



## ASSIGNMENT - 2

COURSE : DEVOPS

Trainer : Mr. MADHUKAR

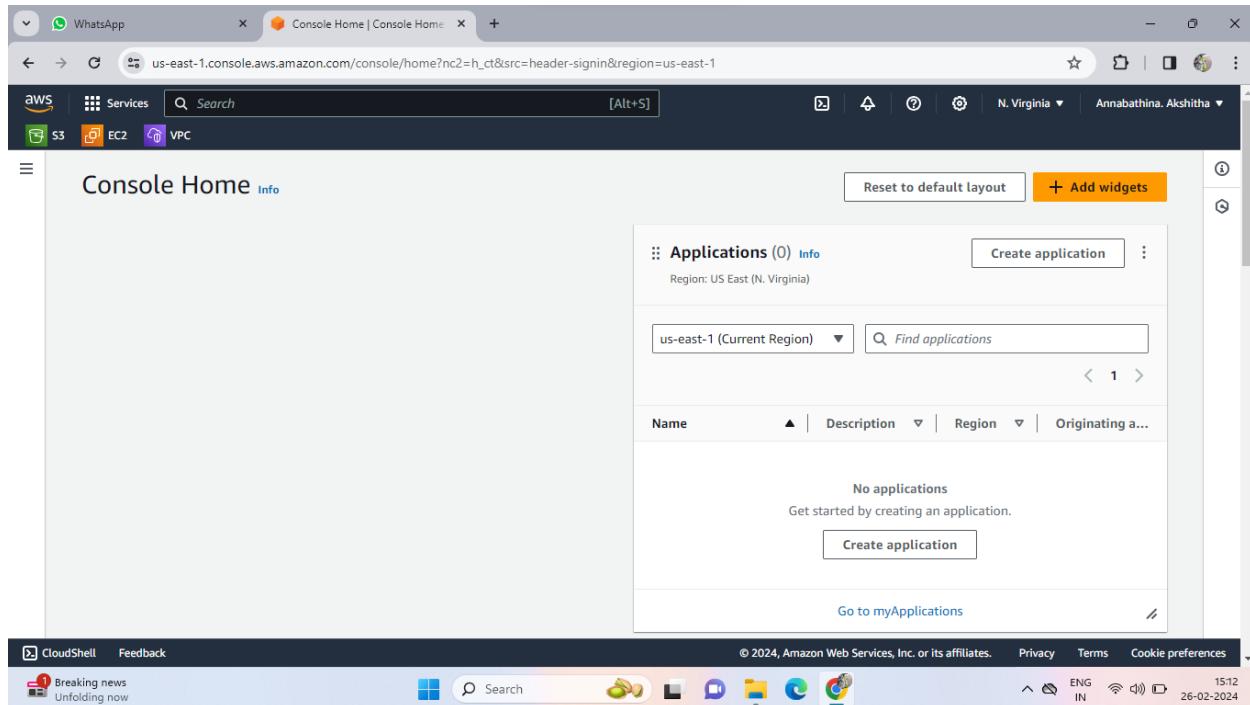
NAME:A AKSHITHA

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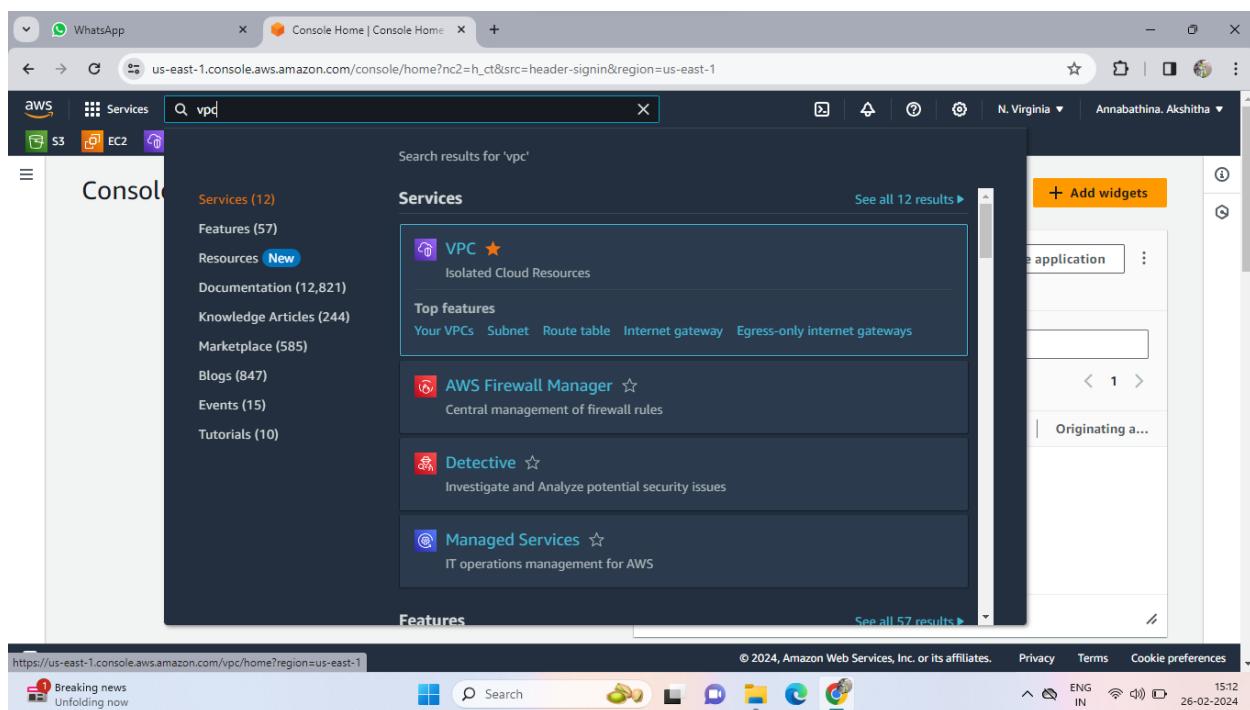
Software Solutions Pvt. Ltd.

## Q ) Create transi gateway in two different account ?

- First Go to Amazon Console Home



- Search for VPC and Click on VPC



- VPC Home Page and Click on create VPC

The screenshot shows the AWS VPC Home page. On the left, there's a sidebar with options like 'Your VPCs', 'Subnets', 'Route tables', etc. The main area displays 'Resources by Region' with sections for VPCs, Subnets, Route Tables, Internet Gateways, and more. Each section shows counts for the US East region. To the right, there's a 'Service Health' section with a link to 'View complete service health details' and a 'Settings' section with links to 'Zones' and 'Console Experiments'. Below these are 'Additional Information' and 'AWS Network Manager' sections.

- Enter VPC Name and enter ipv4 CIDR Address then Click on Create VPC

The screenshot shows the 'Create VPC' wizard. In the 'VPC settings' step, under 'Resources to create', the 'VPC only' option is selected. A 'Name tag - optional' field contains 'my vpc 1'. Under 'IPv4 CIDR block', the input field shows '20.0.0.0/16'. At the bottom, there are 'CloudShell' and 'Feedback' buttons.

WhatsApp

CreateVpc | VPC Console

us-east-1.console.aws.amazon.com/vpcconsole/home?region=us-east-1#CreateVpcMode=vpcOnly

AWS Services Search [Alt+S]

N. Virginia Annabathina, Akshitha

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

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

Name my vpc 1 Remove tag

Add tag

You can add 49 more tags

Cancel Create VPC

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# V CUBE

WhatsApp

VpcDetails | VPC Console

us-east-1.console.aws.amazon.com/vpcconsole/home?region=us-east-1#VpcDetailsVpcId=vpc-0b527ad440941403c

AWS Services Search [Alt+S]

N. Virginia Annabathina, Akshitha

VPC dashboard EC2 Global View Filter by VPC: Select a VPC

Virtual private cloud Your VPCs Subnets Route tables Internet gateways Egress-only internet gateways Carrier gateways DHCP option sets Elastic IPs Managed prefix lists Endpoints Endpoint services

You successfully created vpc-0b527ad440941403c / my vpc 1

VPC > Your VPCs > vpc-0b527ad440941403c

vpc-0b527ad440941403c / my vpc 1 Actions

Details Info

VPC ID	State	DNS hostnames	DNS resolution
vpc-0b527ad440941403c	Available	Disabled	Enabled
Tenancy	DHCP option set	Main route table	Main network ACL
Default	dopt-0cac3ed0a8198239e	rtb-04a286d7feb03d3e	acl-0589e718cb660b884
Default VPC	IPv4 CIDR	IPv6 pool	IPv6 CIDR (Network border group)
No	20.0.0.0/16	-	-
Network Address Usage metrics	Route 53 Resolver DNS Firewall rule groups	Owner ID	
Disabled	-	381492196962	

