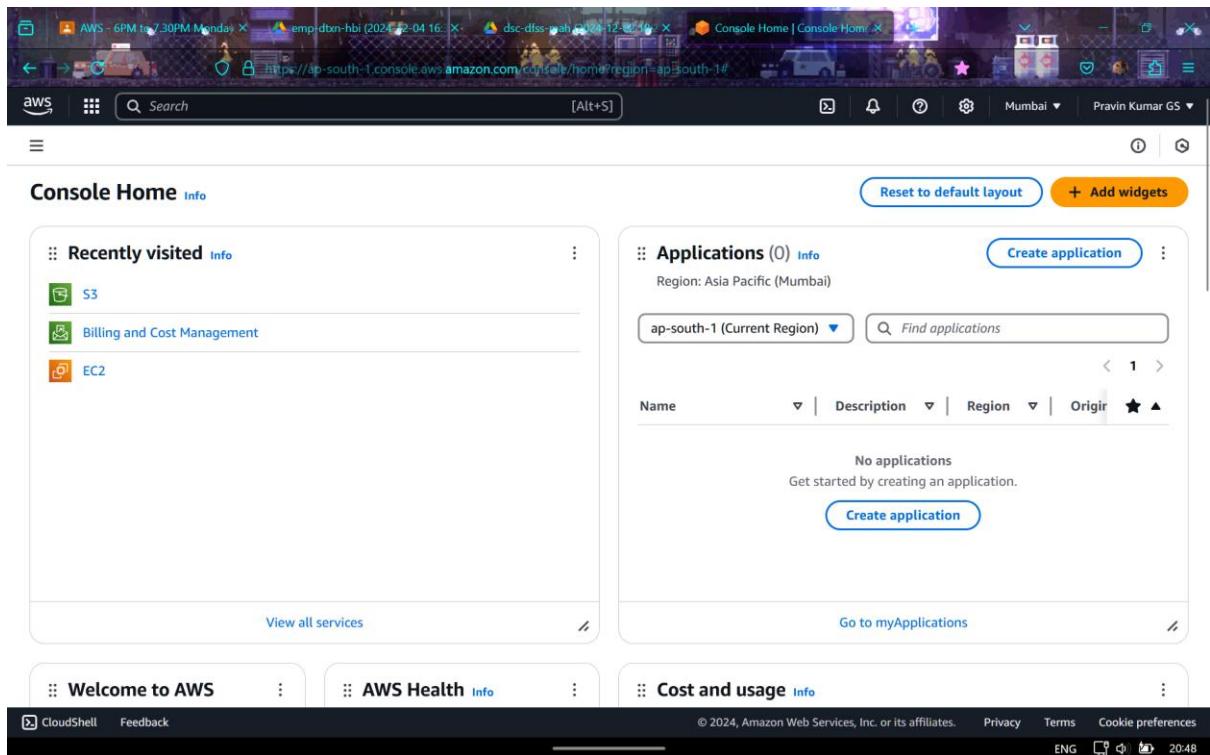


Date: 09-12-2024	Course Code: CSE3015	Reg No: 22BET10027
Day: Monday	Course Name: AWS Cloud Practitioner	Name: Pravin Kumar GS

LAB – 4 VPC

Creating a VPC:

- VPC panel



The screenshot shows the AWS CloudFront console. On the left, a sidebar lists various AWS services. The main area displays a "Recently visited" section with links to "Console Home", "S3", "Billing and Cost Management", and "EC2". To the right, there's a "Create application" interface with a "Create application" button and a "No applications" message.

This screenshot is identical to the one above, showing the AWS CloudFront console with the "Create application" interface. The sidebar and recently visited links are the same, and the main area shows the "No applications" message with the "Create application" button.

- Creating a VPC from the VPC section named “22BET10027-VPC-Test”.

The screenshot shows the AWS VPC Dashboard. On the left, a sidebar lists navigation options under "Virtual private cloud" (Your VPCs, Subnets, Route tables, Internet gateways, Egress-only internet gateways, DHCP option sets, Elastic IPs, Managed prefix lists, NAT gateways, Peering connections) and "Security" (Network ACLs, Security groups). The main content area displays "Resources by Region" for the Asia Pacific region. It includes sections for VPCs (1), Subnets (3), Route Tables (1), Internet Gateways (1), Egress-only Internet Gateways (0), NAT Gateways (0), VPC Peering Connections (0), Network ACLs (1), Security Groups (3), and Customer Gateways (0). Each resource type has a "See all regions" link. A "Create VPC" button is at the top left, and a "Launch EC2 Instances" button is at the top right. A "Service Health" panel on the right shows "View complete service health details". A "Settings" panel includes links for "Block Public Access", "Zones", and "Console Experiments". An "Additional Information" panel includes links for "VPC Documentation", "All VPC Resources", "Forums", and "Report an Issue". The bottom of the page includes CloudShell, Feedback, and standard footer links.

The screenshot shows the "Your VPCs (1)" page. The sidebar is identical to the previous dashboard. The main table lists one VPC entry:

Name	VPC ID	State	Block Public...	IPv4 CIDR
-	vpc-054eeb1f73d02d818	Available	Off	172.31.0.0/16

A message below the table says "Select a VPC above". The bottom of the page includes CloudShell, Feedback, and standard footer links.

AWS Services Search [Alt+S] Mumbai Pravin Kumar GS

VPC > Your VPCs > Create VPC

Create VPC Info

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

VPC settings

Resources to create [Info](#)
Create only the VPC resource or the VPC and other networking resources.

VPC only VPC and more

Name tag - *optional*
Creates a tag with a key of 'Name' and a value that you specify.
my-vpc-01

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

IPv4 CIDR
10.0.0.0/24
CIDR block size must be between /16 and /28.

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

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VPC > Your VPCs > Create VPC

Create VPC Info

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

VPC settings

Resources to create [Info](#)
Create only the VPC resource or the VPC and other networking resources.

VPC only VPC and more

Name tag - *optional*
Creates a tag with a key of 'Name' and a value that you specify.
22BET10027-VPC-Test

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

IPv4 CIDR
12.0.0.0/23
CIDR block size must be between /16 and /28.

IPv6 CIDR block [Info](#)
 No IPv6 CIDR block IPAM-allocated IPv6 CIDR block Amazon-provided IPv6 CIDR block IPv6 CIDR owned by me

Tenancy [Info](#)
Default

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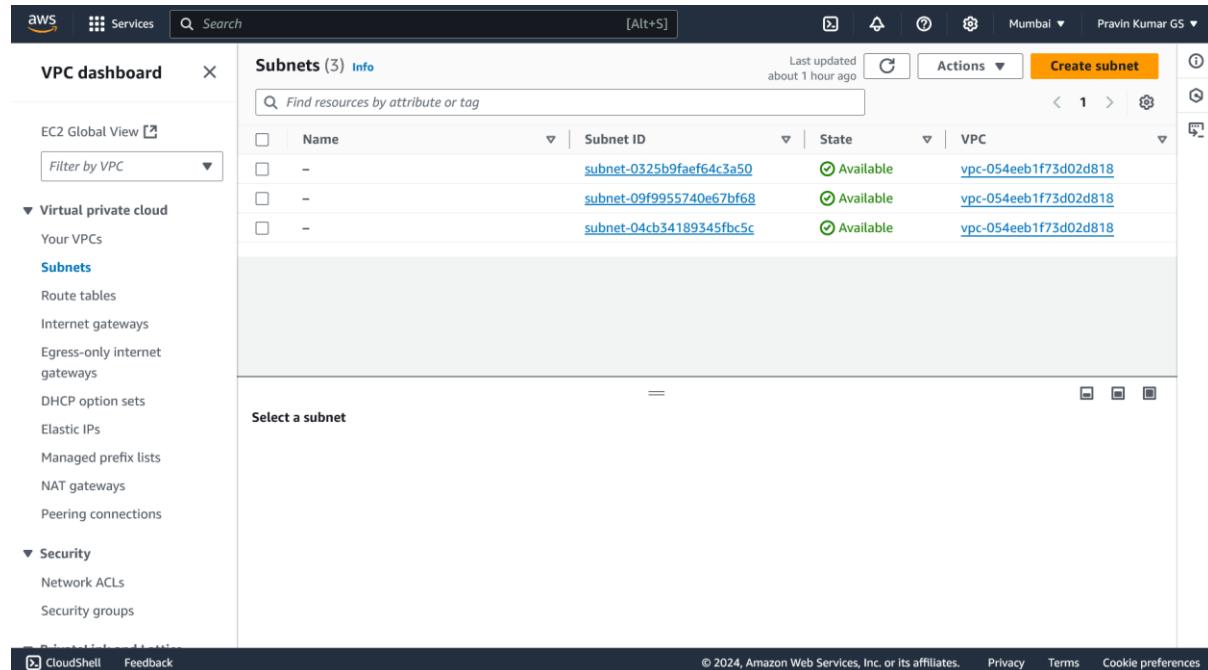
The screenshot shows the AWS VPC dashboard. At the top, a green banner indicates "You successfully created vpc-025e53c6b725f075b / 22BET10027-VPC-Test". The main content area displays the details of this VPC, including its ID (vpc-025e53c6b725f075b), state (Available), and various configuration settings like Block Public Access (Off), DNS resolution (Enabled), and Main network ACL (acl-004d8db9613205d87). Below the details, there are tabs for Resource map, CIDRs, Flow logs, Tags, and Integrations. A "Resource map" section is partially visible. At the bottom, there are links for VPC, Subnets (0), and Route tables (1). The footer includes copyright information and links for Privacy, Terms, and Cookie preferences.

