STEP 3 : Create two Subnet for there VPC in each Account.

ACCOUNT – 1 VPC (MUMABI REGION)

SUBNET	CIDR	HZ
ACCOUNT – 1 SUBNET A	10.0.0.0/24	ap-south-1a
ACCOUNT – 1 SUBNET B	10.0.1.0/24	ap-south-1b

You have successfully created 1 subnet: subnet-08a02f8bf63909ca1

Subnets (2) Info										
Find resources by attribute or tag										
ACCOUNT X Clear filters										
	Name	Subnet ID	State	VPC	IPv4 CIDR	IPv6 CIDR	Available IPv4 addresses	Availability Zone	Availability	
<input type="checkbox"/>	ACCOUNT - 1 SUBNET A	subnet-016a1c884b28b5b0e	Available	vpc-0ce417a767116eac0 ACC...	10.0.0.0/24	-	251	ap-south-1a	aps1-az1	
<input type="checkbox"/>	ACCOUNT - 1 SUBNET B	subnet-08a02f8bf63909ca1	Available	vpc-0ce417a767116eac0 ACC...	10.0.1.0/24	-	251	ap-south-1b	aps1-az3	

ACCOUNT – 2 VPC (MUMABI REGION)

SUBNET	CIDR	HZ
ACCOUNT – 2 SUBNET A	10.2.0.0/24	ap-south-1a
ACCOUNT – 2 SUBNET B	10.2.1.0/24	ap-south-1b

Subnets (2) Info										
Find resources by attribute or tag										
Subnet ID : subnet-0f6e3e42e9249b443 X Subnet ID : subnet-023a8131c8f9b2625 X Clear filters										
	Name	Subnet ID	State	VPC	IPv4 CIDR	IPv6 CIDR	Available IPv4			
<input type="checkbox"/>	ACCOUNT - 2 SUBNET B	subnet-023a8131c8f9b2625	Available	vpc-05f7dc2f2def09473 ACCO...	10.2.1.0/24	-	251			
<input type="checkbox"/>	ACCOUNT - 2 SUBNET A	subnet-0f6e3e42e9249b443	Available	vpc-05f7dc2f2def09473 ACCO...	10.2.0.0/24	-	251			

STEP 4 : Create a Route Table for both account

ACCOUNT 1 :

We have create a Route Table for the ACCOUNT-1

The screenshot shows the AWS Management Console interface for a Route Table. The breadcrumb navigation is VPC > Route tables > rtb-0d8a4334e4651e311. The title is "rtb-0d8a4334e4651e311 / ACCOUNT-1 ROUTE TABLE". The "Details" tab is active, showing the following information:

Route table ID	Main	Explicit subnet associations	Edge associations
rtb-0d8a4334e4651e311	No	2 subnets	-

Below the details, the "Routes" tab is active, showing a table with 2 routes:

Destination	Target	Status	Propagated
0.0.0.0/0	sga-064fe5b735b16d317	Active	No
10.0.0.0/16	local	Active	No

ACCOUNT 2 :

We have create a Route Table for the ACCOUNT-2

The screenshot shows the AWS Management Console interface for a Route Table. A green notification bar at the top states: "Route table rtb-04ff343c7cd029666 | ACCOUNT -2 ROUTE TABLE was created successfully." The breadcrumb navigation is VPC > Route tables > rtb-04ff343c7cd029666. The title is "rtb-04ff343c7cd029666 / ACCOUNT -2 ROUTE TABLE". The "Details" tab is active, showing the following information:

Route table ID	Main	Explicit subnet associations	Edge associations
rtb-04ff343c7cd029666	No	-	-

Below the details, the "Routes" tab is active, showing a table with 1 route:

Destination	Target	Status	Propagated
10.2.0.0/16	local	Active	No

STEP 5 : Associate Subnet to there Respective Route table in there Account

ACCOUNT -1

The screenshot displays the AWS Management Console interface for the 'Subnet associations' tab of a route table. The route table ID is 'rtb-0d8a4334e4651e311' and it belongs to 'ACCOUNT - 1'. The 'Main' checkbox is unchecked. The 'Explicit subnet associations' section shows two subnets: 'ACCOUNT - 1 SUBNET A' and 'ACCOUNT - 1 SUBNET B'. Both subnets are associated with the route table and have an IPv4 CIDR of '10.0.0.0/24'. The 'Edge associations' section is empty.