Resource map CIDRs Flow logs Tags Integrations

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- Go to Subnets and Click on create subnet

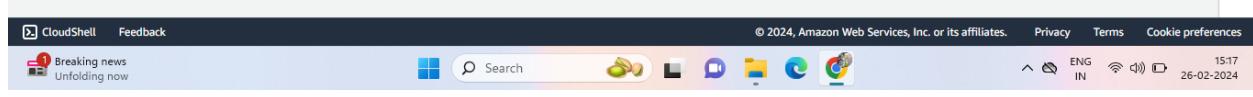
The screenshot shows the AWS VPC Console with the URL [us-east-1.console.aws.amazon.com/vpcconsole/home?region=us-east-1#subnets](https://us-east-1.console.aws.amazon.com/vpcconsole/home?region=us-east-1#subnets). The left sidebar is collapsed, and the main content area shows a table titled "Subnets (5) Info". The table has the following data:

Name	Subnet ID	State	VPC	IPv4 CIDR
-	subnet-0b8b00d4bd534df64	Available	vpc-0607b41c1d142827f	172.31
-	subnet-01a6f6b4eaa4a8b8c	Available	vpc-0607b41c1d142827f	172.31
-	subnet-026c1b50a9b5ffcc81	Available	vpc-0607b41c1d142827f	172.31
-	subnet-01295de678666cbd2	Available	vpc-0607b41c1d142827f	172.31

A "Select a subnet" dropdown menu is open below the table. The bottom of the screen shows the Windows taskbar with various pinned icons and the date/time.

- Now select our Created VPC
- Enter subnet name and enter subnet ipv4 CIDR block then Click on Create Subnet

The screenshot shows the 'Create subnet' page in the AWS VPC console. The 'VPC' tab is selected. In the 'VPC ID' section, it says 'Create subnets in this VPC.' and there is a dropdown menu labeled 'Select a VPC'. Below this, the 'Subnet settings' section is visible, with a note 'Specify the CIDR blocks and Availability Zone for the subnet.' and a message 'Select a VPC first to create new subnets.' A button 'Add new subnet' is present. At the bottom right are 'Cancel' and 'Create subnet' buttons.



The screenshot shows the 'Create subnet' page in the AWS VPC console. The 'Associated VPC CIDRs' tab is selected. In the 'VPC ID' section, it shows 'vpc-0b527ad440941403c (my vpc 1)'. Below this, the 'Associated VPC CIDRs' section shows 'IPv4 CIDRs' with the value '20.0.0.0/16'. The 'Subnet settings' section is also visible. At the bottom right are 'CloudShell', 'Feedback', and 'Cookie preferences' buttons.



Subnet 1 of 1

Subnet name  
Create a tag with a key of 'Name' and a value that you specify.  
my-sub-1

The name can be up to 256 characters long.

Availability Zone [Info](#)  
Choose the zone in which your subnet will reside, or let Amazon choose one for you.  
US East (N. Virginia) / us-east-1a

IPv4 VPC CIDR block [Info](#)  
Choose the VPC's IPv4 CIDR block for the subnet. The subnet's IPv4 CIDR must lie within this block.  
20.0.0.0/16

IPv4 subnet CIDR block  
20.0.32.0/24 256 IPs

▼ Tags - optional

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IPv4 VPC CIDR block [Info](#)  
Choose the VPC's IPv4 CIDR block for the subnet. The subnet's IPv4 CIDR must lie within this block.  
20.0.0.0/16

IPv4 subnet CIDR block  
20.0.32.0/24 256 IPs

▼ Tags - optional

Key Value - optional  
Name my-sub-1 Remove

Add new tag You can add 49 more tags.  
Remove Add new subnet

Cancel **Create subnet**

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- After creating subnets then go to internet gateways
- Click on Create internet gateway

- Enter internet gateway name then click on create internet gateway

The screenshot displays two windows from the AWS VPC Console.

**Top Window: Internet Gateways List**

- Shows 1 Internet gateway attached to a VPC.
- Table columns: Name, Internet gateway ID, State, VPC ID.
- Gateway details: Name - -, Internet gateway ID - igw-02fe919953bbf709a, State - Attached, VPC ID - vpc-0607b41c1d142827f.
- Action buttons: Actions, Create internet gateway.

**Bottom Window: Create Internet Gateway Wizard**

**Internet gateway settings:**

- Name tag: my Igw-1

**Tags - optional:**

- Key: Name, Value: my igw-1
- Add new tag button

**Buttons:**

- Cancel
- Create internet gateway (highlighted in orange)

- After Creating internet gateway go to actions and click on attach to VPC then select VPC and click on Attach internet gateway

VPC > Internet gateways > igw-0f4674b6a145d7616 / my igw-1

**Details** **Info**

Internet gateway ID igw-0f4674b6a145d7616	State Detached	VPC ID -	Owner 381492196962
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**Tags**

Search tags	
Key	Value
Name	my igw-1

**Actions**

Manage tags

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VPC > Internet gateways > igw-0f4674b6a145d7616 / my igw-1

**Details** **Info**

Internet gateway ID igw-0f4674b6a145d7616	State Detached	VPC ID -	Owner 381492196962
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**Tags**