The screenshot shows the AWS VPC dashboard with a list of existing VPCs. The table header includes columns for Name, VPC ID, State, Block Public..., and IPv4 CIDR. Two VPCs are listed: one named "vpc-054eeb1f73d02d818" and another named "22BET10027-VPC-Test". Both are in an "Available" state with Block Public Access set to Off. The IPv4 CIDR for the first VPC is 172.31.0.0/16, and for the second it is 12.0.0.0/23. Below the table, a message says "Select a VPC above". The footer includes copyright information and links for Privacy, Terms, and Cookie preferences.

- Hence the VPC is created.

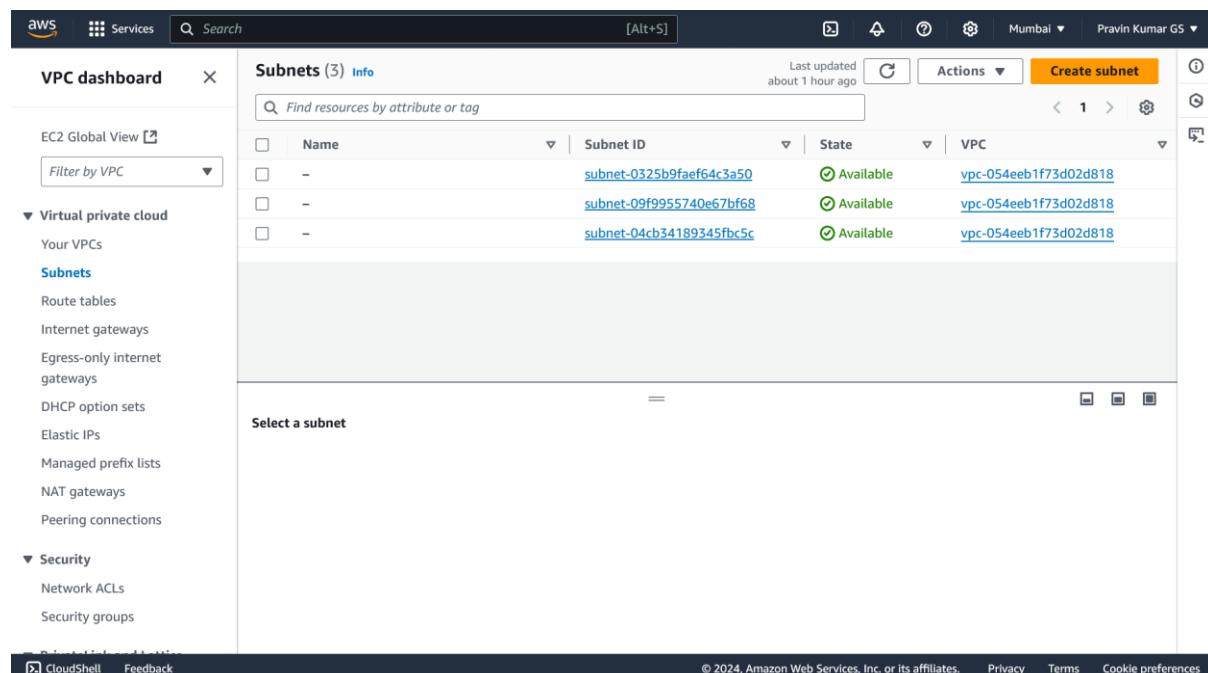
Creating Subnets:

- Creating Subnets for the VPC which we created.



The screenshot shows the AWS VPC Subnets page. On the left, there's a sidebar with options like EC2 Global View, Virtual private cloud (Your VPCs, Subnets, Route tables, Internet gateways, Egress-only internet gateways, DHCP option sets, Elastic IPs, Managed prefix lists, NAT gateways, Peering connections), Security (Network ACLs, Security groups), and CloudShell/Feedback. The main area is titled "Subnets (3) Info" and shows a table with three rows. The columns are Name, Subnet ID, State, and VPC. The subnets are all marked as "Available".

Name	Subnet ID	State	VPC
-	subnet-0325b9faef64c3a50	Available	vpc-054eeb1f73d02d818
-	subnet-09f9955740e67bf68	Available	vpc-054eeb1f73d02d818
-	subnet-04cb34189345fb5c	Available	vpc-054eeb1f73d02d818



This screenshot is identical to the one above, showing the AWS VPC Subnets page with three available subnets listed in the table. The interface and data are the same, reflecting the state of the VPC after the creation of the subnets.

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VPC > Subnets > Create subnet

Create subnet Info

VPC

VPC ID
Create subnets in this VPC.

Associated VPC CIDRs

IPv4 CIDRs
12.0.0.0/23

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

Subnet 1 of 1

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.

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Subnet settings

Specify the CIDR blocks and Availability Zone for the subnet.

Subnet 1 of 1

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

< > ^ v

Tags - optional

Key	Value - optional
<input type="text" value="Name"/>	<input type="text" value="22BET10027-public-subnet"/> <input type="button" value="Remove"/>

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Screenshot of the AWS Subnet settings page for creating a public subnet.

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

Subnet 1 of 1

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

Tags - optional

Key	Value - optional
<input type="text" value="Name"/> <input type="button" value="X"/>	<input type="text" value="22BET10027-public-subnet"/> <input type="button" value="X"/> <input type="button" value="Remove"/>

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Screenshot of the AWS Subnet settings page for creating a public subnet.

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

Subnet 1 of 1

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="button" value="X"/>	<input type="text" value="22BET10027-public-subnet"/> <input type="button" value="X"/> <input type="button" value="Remove"/>

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Subnet 2 of 2

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="22BET10027-Private-Subnet"/>
Add new tag	
You can add 49 more tags.	
Remove	

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VPC dashboard

EC2 Global View [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
- NAT gateways
- Peering connections

Security

- Network ACLs
- Security groups

Subnets (2) Info Last updated less than a minute ago

[Create subnet](#)

Subnet ID : Subnet ID : Clear filters

Name	Subnet ID	State	VPC
22BET10027-Private-Subnet	subnet-0af43c0ea9853361d	Available	vpc-025e53c6b725f075b 22B...
22BET10027-Public-Subnet	subnet-005b227a2f942c5a6	Available	vpc-025e53c6b725f075b 22B...

Select a subnet

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- Hence both Public and Private Subnets are created.