Name	Subnet ID	IPv4 CIDR	IPv6 CIDR
ACCOUNT - 1 SUBNET A	subnet-016a1c884b28b5b0e	10.0.0.0/24	-
ACCOUNT - 1 SUBNET B	subnet-08a02f8bf63909ca1	10.0.1.0/24	-

ACCOUNT – 2

The screenshot displays the AWS Management Console interface for the 'Subnet associations' tab of a route table. The route table ID is 'rtb-04ff343c7cd029666' and it belongs to 'ACCOUNT - 2'. The 'Main' checkbox is unchecked. The 'Explicit subnet associations' section shows two subnets: 'ACCOUNT - 2 SUBNET B' and 'ACCOUNT - 2 SUBNET A'. Both subnets are associated with the route table and have an IPv4 CIDR of '10.2.1.0/24' and '10.2.0.0/24' respectively. The 'Edge associations' section is empty.

Name	Subnet ID	IPv4 CIDR	IPv6 CIDR
ACCOUNT - 2 SUBNET B	subnet-023a8131c8f9b2625	10.2.1.0/24	-
ACCOUNT - 2 SUBNET A	subnet-0f6e3e42e9249b443	10.2.0.0/24	-

STEP 6 : Edit Route of the Route table

ACCOUNT -1

- We have Edit Route

VPC > Route tables > rtb-0d8a4334e4651e311

rtb-0d8a4334e4651e311 / ACCOUNT-1 ROUTE TABLE

Details info

Route table ID rtb-0d8a4334e4651e311	Main No	Explicit subnet associations 2 subnets	Edge associations -
VPC vpc-0ce417a767116eac0 ACCOUNT - 1	Owner ID 211125722329		

Routes | Subnet associations | Edge associations | Route propagation | Tags

Routes (2)

Filter routes

Destination	Target	Status	Propagated
0.0.0.0/0	igw-064fe5b736b16d317	Active	No
10.0.0.0/16	local	Active	No

ACCOUNT -2

- We have Edit Route

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VPC > Route tables > rtb-04ff343c7cd029666

rtb-04ff343c7cd029666 / ACCOUNT -2 ROUTE TABLE

Details info

Route table ID rtb-04ff343c7cd029666	Main No	Explicit subnet associations 2 subnets	Edge associations -
VPC vpc-05f7dc2f2def09473 ACCOUNT - 2	Owner ID 819996669041		

Routes | Subnet associations | Edge associations | Route propagation | Tags

Routes (2)

Filter routes

Destination	Target	Status	Propagated
0.0.0.0/0	igw-0c2c4358491c6a816	Active	No
10.2.0.0/16	local	Active	No

STEP 7 : Now we will create a VPC peering

- So we will create a VPC peering with the name “CROSS-ACCOUNT-VPC-PEERING”
- And we will choose Source as ACCOUNT-1 (RAJ AWS 06)
- And Peering to ACCOUNT-2 (Nikhil Malusare)

Peering connection settings

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

Select a local VPC to peer with

VPC ID (Requester)

VPC CIDRs for vpc-0ce417a767116eac0 (ACCOUNT - 1)

CIDR	Status	Status reason
10.0.0.0/16	✔ Associated	-

Select another VPC to peer with

Account

☐ My account

☒ Another account

Account ID

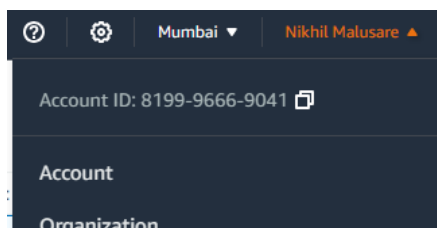
Region

☒ This Region (ap-south-1)

☐ Another Region

VPC ID (Acceptor)

- Copy the Account ID of Nikhil Malusare Account and paste at VPC peering Account ID



