



ASSIGNMENT - 2

COURSE : DEVOPS

Trainer : Mr. MADHUKAR

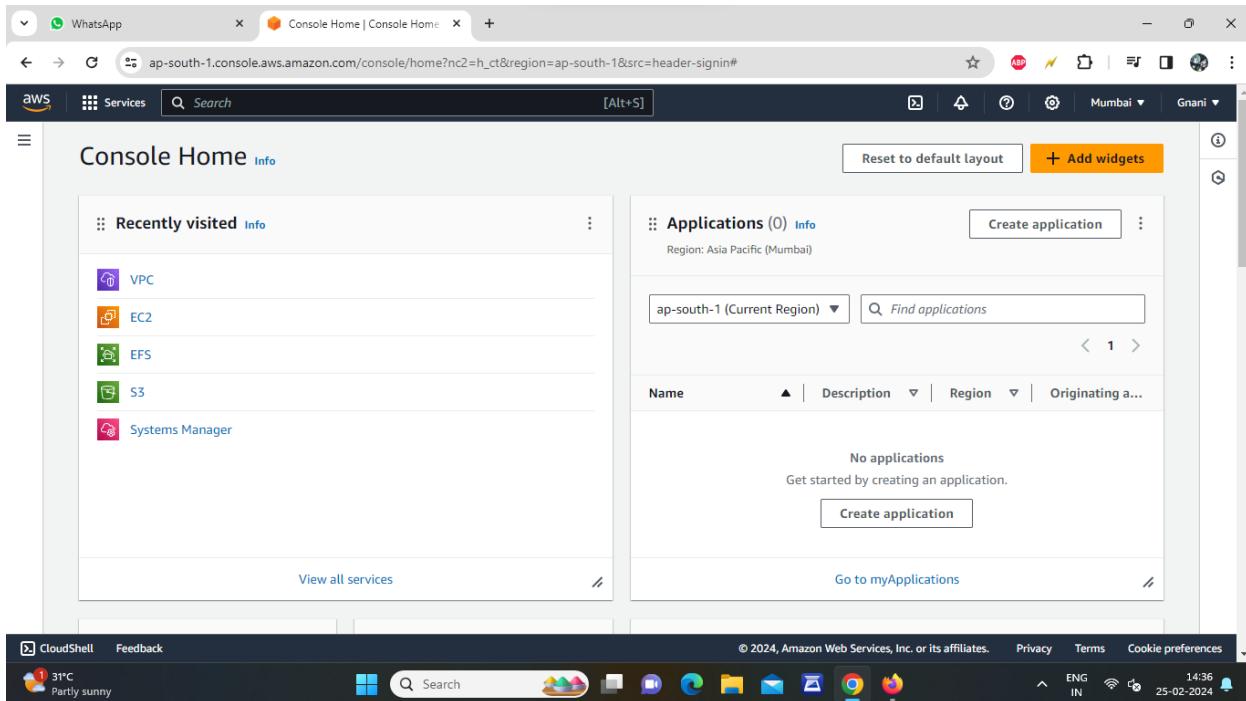
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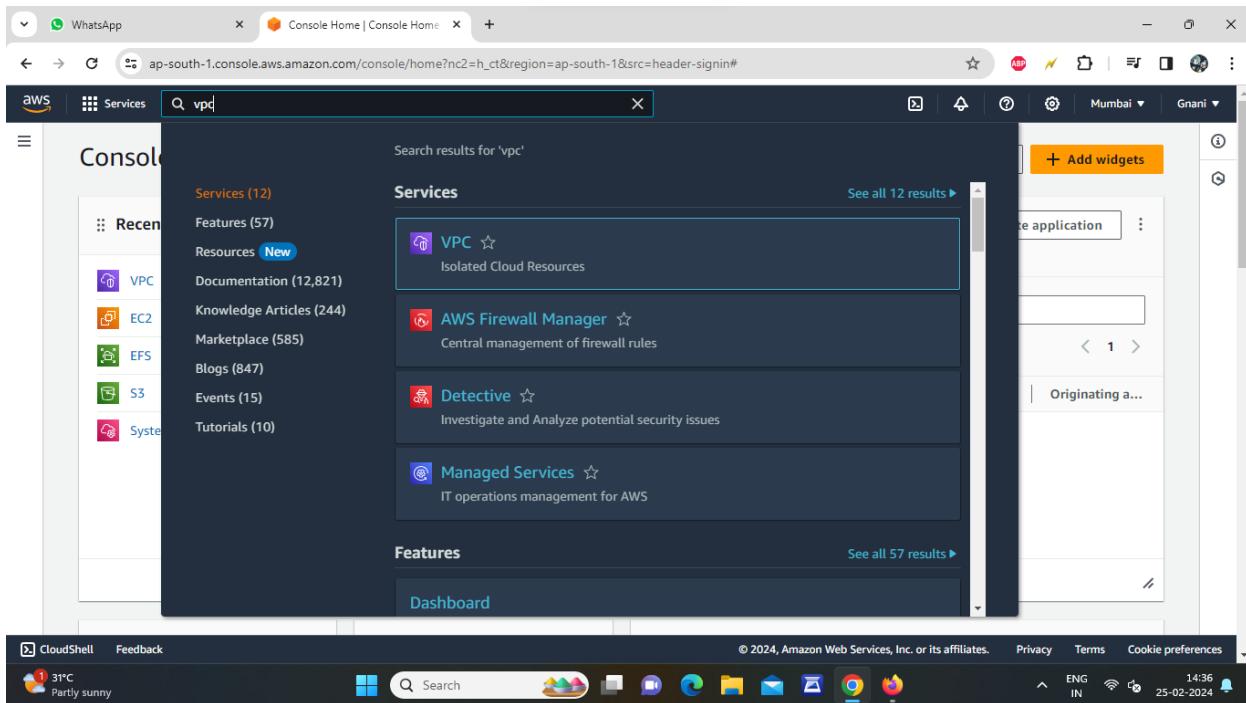
Software Solutions Pvt. Ltd.

Q) Create transit 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 'Virtual private cloud' options like Your VPCs, Subnets, Route tables, etc. In the center, there's a 'Resources by Region' section with cards for VPCs, Subnets, Route Tables, Internet Gateways, and more. On the right, there are sections for 'Service Health', 'Settings', 'Additional Information', and 'AWS Network Manager'. At the top right, there's a 'Create VPC' button.

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

The screenshot shows the 'CreateVpc | VPC Console' page. It has fields for 'IPv4 CIDR' (set to 25.0.0.0/16), 'IPv6 CIDR block' (radio button for 'No IPv6 CIDR block'), 'Tenancy' (set to 'Default'), and a 'Tags' section where a tag 'Name: my-vpc1' is added. The page includes a note about tag usage and a 'CloudShell' button at the bottom.

WhatsApp CreateVpc | VPC Console

ap-south-1.console.aws.amazon.com/vpcconsole/home?region=ap-south-1#CreateVpc:createMode=vpcOnly

AWS Services Search [Alt+S]

25.0.0.0/16 CIDR block 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

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

Create VPC

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WhatsApp VpcDetails | VPC Console

ap-south-1.console.aws.amazon.com/vpcconsole/home?region=ap-south-1#VpcDetails:vpcId=vpc-06c8f11ce1adf43bd

AWS Services Search [Alt+S]

You successfully created vpc-06c8f11ce1adf43bd / my-vpc-1

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 DHCP option sets Elastic IPs Managed prefix lists Endpoints Endpoint services NAT gateways Peering connections

vpc-06c8f11ce1adf43bd / my-vpc-1

Actions

Details Info

| VPC ID | State | DNS hostnames | DNS resolution |
|-------------------------------|--|-----------------------|----------------------------------|
| vpc-06c8f11ce1adf43bd | Available | Disabled | Enabled |
| Tenancy | DHCP option set | Main route table | Main network ACL |
| Default | dopt-0422779b533f3854f | rtb-094995a6eee43e29a | acl-0fd1d2025236e6f01 |
| Default VPC | IPv4 CIDR | IPv6 pool | IPv6 CIDR (Network border group) |
| No | 25.0.0.0/16 | - | - |
| Network Address Usage metrics | Route 53 Resolver DNS Firewall rule groups | Owner ID | |
| Disabled | - | 339712715437 | |

Resource map CIDs Flow logs Tags Integrations

Resource map Info

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

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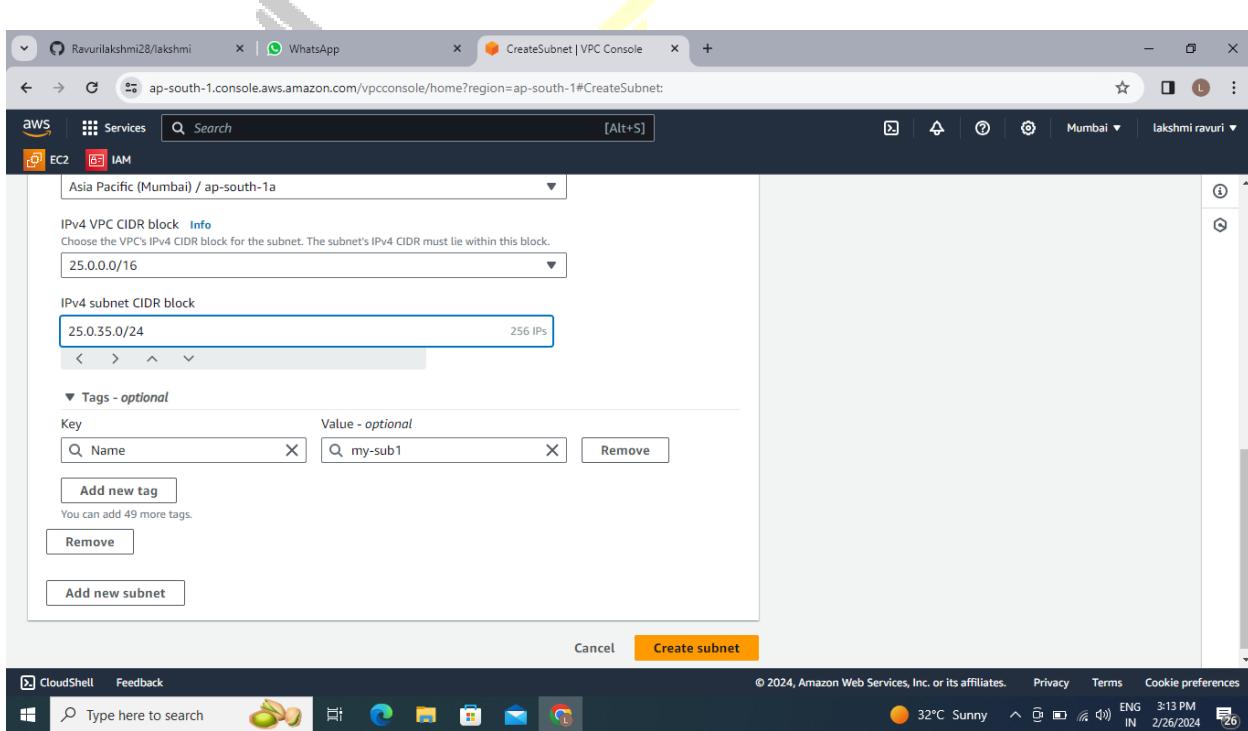
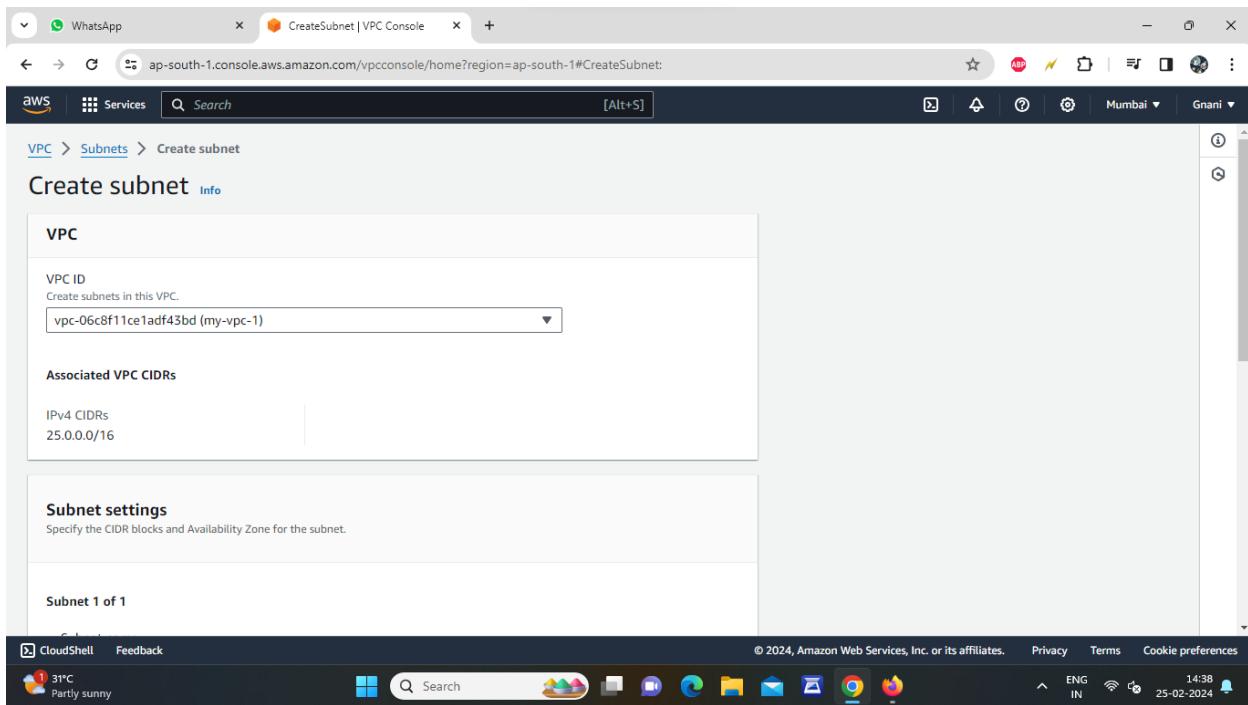
- Go to Subnets and Click on create subnet