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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 NAT gateways Peering connections

Security Network ACLs Security groups

Your VPCs (2) Info Last updated 6 minutes ago Actions Create VPC

Name	VPC ID	State	Block Public...	IPv4 CIDR
-	vpc-054eeb1f73d02d818	Available	Off	172.31.0.0/16
22BET10027-VPC-Test	vpc-025e53c6b725f075b	Available	Off	12.0.0.0/23

Select a VPC above

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VPC dashboard EC2 Global View Filter by VPC

Virtual private cloud Your VPCs Subnets Subnets Route tables Internet gateways Egress-only internet gateways DHCP option sets Elastic IPs Managed prefix lists NAT gateways Peering connections

Security Network ACLs Security groups

Subnets (5) Info Last updated 1 minute ago Actions Create subnet

Name	Subnet ID	State	VPC
-	subnet-0325b9faef64c3a50	Available	vpc-054eeb1f73d02d818
-	subnet-09f9955740e67bf68	Available	vpc-054eeb1f73d02d818
-	subnet-04cb34189345fb5c	Available	vpc-054eeb1f73d02d818
22BET10027-Private-Subnet	subnet-0af43c0ea9853361d	Available	vpc-025e53c6b725f075b 22B...
22BET10027-Public-Subnet	subnet-005b227a2f942c5a6	Available	vpc-025e53c6b725f075b 22B...

Select a subnet

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Creating the Internet Gateway:

- In this panel we are creating the Internet Gate Way for the created subnets to be connected to the internet.

The screenshot shows the AWS VPC dashboard with the 'Internet gateways' section selected. A single internet gateway is listed:

Name	Internet gateway ID	State	VPC ID
-	igw-00b55fd8915fb3928	Attached	vpc-054eeb1f73d02d818

A prominent orange button at the top right says 'Create internet gateway'. The left sidebar contains links for 'Your VPCs', 'Subnets', 'Route tables', 'Internet gateways' (which is highlighted in blue), 'Egress-only internet gateways', 'DHCP option sets', 'Elastic IPs', 'Managed prefix lists', 'NAT gateways', and 'Peering connections'. The bottom navigation bar includes 'CloudShell' and 'Feedback'.

The screenshot shows the 'Create internet gateway' configuration page. It has two main sections:

- Internet gateway settings**:
 - Name tag**: A text input field containing 'my-internet-gateway'.
- Tags - optional**: A section explaining what tags are and how to add them. It shows a note: '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.' Below this is a button 'Add new tag' and a note: 'You can add 50 more tags.'

At the bottom right are 'Cancel' and 'Create internet gateway' buttons. The top navigation bar shows the path 'VPC > Internet gateways > Create internet gateway'. The bottom navigation bar includes 'CloudShell' and 'Feedback'.

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VPC > Internet gateways > Create internet gateway

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="22BET10027-IGW-Test"/> X
Add new tag	

You can add 49 more tags.

Cancel Create internet gateway

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VPC dashboard The following internet gateway was created: igw-0fcb3eb559802a81e - 22BET10027-IGW-Test. You can now attach to a VPC to enable the VPC to communicate with the internet. Attach to a VPC

VPC > Internet gateways > igw-0fcb3eb559802a81e

igw-0fcb3eb559802a81e / 22BET10027-IGW-Test

Actions

Details Info

Internet gateway ID	State	VPC ID	Owner
<input type="text" value="igw-0fcb3eb559802a81e"/>	Detached	-	<input type="text" value="864899872072"/>

Tags

Key	Value
Name	22BET10027-IGW-Test

Manage tags

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The screenshot shows the AWS VPC dashboard with the 'Internet gateways' section selected. The left sidebar includes options like EC2 Global View, Virtual private cloud (Your VPCs, Subnets, Route tables, Internet gateways, DHCP option sets, Elastic IPs, Managed prefix lists, NAT gateways, Peering connections), Security (Network ACLs, Security groups), and CloudShell/Feedback. The main area displays a table of Internet gateways:

Name	Internet gateway ID	State	VPC ID
-	igw-00b55fd8915fb3928	Attached	vpc-054eeb1f73d02d818
22BET10027-IGW-Test	igw-0fc3eb559802a81e	Detached	-

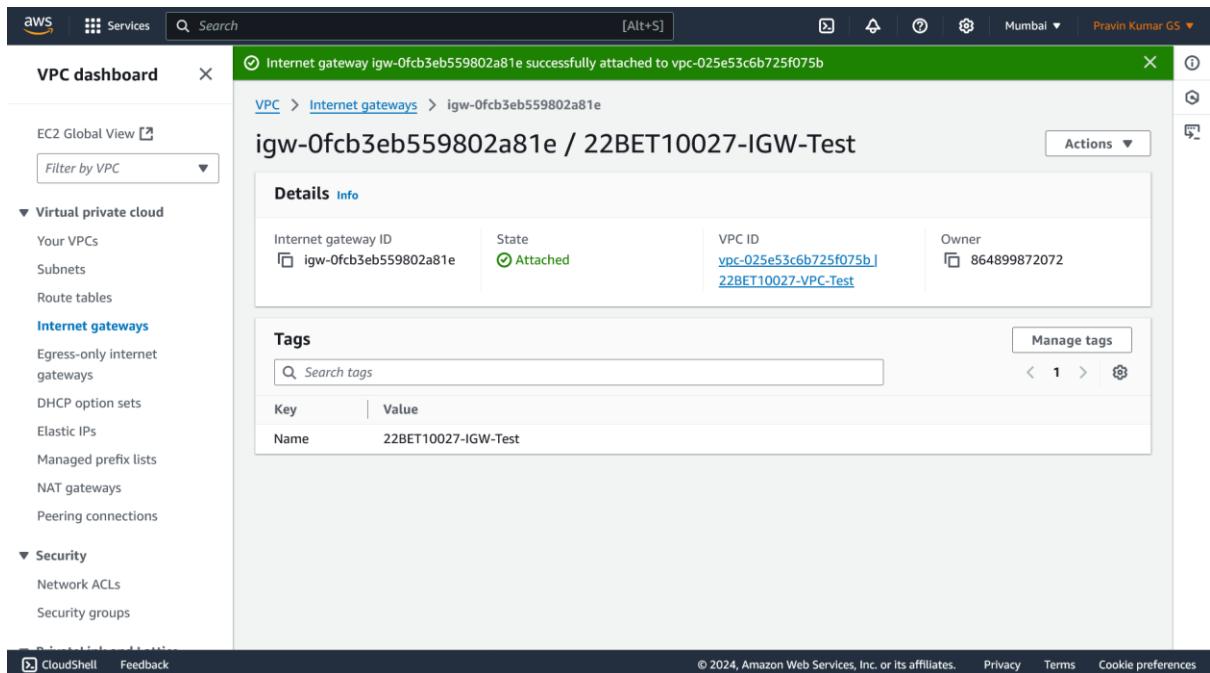
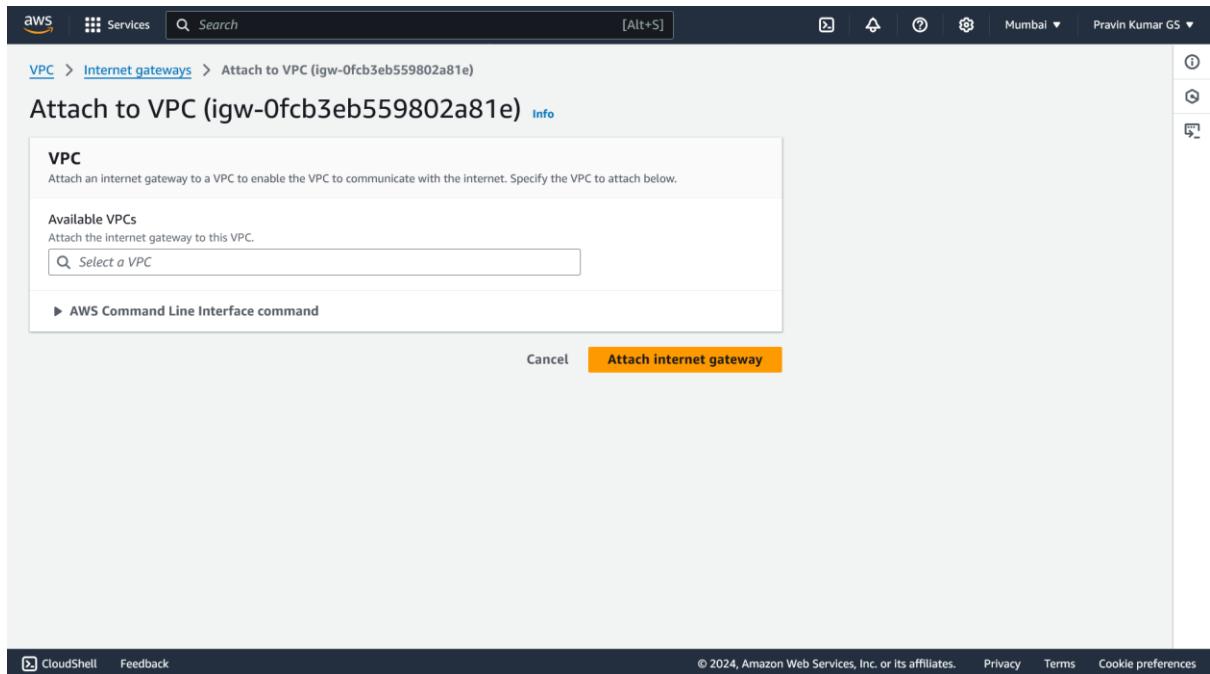
A message at the bottom says "Select an internet gateway above".