Search tags	
Key	Value
Name	my igw-1

**Actions**

Attach to VPC

Detach from VPC

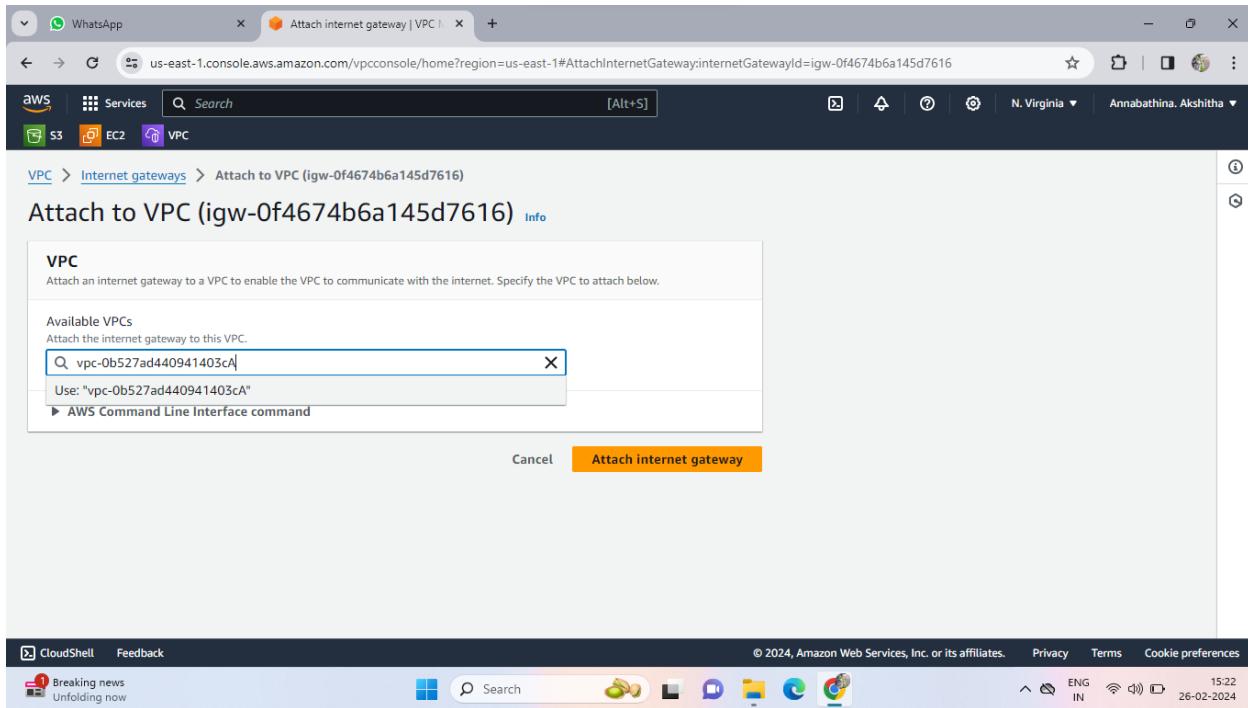
Manage tags

Delete

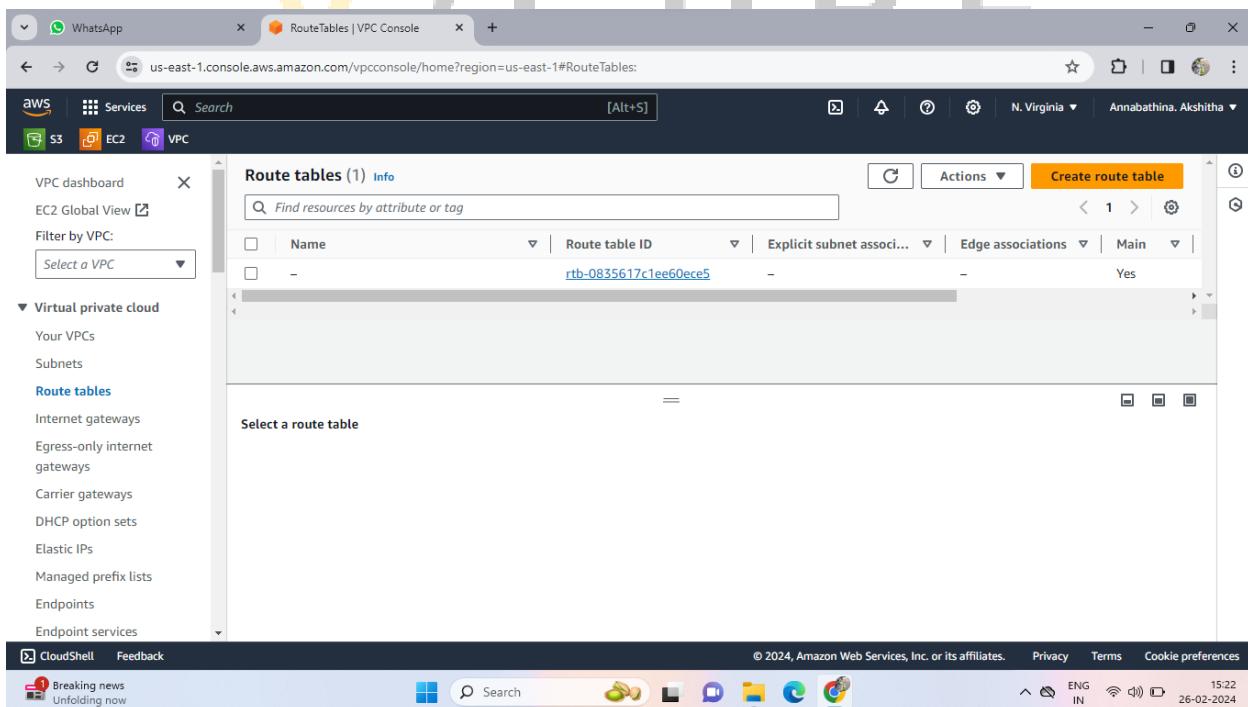
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- After Attaching internet gateway then go to route tables
- Click on route table and enter route table name and select VPC then click on create route table



WhatsApp CreateRouteTable | VPC Console

us-east-1.console.aws.amazon.com/vpcconsole/home?region=us-east-1#CreateRouteTable:

AWS Services Search [Alt+S]

N. Virginia Annabathina.Akshitha

S3 EC2 VPC

**Route table settings**

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

my-rt-1

VPC  
The VPC to use for this route table.

vpc-0b527ad440941403c (my vpc 1)

**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  
Name my-rt-1 Remove

Add new tag

You can add 49 more tags.

Cancel Create route table

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WhatsApp RouteTableDetails | VPC Console

us-east-1.console.aws.amazon.com/vpcconsole/home?region=us-east-1#RouteTableDetails:RouteTableId=rtb-03677ed89b2a63308

AWS Services Search [Alt+S]

N. Virginia Annabathina.Akshitha

S3 EC2 VPC

VPC dashboard Actions ▾

EC2 Global View

Filter by VPC: Select a VPC

Virtual private cloud

Your VPCs

Subnets

**Route tables**

Internet gateways

Egress-only internet gateways

Carrier gateways

DHCP option sets

Elastic IPs

Managed prefix lists

Endpoints

Endpoint services

Route table rtb-03677ed89b2a63308 | my-rt-1 was created successfully.

VPC > Route tables > rtb-03677ed89b2a63308

rtb-03677ed89b2a63308 / my-rt-1

Details Info

Route table ID	Main	Explicit subnet associations	Edge associations
rtb-03677ed89b2a63308	No	-	-
VPC	Owner ID	Actions	
vpc-0b527ad440941403c   my vpc 1	381492196962	Actions	

Routes Subnet associations Edge associations Route propagation Tags

Routes (1)

Destination	Target	Status	Propagated
Both	Edit routes	< 1 >	Actions

Filter routes

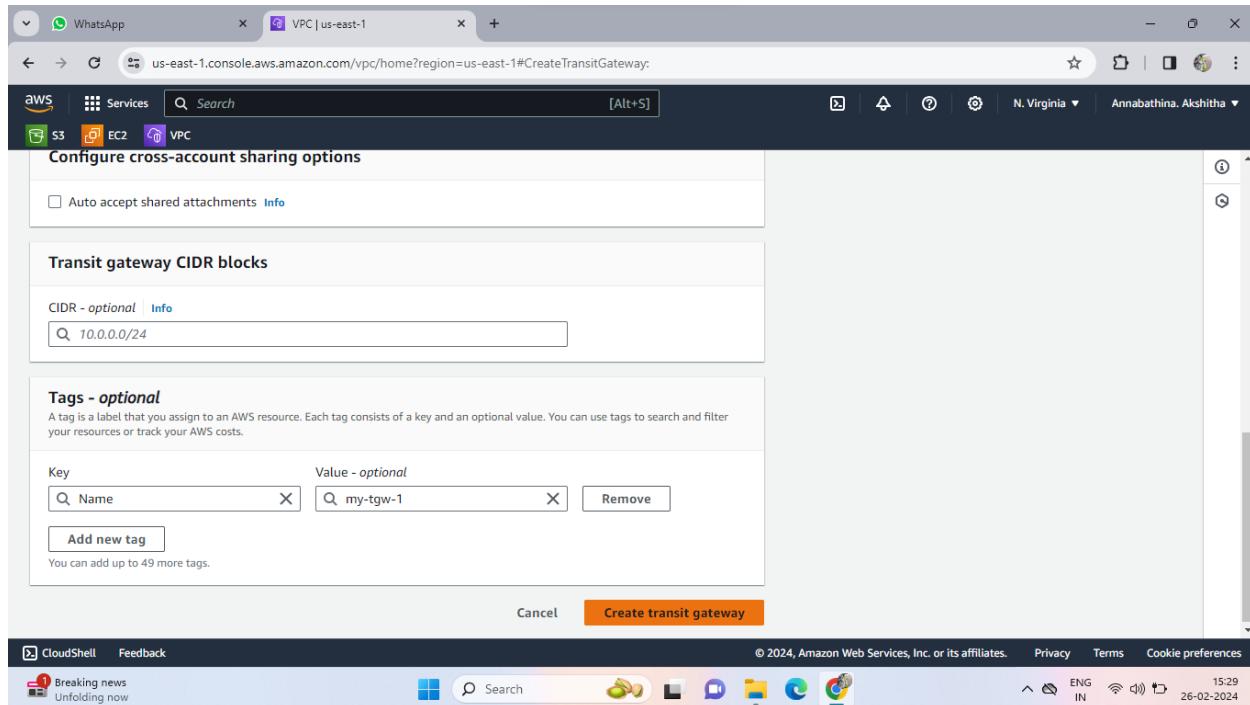
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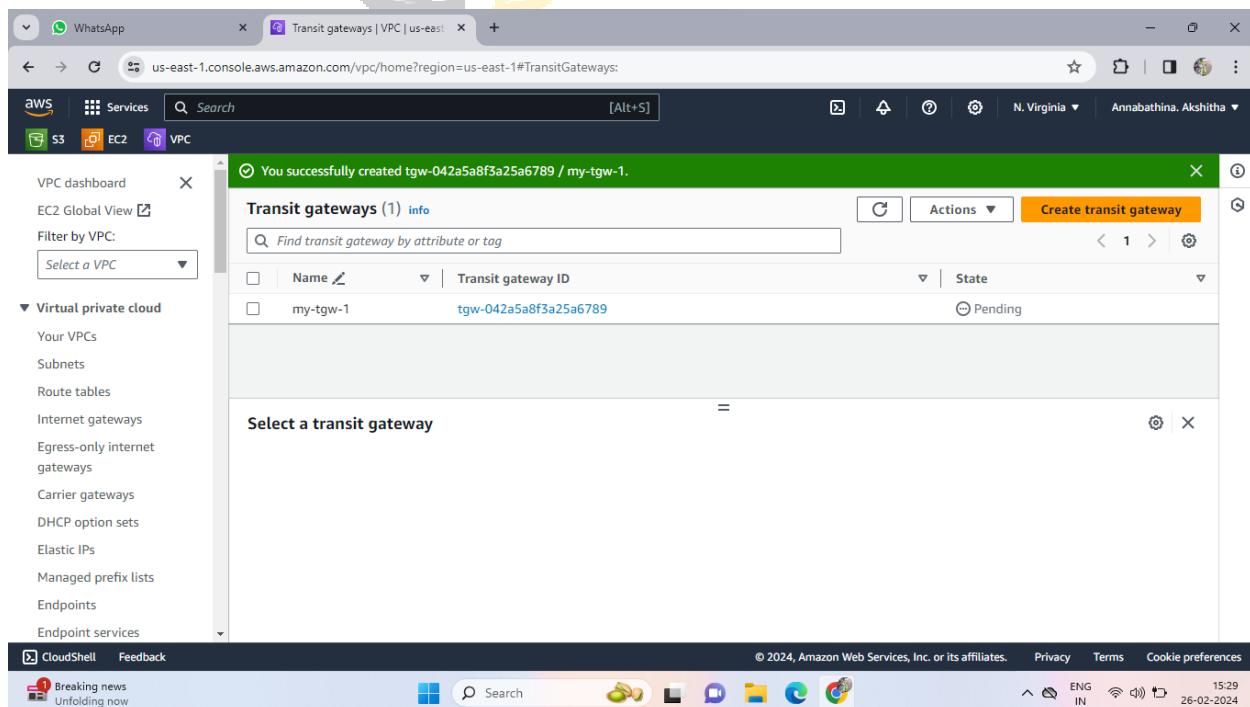
- After creating route table go to transit gateway
- Click on create transit gateway then enter the transit gateway name then click on create transit gateway