vpc-05f7dc2f2def09473 / ACCOUNT - 2

Details

Resource map

CIDRs

Flow logs

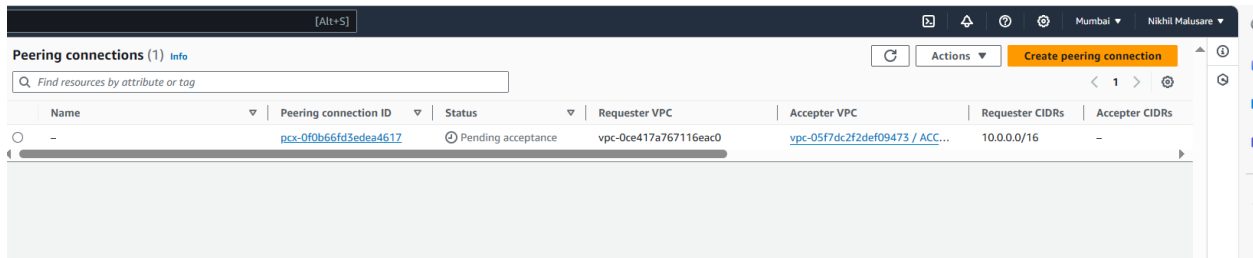
Details

VPC ID

 vpc-05f7dc2f2def09473

Tenancy

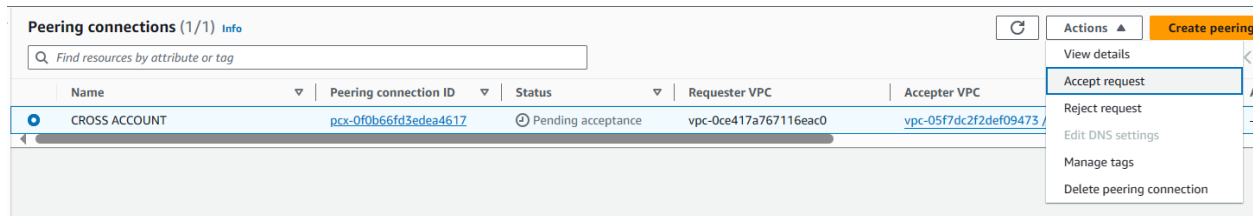
- Hence we can see in Nikhal Malusare
- In VPC Peering we have a request for the peering connection
- So we need to accept it for the peering



Peering connections (1) Info

Find resources by attribute or tag

Name	Peering connection ID	Status	Requester VPC	Accepter VPC	Requester CIDRs	Accepter CIDRs
-	pcx-0f0b66fd3edea4617	Pending acceptance	vpc-0ce417a767116eac0	vpc-05f7dc2f2def09473 / ACC...	10.0.0.0/16	-



Peering connections (1/1) Info

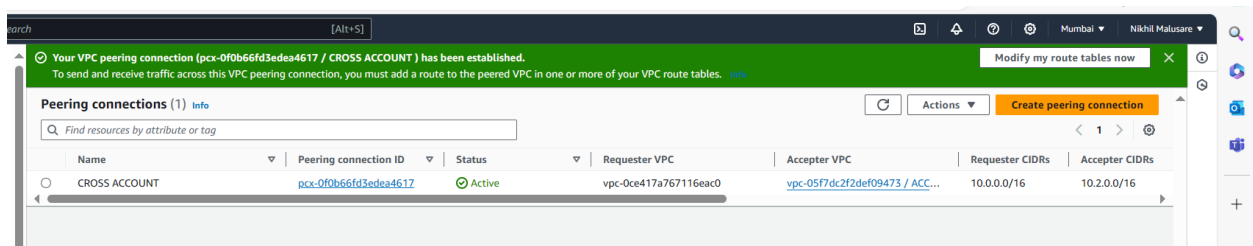
Find resources by attribute or tag

Name	Peering connection ID	Status	Requester VPC	Accepter VPC
CROSS ACCOUNT	pcx-0f0b66fd3edea4617	Pending acceptance	vpc-0ce417a767116eac0	vpc-05f7dc2f2def09473

Actions

- View details
- Accept request
- Reject request
- Edit DNS settings
- Manage tags
- Delete peering connection

- Hence we can see the peering is done



search

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Modify my route tables now

Your VPC peering connection (pcx-0f0b66fd3edea4617 / CROSS ACCOUNT) has been established. To send and receive traffic across this VPC peering connection, you must add a route to the peered VPC in one or more of your VPC route tables. info