The screenshot shows the AWS VPC Console with the Subnets page open. The left sidebar shows the VPC dashboard and various subnets under the Virtual private cloud section. The main area displays a table of subnets:

| Name | Subnet ID | State | VPC | IPv4 CIDR |
|------|--|-----------|---------------------------------------|-----------|
| - | subnet-0c86bc5980cf503c9 | Available | vpc-03711f9d8b15e8db7 | 172.31. |
| - | subnet-0c8d4caadc1b05f74 | Available | vpc-03711f9d8b15e8db7 | 172.31. |
| - | subnet-020da50ad2a974a82 | Available | vpc-03711f9d8b15e8db7 | 172.31. |

A 'Select a subnet' dropdown is open at the bottom of the table. The footer includes standard AWS navigation links and a weather widget.

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



- 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 shows the AWS VPC Console with the 'Internet gateways' section selected. A single internet gateway is listed:

| Name | Internet gateway ID | State | VPC ID |
|------|-----------------------|----------|--------|
| - | igw-05fce84ca2bcee82e | Detached | - |

Below the table, a message says "Select an internet gateway above". The browser's address bar shows the URL: ap-south-1.console.aws.amazon.com/vpcconsole/home?region=ap-south-1#igws:.

The screenshot shows the 'Create internet gateway' wizard. The first step, 'Internet gateway settings', is completed with a name tag 'my-igw-1'. The second step, 'Tags - optional', shows a single tag 'Name: my-igw-1'. The final step, 'Review', is not shown.

Create internet gateway Info

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.
my-igw-1

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 |
|--------|-------------------|
| Q Name | my-igw-1 X Remove |

Add new tag
You can add 49 more tags.

Cancel **Create internet gateway**

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

The screenshot shows the AWS VPC Internet Gateways console. The left sidebar is collapsed, showing options like VPC dashboard, EC2 Global View, Filter by VPC, Virtual private cloud, Your VPCs, Subnets, Route tables, Internet gateways (which is selected), Egress-only internet gateways, DHCP option sets, Elastic IPs, Managed prefix lists, Endpoints, Endpoint services, NAT gateways, and Peering connections. The main content area shows the details of an Internet Gateway with the ID `igw-0baf75bb5161a9420`, named `my-igw-1`. The details table includes columns for Internet gateway ID, State (Detached), VPC ID (empty), and Owner (339712715437). Below the details is a tags section with a search bar and a table showing a single tag: Name `my-igw-1`. A "Manage tags" button is also present. The top navigation bar shows the URL `ap-south-1.console.aws.amazon.com/vpcconsole/home?region=ap-south-1#InternetGateway:internetGatewayId=igw-0baf75bb5161a9420` and the AWS logo.

The screenshot shows the AWS VPC Console interface. The top navigation bar includes tabs for Raurvilakshmi28/lakshmi, WhatsApp, and InternetGateway | VPC Console. The main search bar contains the URL ap-south-1.console.aws.amazon.com/vpcconsole/home?region=ap-south-1#InternetGateway:id=igw-Offf8ceab64239209d. The AWS Services menu is open, showing EC2 and IAM as selected options. The left sidebar is collapsed, showing a list of VPC-related services: Virtual private cloud, Your VPCs, Subnets, Route tables, Internet gateways (selected), Egress-only internet gateways, DHCP option sets, Elastic IPs, Managed prefix lists, Endpoints, Endpoint services, and NAT gateways. The main content area displays the details for an Internet gateway named 'igw-Offf8ceab64239209d / my-igw1'. The 'Details' tab is active, showing the Internet gateway ID (igw-Offf8ceab64239209d), State (Detached), VPC ID (-), and Owner (89137). A context menu on the right provides actions: Attach to VPC (selected), Detach from VPC, Manage tags, and Delete. Below the details, the 'Tags' section shows a single tag named 'my-igw1'. The bottom of the screen features the Windows taskbar with various pinned icons and the system tray showing the date and time.

The screenshot shows the AWS VPC Internet Gateways console. A search bar at the top has 'vpc-06c8f11ce1adf43bd' entered. Below it, a table lists 'Available VPCs' with one entry: 'vpc-06c8f11ce1adf43bd'. At the bottom right of the table are 'Cancel' and 'Attach internet gateway' buttons.

The screenshot shows the 'Details' tab for the internet gateway 'igw-Off8ceab64239209d / my-igw1'. Key information includes:

- Internet gateway ID: igw-Off8ceab64239209d
- State: Attached
- VPC ID: vpc-07b6e40b0a08f80c1 | my-vpc1
- Owner: 891377137975

The 'Tags' section shows a single tag: Name = my-igw1. There is a 'Manage tags' button.

- 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 RouteTables | VPC Console

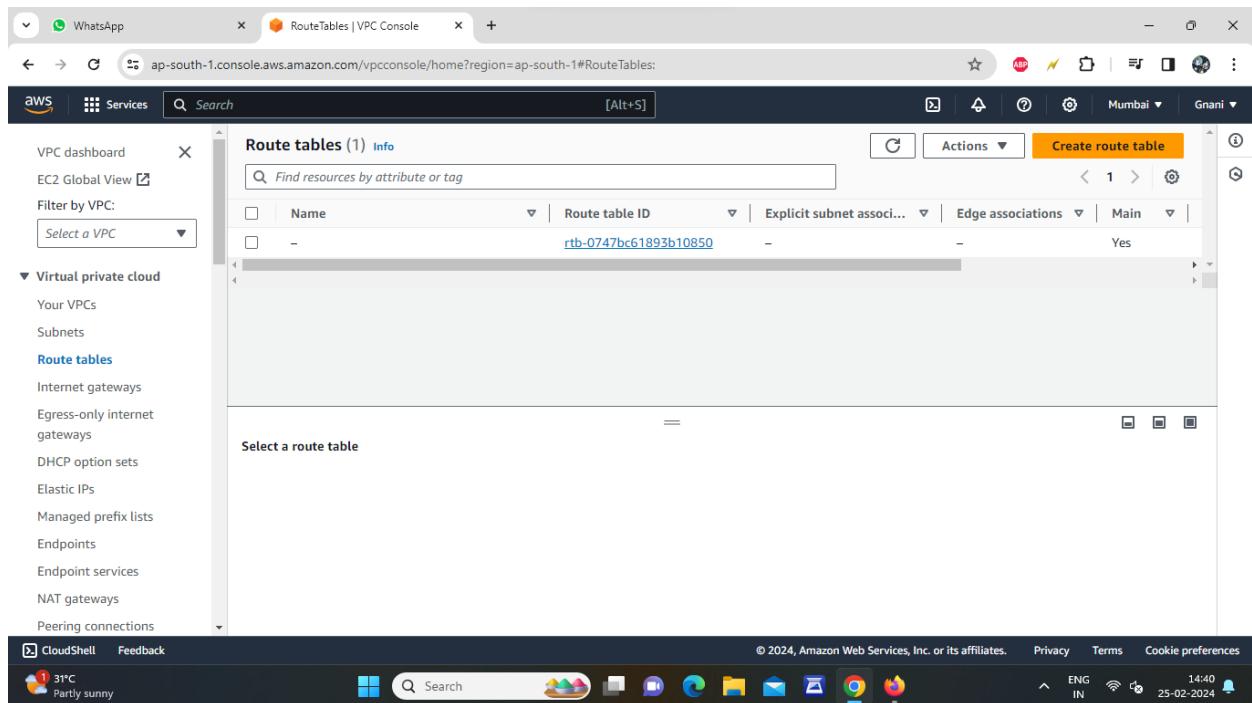
ap-south-1.console.aws.amazon.com/vpcconsole/home?region=ap-south-1#RouteTables:

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 DHCP option sets Elastic IPs Managed prefix lists Endpoints Endpoint services NAT gateways Peering connections CloudShell Feedback 31°C Partly sunny Search © 2024, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences ENG IN 14:40 25-02-2024

Route tables (1) Info

| Name | Route table ID | Explicit subnet associ... | Edge associations | Main |
|------|-----------------------|---------------------------|-------------------|------|
| - | rtb-0747bc61893b10850 | - | - | Yes |

Select a route table



WhatsApp CreateRouteTable | VPC Console

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

AWS Services Search [Alt+S] Mumbai Gnani

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

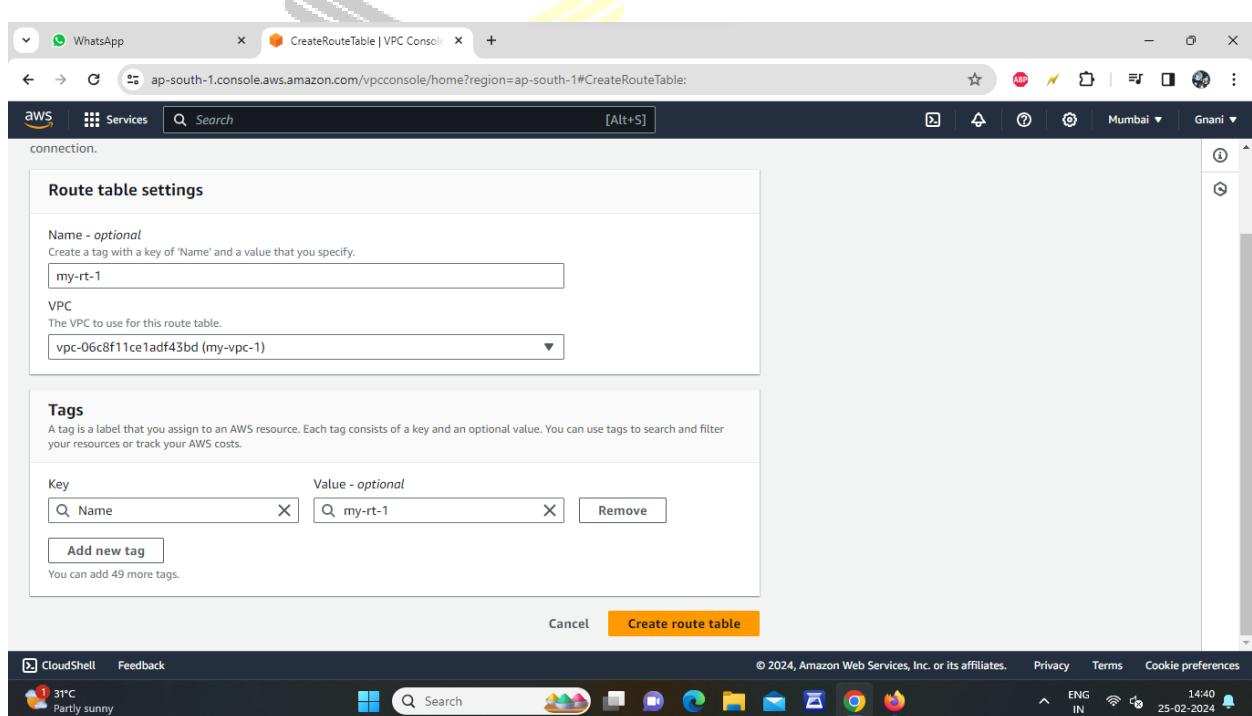
A tag is a label that you assign to an AWS resource. Each tag consists of a key and an optional value. You can use tags to search and filter your resources or track your AWS costs.