The screenshot shows the AWS VPC dashboard with the 'Internet gateways' section selected. The left sidebar includes options like EC2 Global View, Virtual private cloud (Your VPCs, Subnets, Route tables, Internet gateways, DHCP option sets, Elastic IPs, Managed prefix lists, NAT gateways, Peering connections), Security (Network ACLs, Security groups), and CloudShell/Feedback. The main area displays the details for the Internet gateway 'igw-0fc3eb559802a81e' (22BET10027-IGW-Test):

Internet gateway ID	State	VPC ID	Owner
igw-0fc3eb559802a81e	Detached	-	864899872072

The 'Tags' section shows a single tag: Name (22BET10027-IGW-Test). A 'Manage tags' button is available.

- Hence the Internet Gate way is created and connect to the public Subnet



- Here we are attaching the VPC to the Internet Gateway.

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VPC dashboard X Internet gateways (2) Info Actions Create internet gateway

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 NAT gateways Peering connections Security Network ACLs Security groups

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Internet gateways (2) Info Actions Create internet gateway

Name	Internet gateway ID	State	VPC ID
-	igw-00b55fd8915fb3928	Attached	vpc-054eeb1f73d02d818
22BET10027-IGW-Test	igw-0fcb3eb559802a81e	Attached	vpc-025e53c6b725f075b12

Select an internet gateway above

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VPC dashboard X Route tables (2) Info Actions Create route table

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 NAT gateways Peering connections Security Network ACLs Security groups

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Route tables (2) Info Actions Create route table

Name	Route table ID	Explicit subnet assoc...	Edge associations	Main
-	rtb-098ffaff9182e1927	-	-	Yes
-	rtb-01962c5b3dd9bec88	-	-	Yes

Select a route table

Creating the Routing Table:

- In this section the routing table for the VPC is created.

The screenshot shows the 'Create route table' wizard. In the 'Route table settings' step, a name 'my-route-table-01' is entered. In the 'Tags' step, there are no tags associated with the resource. The 'Create route table' button is highlighted in orange at the bottom right.

Route table settings

Name - optional
Create a tag with a key of 'Name' and a value that you specify.
my-route-table-01

VPC
The VPC to use for this route table.
Select a VPC

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.

No tags associated with the resource.

Add new tag
You can add 50 more tags.

Cancel **Create route table**

The screenshot shows the 'Create route table' wizard. In the 'Route table settings' step, a name '22BET10027-Public-RT' is entered. In the 'Tags' step, a single tag 'Name: 22BET10027-Public-RT' is added. The 'Create route table' button is highlighted in orange at the bottom right.

Route table settings

Name - optional
Create a tag with a key of 'Name' and a value that you specify.
22BET10027-Public-RT

VPC
The VPC to use for this route table.
vpc-025e53c6b725f075b (22BET10027-VPC-Test)

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: Name Value - optional: 22BET10027-Public-RT Remove
Add new tag
You can add 49 more tags.

Cancel **Create route table**

The screenshot shows the AWS VPC dashboard. In the top navigation bar, there is a success message: "Route table rtb-0c83f9ac726fce108 | 22BET10027-Public-RT was created successfully." The main content area displays the details of the newly created route table, "rtb-0c83f9ac726fce108 / 22BET10027-Public-RT". The "Details" tab is selected, showing the Route table ID (rtb-0c83f9ac726fce108), Main status (No), Owner ID (vpc-025e53c6b725f075b | 22BET10027-VPC-Test), and Explicit subnet associations and Edge associations (both listed as "-"). Below this, there are tabs for Routes, Subnet associations, Edge associations, Route propagation, and Tags. The "Routes" tab is selected, showing one route entry: Destination 12.0.0.0/23, Target local, Status Active, and Propagated No. A "Filter routes" search bar is present above the table. The bottom right corner of the page includes copyright information: "© 2024, Amazon Web Services, Inc. or its affiliates." and links for Privacy, Terms, and Cookie preferences.

The screenshot shows the AWS VPC dashboard. In the top navigation bar, there is a success message: "Route tables (3) Info". The main content area displays a table of existing route tables. The table has columns for Name, Route table ID, Explicit subnet assoc..., Edge associations, and Main. There are three entries: 1. Name: -, Route table ID: rtb-098ffaff9182e1927, Explicit subnet assoc...: -, Edge associations: -, Main: Yes. 2. Name: -, Route table ID: rtb-01962c5b3dd9bec88, Explicit subnet assoc...: -, Edge associations: -, Main: Yes. 3. Name: 22BET10027-Public-RT, Route table ID: rtb-0c83f9ac726fce108, Explicit subnet assoc...: -, Edge associations: -, Main: No. Below the table, there is a section titled "Select a route table" with three small icons. The bottom right corner of the page includes copyright information: "© 2024, Amazon Web Services, Inc. or its affiliates." and links for Privacy, Terms, and Cookie preferences.

- Hence the routing table is created.

The screenshot shows the AWS VPC dashboard. On the left, there's a sidebar with 'Virtual private cloud' and 'Security' sections. The main area displays a route table named 'rtb-0c83f9ac726fce108 / 22BET10027-Public-RT'. The 'Details' tab is selected, showing information like Route table ID, Main status, Owner ID, and Edge associations. Below it, the 'Routes' tab is selected, showing one route entry: Destination 12.0.0.0/23, Target local, Status Active, and Propagated No.

The screenshot shows the 'Edit routes' page for the same route table. It lists a single route entry: Destination 12.0.0.0/23, Target local, Status Active, and Propagated No. There are buttons for 'Add route', 'Cancel', 'Preview', and 'Save changes' at the bottom.

- We are editing the routes for the routing table for connecting it with the VPC.

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VPC > Route tables > rtb-0c83f9ac726fce108 > Edit routes

Edit routes

Destination	Target	Status	Propagated
12.0.0.0/23	local	Active	No
0.0.0.0/0	Internet Gateway	-	No
0.0.0.0/0	igw-0fcf3eb559802a81e	-	Remote

Add route Cancel Preview Save changes

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VPC dashboard > Updated routes for rtb-0c83f9ac726fce108 / 22BET10027-Public-RT successfully

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 NAT gateways Peering connections

Security Network ACLs Security groups

rtb-0c83f9ac726fce108 / 22BET10027-Public-RT Actions

Details Info

Route table ID	Main	Explicit subnet associations	Edge associations
rtb-0c83f9ac726fce108	No	-	-
VPC	Owner ID	-	
vpc-025e53c6b725f075b 22BET10027-VPC-Test	864899872072	-	

Routes Subnet associations Edge associations Route propagation Tags

Routes (2)

Destination	Target	Status	Propagated
0.0.0.0/0	igw-0fcf3eb559802a81e	Active	No
12.0.0.0/23	local	Active	No

Filter routes Both Edit routes < 1 > ⚙️

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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
- NAT gateways
- Peering connections

Security

- Network ACLs
- Security groups

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Updated routes for rtb-0c83f9ac726fce108 / 22BET10027-Public-RT successfully

Details

VPC	Owner ID
vpc-025e53c6b725f075b 22BET10027-VPC-Test	864899872072

Routes Subnet associations Edge associations Route propagation Tags

Explicit subnet associations (0)

Find subnet association

No subnet associations
You do not have any subnet associations.