Peering connections (1) Info

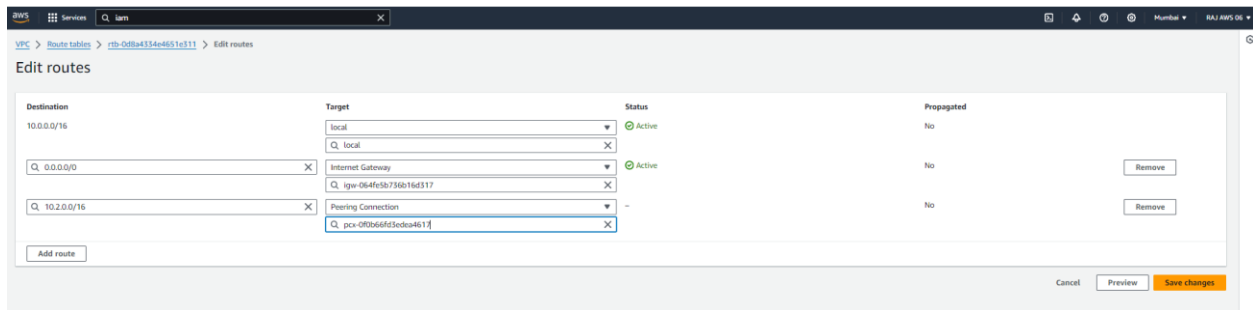
Find resources by attribute or tag

Name	Peering connection ID	Status	Requester VPC	Accepter VPC	Requester CIDRs	Accepter CIDRs
CROSS ACCOUNT	pcx-0f0b66fd3edea4617	Active	vpc-0ce417a767116eac0	vpc-05f7dc2f2def09473 / ACC...	10.0.0.0/16	10.2.0.0/16

STEP 8 : Now edit Route table for the VPC peering

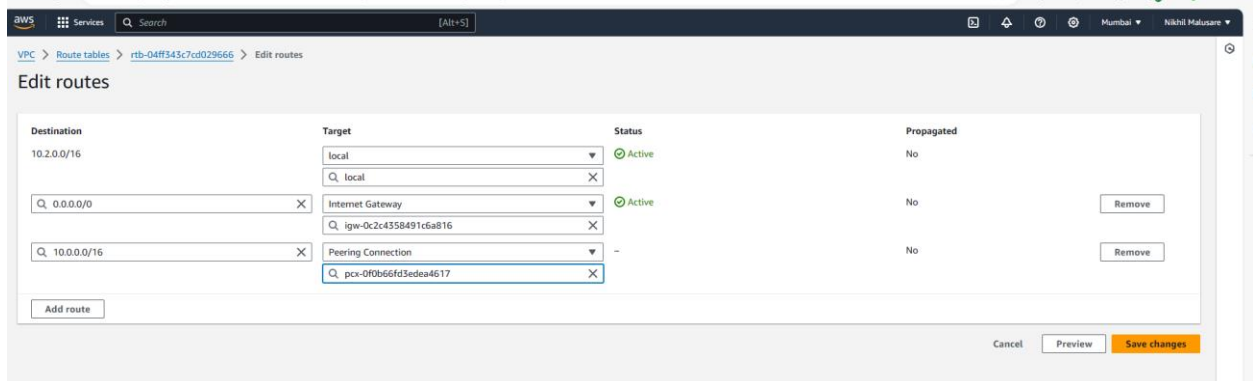
ACCOUNT – 1

- Copy the ACCOUNT -2 CIDR VPC 10.2.0.0/16 and paste it ot the ACCOUNT – 1 VPC route Table in edit route as Target be VPC peering



ACCOUNT – 2

- Copy the ACCOUNT -1 CIDR VPC 10.0.0.0/16 and paste it ot the ACCOUNT – 2 VPC route Table in edit route as Target be VPC peering