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

Add new tag
You can add 49 more tags.

Cancel Create route table

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The screenshot shows the AWS VPC console with the URL ap-south-1.console.aws.amazon.com/vpcconsole/home?region=ap-south-1#RouteTableDetails:RouteTableId=rtb-05832c705a07edf68. A success message at the top states: "Route table rtb-05832c705a07edf68 | my-rt-1 was created successfully." The main pane displays the details of the newly created route table, including its ID (rtb-05832c705a07edf68), name (my-rt-1), and associations. The "Routes" tab shows one route entry: Destination 25.0.0.0/16, Target local, Status Active, and Propagated No. The sidebar on the left lists various AWS services like Verified Access trust providers, Transit gateways, and Traffic Mirroring.



- 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

WhatsApp

Transit gateways | VPC | ap-south-1

ap-south-1.console.aws.amazon.com/vpc/home?region=ap-south-1#TransitGateways:

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
- DHCP option sets
- Elastic IPs
- Managed prefix lists
- Endpoints
- Endpoint services
- NAT gateways
- Peering connections

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Search

No transit gateways

You do not have any transit gateways in this region

Create transit gateway

Select a transit gateway

CloudShell Feedback

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Search

CloudShell Feedback

CloudShell Feedback

WhatsApp

VPC | ap-south-1

ap-south-1.console.aws.amazon.com/vpc/home?region=ap-south-1#CreateTransitGateway:

AWS Services Search [Alt+S]

VPC > Transit gateways > Create transit gateway

Create transit gateway Info

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 - optional

Name tag

Creates a tag with the key set to Name and the value set to the specified string.

my-tg-1

Description

Set the rule allow me allowed allowed to identify it in the future.

allow

Configure the transit gateway

Amazon side Autonomous System Number (ASN) Info

ASN

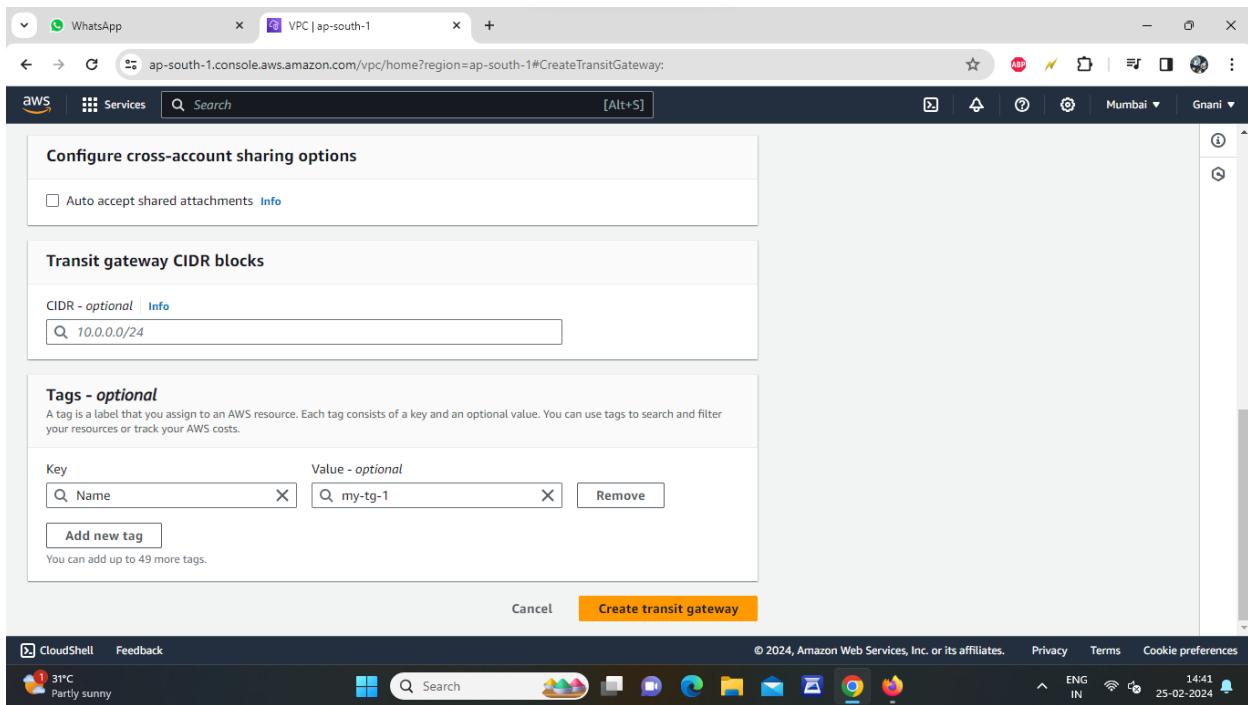
DNS support Info

CloudShell Feedback

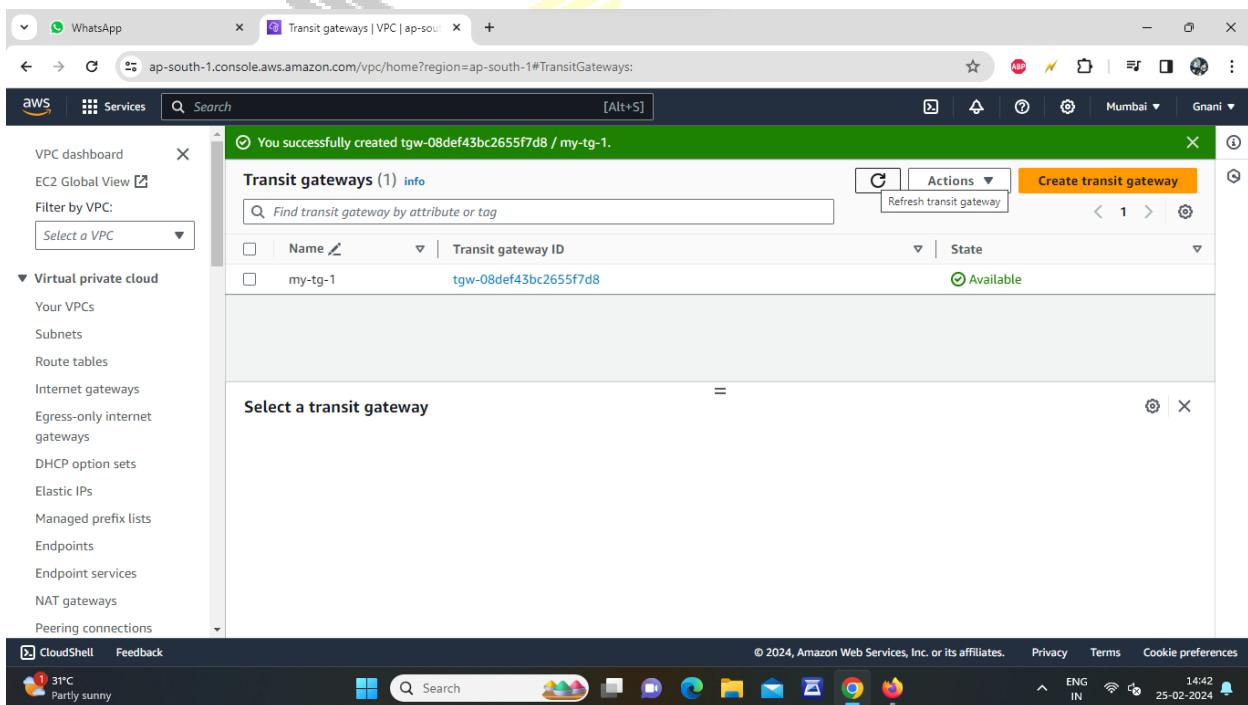
31°C Partly sunny

CloudShell Feedback

CloudShell Feedback



- 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

You successfully created tgw-08def43bc2655f7d8 / my-tg-1.

Transit gateways (1) info

| Name | Transit gateway ID | State |
|---------|-----------------------|-----------|
| my-tg-1 | tgw-08def43bc2655f7d8 | Available |

Select a transit gateway

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You can visualize and monitor your Transit Gateway(s) from the [AWS Network Manager](#). Register your Transit Gateway by creating a [global network](#) to get started.

Transit gateway attachments info

| Name | Transit gateway attachment ID | Transit gateway ID | State | Resources |
|--------------------------------|-------------------------------|--------------------|-------|-----------|
| No transit gateway attachments | | | | |

Select a transit gateway attachment

CloudShell Feedback RAVURILAKSHMI28/lakshmi WhatsApp Github links (5pm) - Google Slides Transit gateway attachments ENG IN 32°C Mostly sunny 3:23 PM 2/26/2024

The screenshot shows the AWS VPC console interface for creating a transit gateway attachment. It consists of five sequential steps:

- Step 1:** Basic configuration. Fields include 'Name tag - optional' (my-tga-1), 'Transit gateway ID' (tgw-079e458b19a17ee92), and 'Attachment type' (VPC).
- Step 2:** VPC attachment settings. Includes checkboxes for 'DNS support' (checked), 'IPv6 support' (unchecked), and 'Appliance Mode support' (unchecked). A dropdown for 'VPC ID' shows 'vpc-0576f91a094900969'.
- Step 3:** Subnet selection. Shows 'Subnet IDs' (ap-south-1a selected) and subnets: subnet-0f2299cece2a9cc08, subnet-0aeacaacca865ad16d, subnet-044ddda72e4afcef6.
- Step 4:** Tags - optional. Adds a tag 'my-tga-1' with key 'Name'.
- Step 5:** Final step with 'Create transit gateway attachment' button.

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

The screenshot shows the AWS VPC console with a success message: "You successfully created VPC attachment tgw-attach-082b9a0e79b4ff37f / my-tga-1." A table lists the attachment details:

| Name | Transit gateway attachment ID | Transit gateway ID | State | Resource type | Resource ID |
|----------|-------------------------------|-----------------------|-----------|---------------|--------------------|
| my-tga-1 | tgw-attach-082b9a0e79b4ff37f | tgw-079e458b19a17ee92 | Available | VPC | vpc-0576f91a094... |

A modal window titled "Select a transit gateway attachment" is open.

- 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 console on the RouteTables page. It displays three route tables:

| Name | Route table ID | Explicit subnet associ... | Edge associations | Main | VPC |
|--------|-----------------------|---------------------------|-------------------|------|------------------------|
| - | rtb-016ae25fb4393c387 | - | - | Yes | vpc-0576f91a0949009 |
| my-rt1 | rtb-088e57edbd0629530 | - | - | No | vpc-07b6e40b0a08f80... |
| - | rtb-0aa135cc6ae4888d3 | - | - | Yes | vpc-07b6e40b0a08f80... |

A modal window titled "Select a route table" is open.