Subnets without explicit associations (2)

Find subnet association

Name	Subnet ID	IPv4 CIDR	IPv6 CIDR
22BET10027-Private-Subnet	subnet-0af43c0ea9853361d	12.0.1.0/24	-
22BET10027-Public-Subnet	subnet-005b227a2f942c5a6	12.0.0.0/24	-

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VPC > Route tables > rtb-0c83f9ac726fce108 > Edit subnet associations

Edit subnet associations

Change which subnets are associated with this route table.

Available subnets (2)

Filter subnet associations

Name	Subnet ID	IPv4 CIDR	IPv6 CIDR	Route table ID
22BET10027-Private-Subnet	subnet-0af43c0ea9853361d	12.0.1.0/24	-	Main (rtb-01962c5b3dd9bec88)
22BET10027-Public-Subnet	subnet-005b227a2f942c5a6	12.0.0.0/24	-	Main (rtb-01962c5b3dd9bec88)

Cancel Save associations © 2024, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences

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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 NAT gateways Peering connections Security Network ACLs Security groups

You have successfully updated subnet associations for rtb-0c83f9ac726fce108 / 22BET10027-Public-RT.

VPC > Route tables > rtb-0c83f9ac726fce108

rtb-0c83f9ac726fce108 / 22BET10027-Public-RT

Actions

Details Info

Route table ID rtb-0c83f9ac726fce108	Main No	Explicit subnet associations subnet-005b227a2f942c5a6 / 22BET10027-Public-Subnet	Edge associations -
VPC vpc-025e53c6b725f075b 22BET10027-VPC-Test	Owner ID 864899872072		

Routes Subnet associations Edge associations Route propagation Tags

Routes (2)

Destination	Target	Status	Propagated
0.0.0.0/0	igw-0fcb3eb559802a81e	Active	No
12.0.0.0/23	local	Active	No

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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 NAT gateways Peering connections Security Network ACLs Security groups

You have successfully updated subnet associations for rtb-0c83f9ac726fce108 / 22BET10027-Public-RT.

Route tables (1/3) Info Last updated about 1 hour ago Actions Create route table

Name	Route table ID	Explicit subnet assoc...	Edge associations	Main
-	rtb-098ffaff9182e1927	-	-	Yes
-	rtb-01962c5b3dd9bec88	-	-	Yes
22BET10027-Public-RT	rtb-0c83f9ac726fce108	subnet-005b227a2f942c...	-	No

rtb-0c83f9ac726fce108 / 22BET10027-Public-RT

Details Routes Subnet associations Edge associations Route propagation Tags

Details

Route table ID rtb-0c83f9ac726fce108	Main No	Explicit subnet associations subnet-005b227a2f942c5a6 / 22BET10027-Public-Subnet	Edge associations -
VPC	Owner ID		

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VPC > Route tables > Create route table

Create route table info

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

Route table settings

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

VPC
The VPC to use for this route table.

Tags

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

Key	Value - <i>optional</i>
<input type="text" value="Name"/>	<input type="text" value="22BET10027-Private-RT"/>

Add new tag

You can add 49 more tags.

Cancel **Create route table** © 2024, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences

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VPC dashboard X

Route table rtb-0622991b3546fb994 | 22BET10027-Private-RT was created successfully.

VPC > Route tables > rtb-0622991b3546fb994 Actions ▾

rtb-0622991b3546fb994 / 22BET10027-Private-RT

Details Info

Route table ID <input type="text" value="rtb-0622991b3546fb994"/>	Main <input type="checkbox"/>	Explicit subnet associations -	Edge associations -
VPC <input type="text" value="vpc-025e53c6b725f075b 22BET10027-VPC-Test"/>	Owner ID <input type="text" value="864899872072"/>		

Routes Subnet associations Edge associations Route propagation Tags

Routes (1)

Both				Edit routes
<input type="text" value="Filter routes"/>				Both ▾
Destination	Target	Status	Propagated	Actions
12.0.0.0/23	local	Active	No	Actions

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

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 NAT gateways Peering connections Security Network ACLs Security groups

Route tables (1/4) Info Find resources by attribute or tag

Name	Route table ID	Explicit subnet assoc...	Edge associations	Main
-	rtb-098ffaff9182e1927	-	-	Yes
-	rtb-01962c5b3dd9bec88	-	-	Yes
22BET10027-Public-RT	rtb-0c83f9ac726fce108	subnet-005b227a2f942c5a6	-	No
22BET10027-Private-RT	rtb-0622991b3546fb994	-	-	No

rtb-0622991b3546fb994 / 22BET10027-Private-RT

Details Routes Subnet associations Edge associations Route propagation Tags

Explicit subnet associations (0) Edit subnet associations

No subnet associations You do not have any subnet associations.

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VPC > Route tables > rtb-0622991b3546fb994 > Edit subnet associations

Edit subnet associations

Change which subnets are associated with this route table.

Available subnets (1/2)

Name	Subnet ID	IPv4 CIDR	IPv6 CIDR	Route table ID
22BET10027-Private-Subnet	subnet-0af43c0ea9853361d	12.0.1.0/24	-	Main (rtb-01962c5b3dd9bec88)
22BET10027-Public-Subnet	subnet-005b227a2f942c5a6	12.0.0.0/24	-	rtb-0c83f9ac726fce108 / 22BET10027-Public-RT

Selected subnets

subnet-0af43c0ea9853361d / 22BET10027-Private-Subnet X

Cancel Save associations

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You have successfully updated subnet associations for rtb-0622991b3546fb994 / 22BET10027-Private-RT.

Name	Route table ID	Explicit subnet associa...	Edge associations	Main
-	rtb-098ffaff9182e1927	-	-	Yes
-	rtb-01962c5b3dd9bec88	-	-	Yes
22BET10027-Public-RT	rtb-0c83f9ac72fce108	subnet-005b227a2f942c...	-	No
22BET10027-Private-RT	rtb-0622991b3546fb994	subnet-0af43c0ea98533...	-	No

rtb-0622991b3546fb994 / 22BET10027-Private-RT

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

Details

Route table ID rtb-0622991b3546fb994	Main <input type="checkbox"/>	Explicit subnet associations subnet-0af43c0ea9853361d / subnet-0af43c0ea9853361e	Edge associations -
---	----------------------------------	---	------------------------

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Creating the NAT gateway:

- In this section we are creating the NAT gateway for the private subnet to be connected with the public subnet for internet connectivity with a secure connection.

You have successfully updated subnet associations for rtb-0622991b3546fb994 / 22BET10027-Private-RT.

Name	NAT gateway ID	Connectivity...	State	State message	Primary
No NAT gateways found					

Select a NAT gateway

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VPC > NAT gateways > Create NAT gateway

Create NAT gateway Info

A highly available, managed Network Address Translation (NAT) service that instances in private subnets can use to connect to services in other VPCs, on-premises networks, or the internet.

NAT gateway settings

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

Subnet
Select a subnet in which to create the NAT gateway.

Connectivity type
Select a connectivity type for the NAT gateway.
 Public
 Private

Elastic IP allocation ID Info
Assign an Elastic IP address to the NAT gateway.
 Select a subnet to display the allocation IDs.

► Additional settings Info

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Elastic IP address 65.1.208.146 (eipalloc-06f32f3a9d2e8cbaf) allocated.

Create NAT gateway Info

A highly available, managed Network Address Translation (NAT) service that instances in private subnets can use to connect to services in other VPCs, on-premises networks, or the internet.