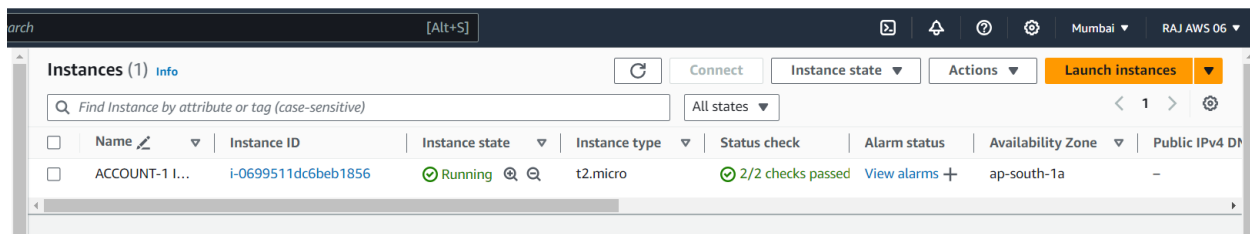


- Hence we have successfully have peering connection

STEP 9 : Create a Ec2 instance in ACCOUNT -1 and in ACCOUNT -2

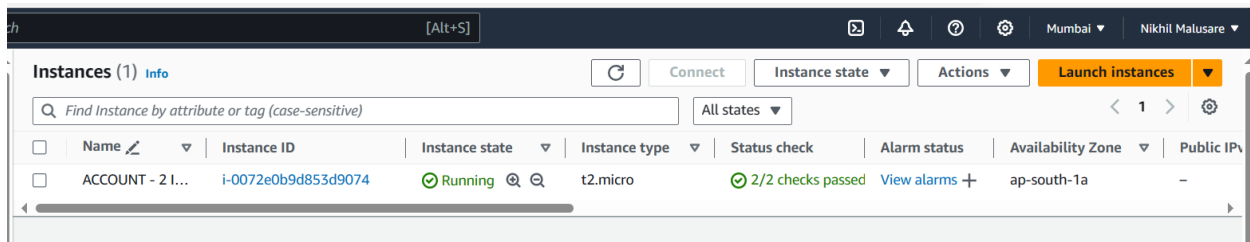
ACCOUNT-1

- Hence we have created a Instance with :
- AMI as Linux 2023
- SG as SSH at Anywhere
- HTTP at Anywhere
- All ICMP at Anywhere
- And In Networking
- We have selected ACCOUNT-2 Custom VPC with subnet available in ap-south-1a



ACCOUNT-2

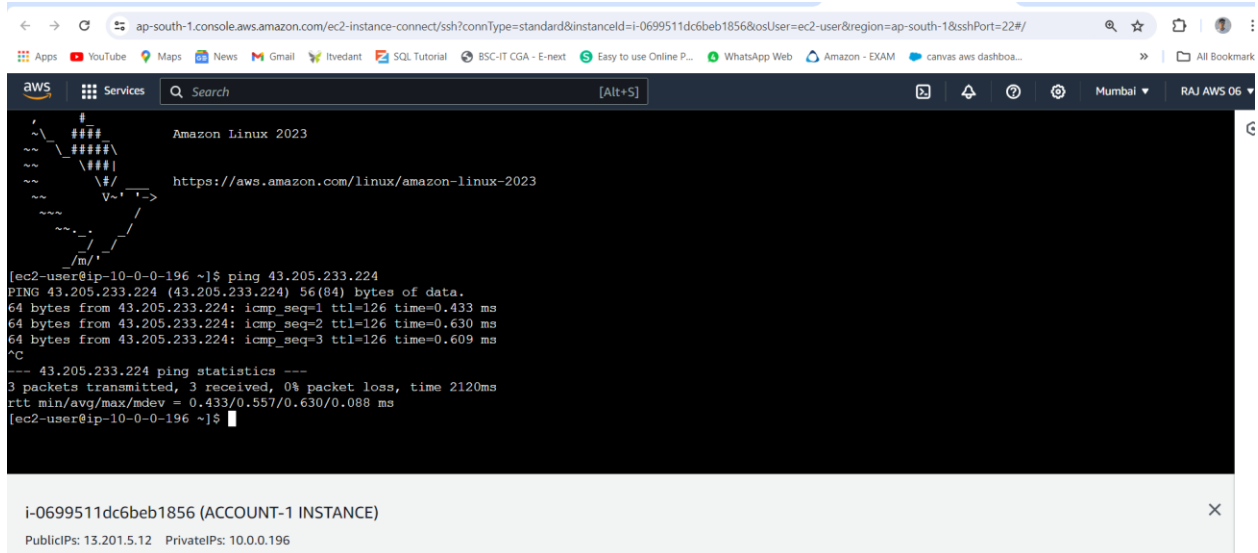
- Hence we have created a Instance with :
- AMI as Linux 2023
- SG as SSH at Anywhere
- HTTP at Anywhere
- All ICMP at Anywhere
- And In Networking
- We have selected ACCOUNT-2 Custom VPC with subnet available in ap-south-1a