Ravurilakshmi28/lakshmi | WhatsApp | Github links (5pm) - Google Slides | RouteTableDetails | VPC Console

ap-south-1.console.aws.amazon.com/vpcconsole/home?region=ap-south-1#RouteTableDetails:RouteTableId=rtb-088e57edbd0629530

VPC > Route Tables > rtb-088e57edbd0629530

rtb-088e57edbd0629530 / my-rt1

Actions

Details Info

| | | | |
|--------------------------------|--------------|------------------------------|-------------------|
| Route table ID | Main | Explicit subnet associations | Edge associations |
| rtb-088e57edbd0629530 | No | - | - |
| VPC | Owner ID | Edge associations | |
| vpc-07b6e40b0a08f80c1 my-vpc | 891377137975 | - | |

Routes Subnet associations Edge associations Route propagation Tags

Routes (1)

| Destination | Target | Status | Propag... |
|-------------|--------|--------|-----------|
| 25.0.0.0/16 | local | Active | No |

Both Edit routes

Filter routes

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Ravurilakshmi28/lakshmi | WhatsApp | Github links (5pm) - Google Slides | RouteTables | VPC Console

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

aws Services Search [Alt+S]

EC2 IAM

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 DHCP option sets Elastic IPs Managed prefix lists Endpoints Endpoint services NAT gateways Peering connections Security CloudShell Feedback

Route tables (1/3) Info

| Name | Route table ID | Explicit subnet assoc... | Edge associations | Main | VPC |
|--|-----------------------|--------------------------|-------------------|------|-----------------------|
| rtb-016ae25fb4393c387 | - | - | - | Yes | vpc-0576f91a0949009 |
| <input checked="" type="checkbox"/> my-rt1 | rtb-088e57edbd0629530 | - | - | No | vpc-07b6e40b0a08f80c1 |
| - | rtb-0aa135cc6ae4888d3 | - | - | Yes | vpc-07b6e40b0a08f80c1 |

Create route table

rtb-088e57edbd0629530 / my-rt1

Details Routes Subnet associations Edge associations Route propagation Tags

Explicit subnet associations (0)

| Name | Subnet ID | IPv4 CIDR | IPv6 CIDR |
|------------------------|-----------|-----------|-----------|
| No subnet associations | | | |

Edit subnet associations

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The screenshot shows the AWS VPC console with the URL ap-south-1.console.aws.amazon.com/vpcconsole/home?region=ap-south-1#EditRouteTableSubnetAssociations:RouteTableId=rtb-088e57edbd0629530. The page title is "Edit subnet associations". The main content area displays a table titled "Available subnets (1/1)". One subnet, "my-sub1" (subnet-08e8e8e99ebd63f48), is listed with an IPv4 CIDR of 25.0.35.0/24 and is associated with the "Main (rtb-0aa135cc6ae4888d3)" route table. Below the table is a "Selected subnets" section containing the same subnet entry. At the bottom right are "Cancel" and "Save associations" buttons.



- 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.

Screenshot of the AWS VPC console showing the successful update of subnet associations for a route table.

The URL is ap-south-1.console.aws.amazon.com/vpcconsole/home?region=ap-south-1#RouteTableDetails:routeTableId=rtb-05832c705a07edf68.

Details Info

| | | | |
|--|--------------------------|---|------------------------|
| Route table ID rtb-05832c705a07edf68 | Main No | Explicit subnet associations subnet-06c57a3b791a1a839 / my-sub-1 | Edge associations - |
| VPC vpc-06c8f11ce1adbf43bd my-vpc-1 | Owner ID 339712715437 | | |

Routes (1)

| Destination | Target | Status | Propagated |
|-------------|--------|--------|------------|
| 25.0.0.0/16 | local | Active | No |

Actions

- Actions ▾
- Create route table
- View details
- Set main route table
- Edit subnet associations
- Edit edge associations
- Edit route propagation
- Edit routes (highlighted)
- Manage tags
- Delete route table

Screenshot of the AWS VPC console showing the successful update of subnet associations for a route table.

The URL is ap-south-1.console.aws.amazon.com/vpcconsole/home?region=ap-south-1#RouteTables.

Route tables (1/3) Info

| Name | Route table ID | Explicit subnet assoc... | Edge associations |
|--|-----------------------|--------------------------|-------------------|
| - | rtb-016ae25fb4393c397 | - | - |
| <input checked="" type="checkbox"/> my-rt1 | rtb-088e57edbd0629530 | subnet-08e8e8e99ebd63... | - |
| - | rtb-0aa135cc6ae4888d3 | - | - |

rtb-088e57edbd0629530 / my-rt1

Details

| | | | |
|---|------------|--|------------------------|
| Route table ID rtb-088e57edbd0629530 | Main No | Explicit subnet associations subnet-08e8e8e99ebd63f48 / my-sub1 | Edge associations - |
|---|------------|--|------------------------|

Actions

- Actions ▾
- Create route table
- View details
- Set main route table
- Edit subnet associations
- Edit edge associations
- Edit route propagation
- Edit routes (highlighted)
- Manage tags
- Delete route table

| Destination | Target | Status | Propagated |
|-------------|------------------|--------|------------|
| 25.0.0.0/16 | local | Active | No |
| 35.0.0.0/16 | Transit Gateway | Active | No |
| 0.0.0.0/0 | Internet Gateway | Active | No |

Add route

Cancel Preview Save changes

Updated routes for rtb-03583f530e144b588 / my-rt1 successfully

rtb-03583f530e144b588 / my-rt1

Details Info

| | | | |
|---------------------------------------|------------------------|---|----------------------|
| Route table ID: rtb-03583f530e144b588 | Main: No | Explicit subnet associations: subnet-0292a585c2a633c2b / my-subnet1 | Edge associations: - |
| VPC: vpc-054594ce4ad742f15 my-vpc | Owner ID: 891377137975 | | |

Routes (3)

| Destination | Target | Status | Propagated |
|-------------|-----------------------|--------|------------|
| 0.0.0.0/0 | igw-0a3dae76ebd924e0c | Active | No |
| 25.0.0.0/16 | local | Active | No |
| 35.0.0.0/16 | tgw-087b1ced03e0fa3f0 | Active | No |

- 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, under 'Recently visited', there are links to EC2, VPC, S3, EFS, and IAM. On the right, under 'Applications (0)', it says 'Region: Asia Pacific (Mumbai)'. Below that is a search bar for 'Find applications' and a table header for 'Name', 'Description', 'Region', and 'Originating ac...'. A message at the bottom says 'No applications' and 'Get started by creating an application.' with a 'Create application' button.

The screenshot shows the AWS Console Home page with a search query 'vpc' entered in the search bar. The search results are displayed in two sections: 'Services' and 'Features'. In the 'Services' section, 'VPC' is highlighted as 'Isolated Cloud Resources'. Other services listed include AWS Firewall Manager, Detective, and Managed Services. In the 'Features' section, 'Dashboard' is listed. The rest of the interface is similar to the first screenshot, including the sidebar with recent services and the applications section.

VPC dashboard

EC2 Global View

Filter by VPC:

Virtual private cloud

- Your VPCs
- Subnets
- Route tables
- Internet gateways
- Egress-only internet gateways
- DHCP option sets
- Elastic IPs
- Managed prefix lists
- Endpoints
- Endpoint services
- NAT gateways
- Peering connections

Create VPC [Alt+S]

Note: Your Instances will launch in the Asia Pacific region.

Resources by Region

You are using the following Amazon VPC resources

| | | | |
|---------------------------------|-----------------|---------------------------------|------------------|
| VPCs | Asia Pacific: 1 | NAT Gateways | Asia Pacific: 0 |
| See all regions | | See all regions | |
| Subnets | Asia Pacific: 3 | VPC Peering Connections | Asia Pacific: 0 |
| See all regions | | See all regions | |
| Route Tables | Asia Pacific: 1 | Network ACLs | Asia Pacific: 1 |
| See all regions | | See all regions | |
| Internet Gateways | Asia Pacific: 1 | Security Groups | Asia Pacific: 19 |
| See all regions | | See all regions | |
| Egress-only Internet Gateways | Asia Pacific: 0 | Customer Gateways | Asia Pacific: 0 |
| See all regions | | See all regions | |

Service Health

[View complete service health details](#)

Settings

[Zones](#) [Console Experiments](#)

Additional Information

[VPC Documentation](#) [All VPC Resources](#)

[Forums](#) [Report an Issue](#)

AWS Network Manager

AWS Network Manager provides tools and features to help you manage and monitor your network on AWS. Network Manager makes it easier to perform connectivity management, network monitoring and troubleshooting, IP management, and network security and governance.

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CreateVpc | VPC Console

[Feedback](#)

31°C Partly sunny

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.

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

IPv4 CIDR

CIDR block size must be between /16 and /28.

IPv6 CIDR block [Info](#)
 No IPv6 CIDR block **IPAM-allocated IPv6 CIDR block**

CloudShell [Feedback](#)

32°C Mostly sunny ENG 4:18 PM IN 2/26/2024

VpcDetails | VPC Console

https://ap-south-1.console.aws.amazon.com/vpcconsole/home?region=ap-south-1#VpcDetails:VpcId=vpc-0fc64a72e0f27a32d

Mumbai Annabathina.Akhitha

You successfully created vpc-0fc64a72e0f27a32d / my-vpc2

vpc-0fc64a72e0f27a32d / my-vpc2

Actions

Details Info

| | | | |
|---|---|---|---|
| VPC ID vpc-0fc64a72e0f27a32d | State Available | DNS hostnames Disabled | DNS resolution Enabled |
| Tenancy Default | DHCP option set dopt-0fc74d48f0bb71ab1 | Main route table rtb-070d9329b6a528dd3 | Main network ACL acl-082ac2590bdeb88cb |
| Default VPC No | IPv4 CIDR 35.0.0.0/16 | IPv6 pool - | IPv6 CIDR (Network border group) - |
| Network Address Usage metrics Disabled | Route 53 Resolver DNS Firewall rule groups - | Owner ID 381492196962 | |

Resource map | CIDRs | Flow logs | Tags | Integrations

CloudShell Feedback

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32°C Mostly sunny ENG 4:18 PM IN 2/26/2024 28

CreateSubnet | VPC Console

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

Mumbai Annabathina.Akhitha

VPC > Subnets > Create subnet

Create subnet Info

VPC

VPC ID
Create subnets in this VPC.
vpc-0fc64a72e0f27a32d (my-vpc2)

Associated VPC CIDRs

IPv4 CIDRs
35.0.0.0/16

Subnet settings

Specify the CIDR blocks and Availability Zone for the subnet.

Subnet 1 of 1

CloudShell Feedback

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CreateSubnet | VPC Console

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

Services Search [Alt+S]

Mumbai Annabathina. Akshitha

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.
35.0.0.0/16

IPv4 subnet CIDR block
35.0.24.0/24 256 IPs

Tags - optional
Key Name Value - optional my-subnet2 Remove
Add new tag You can add 49 more tags.
Remove Add new subnet

Cancel Create subnet



You have successfully created 1 subnet: subnet-0a880c9be39c26628

Subnets (1) Info

Find resources by attribute or tag

Subnet ID : subnet-0a880c9be39c26628

| Name | Subnet ID | State | VPC | IP range |
|------------|--------------------------|-----------|---------------------------------|----------|
| my-subnet2 | subnet-0a880c9be39c26628 | Available | vpc-0fc64a72e0f27a32d my-v... | 35 |

Select a subnet

CloudShell Feedback Type here to search 32°C Mostly sunny ENG IN 4:19 PM 2/26/2024

Create internet gateway | VPC

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

Create internet gateway Info

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-igw2"/> <input type="button" value="Remove"/> |

You can add 49 more tags.