NAT gateway settings

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

Subnet
Select a subnet in which to create the NAT gateway.

Connectivity type
Select a connectivity type for the NAT gateway.
 Public
 Private

Elastic IP allocation ID Info
Assign an Elastic IP address to the NAT gateway.
 Select a subnet to display the allocation IDs.

► Additional settings Info

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VPC dashboard X NAT gateway nat-05cbf0d6c0d33552a | 22BET10027-NAT-Private was created successfully.

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 NAT gateways Peering connections Security Network ACLs Security groups

NAT gateways / 22BET10027-NAT-Private

Actions Details

NAT gateway ID nat-05cbf0d6c0d33552a	Connectivity type Public	State Pending	State message Info
NAT gateway ARN arn:aws:ec2:ap-south-1:864899872072:natgateway/nat-05cbf0d6c0d33552a	Primary public IPv4 address -	Primary private IPv4 address -	Primary network interface ID -
VPC vpc-025e53c6b725f075b / 22BET10027-VPC-Test	Subnet subnet-005b227a2f942c5a6 / 22BET10027-Public-Subnet	Created Monday, December 9, 2024 at 15:44:39 GMT+5:30	Deleted -

Secondary IPv4 addresses Monitoring Tags

Secondary IPv4 addresses Edit secondary IPv4 address associations

Search Private IPv4 address Network interface ID Status

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VPC dashboard X NAT gateways (1) Info Actions Create NAT gateway

Find resources by attribute or tag

Name	NAT gateway ID	Connectivity...	State	State message	Prim...
22BET10027-NAT-Pr...	nat-05cbf0d6c0d33552a	Public	Pending	-	-

Select a NAT gateway

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VPC > Route tables > rtb-0622991b3546fb994 > Edit routes

Edit routes

Destination	Target	Status	Propagated
12.0.0.0/23	local	Active	No
Q 0.0.0.0/0	X	-	No
Q nat-05cbf0d6c0d33552a	X	-	Remote

Add route Cancel Preview Save changes

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VPC dashboard X

Updated routes for rtb-0622991b3546fb994 / 22BET10027-Private-RT successfully

Details

VPC Global View Filter by VPC

rtb-0622991b3546fb994 / 22BET10027-Private-RT Actions

Details Info

Route table ID rtb-0622991b3546fb994	Main No	Explicit subnet associations subnet-0af43c0ea9853361d / 22BET10027-Private-Subnet	Edge associations -
VPC vpc-025e53c6b725f075b 22BET10027-VPC-Test	Owner ID 864899872072		

Routes Subnet associations Edge associations Route propagation Tags

Routes (2)

Destination	Target	Status	Propagated
0.0.0.0/0	nat-05cbf0d6c0d33552a	Active	No
12.0.0.0/23	local	Active	No

Filter routes Both Edit routes < 1 > ⚙

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Screenshot of the AWS EC2 Global View dashboard for the Asia Pacific (Mumbai) Region.

Resources

You are using the following Amazon EC2 resources in the Asia Pacific (Mumbai) Region:

Instances (running)	0	Auto Scaling Groups	0
Capacity Reservations	0	Dedicated Hosts	0
Elastic IPs	1	Instances	0
Key pairs	1	Load balancers	0
Placement groups	0	Security groups	4
Snapshots	0	Volumes	0

EC2 Free Tier [Info](#)
Offers for all AWS Regions.

0 EC2 free tier offers in use

End of month forecast
⚠️ 0 offers forecasted to exceed free tier limit.

Exceeds free tier
⚠️ 0 offers exceeded and is now pay-as-you-go pricing.

[View Global EC2 resources](#)

[View all AWS Free Tier offers](#)

Launch instance
To get started, launch an Amazon EC2 instance, which is a virtual server in the cloud.

[Launch instance](#) [Migrate a server](#)

Service health
[AWS Health Dashboard](#)

Region
Asia Pacific (Mumbai)

Status
This service is operating normally.

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Screenshot of the "Launch an instance" wizard.

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
Public Server [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.

Recent **Quick Start**

- Amazon Linux
- macOS
- Ubuntu
- Windows
- Red Hat
- SUSE Linux

[Browse more AMIs](#)
Including AMIs from AWS, Marketplace and the Community

Summary

Number of instances [Info](#)
1

Software Image (AMI)
Microsoft Windows Server 2025 ... [read more](#)
ami-00a6b23a4dd325f30

Virtual server type (instance type)
t3.micro

Firewall (security group)
New security group

Storage (volumes)
1 volume(s) - 30 GiB

Free tier: In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is available).

[Cancel](#) [Launch instance](#) [Preview code](#)

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Screenshot of the AWS EC2 Instances Launch an instance page showing a success message and next steps.

Success
Successfully initiated launch of instance (i-0f79b458ac9fbf8c7)

Launch log

Next Steps

What would you like to do next with this instance, for example "create alarm" or "create backup"

Create billing and free tier usage alerts
To manage costs and avoid surprise bills, set up email notifications for billing and free tier usage thresholds.
[Create billing alerts](#)

Connect to your instance
Once your instance is running, log into it from your local computer.
[Connect to instance](#)
[Learn more](#)

Connect an RDS database
Configure the connection between an EC2 instance and a database to allow traffic flow between them.
[Connect an RDS database](#)
[Create a new RDS database](#)
[Learn more](#)

Create EBS snapshot policy
Create a policy that automates the creation, retention, and deletion of EBS snapshots.
[Create EBS snapshot policy](#)

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Screenshot of the AWS EC2 Instances Launch an instance page showing the launch process and summary.

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: 22BET10027-Private-EC2
[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

Recent **Quick Start**

Amazon Linux macOS Ubuntu Windows Red Hat SUSE Linux

[Browse more AMIs](#)
Including AMIs from AWS, Marketplace and the Community

Summary
Number of instances: [Info](#)
1

Software Image (AMI)
Microsoft Windows Server 2025 ... [read more](#)
ami-00a6b23a4dd325f30

Virtual server type (instance type)
t3.micro

Firewall (security group)
New security group

Storage (volumes)
1 volume(s) - 30 GiB

Free tier: In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is available). [X](#)

[Cancel](#) [Launch instance](#) [Preview code](#)

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Screenshot of the AWS EC2 Instances page showing a successful instance stop operation.

Success Message: Successfully initiated stopping of i-0f79b458ac9fbf8c7

Instances (1/2) Info:

Name	Instance ID	Instance state	Instance type	Status check	Alarm status
22BET10027-...	i-0583ba92cd7d70087	Running	t3.micro	Initializing	View alarms +
Public Server	i-0f79b458ac9fbf8c7	Stopping	t3.micro	-	View alarms +

Actions: Connect, Instance state, Actions, Launch instances

Filters: All states, Name, Instance ID, Instance state, Instance type, Status check, Alarm status

Navigation: < 1 >

Left Sidebar:

- Dashboard
- EC2 Global View
- Events
- Instances**
 - Instances
 - Instance Types
 - Launch Templates
 - Spot Requests
 - Savings Plans
 - Reserved Instances
 - Dedicated Hosts
 - Capacity Reservations
- Images
- AMIs
- AMI Catalog
- Elastic Block Store
- Volumes
- Snapshots
- Lifecycle Manager
- Network & Security
- CloudShell
- Feedback

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Screenshot of the AWS EC2 Instances page showing multiple instances listed.