The screenshot shows the AWS VPC Management Console with the 'Transit gateways' page open. The URL is [us-east-1.console.aws.amazon.com/vpc/home?region=us-east-1#TransitGateways](https://us-east-1.console.aws.amazon.com/vpc/home?region=us-east-1#TransitGateways). The interface includes a navigation bar with tabs for AWS, Services, and VPC. On the left, a sidebar lists various VPC-related services like Your VPCs, Subnets, Route tables, and Internet gateways. The main content area is titled 'Transit gateways info' and shows a search bar with placeholder text 'Find transit gateway by attribute or tag'. Below it is a table with columns for Name, Transit gateway ID, and State, which currently displays 'No transit gateways'. A message below the table says 'You do not have any transit gateways in this region'. At the bottom of this section is a large orange 'Create transit gateway' button. Below this is another section titled 'Select a transit gateway'.

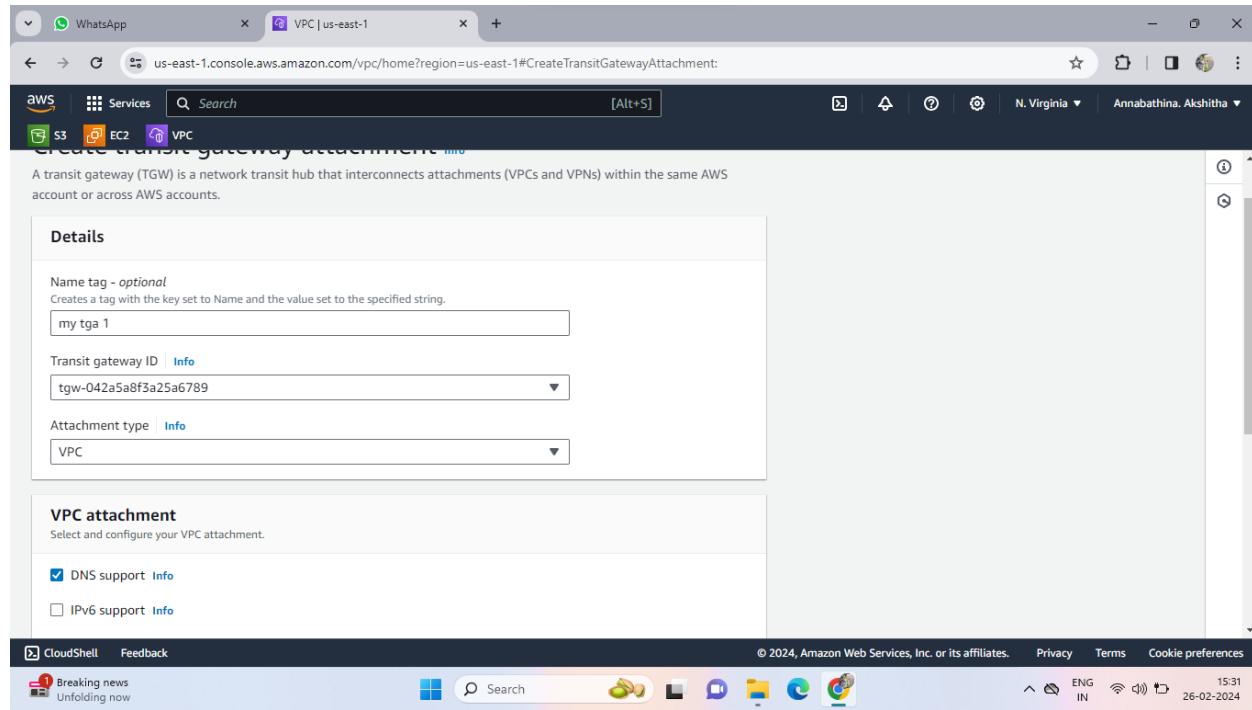
The screenshot shows the 'Create Transit Gateway' wizard in the AWS VPC Management Console. The URL is [us-east-1.console.aws.amazon.com/vpc/home?region=us-east-1#CreateTransitGateway](https://us-east-1.console.aws.amazon.com/vpc/home?region=us-east-1#CreateTransitGateway). The interface includes a navigation bar with tabs for AWS, Services, and VPC. The main content area is divided into two sections: 'Details - optional' and 'Configure the transit gateway'. In the 'Details - optional' section, there are fields for 'Name tag' (with placeholder 'my-tgw-1') and 'Description' (with placeholder 'allow'). In the 'Configure the transit gateway' section, there are checkboxes for 'Amazon side Autonomous System Number (ASN)' (set to 'ASN'), 'DNS support' (checked), 'VPN ECMP support' (checked), and 'Default route table association' (checked). The bottom of the screen shows the Windows taskbar with various pinned icons.



- After Creating transit gateway status is shown pending wait for few min. status is changed available



- After that go to transit gateway attachment
- Click on transit gateway attachment
- Enter the name and select transit gateway id
- Select VPC id and click on create transit gateway attachment



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VPC ID  
Select the VPC to attach to the transit gateway.  
vpc-0b527ad440941403c

Subnet IDs | Info  
Select the subnets in which to create the transit gateway VPC attachment.  
 us-east-1a subnet-04afbd796db5c408a

us-east-1b No subnet available  
us-east-1c No subnet available  
us-east-1d No subnet available  
us-east-1e No subnet available  
us-east-1f No subnet available

subnet-04afbd796db5c408a X

**Tags - optional**  
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.

- After Creating transit gateway attachment status is shown pending wait for few min. status will be changed as available

Transit gateway attachments (1) info

Name	Transit gateway attachment ID	Transit gateway ID	State	Resource
my tga 1	tgw-attach-0cf43e1e76c65a27	tgw-042a5a8f3a25a6789	Available	VPC

Select a transit gateway attachment

- After creating transit gateway attachment go to route tables
- Click on route table id go to subnet association and edit subnet association and select created subnet and then click on save changes

The screenshot shows the AWS VPC Route Tables console. On the left, there's a navigation sidebar with options like 'VPC dashboard', 'Your VPCs', 'Subnets', and 'Route tables'. Under 'Route tables', several items are listed: 'Internet gateways', 'Egress-only internet gateways', 'Carrier gateways', 'DHCP option sets', 'Elastic IPs', 'Managed prefix lists', 'Endpoints', and 'Endpoint services'. The 'Route tables' section is currently selected.