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InternetGateway | VPC Console X +

https://ap-south-1.console.aws.amazon.com/vpcconsole/home?region=ap-south-1#InternetGateway:id=igw-0f48e4288e5b2ea8c

Mumbai Annabathina, Akshitha

VPC dashboard Services Search [Alt+S]

S3 EC2 VPC

VPC > Internet gateways > igw-0f48e4288e5b2ea8c / my-igw2

Actions

Details Info

| | | | |
|--|-------------------|-------------|-----------------------|
| Internet gateway ID igw-0f48e4288e5b2ea8c | State Detached | VPC ID - | Owner 381492196962 |
|--|-------------------|-------------|-----------------------|

Tags

| | |
|------|---------|
| Key | Value |
| Name | my-igw2 |

CloudShell Feedback

Type here to search

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CloudShell Feedback

Type here to search

CloudShell Feedback

Type here to search

CloudShell Feedback

igws | VPC Console X +

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

Mumbai Annabathina, Akshitha

VPC dashboard Services Search [Alt+S]

S3 EC2 VPC

Internet gateways (1/2) Info

| Name | Internet gateway ID | State |
|---|-----------------------|----------|
| - | igw-063715072c0d0c7e5 | Attached |
| <input checked="" type="checkbox"/> my-igw2 | igw-0f48e4288e5b2ea8c | Detached |

Actions ▾ Create internet gateway

View details

Attach to VPC

Detach from VPC

Manage tags

Delete internet gateway

igw-0f48e4288e5b2ea8c / my-igw2

Details Tags

| | | |
|--|-------------------|-----------------------|
| Internet gateway ID igw-0f48e4288e5b2ea8c | State Detached | Owner 381492196962 |
|--|-------------------|-----------------------|

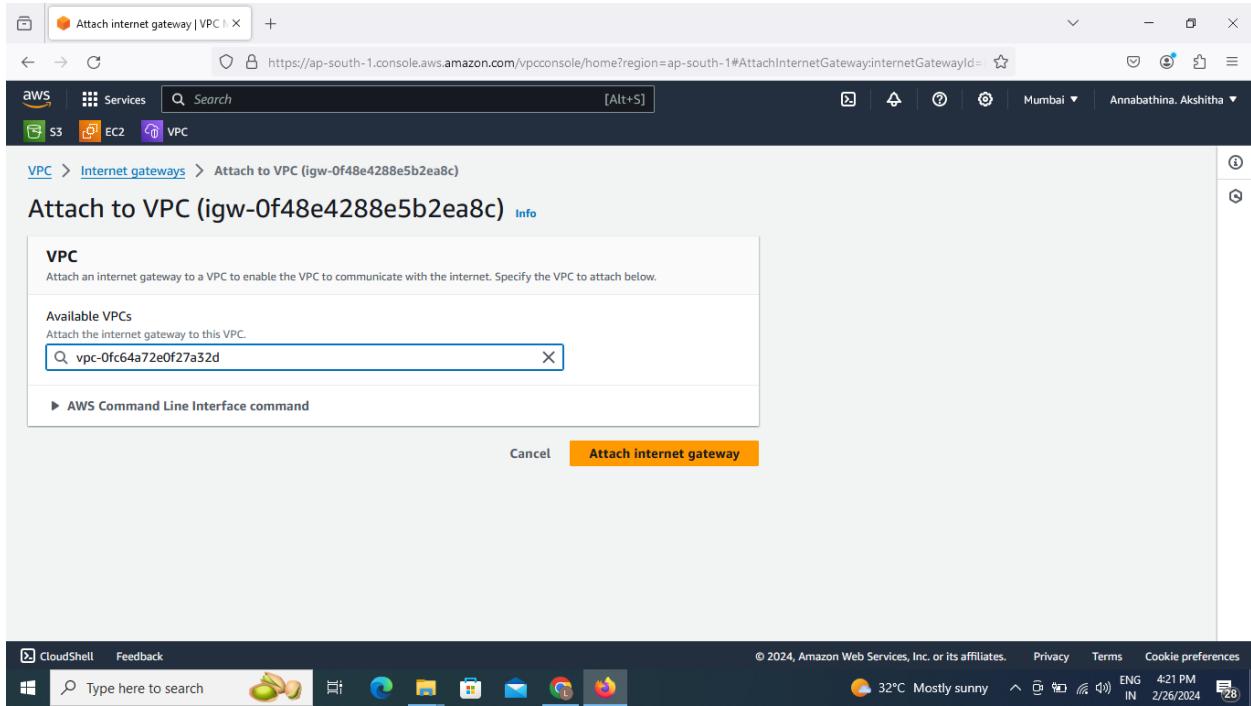
CloudShell Feedback

Type here to search

CloudShell Feedback

Type here to search

CloudShell Feedback



- 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.

CreateRouteTable | VPC Console X

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

Route table settings

Name - optional
Create a tag with a key of 'Name' and a value that you specify.
my-rt2

VPC
The VPC to use for this route table.
vpc-0fc64a72e0f27a32d (my-vpc2)

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-rt2 Remove

Add new tag

You can add 49 more tags.

Cancel Create route table

CloudShell Feedback Type here to search 32°C Mostly sunny 4:21 PM IN 2/26/2024

Transit gateways | VPC | ap-south-1

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

VPC dashboard Actions Create transit gateway

EC2 Global View

Filter by VPC: Select a VPC

Virtual private cloud

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

CloudShell Feedback Type here to search 32°C Mostly sunny 4:21 PM IN 2/26/2024

VPC | ap-south-1 https://ap-south-1.console.aws.amazon.com/vpc/home?region=ap-south-1#CreateTransitGateway; Mumbai; Annabathina.Akshitha

Services Search [Alt+S] VPC

VPC > Transit gateways > Create transit gateway

Create transit gateway Info

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 - optional

Name tag
Creates a tag with the key set to Name and the value set to the specified string.

Description Info
Set the description of your transit gateway to help you identify it in the future.

Configure the transit gateway

Amazon side Autonomous System Number (ASN) Info

DNS support Info

CloudShell Feedback Type here to search 32°C Mostly sunny 4:22 PM IN 2/26/2024

Configure cross-account sharing options

Auto accept shared attachments Info

Transit gateway CIDR blocks

CIDR - optional Info

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
 Remove

Add new tag You can add up to 49 more tags.

Cancel **Create transit gateway**

CloudShell Feedback Type here to search 32°C Mostly sunny 4:22 PM IN 2/26/2024

The screenshot shows the AWS VPC console with the URL <https://ap-south-1.console.aws.amazon.com/vpc/home?region=ap-south-1#TransitGateways>. The page displays a success message: "You successfully created tgw-06dc53d384605cc71 / my-igw2." Below this, a table lists one transit gateway:

| Name | Transit gateway ID | State |
|---------|-----------------------|-----------|
| my-igw2 | tgw-06dc53d384605cc71 | Available |

At the bottom right of the table, there is a link labeled "Select a transit gateway".

- 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.

Transit gateway attachments | X +

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

Mumbai Annabathina. Akshitha

Transit gateways

Transit gateway attachments

Transit gateway policy tables

Transit gateway route tables

Transit gateway multicast

Traffic Mirroring

Mirror sessions

Mirror targets

Mirror filters

Network Manager

Cloud WAN

VPC IP Address Manager

CloudShell Feedback

Type here to search

Find transit gateway attachment by attribute or tag

Actions Create transit gateway attachment

No transit gateway attachments

Select a transit gateway attachment

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VPC | ap-south-1 X +

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

Mumbai Annabathina. Akshitha

VPC > Transit gateway attachments > Create transit gateway attachment

Create transit gateway attachment Info

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.

Transit gateway ID [Info](#)

Attachment type [Info](#)

VPC attachment
Select and configure your VPC attachment.

DNS support [Info](#)

CloudShell Feedback

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VPC | ap-south-1

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

DNS support [Info](#)

IPv6 support [Info](#)

Appliance Mode support [Info](#)

VPC ID

Select the VPC to attach to the transit gateway.

vpc-0fc64a72e0f27a32d

Subnet IDs [Info](#)

Select the subnets in which to create the transit gateway VPC attachment.

ap-south-1a subnet-0a880c9be39c26628

ap-south-1b No subnet available

ap-south-1c No subnet available

subnet-0a880c9be39c26628 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.

CloudShell Feedback

Type here to search

RouteTables | VPC Console

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

CloudShell Feedback

Type here to search

Route tables (3) [Info](#)

Find resources by attribute or tag

| Name | Route table ID | Explicit subnet associ... | Edge associations | Main |
|--------|-----------------------|---------------------------|-------------------|------|
| my-rt2 | rtb-0ce8c6d076779de04 | - | - | No |
| - | rtb-080fc3f79e9c3a3f | - | - | Yes |
| - | rtb-070d9329b6a528dd3 | - | - | Yes |

Select a route table

CloudShell Feedback

Type here to search

RouteTableDetails | VPC Console

https://ap-south-1.console.aws.amazon.com/vpcconsole/home?region=ap-south-1#RouteTableDetails:RouteTableId=rtb-0ce8c6d076779de04

Mumbai 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 DHCP option sets Elastic IPs Managed prefix lists Endpoints Endpoint services NAT gateways

VPC > Route tables > rtb-0ce8c6d076779de04 / my-rt2

Actions

Details Info

| | | | |
|--------------------------------|----------|------------------------------|-------------------|
| Route table ID | Main | Explicit subnet associations | Edge associations |
| rtb-0ce8c6d076779de04 | No | - | - |
| VPC | Owner ID | 381492196962 | |
| vpc-0fc64a72e0f27a32d my-vpc | | | |

Routes Subnet associations Edge associations Route propagation Tags

Explicit subnet associations (0) Edit subnet associations

No subnet associations

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EditRouteTableSubnetAssociations | VPC Console

https://ap-south-1.console.aws.amazon.com/vpcconsole/home?region=ap-south-1#EditRouteTableSubnetAssociations:RouteTableId=rtb-0ce8c6d076779de04

Mumbai Annabathina, Akshitha

VPC > Route tables > rtb-0ce8c6d076779de04 > Edit subnet associations

Edit subnet associations

Change which subnets are associated with this route table.

Available subnets (1/1)

| | | | | |
|------------|--------------------------|--------------|-----------|------------------------------|
| Name | Subnet ID | IPv4 CIDR | IPv6 CIDR | Route table ID |
| my-subnet2 | subnet-0a880c9be39c26628 | 35.0.24.0/24 | - | Main (rtb-070d9329b6a528dd3) |

Selected subnets

subnet-0a880c9be39c26628 / my-subnet2

Cancel Save associations

CloudShell Feedback Type here to search 32°C Mostly sunny ENG 4:26 PM IN 2/26/2024

Ravurilakshmi28/lakshmi | (2) WhatsApp | Transit gateway attachments |

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

aws Services Search [Alt+S]

Mumbai lakshmi ravuri

VPC dashboard EC2 IAM VPC

You can visualize and monitor your Transit Gateway(s) from the AWS Network Manager. Register your Transit Gateway by creating a global network to get started.

Transit gateway attachments (2) info

Find transit gateway attachment by attribute or tag

Name Transit gateway attachment ID Transit gateway ID State Resource type Resource ID

| Name | Transit gateway attachment ID | Transit gateway ID | State | Resource type | Resource ID |
|----------|-------------------------------|-----------------------|-----------|---------------|--------------------|
| my-tga-1 | tgw-attach-082b9a0e79b4ff37f | tgw-079e458b19a17ee92 | Deleted | VPC | vpc-0576f91a094900 |
| my-tga-1 | tgw-attach-08e41795ae5888a07 | tgw-087b1ced03e0fa3f0 | Available | VPC | vpc-054594ce4ad742 |

Select a transit gateway attachment

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Ravurilakshmi28/lakshmi | (2) WhatsApp | VPC | ap-south-1

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

aws Services Search [Alt+S]

Mumbai lakshmi ravuri

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-087b1ced03e0fa3f0

Attachment type Info
Peering Connection

Peering connection attachment

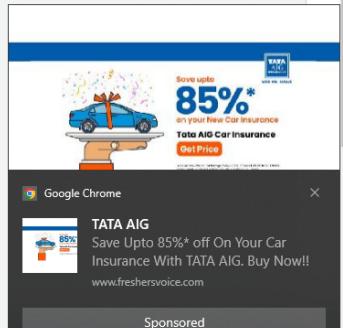
Select and configure your peering connection attachment.