Instances (1/3) Info:

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Publ
22BET10027-...	i-0583ba92cd7d70087	Running	t3.micro	Initializing	View alarms +	ap-south-1a	-
Public Server	i-0f79b458ac9fbf8c7	Shutting-d...	t3.micro	-	View alarms +	ap-south-1a	-
2BET10027-P...	i-0b20631d8c6f17af2	Running	t3.micro	Initializing	View alarms +	ap-south-1a	-

Actions: Connect, Instance state, Actions, Launch instances

Filters: All states, Name, Instance ID, Instance state, Instance type, Status check, Alarm status, Availability Zone

Navigation: < 1 >

Left Sidebar:

- CloudShell
- Feedback

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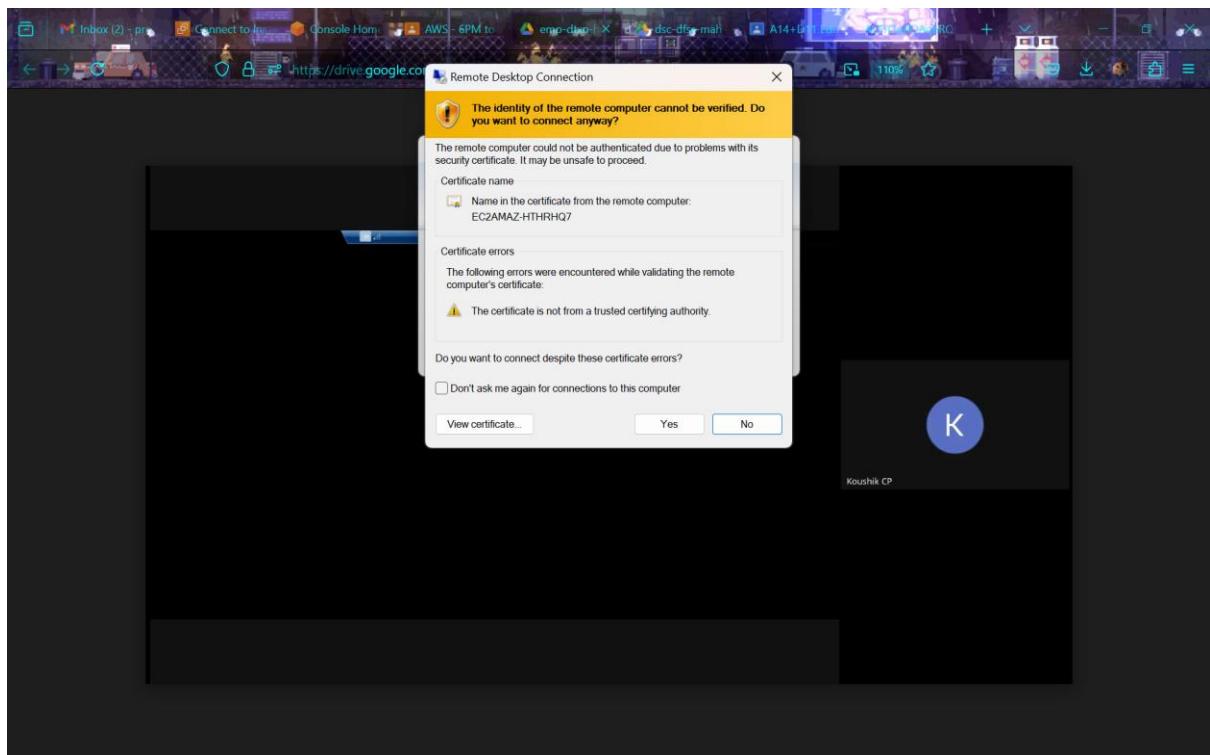
The screenshot shows the AWS CloudShell interface with the Instances page open. The left sidebar includes links for Dashboard, EC2 Global View, Events, Instances (with sub-links for Instances, Instance Types, Launch Templates, Spot Requests, Savings Plans, Reserved Instances, Dedicated Hosts, Capacity Reservations), Images (AMIs, AMI Catalog), Elastic Block Store (Volumes, Snapshots, Lifecycle Manager), and Network & Security (CloudShell, Feedback). The main content area displays a table of instances:

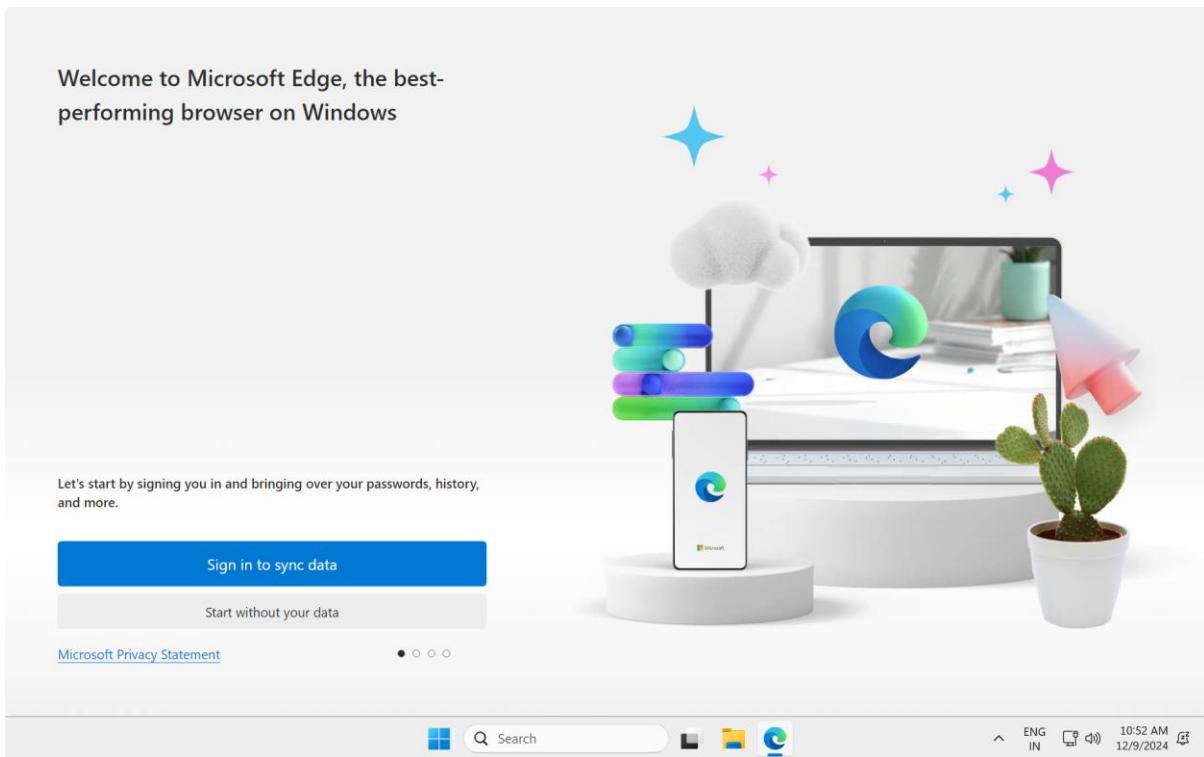
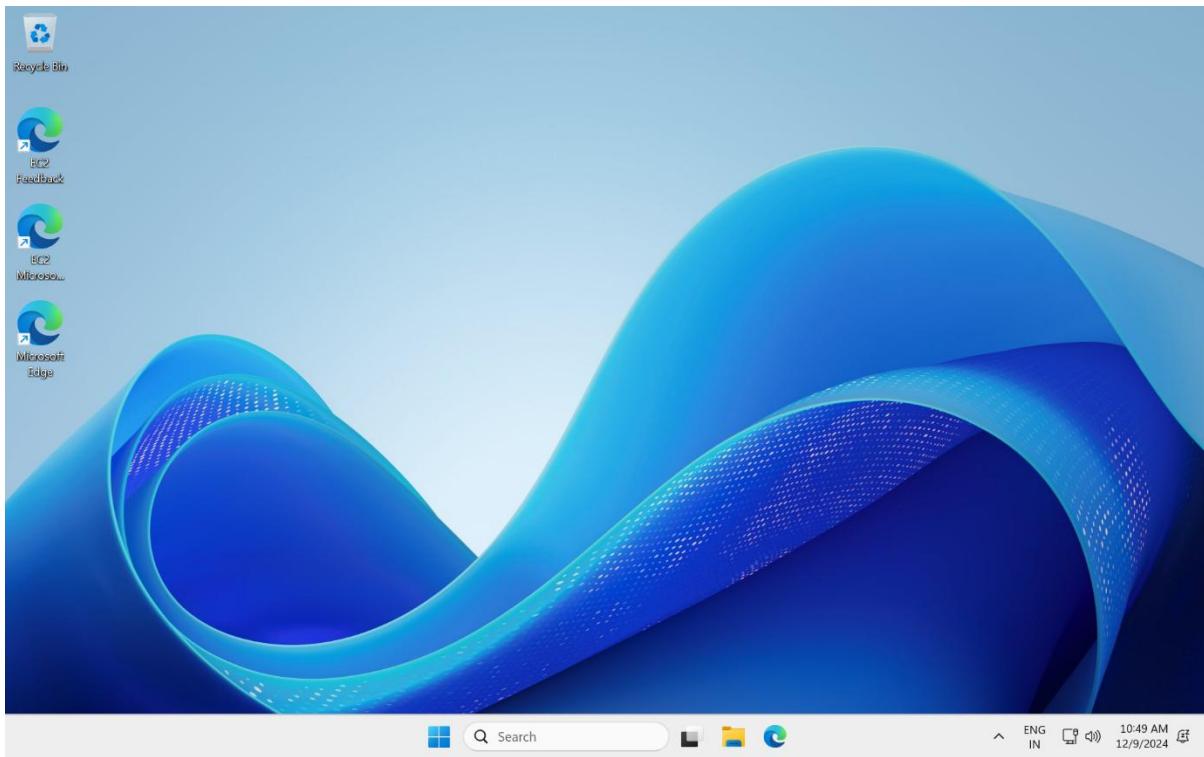
	Name	Instance ID	Instance state	Instance type	Status check	Alarm status
<input checked="" type="checkbox"/>	2BET10027-P...	i-0b20631d8c6f17af2	Running	t3.micro	3/3 checks passed	View alarms
<input type="checkbox"/>	2BET10027-...	i-0583ba92cd7d70087	Running	t3.micro	3/3 checks passed	View alarms
<input type="checkbox"/>	Public Server	i-0f79b458ac9fb8c7	Terminated	t3.micro	-	View alarms