The main area displays a table titled 'Route tables (1/3) Info'. It has columns for 'Name', 'Route table ID', 'Explicit subnet associations', 'Edge associations', and 'Main'. There are three rows in the table:

Name	Route table ID	Explicit subnet associations	Edge associations	Main
-	<a href="#">rtb-04a286d7febb03d3e</a>	-	-	Yes
-	<a href="#">rtb-0835617c1ee60ece5</a>	-	-	Yes
<input checked="" type="checkbox"/> my-rt-1	<a href="#">rtb-03677ed89b2a63308</a>	-	-	No

Below the table, a specific route table is selected: 'rtb-03677ed89b2a63308 / my-rt-1'. The 'Details' tab is active. The 'Details' panel shows the following information:

- Route table ID: rtb-03677ed89b2a63308
- Main: No
- Explicit subnet associations: -
- Edge associations: -
- VPC: Owner ID

This screenshot is identical to the one above, showing the AWS VPC Route Tables console. The main difference is that the 'Main' checkbox for route table 'my-rt-1' is now unchecked, indicating it is no longer the primary route table.

The screenshot shows the AWS VPC console interface. The top navigation bar includes the AWS logo, a search bar, and tabs for WhatsApp and RouteTableDetails | VPC Console. The URL is [us-east-1.console.aws.amazon.com/vpcconsole/home?region=us-east-1#RouteTableDetails:RouteTableId=rtb-03677ed89b2a63308](https://us-east-1.console.aws.amazon.com/vpcconsole/home?region=us-east-1#RouteTableDetails:RouteTableId=rtb-03677ed89b2a63308). The top menu bar has options for Services, Search, and N. Virginia. A user profile for Annabathina. Akshitha is visible.

The main content area displays the details for Route Table ID **rtb-03677ed89b2a63308 / my-rt-1**. The left sidebar shows a tree view of the VPC structure, with **Route tables** selected. The right sidebar shows actions for the route table.

**Details** tab (selected):

Route table ID rtb-03677ed89b2a63308	Main No	Explicit subnet associations subnet-04afbd796db5c408a / my-sub-1	Edge associations -
VPC vpc-0b527ad440941403c   my-vpc-1	Owner ID 381492196962		

**Routes** tab (selected):

Destination	Target	Status	Propagated
20.0.0.0/16	local	Active	No

VPC > Route tables > [rtb-03677ed89b2a63308](#) > Edit subnet associations

## Edit subnet associations

Change which subnets are associated with this route table.

Available subnets (1/1)					
<input type="text"/> Filter subnet associations					
Name	Subnet ID	IPv4 CIDR	IPv6 CIDR	Route table ID	
<input checked="" type="checkbox"/> my-sub-1	<a href="#">subnet-04afbd796db5c408a</a>	20.0.32.0/24	-	<a href="#">rtb-03677ed89b2a63308 / my-rt-1</a>	

**Selected subnets**

[subnet-04afbd796db5c408a / my-sub-1](#) X

[Cancel](#) Save associations

- After saving association then go to actions then click on edit routes
- Click on add route select 0.0.0.0/0 target is select internet gateway then select transit gateway id
- Again add route then enter ipv4 CIDR of another account VPC then select target is transit gateway and id.

The screenshot shows the AWS VPC Route Table Details page for route table ID rtb-05832c705a07edf68 / my-rt-1. A green success message at the top states: "You have successfully updated subnet associations for rtb-05832c705a07edf68 / my-rt-1." The main table displays route table details and a single explicit subnet association. On the right, an "Actions" menu is open with options like Set main route table, Edit subnet associations, Edit edge associations, Edit route propagation, Edit routes, Manage tags, and Delete. Below the main table, there are tabs for Routes, Subnet associations, Edge associations, Route propagation, and Tags. The Routes tab shows one route entry: Destination 25.0.0.0/16, Target local, Status Active, and Propagated No. A "Edit routes" button is also present in this section. The left sidebar shows the VPC navigation menu with Route tables selected. The bottom of the screen shows the Windows taskbar with various pinned icons and the date/time as 25-02-2024.

**Edit routes**

Destination	Target	Status	Propagated
20.0.0.0/16	local	Active	No
Q 0.0.0.0/0	Internet Gateway	In Progress	No
Q 0.0.0.0/0	Transit Gateway	In Progress	No

Add route      Cancel      Preview      Save changes

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- Go to Another Account and same create VPC , Subnet , internet gateway , transit gateway & transit gateway attachment.

The screenshot shows the AWS Console Home page. On the left, there's a sidebar with 'Recently visited' services: VPC, EC2, S3, EFS, and IAM. The main area is titled 'Applications (0)' and shows a message: 'No applications. Get started by creating an application.' A 'Create application' button is available. At the bottom right of the main area, there's a link 'Go to myApplications'. The top navigation bar includes tabs for AWS Services and specific services like EC2 and IAM.

This screenshot shows the AWS search results for 'vpc'. The search bar at the top has 'vpc' typed into it. Below the search bar, there's a sidebar with 'Services (12)', 'Features (57)', and a 'Recent' section listing VPC, EC2, S3, EFS, and IAM. The main search results area is titled 'Services' and lists several services: VPC (Isolated Cloud Resources), AWS Firewall Manager (Central management of firewall rules), Detective (Investigate and Analyze potential security issues), and Managed Services (IT operations management for AWS). There are also links to 'See all 12 results' and 'See all 57 results'. The top navigation bar is identical to the one in the first screenshot.

The screenshot shows the AWS VPC Console Home page. On the left, there's a sidebar titled "Virtual private cloud" with options like "Your VPCs", "Subnets", "Route tables", etc. The main area has a "Create VPC" button and a "Launch EC2 Instances" button. It displays "Resources by Region" with counts for VPCs (1), Subnets (6), Route Tables (1), Internet Gateways (1), NAT Gateways (0), VPC Peering Connections (0), Network ACLs (1), and Security Groups (5). A "Service Health" section shows "View complete service health details". On the right, there are "Settings" (Zones, Console Experiments), "Additional Information" (VPC Documentation, All VPC Resources, Forums, Report an Issue), and an "AWS Network Manager" section.

The screenshot shows the "CreateVpc" page. It has two radio buttons: "VPC only" (selected) and "VPC and more". Below is a "Name tag - optional" field containing "my-vpc-2". Under "IPv4 CIDR block", there are three options: "IPv4 CIDR manual input" (selected), "IPAM-allocated IPv4 CIDR block", and "IPv4 CIDR". The "IPv4 CIDR" field contains "30.0.0.0/16". Under "IPv6 CIDR block", there are four options: "No IPv6 CIDR block" (selected), "IPAM-allocated IPv6 CIDR block", "Amazon-provided IPv6 CIDR block", and "IPv6 CIDR owned by me". A "Tenancy" section is partially visible. The bottom of the screen shows a taskbar with various icons and the date/time "26-02-2024 15:45".

CreateVpc | VPC Console

https://us-east-1.console.aws.amazon.com/vpcconsole/home?region=us-east-1#CreateVpc:createMode=vpcOnly

AWS Services Search [Alt+S]

EC2 IAM VPC

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

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

Name my-vpc-2 Remove tag

Add tag

You can add 49 more tags

Cancel Create VPC

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CreateSubnet | VPC Console

https://us-east-1.console.aws.amazon.com/vpcconsole/home?region=us-east-1#CreateSubnet:

AWS Services Search [Alt+S]

EC2 IAM VPC

VPC > Subnets > Create subnet

Create subnet Info

**VPC**

VPC ID  
Create subnets in this VPC.  
vpc-0d89c2eeee506dec2 (my-vpc-2)

Associated VPC CIDRs

IPv4 CIDRs  
30.0.0.0/16

**Subnet settings**  
Specify the CIDR blocks and Availability Zone for the subnet.

**Subnet 1 of 1**

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CreateSubnet | VPC Console

Subnet name  
Create a tag with a key of 'Name' and a value that you specify.  
  
The name can be up to 256 characters long.

Availability Zone [Info](#)  
Choose the zone in which your subnet will reside, or let Amazon choose one for you.

IPv4 VPC CIDR block [Info](#)  
Choose the VPC's IPv4 CIDR block for the subnet. The subnet's IPv4 CIDR must lie within this block.

IPv4 subnet CIDR block  
 256 IPs

▼ Tags - optional

Key	Value - optional
<input type="text" value="Name"/>	<input type="text" value="my-sub-1"/>

[Add new tag](#)

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CreateSubnet | VPC Console

Subnet name  
Create a tag with a key of 'Name' and a value that you specify.  
  
The name can be up to 256 characters long.