Account Info
 My account
 Other account

Account ID
Add 12 digits AWS account number (without hyphens) of the transit gateway you are peering with.
381492196962

Region Info

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The screenshot shows the AWS VPC console with the URL <https://ap-south-1.console.aws.amazon.com/vpc/home?region=ap-south-1#TransitGatewayAttachments>. A success message at the top states: "You successfully created peering attachment tgw-attach-0ef6e4c03628a3d98 / my-peer." Below it, another message says: "You can visualize and monitor your Transit Gateway(s) from the [AWS Network Manager](#). Register your Transit Gateway by creating a global network [to get started.](#)" The main table displays two entries:

| Name | Transit gateway attachment ID | Transit gateway ID | State | Resource type | Resource ID |
|----------|-------------------------------|-----------------------|--------------------|---------------|-----------------------|
| my-peer | tgw-attach-0ef6e4c03628a3d98 | tgw-087b1ced03e0fa3f0 | Pending Acceptance | Peering | tgw-06dc53d384605cc71 |
| my-tga-1 | tgw-attach-082b9a0e79b4ff37f | tgw-079e458b19a17ee92 | Deleted | VPC | vpc-0576f91a |

The details for the "my-peer" attachment show:

- Transit gateway attachment ID: tgw-attach-0ef6e4c03628a3d98
- Requester ID: tgw-087b1ced03e0fa3f0
- Acceptor ID: tgw-06dc53d384605cc71
- State: Pending Acceptance
- Requester owner ID: 891377137975
- Requester region: Mumbai (ap-south-1)
- Acceptor region: Mumbai (ap-south-1)
- Resource type: Peering

The screenshot shows the AWS VPC console with the URL <https://ap-south-1.console.aws.amazon.com/vpc/home?region=ap-south-1#TransitGatewayAttachments>. A message at the top says: "by creating a global network [to get started.](#)" The main table displays two entries:

| Name | Transit gateway attachment ID | Transit gateway ID | State |
|------------------------------|-------------------------------|--------------------|-------|
| tgw-attach-01afa84cd8ae51008 | tgw-06dc53d384605cc71 | Available | |
| my-tga2 | tgw-attach-051fb3ee1b87c26b9 | Available | |

The details for the "tgw-attach-01afa84cd8ae51008" attachment show:

- Transit gateway attachment ID: tgw-attach-01afa84cd8ae51008
- Requester ID: tgw-06dc53d384605cc71
- Acceptor ID: tgw-06dc53d384605cc71
- State: Available
- Requester owner ID: 891377137975
- Requester region: Mumbai (ap-south-1)
- Acceptor region: Mumbai (ap-south-1)
- Resource type: Peering

- 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 in the ap-south-1 region. The left sidebar is expanded to show the 'Virtual private cloud' section. In the main content area, the 'Transit gateway attachments' page is displayed. A green success message at the top states: 'You successfully created peering attachment tgw-attach-0ef6e4c03628a3d98 / my-peer.' Below this, a table lists two attachments:

| Name | Transit gateway attachment ID | Transit gateway ID | State | Resource type | Resource ID |
|---|-------------------------------|-----------------------|--------------------|---------------|----------------------|
| <input checked="" type="checkbox"/> my-peer | tgw-attach-0ef6e4c03628a3d98 | tgw-087b1ced03e0fa3f0 | Pending Acceptance | Peering | tgw-06dc53d38460cc71 |
| <input type="checkbox"/> my-tga-1 | tgw-attach-082b9a0e79b4ff37f | tgw-079e458b19a17ee92 | Deleted | VPC | vpc-0576f91a1 |

The details for the 'my-peer' attachment are shown in the 'Transit gateway attachment: tgw-attach-0ef6e4c03628a3d98 / my-peer' panel. The 'Details' tab is selected, showing the following information:

- Transit gateway attachment ID: tgw-attach-0ef6e4c03628a3d98
- Requester ID: tgw-087b1ced03e0fa3f0
- Acceptor ID: tgw-06dc53d38460cc71
- State: Pending Acceptance
- Requester region: Mumbai (ap-south-1)
- Acceptor region: Mumbai (ap-south-1)
- Resource type: Peering
- Requester owner ID: 891377137975

At the bottom of the page, there is a footer with the text: '© 2024, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences' and a status bar showing '32°C Sunny'.

This screenshot is identical to the one above, showing the same transit gateway attachments in the ap-south-1 account. The table and details panel for the 'my-peer' attachment are identical.

- 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.

The screenshot shows two browser windows side-by-side. Both windows are from the AWS Management Console, specifically the VPC service.

Top Window (Left): Transit gateway route tables

- The URL is `ap-south-1.console.aws.amazon.com/vpc/home?region=ap-south-1#TransitGatewayRouteTables:`
- The sidebar shows "Transit gateway route tables" selected under "Transit gateways".
- The main pane displays "Transit gateway route tables (1/1) info".
- A context menu is open over the first row, with "Create static route" highlighted in blue.
- The row details show:
 - Transit gateway route table ID: `tgw-rtb-01bfcfc5d2c3198a2`
 - Transit gateway ID: `tgw-087b1ced03e0fa3f0`
 - State: Available

Bottom Window (Right): Create static route

- The URL is `ap-south-1.console.aws.amazon.com/vpc/home?region=ap-south-1#CreateRoute:transitGatewayRouteTableId=tgw-rtb-01bfcfc5d2c3198a2`
- The sidebar shows "VPC" selected.
- The main pane is titled "Create static route" and contains a "Details" form.
- The "Transit gateway ID" field is populated with `tgw-087b1ced03e0fa3f0`.
- The "Transit gateway route table ID" field has the value `35.0.0.0/16`.
- The "Type" section has "Active" selected.
- The "Choose attachment" dropdown is set to "Select a transit gateway attachment".
- A "Create static route" button is at the bottom right.

Transit gateway ID: tgw-087b1ced03e0fa3f0

Transit gateway route table ID: tgw-rtb-01bfcfc5d2c3198a2

CIDR: 35.0.0.0/16

Type: Active

Create static route

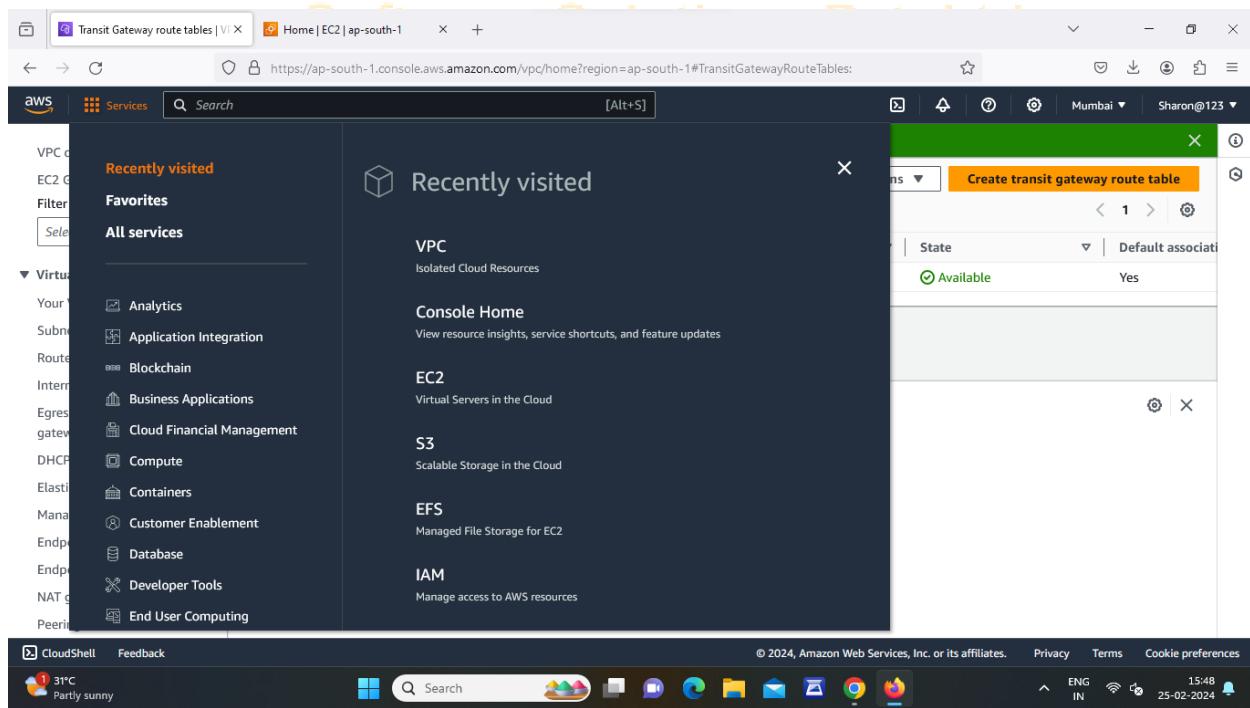
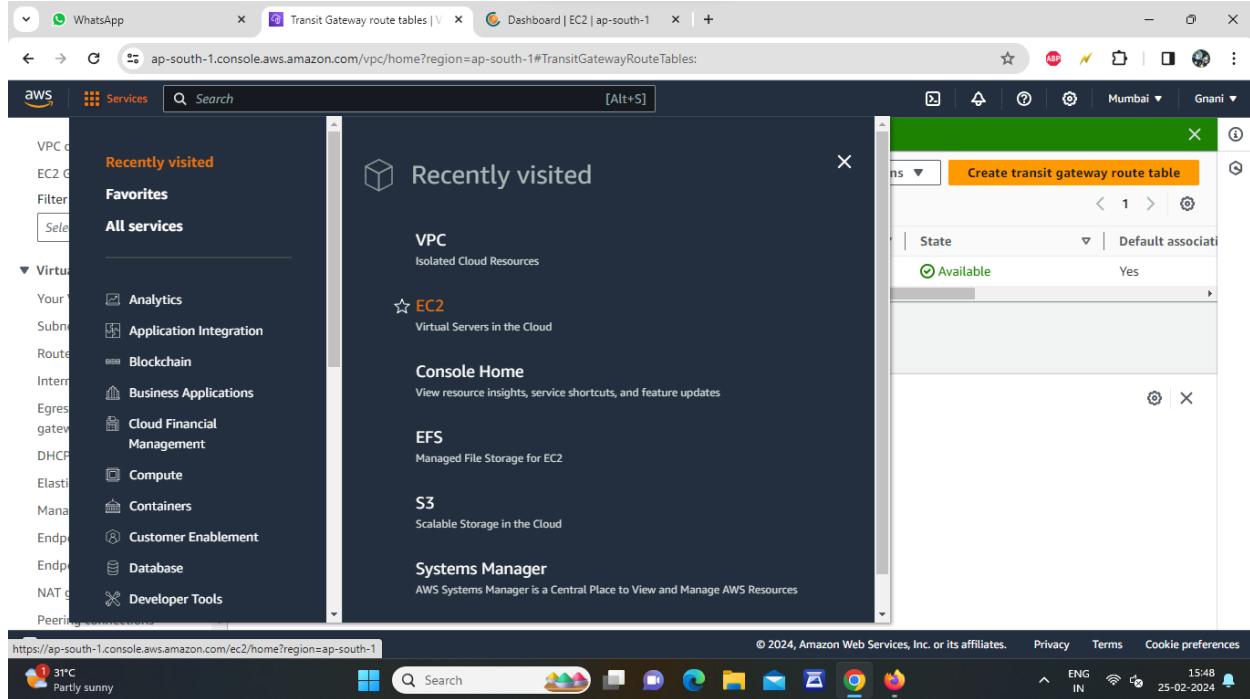
Static route was created successfully.