STEP 10 : Connect to EC2 Instance

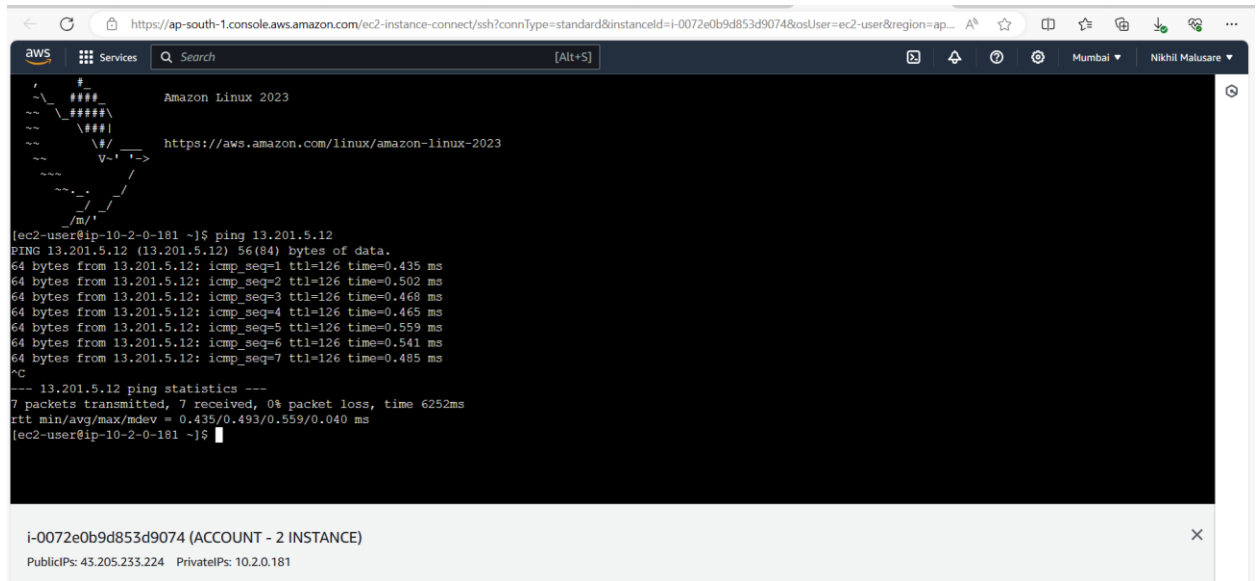
- Hence now connect both the Instance and ping Public IP of different account instance

ACCOUNT - 1



```
ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-0699511dc6beb1856&osUser=ec2-user&region=ap-south-1&sshPort=22#/  
AWS Services Search [Alt+S]  
Amazon Linux 2023  
https://aws.amazon.com/linux/amazon-linux-2023  
[ec2-user@ip-10-0-0-196 ~]$ ping 43.205.233.224  
PING 43.205.233.224 (43.205.233.224) 56(84) bytes of data:  
64 bytes from 43.205.233.224: icmp_seq=1 ttl=126 time=0.433 ms  
64 bytes from 43.205.233.224: icmp_seq=2 ttl=126 time=0.630 ms  
64 bytes from 43.205.233.224: icmp_seq=3 ttl=126 time=0.609 ms  
^C  
--- 43.205.233.224 ping statistics ---  
3 packets transmitted, 3 received, 0% packet loss, time 2120ms  
rtt min/avg/max/mdev = 0.433/0.557/0.630/0.088 ms  
[ec2-user@ip-10-0-0-196 ~]$  
i-0699511dc6beb1856 (ACCOUNT-1 INSTANCE)  
PublicIPs: 13.201.5.12 PrivateIPs: 10.0.0.196
```

ACCOUNT - 2



```
https://ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-0072e0b9d853d9074&osUser=ec2-user&region=ap...  
AWS Services Search [Alt+S]  
Amazon Linux 2023  
https://aws.amazon.com/linux/amazon-linux-2023  
[ec2-user@ip-10-2-0-181 ~]$ ping 13.201.5.12  
PING 13.201.5.12 (13.201.5.12) 56(84) bytes of data:  
64 bytes from 13.201.5.12: icmp_seq=1 ttl=126 time=0.435 ms  
64 bytes from 13.201.5.12: icmp_seq=2 ttl=126 time=0.502 ms  
64 bytes from 13.201.5.12: icmp_seq=3 ttl=126 time=0.468 ms  
64 bytes from 13.201.5.12: icmp_seq=4 ttl=126 time=0.465 ms  
64 bytes from 13.201.5.12: icmp_seq=5 ttl=126 time=0.559 ms  
64 bytes from 13.201.5.12: icmp_seq=6 ttl=126 time=0.541 ms  
64 bytes from 13.201.5.12: icmp_seq=7 ttl=126 time=0.485 ms  
^C  
--- 13.201.5.12 ping statistics ---  
7 packets transmitted, 7 received, 0% packet loss, time 6252ms  
rtt min/avg/max/mdev = 0.435/0.493/0.559/0.040 ms  
[ec2-user@ip-10-2-0-181 ~]$  
i-0072e0b9d853d9074 (ACCOUNT - 2 INSTANCE)  
PublicIPs: 43.205.233.224 PrivateIPs: 10.2.0.181
```