Availability Zone [Info](#)  
Choose the zone in which your subnet will reside, or let Amazon choose one for you.

IPv4 VPC CIDR block [Info](#)  
Choose the VPC's IPv4 CIDR block for the subnet. The subnet's IPv4 CIDR must lie within this block.

IPv4 subnet CIDR block  
 256 IPs

▼ Tags - optional

Key	Value - optional
<input type="text" value="Name"/>	<input type="text" value="my-sub-1"/>

[Add new tag](#)  
You can add 49 more tags.

[Remove](#)

[Add new subnet](#)

[Cancel](#) [Create subnet](#)

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Create internet gateway | VPC

https://us-east-1.console.aws.amazon.com/vpcconsole/home?region=us-east-1#CreateInternetGateway:

AWS Services Search [Alt+S]

N. Virginia lakshmi ravuri

### Create internet gateway

An internet gateway is a virtual router that connects a VPC to the internet. To create a new internet gateway specify the name for the gateway below.

#### Internet gateway settings

Name tag  
Creates a tag with a key of 'Name' and a value that you specify.

#### Tags - optional

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="my-igw-2"/>

Add new tag  
You can add 49 more tags.

Cancel **Create internet gateway**

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InternetGateway | VPC Console

https://us-east-1.console.aws.amazon.com/vpcconsole/home?region=us-east-1#InternetGateway:internetGatewayId=igw-00f2d3a3459dcc7e9

AWS Services Search [Alt+S]

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### VPC > Internet gateways > igw-00f2d3a3459dcc7e9 / my-igw-2

Actions

#### Details

Internet gateway ID <a href="#">igw-00f2d3a3459dcc7e9</a>	State <a href="#">Detached</a>	VPC ID -	Owner <a href="#">891377137975</a>
--	-----------------------------------	-------------	---------------------------------------

#### Tags

Key	Value
Name	my-igw-2

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- And Click on route table id go to subnet association and edit subnet association and select created subnet and then click on save changes.
- After saving association then go to actions then click on edit routes
- Click on add route select 0.0.0.0/0 target is select internet gateway then select transit gateway id.
- Now go to route table of VPC -1 then click on route table id and go to actions and edit routes.
- Add route then enter ipv4 CIDR of another account VPC - 2 then select target is transit gateway and id.
- Go to route table of VPC -2 then click on route table id and go to actions and edit routes.
- Add route then enter ipv4 CIDR of another account VPC - 1 then select target is transit gateway and id.

Destination	Target	Status	Propagated
30.0.0.0/16	local	Active	No
20.0.0.0/16	Transit Gateway	Active	No
0.0.0.0/0	Internet Gateway	Active	No

**Edit routes**

Add route Cancel Preview Save changes

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The screenshot shows the AWS VPC Console with the URL <https://us-east-1.console.aws.amazon.com/vpcconsole/home?region=us-east-1#EditRoutes:RouteTableId=rtb-03677ed89b2a63308>. The page is titled "Edit routes". It displays a table of routes:

Destination	Target	Status	Propagated
20.0.0.0/16	local	Active	No
30.0.0.0/16	Transit Gateway	Active	No
0.0.0.0/0	Internet Gateway	Active	No

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

- Now go to transit gateway attachments then click on create transit gateway attachment.
- Enter name and select transit gateway id
- And select attachment type is peering connection then selects other account option.
- And enter other account id , region & transit gateway id of accepter then create transit gateway attachment.

WhatsApp

Transit Gateway attachments | +

us-east-1.console.aws.amazon.com/vpc/home?region=us-east-1#TransitGatewayAttachments:

AWS Services Search [Alt+S] N. Virginia Annabathina. Akshitha

S3 EC2 VPC

VPC dashboard EC2 Global View Filter by VPC: Select a VPC

Virtual private cloud Your VPCs Subnets Route tables Internet gateways Egress-only internet gateways Carrier gateways DHCP option sets Elastic IPs Managed prefix lists Endpoints Endpoint services

Transit gateway attachments (1) info Actions Create transit gateway attachment

Find transit gateway attachment by attribute or tag

Name	Transit gateway attachment ID	Transit gateway ID	State	Resource...
my tga 1	tgw-attach-0cf43e1e76c65a27	tgw-042a5a8f3a25a6789	Available	VPC

Select a transit gateway attachment

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VPC | us-east-1 | +

us-east-1.console.aws.amazon.com/vpc/home?region=us-east-1#CreateTransitGatewayAttachment:

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S3 EC2 VPC

A transit gateway (TGW) is a network transit hub that interconnects attachments (VPCs and VPNs) within the same AWS account or across AWS accounts.

Details

Name tag - optional  
Creates a tag with the key set to Name and the value set to the specified string.  
my peer

Transit gateway ID | Info  
tgw-042a5a8f3a25a6789

Attachment type | Info  
Peering Connection

Peering connection attachment  
Select and configure your peering connection attachment.

Account | Info  
My account  
Other account

Region | Info

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**Edit routes**

Destination	Target	Status	Propagation
30.0.0.0/16	local	Active	No
20.0.0.0/16	Transit Gateway tgw-0d4e6763a4b0b9a1b	Active	No
0.0.0.0/0	Internet Gateway igw-00f2d3a3459dcc7e9	Active	No

**Add route** Preview **Save changes**

**Create transit gateway attachment**

**Tags - optional**  
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
Name	my peer

**Create transit gateway attachment**

- And now go to accepter account and go to transit gateway attachments and its showing status pending acceptance click on that attachment id then accept transit gateway attachments.
- After accept transit gateway its shown status is available both the accounts.

The screenshot shows the AWS VPC console with the URL <https://us-east-1.console.aws.amazon.com/vpc/home?region=us-east-1#TransitGatewayAttachments>. The left sidebar includes sections for EC2, IAM, VPC, Verified Access groups, Transit gateways, Traffic Mirroring, and VPC Lattice. The main area displays a success message: "Accept transit gateway peering attachment(tgw-attach-0975d69f7c425de0d) succeeded." Below this is a table titled "Transit gateway attachments (1/2)" with one row:

Name	Transit gateway attachment ID	Transit gateway ID	State	Resource Type
<input checked="" type="checkbox"/> tgw-attach-0975d69f7c425de0d	tgw-0d4e6763a4b0b9a1b	Pending	Peering	VPC
<input type="checkbox"/> tga-2	tgw-attach-0159090f6bb76ae1d	tgw-0d4e6763a4b0b9a1b	Available	VPC

Below the table, a detailed view for "Transit gateway attachment: tgw-attach-0975d69f7c425de0d" is shown with tabs for Details, Flow logs, and Tags. The Details section shows:

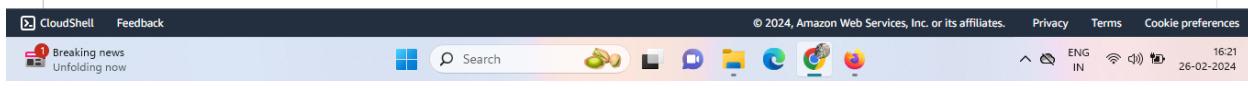
Transit gateway attachment ID	Requester ID	Acceptor ID	State
tgw-attach-0975d69f7c425de0d	tgw-042a5a8f3a25a6789	tgw-0d4e6763a4b0b9a1b	Pending

The bottom of the screen shows the AWS footer with links for CloudShell, Feedback, and breaking news, along with system status icons and the date 26-02-2024.

- Both the accounts create a static route.
- Go to Transit gateway route table and select transit gateway route table
- In first account go to actions and create static route and enter CIDR of VPC – 2 and select attachment of peering.
- In second account go to actions and create static route and enter CIDR of VPC – 1 and select attachment of peering.

Transit gateway attachments (2) <a href="#">info</a>						
<input type="text" value="Find transit gateway attachment by attribute or tag"/> <a href="#">Actions</a> <a href="#">Create transit gateway attachment</a> <a href="#">?</a>						
Name	Transit gateway attachment ID	Transit gateway ID	State	Resource type	Resource ID	⋮
mypeer	tgw-attach-01cb625c8d8a928ee	tgw-042a5a8f3a25a6789	<span>Available</span>	Peering	tgw-0d4e6763a4b0b9a1b	<a href="#">View</a>
my tga 1	tgw-attach-0cf43e1e76c65a27	tgw-042a5a8f3a25a6789	<span>Available</span>	VPC	vpc-0b527ad440941403c	<a href="#">View</a>

Select a transit gateway attachment



### Create Static Route [Info](#)

Add a static route to your transit gateway route table.