Transit gateway route tables (1)

| Name | Transit gateway route table ID | Transit gateway ID | State |
|---------------------------|--------------------------------|-----------------------|-----------|
| tgw-rtb-03a42d239620b5e21 | tgw-rtb-03a42d239620b5e21 | tgw-06dc53d384605cc71 | Available |

- 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
```



Ravurilakshmi28/lakshmi | WhatsApp | Launch an instance | EC2 | ap-south-1

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

aws Services Search [Alt+S]

EC2 IAM VPC

EC2 Instances Launch an instance

Launch an instance Info

Amazon EC2 allows you to create virtual machines, or instances, that run on the AWS Cloud. Quickly get started by following the simple steps below.

Name and tags Info

Name: ec1-tg Add additional tags

Application and OS Images (Amazon Machine Image) Info

An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. Search or Browse for AMIs if you don't see what you are looking for below.

Search our full catalog including 1000s of application and OS images

Quick Start

CloudShell Feedback Type here to search

Summary

Number of instances: 1

Software Image (AMI): Canonical, Ubuntu, 22.04 LTS, ... read more ami-03f4878755434977f

Virtual server type (instance type): t2.micro

Firewall (security group): New security group

Storage (volumes): 1 volume(s) - 8 GiB

Free tier: In your first year includes 750 hours of t2.micro (or

Cancel Launch instance Review commands

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Ravurilakshmi28/lakshmi | WhatsApp | Launch an instance | EC2 | ap-south-1

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

aws Services Search [Alt+S]

EC2 IAM VPC

Instance type: t2.micro Free tier eligible

Family: t2 1 vCPU 1 GiB Memory Current generation: true
On-Demand Linux base pricing: 0.0124 USD per Hour
On-Demand Windows base pricing: 0.017 USD per Hour
On-Demand RHEL base pricing: 0.0224 USD per Hour
On-Demand SUSE base pricing: 0.0124 USD per Hour

All generations Compare instance types

Key pair (login) Info

You can use a key pair to securely connect to your instance. Ensure that you have access to the selected key pair before you launch the instance.

Key pair name - required: tg Create new key pair

Network settings Info

VPC - required Info

Summary

Number of instances: 1

Software Image (AMI): Canonical, Ubuntu, 22.04 LTS, ... read more ami-03f4878755434977f

Virtual server type (instance type): t2.micro

Firewall (security group): New security group

Storage (volumes): 1 volume(s) - 8 GiB

Free tier: In your first year includes 750 hours of t2.micro (or

Cancel Launch instance Review commands

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The screenshot shows the AWS EC2 Launch Instance wizard. In the 'Security group' step, a new security group is being created. The 'Security group name - required' field contains 'launch-wizard-5'. Under 'Inbound Security Group Rules', two rules are listed: 'Security group rule 1 (TCP, 22, 0.0.0.0/0)' and 'Security group rule 2 (TCP, 80, 25.0.0.0/16)'. The 'Description - required' field contains 'launch-wizard-5 created 2024-02-26T11:10:26.458Z'. On the right, the 'Summary' section shows 1 instance, the software image (Canonical, Ubuntu, 22.04 LTS), and the virtual server type (t2.micro). A 'Free tier' message indicates it includes 750 hours of t2.micro usage. The 'Launch instance' button is highlighted.

The screenshot shows the AWS EC2 Instances page after launching an instance. A green success message at the top states 'Successfully initiated launch of instance (i-07c23b2b6553eb878)'. Below this, the 'Next Steps' section provides links to 'Create billing and free tier usage alerts', 'Connect to your instance', 'Connect an RDS database', and 'Create EBS snapshot policy'. The status bar at the bottom shows the instance ID and a weather forecast for Mumbai: 31°C Partly sunny.

Launch an instance | EC2 | ap-south-1

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

Mumbai Annabathina, Akshitha

Name and tags

Name: my-ec2-vpc2

Application and OS Images (Amazon Machine Image)

An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. Search or Browse for AMIs if you don't see what you are looking for below.

Search our full catalog including 1000s of application and OS images

Quick Start

Amazon Linux macOS Ubuntu Windows Red Hat SUSE L Browse more AMIs

CloudShell Feedback Type here to search 32°C Sunny ENG 4:47 PM IN 2/26/2024

Summary

Number of instances: 1

Software Image (AMI): Canonical, Ubuntu, 22.04 LTS, ami-03f4878755434977f

Virtual server type (instance type): t2.micro

Firewall (security group): New security group

Storage (volumes): 1 volume(s) - 8 GiB

Cancel Launch instance Review commands

Launch an instance | EC2 | ap-south-1

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

Mumbai Annabathina, Akshitha

Key pair (login)

You can use a key pair to securely connect to your instance. Ensure that you have access to the selected key pair before you launch the instance.

Key pair name - required: laks

Create new key pair

Network settings

VPC - required

vpc-0fc64a72e0f27a32d (my-vpc2) 35.0.0.0/16

Subnet

subnet-0a880c9be39c26628 my-subnet2 VPC: vpc-0fc64a72e0f27a32d Owner: 381492196962 Availability Zone: ap-south-1a IP addresses available: 250 CIDR: 35.0.24.0/24

Create new subnet

CloudShell Feedback Type here to search 32°C Sunny ENG 4:47 PM IN 2/26/2024

Summary

Number of instances: 1

1 volume(s) - 8 GiB

Free tier: In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) instance usage on free tier AMIs per month, 30 GiB of EBS storage, 2 million IOPS, 1 GB of snapshots, and 100 GB of bandwidth to the internet.

Cancel Launch instance Review commands

Screenshot of the AWS EC2 Launch Instances page.

The left sidebar shows the AWS Services menu with "EC2" selected. The main content area displays two security group rules:

- Security group rule 2 (TCP, 80, 0.0.0.0/0)**:
 - Type: HTTP
 - Protocol: TCP
 - Port range: 80
 - Source type: Anywhere
 - Description: e.g. SSH for admin desktop
- Security group rule 3 (TCP, 80, 25.0.0.0/16)**:
 - Type: HTTP
 - Protocol: TCP
 - Port range: 80
 - Source type: Custom
 - Description: e.g. SSH for admin desktop

A yellow warning box 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.".

The right sidebar contains the "Summary" section with the following details:

- Number of instances: 1
- Software Image (AMI): Amazon Linux 2023 AMI 2023.3.2...read more
- Virtual server type (instance type): t2.micro
- Firewall (security group): New security group
- Storage (volumes): 1 volume(s) - 8 GiB

At the bottom are "Cancel", "Launch instance" (highlighted in orange), and "Review commands" buttons.

Screenshot of the AWS EC2 Instance Details page.

The left sidebar shows the AWS Services menu with "EC2" selected. The main content area displays the "Instance summary for i-0100a7f6508dca912 (my-vpc-2)" details:

| Instance ID | Public IPv4 address | Private IPv4 addresses |
|--|---|--|
| i-0100a7f6508dca912 (my-vpc-2) | 3.110.105.214 [open address] | 35.0.1.238 |
| IPv6 address | Instance state | Public IPv4 DNS |
| - | Pending | - |
| Hostname type | Private IP DNS name (IPv4 only) | Elastic IP addresses |
| IP name: ip-35-0-1-238.ap-south-1.compute.internal | ip-35-0-1-238.ap-south-1.compute.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] |
| 3.110.105.214 [Public IP] | vpc-0fd229ea1698eb014 (my-vpc-2) | |
| IAM Role | Subnet ID | Auto Scaling Group name |
| - | subnet-0ee4e1fb4e4e27068 (my-sub-2) | - |

The right sidebar contains "Actions" and "Connect" buttons.

At the bottom are "CloudShell", "Feedback", "CloudWatch Metrics", "CloudWatch Logs", "Search", and browser icons. The status bar shows "31°C Partly sunny", "ENG IN", "15:51", and "25-02-2024".

WhatsApp | Transit Gateway route tables | Instance details | EC2 | ap-south-1

ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#InstanceDetails:instanceId=i-07c23b2b6553eb878

EC2 Services Search [Alt+S]

EC2 Dashboard EC2 Global View Events Instances Instances Instance Types Launch Templates Spot Requests Savings Plans Reserved Instances Dedicated Hosts Capacity Reservations New Images AMIs AMI Catalog Elastic Block Store CloudShell Feedback

EC2 > Instances > i-07c23b2b6553eb878

Instance summary for i-07c23b2b6553eb878 (my-vpc-1) Info

Updated less than a minute ago

| Instance ID | Public IPv4 address | Private IPv4 addresses |
|--|---|--|
| i-07c23b2b6553eb878 (my-vpc-1) | 13.232.40.243 [open address] | 25.0.1.124 |
| IPv6 address | Instance state | Public IPv4 DNS |
| - | Running | - |
| Hostname type | Private IP DNS name (IPv4 only) | Elastic IP addresses |
| IP name: ip-25-0-1-124.ap-south-1.compute.internal | ip-25-0-1-124.ap-south-1.compute.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 |
| 13.232.40.243 [Public IP] | vpc-06c8f11ce1adf43bd (my-vpc-1) | Auto Scaling Group name |
| IAM Role | Subnet ID | - |
| - | subnet-06c57a3b791a1a839 (my-sub-1) | |

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31°C Partly sunny

WhatsApp | Transit Gateway route tables | Connect to instance | EC2 | ap-south-1

ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#ConnectToInstance:instanceId=i-07c23b2b6553eb878

EC2 Services Search [Alt+S]

EC2 Instance Connect Session Manager SSH client EC2 serial console

Instance ID: i-07c23b2b6553eb878 (my-vpc-1)

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: 13.232.40.243

Username: ec2-user

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

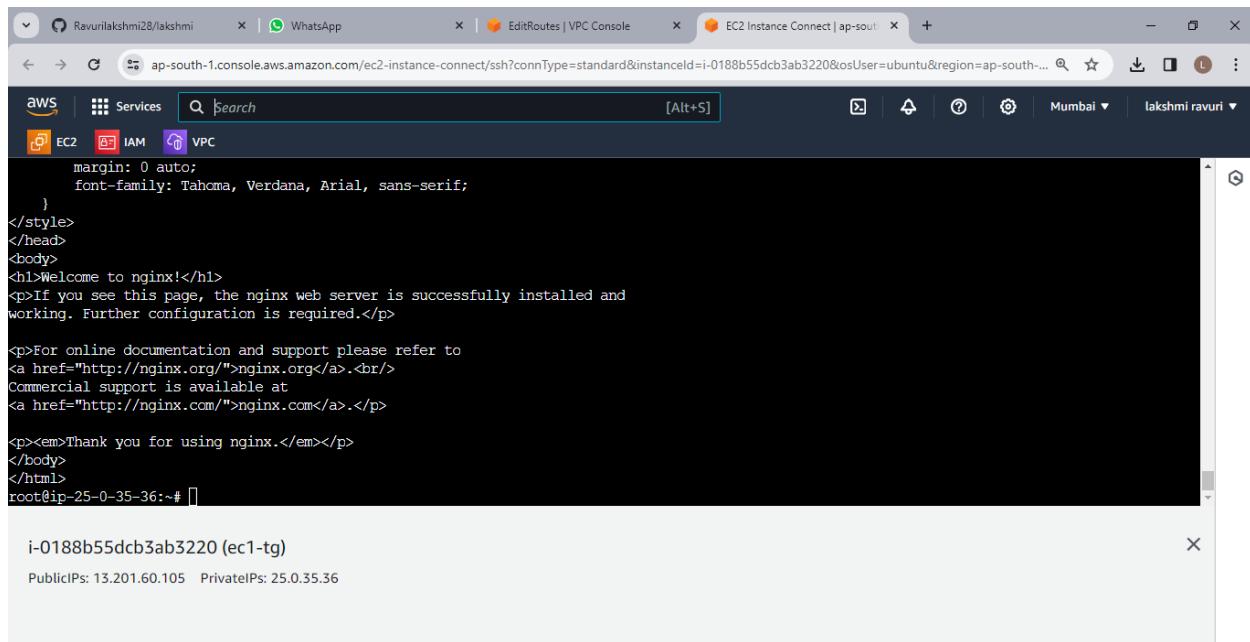
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31°C Partly sunny

The screenshot shows the AWS EC2 Instance Connect interface. At the top, there are tabs for "EC2 Instance Connect", "Session Manager", "SSH client", and "EC2 serial console". The "EC2 Instance Connect" tab is selected. Below it, the "Instance ID" is listed as "i-0100a7f6508dca912 (my-vpc-2)". Under "Connection Type", the "Connect using EC2 Instance Connect" option is selected, with a note: "Connect using the EC2 Instance Connect browser-based client, with a public IPv4 address." There is also an unselected option: "Connect using EC2 Instance Connect Endpoint" with the note: "Connect using the EC2 Instance Connect browser-based client, with a private IPv4 address and a VPC endpoint." Below this, the "Public IP address" is shown as "3.110.105.214". The "Username" field contains "ec2-user". A note states: "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." At the bottom are "Cancel" and "Connect" buttons.

The screenshot shows the AWS CloudShell terminal interface. The URL in the address bar is "ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-07c23b2b6553eb878&osUser=ec2-user®ion=ap-south-1". The terminal window displays the command: "[root@ip-25-0-1-124 ~]# yum install nginx -y". The output of the command is visible below the command line.

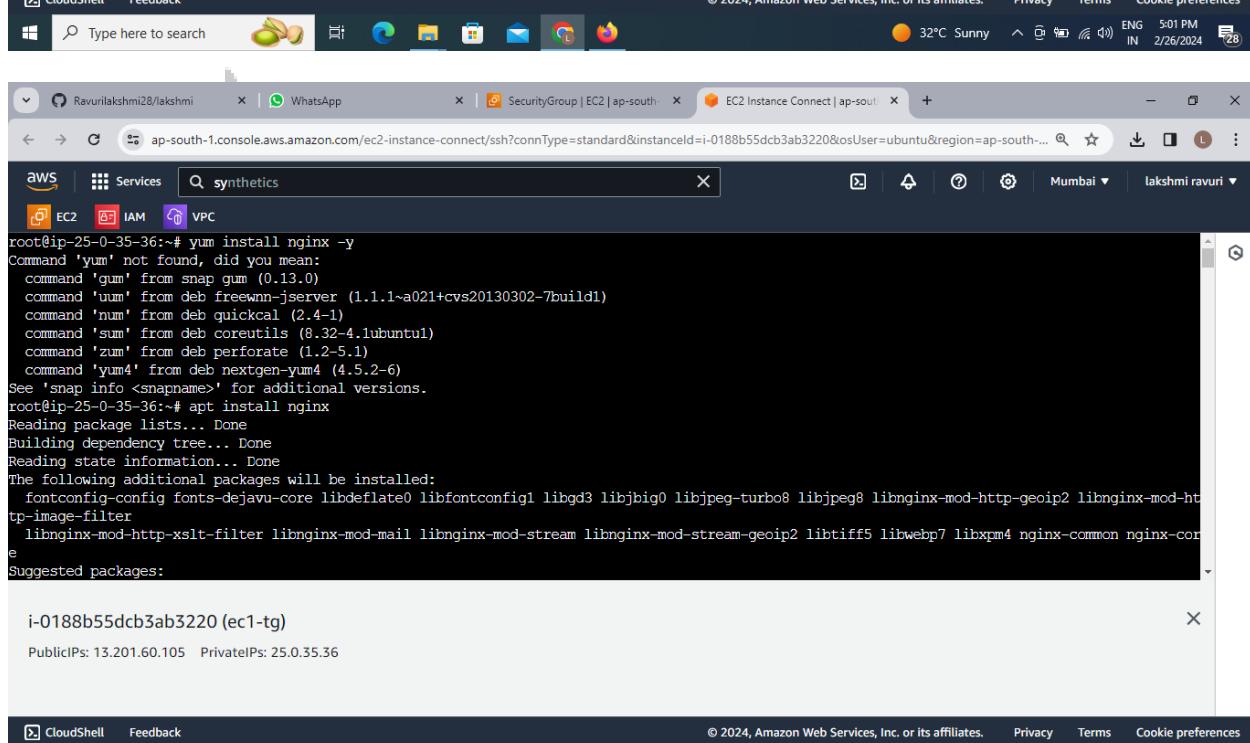
The screenshot shows the AWS CloudShell terminal interface. The URL in the address bar is "ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-07c23b2b6553eb878&osUser=ec2-user®ion=ap-south-1". The terminal window displays the command: "[root@ip-25-0-1-124 ~]# yum install nginx -y". The output of the command is visible below the command line.