**Details**

Transit gateway ID  
tgw-042a5a8f3a25a6789

Transit gateway route table ID  
tgw-rtb-05cdab1f9112e

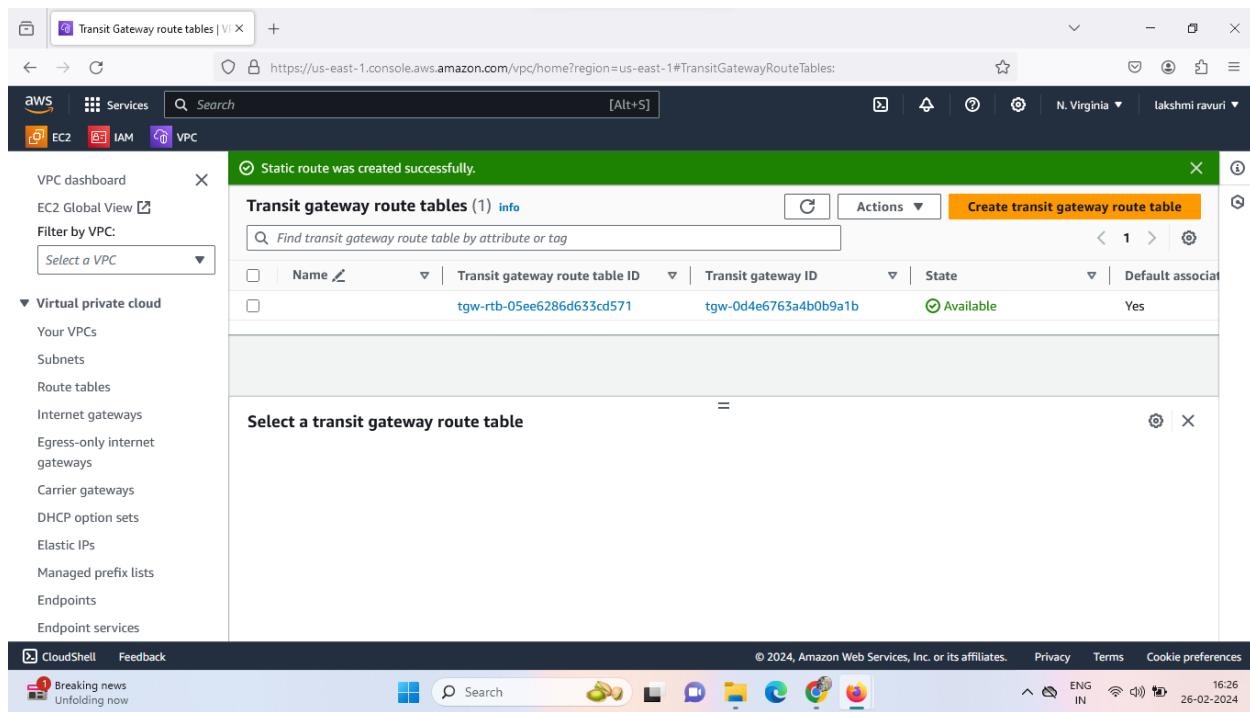
CIDR [Info](#)  
30.0.0.0/16

Type [Info](#)  
 Active  
 Blackhole

Choose attachment  
tgw-attach-01cb625c8d8a928ee

[Cancel](#) [Create static route](#)





- After creating static routes then launch instances in two accounts and connect the instances
- After connect the instance check account to account connection is working or not
- Command is

**Yum install nginx -y  
Systemctl status nginx  
Systemctl start nginx  
Curl private ip of account 2 (or) account 1**

The screenshot shows the AWS EC2 Dashboard for the US East (N. Virginia) Region. The left sidebar includes links for EC2 Global View, Events, Console-to-Code, Instances (with sub-links for Instances, Instance Types, Launch Templates, Spot Requests, Savings Plans, Reserved Instances, Dedicated Hosts, Capacity Reservations), and Images (with sub-links for AMIs). The main area displays a summary of resources: Instances (running) 0, Auto Scaling Groups 0, Dedicated Hosts 0, Elastic IPs 0, Instances 0, Key pairs 5, Load balancers 0, Placement groups 0, Security groups 5, Snapshots 0, and Volumes 0. Below this is a "Launch instance" button and a "Service health" section. On the right, the "EC2 Free Tier" section shows 2 EC2 free tier offers in use, with a note about exceeding the free tier limit. It also includes a link to "View Global EC2 resources".

The screenshot shows the "Launch an instance" wizard. Step 1: Set instance details. The "Name and tags" section has a "Name" field containing "ec1". The "Application and OS Images (Amazon Machine Image)" section is expanded, showing a search bar and a list of AMIs. The "Summary" section on the right shows settings for 1 instance, using the Amazon Linux 2023.3.2 AMI, t2.micro instance type, and New security group. The "Launch instance" button is highlighted in orange.

The screenshot shows the AWS EC2 Launch Instances wizard. In the left sidebar, under 'VPC - required', the VPC 'vpc-0b527ad440941403c (my-vpc-1)' is selected. Under 'Subnet', the subnet 'subnet-04afbd796db5c408a' is chosen. The 'Auto-assign public IP' dropdown is set to 'Enable'. Under 'Firewall (security groups)', the 'Create security group' radio button is selected. The security group name is 'launch-wizard-4'. A note states: 'This security group will be added to all network interfaces. The name can't be edited after the security group is created. Max length is 255 characters. Valid characters: a-z, A-Z, 0-9, spaces, and \_-/.@[]+=;&{}!\$\*'. The 'Description - required' field contains the text 'Launch wizard test'. On the right, the 'Summary' section shows the instance configuration: 1 instance, Amazon Linux 2023 AMI, t2.micro instance type, New security group, and 1 volume(s) - 8 GiB storage. The 'Launch instance' button is highlighted.

The screenshot shows the AWS EC2 Launch Instances wizard, Step 3: Configure security group rules. The user is creating a new security group named "New security group". They have added two rules:

- Security group rule 1 (TCP, 22, 0.0.0.0/0)**: Type: ssh, Protocol: TCP, Port range: 22, Source type: Anywhere.
- Security group rule 2 (TCP, 80, 30.0.0.0/16)**: Type: HTTP, Protocol: TCP, Port range: 80, Source type: Custom, Source: 30.0.0.0/16.

A warning message at the bottom states: "⚠ Rules with source of 0.0.0.0/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only." A "Launch instance" button is visible on the right.

The screenshot shows the AWS EC2 Launch Instances wizard, Step 4: Launching instance. The progress bar indicates 21% completion. The status message says: "Creating security group rules". Below the progress bar, it says: "Please wait while we launch your instance. Do not close your browser while this is loading."

This screenshot is identical to the one above, showing the "Creating security group rules" step with a 21% completion bar and the instruction "Please wait while we launch your instance. Do not close your browser while this is loading."

Instance details | EC2 | us-east-1 X Home | EC2 | us-east-1 X + https://us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#instanceDetails:instanceId=i-091a61d8236159047

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EC2 Dashboard X EC2 Global View Events Console-to-Code Preview Instances Instances Instance Types Launch Templates Spot Requests Savings Plans Reserved Instances Dedicated Hosts Capacity Reservations New Images AMIs AMI Catalog

EC2 > Instances > i-091a61d8236159047

Instance summary for i-091a61d8236159047 (ec2) Info Updated less than a minute ago

Actions

Instance ID	Public IPv4 address	Private IPv4 addresses
i-091a61d8236159047 (ec2)	54.204.187.220 [open address]	30.0.34.136
IPv6 address	Instance state	Public IPv4 DNS
-	Running	-
Hostname type	Private IP DNS name (IPv4 only)	Elastic IP addresses
IP name: ip-30-0-34-136.ec2.internal	ip-30-0-34-136.ec2.internal	-
Answer private resource DNS name	Instance type	AWS Compute Optimizer finding
-	t2.micro	Opt-in to AWS Compute Optimizer for recommendations.
Auto-assigned IP address	VPC ID	Learn more
54.204.187.220 [Public IP]	vpc-0d89c2eeee506dec2 (my-vpc-2)	
IAM Role	Subnet ID	Auto Scaling Group name
-	subnet-00f3033e16894f30a (my-sub-1)	-

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The screenshot shows the AWS Management Console with the EC2 service selected. The main view displays the 'Instance summary' for the instance with ID `i-0d6b93c261bc92142`, which is currently running. Key details shown include its public IP address (`34.200.233.96`), private IP address (`20.0.32.151`), and instance type (`t2.micro`). The instance was auto-assigned the IP address `34.200.233.96`. Other visible information includes the VPC ID (`vpc-0b527ad440941403c`) and subnet ID (`subnet-04afbd796db5c408a`).

Instance summary for i-0d6b93c261bc92142 (ec1)	
Instance ID	i-0d6b93c261bc92142 (ec1)
IPv6 address	-
Hostname type	IP name: ip-20-0-32-151.ec2.internal
IP name:	ip-20-0-32-151.ec2.internal
Answer private resource DNS name	-
Auto-assigned IP address	-
IAM Role	-
IMDSv2	Required
Public IPv4 address	34.200.233.96 <a href="#">Open address</a>
Instance state	<span>Running</span>
Private IP DNS name (IPv4 only)	ip-20-0-32-151.ec2.internal
Instance type	t2.micro
VPC ID	vpc-0b527ad440941403c
Subnet ID	subnet-04afbd796db5c408a
Private IPv4 addresses	20.0.32.151
Public IPv4 DNS	-
Elastic IP addresses	-
AWS Compute Optimizer finding	-
Auto Scaling Group name	-

WhatsApp

Transit gateway route tables | V

Connect to instance | EC2 | us-east-1

us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#ConnectToInstance:instanceId=i-0d6b93c261bc92142

AWS Services Search [Alt+S]

N. Virginia Annabathina. Akshitha

EC2 VPC

Instance ID  
i-0d6b93c261bc92142 (ec1)

Connection Type

Connect using EC2 Instance Connect  
Connect using the EC2 Instance Connect browser-based client, with a public IPv4 address.

Connect using EC2 Instance Connect Endpoint  
Connect using the EC2 Instance Connect browser-based client, with a private IPv4 address and a VPC endpoint.

Public IP address  
34.200.233.96

Username  
Enter the username defined in the AMI used to launch the instance. If you didn't define a custom username, use the default username, ec2-user.  
Q ec2-user X

**Note:** In most cases, the default username, ec2-user, is correct. However, read your AMI usage instructions to check if the AMI owner has changed the default AMI username.

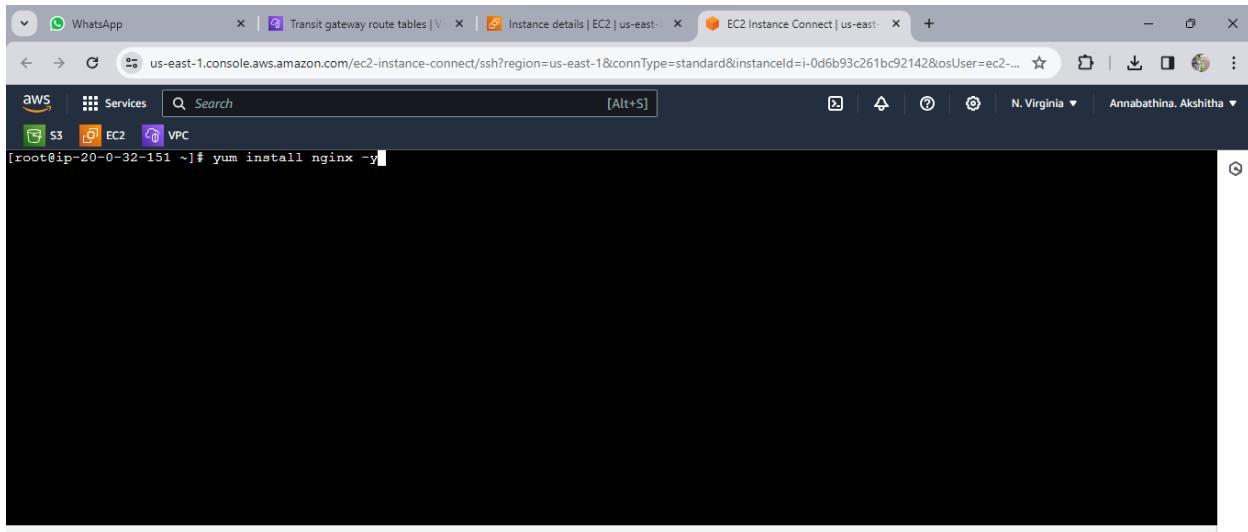
Cancel Connect

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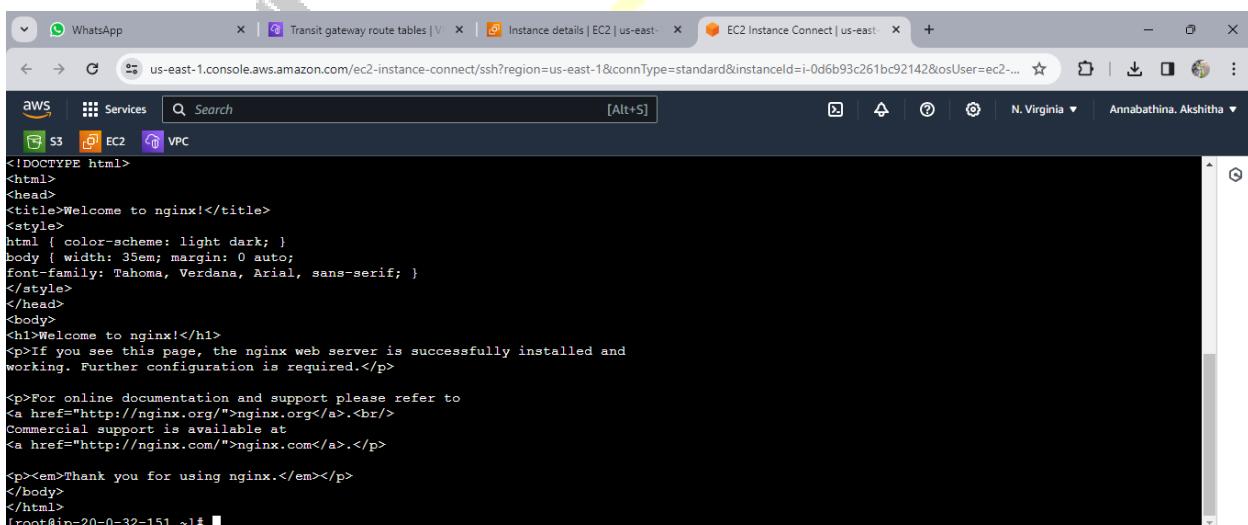
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```
[root@ip-20-0-32-151 ~]# yum install nginx -y
```

i-0d6b93c261bc92142 (ec1)

PublicIPs: 34.200.233.96 PrivateIPs: 20.0.32.151



```
<!DOCTYPE html>
<html>
<head>
<title>Welcome to nginx!</title>
<style>
html { color-scheme: light dark; }
body { width: 35em; margin: 0 auto;
font-family: Tahoma, Verdana, Arial, sans-serif; }
</style>
</head>
<body>
<h1>Welcome to nginx!</h1>
<p>If you see this page, the nginx web server is successfully installed and
working. Further configuration is required.</p>
<p>For online documentation and support please refer to
<a href="http://nginx.org/">http://nginx.org/.<br/>
Commercial support is available at
<a href="http://nginx.com/">http://nginx.com/.</p>
<p><em>Thank you for using nginx.</em></p>
</body>
</html>
```

[root@ip-20-0-32-151 ~]#

i-0d6b93c261bc92142 (ec1)

PublicIPs: 34.200.233.96 PrivateIPs: 20.0.32.151



Screenshot of an AWS EC2 instance terminal showing the Nginx welcome page. The terminal window title is "Instance details | EC2 | us-east-1" and the tab title is "EC2 Instance Connect | us-east-1". The URL is https://us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-091a61d823615. The content of the terminal shows the standard Nginx welcome message.

```
<!DOCTYPE html>
<html>
<head>
<title>Welcome to nginx!</title>
<style>
html { color-scheme: light dark; }
body { width: 35em; margin: 0 auto;
font-family: Tahoma, Verdana, Arial, sans-serif; }
</style>
</head>
<body>
<h1>Welcome to nginx!</h1>
<p>If you see this page, the nginx web server is successfully installed and
working. Further configuration is required.</p>
<p>For online documentation and support please refer to
<a href="http://nginx.org/">http://nginx.org/.<br/>
Commercial support is available at
<a href="http://nginx.com/">http://nginx.com/.</p>
<p><em>Thank you for using nginx.</em></p>
</body>
</html>
[root@ip-30-0-34-136 ~]#
```

i-091a61d8236159047 (ec2)  
Public IPs: 54.204.187.220 Private IPs: 30.0.34.136