```
margin: 0 auto;
font-family: Tahome, Verdana, Arial, sans-serif;
}
</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-25-0-35-36:~#
```

i-0188b55dcb3ab3220 (ec1-tg)

PublicIPs: 13.201.60.105 PrivateIPs: 25.0.35.36



```
root@ip-25-0-35-36:# yum install nginx -y
Command 'yum' not found, did you mean:
 command 'gum' from snap gum (0.13.0)
 command 'uum' from deb freewnn-jserver (1.1.1~a021+cvs20130302-7build1)
 command 'num' from deb quickcal (2.4-1)
 command 'sum' from deb coreutils (8.32-4.lubuntu1)
 command 'zum' from deb perforate (1.2-5.1)
 command 'yum4' from deb nextgen-yum4 (4.5.2-6)
 See 'snap info <snapname>' for additional versions.
root@ip-25-0-35-36:~# apt install nginx
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
 fontconfig-config fonts-dejavu-core libdeflate0 libfontconfig1 libgd3 libjbig0 libjpeg-turbo8 libjpeg8 libnginx-mod-http-geoip2 libnginx-mod-ht
tp-image-filter
 libnginx-mod-http-xslt-filter libnginx-mod-mail libnginx-mod-stream libnginx-mod-stream-geoip2 libtiff5 libwebp7 libxpm4 nginx-common nginx-cor
e
Suggested packages:
 i-0188b55dcb3ab3220 (ec1-tg)
```

PublicIPs: 13.201.60.105 PrivateIPs: 25.0.35.36



```
root@ip-25-0-35-36:~# systemctl status nginx
● nginx.service - A high performance web server and a reverse proxy server
  Loaded: loaded (/lib/systemd/system/nginx.service; enabled; vendor preset: enabled)
  Active: active (running) since Mon 2024-02-26 11:21:11 UTC; 1min 10s ago
    Docs: man:nginx(8)
 Process: 2010 ExecStartPre=/usr/sbin/nginx -t -q -g daemon on; master_process on; (code=exited, status=0/SUCCESS)
 Process: 2011 ExecStart=/usr/sbin/nginx -g daemon on; master_process on; (code=exited, status=0/SUCCESS)
 Main PID: 2104 (nginx)
   Tasks: 2 (limit: 1121)
  Memory: 6.1M
    CPU: 25ms
   CGroup: /system.slice/nginx.service
           ├─2104 "nginx: master process /usr/sbin/nginx -g daemon on; master_process on;"
           └─2107 "nginx: worker process"
Feb 26 11:21:11 ip-25-0-35-36 systemd[1]: Starting A high performance web server and a reverse proxy server...
Feb 26 11:21:11 ip-25-0-35-36 systemd[1]: Started A high performance web server and a reverse proxy server.
root@ip-25-0-35-36:~# curl 25.0.35.36:80
<!DOCTYPE html>
```

i-0188b55dcb3ab3220 (ec1-tq)

Public IPs: 13.201.60.105 Private IPs: 25.0.35.36

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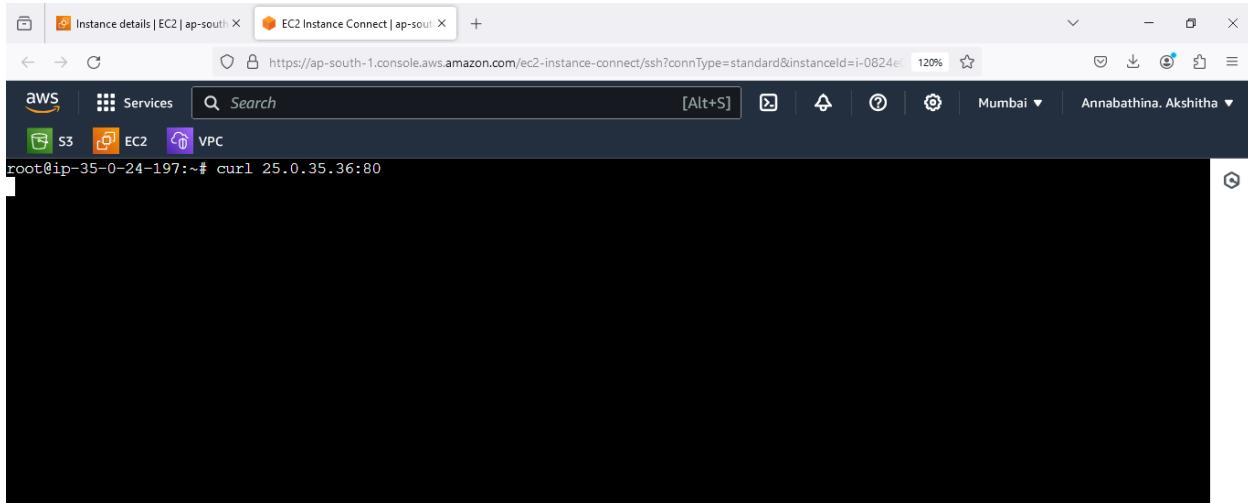
Type here to search            31°C Sunny ENG IN 5:13 PM 2/26/2024   

i-0188b55dcb3ab3220 (ec1-tq)

Public IPs: 13.201.60.105 Private IPs: 25.0.35.36

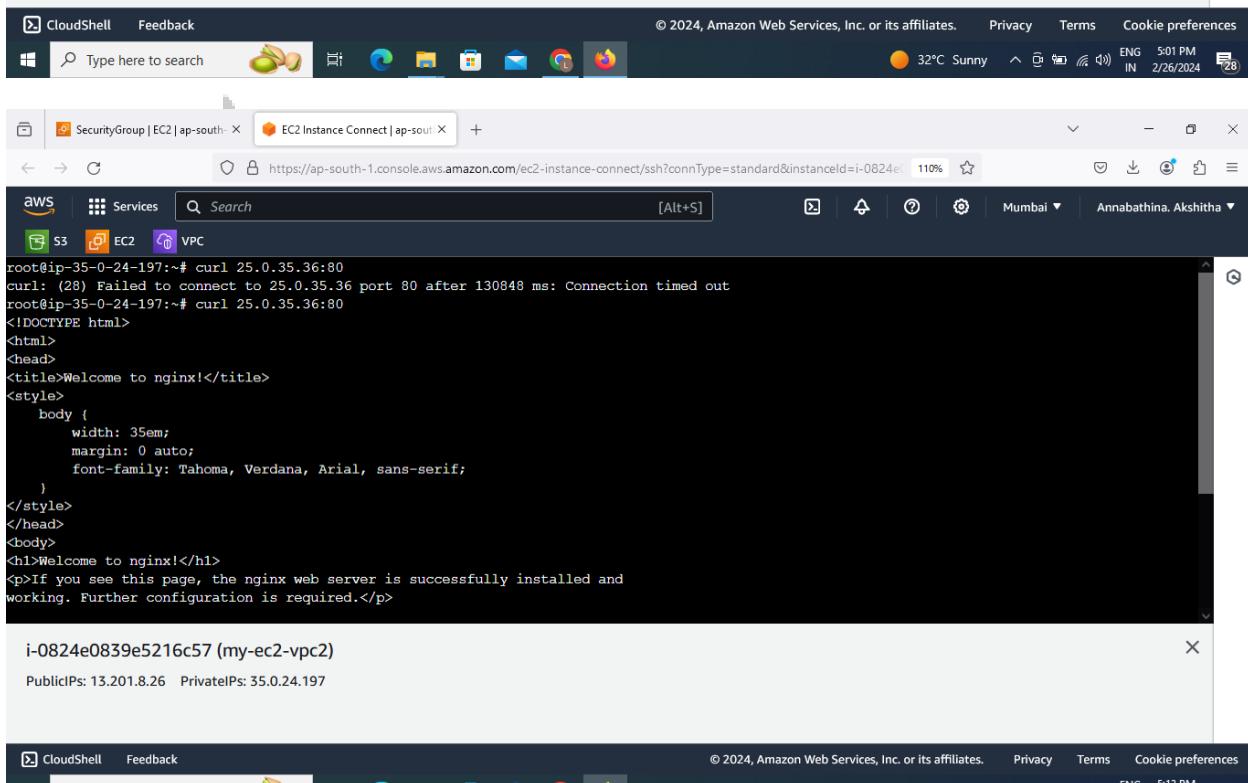
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i-0824e0839e5216c57 (my-ec2-vpc2)

Public IPs: 13.201.8.26 Private IPs: 35.0.24.197



i-0824e0839e5216c57 (my-ec2-vpc2)

Public IPs: 13.201.8.26 Private IPs: 35.0.24.197