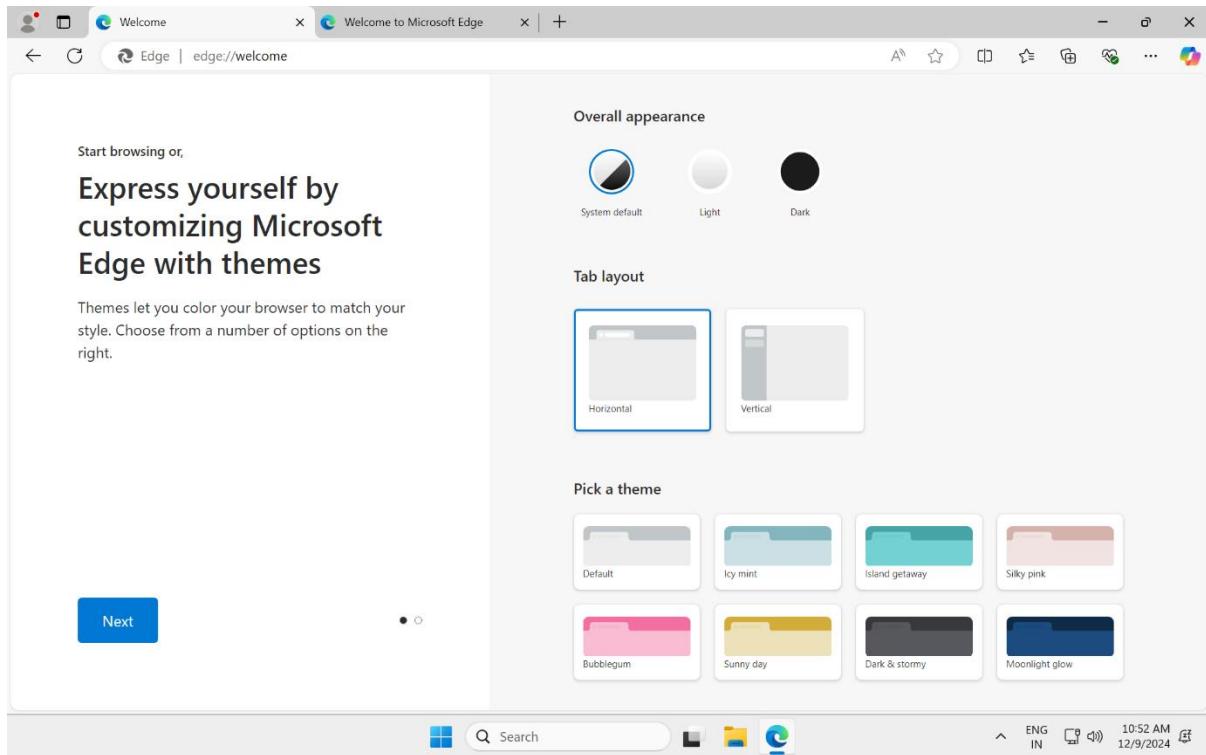
At the bottom right of the main content area, there is a footer bar with links for © 2024, Amazon Web Services, Inc. or its affiliates., Privacy, Terms, and Cookie preferences.

Connecting the VPC with the remote desktop:

- This is the verification process and hence after the verification process a new Windows virtual machine will be created.





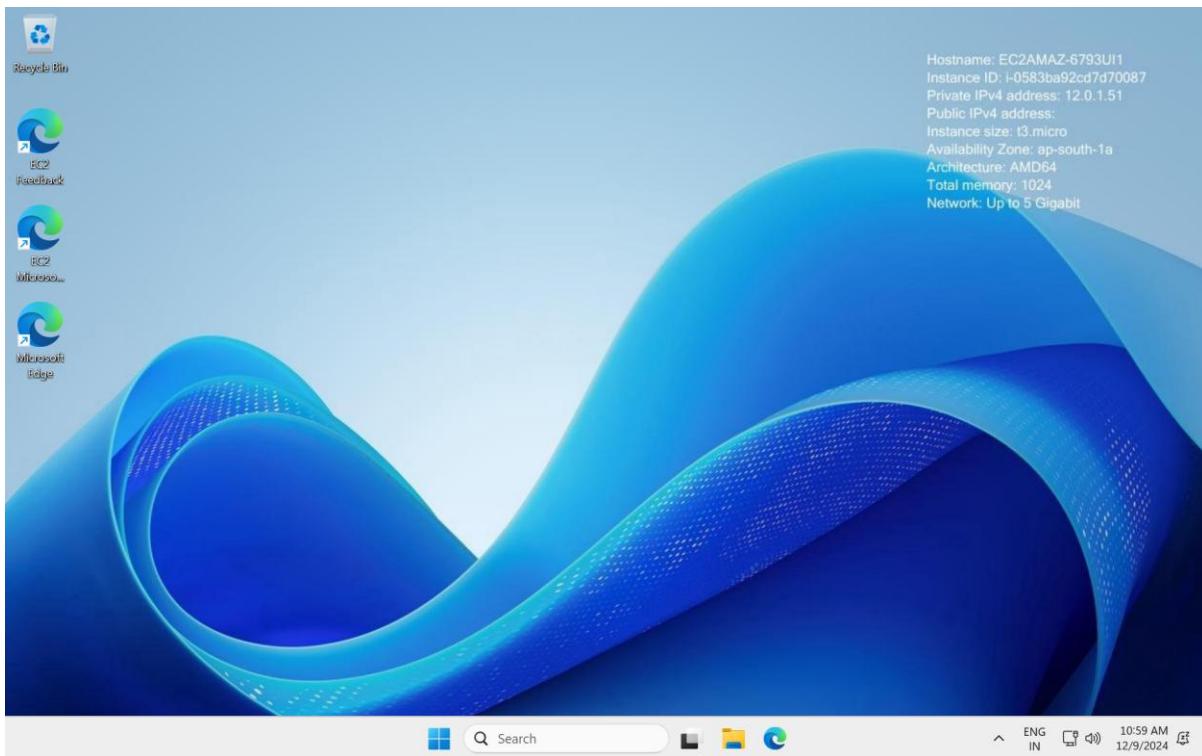
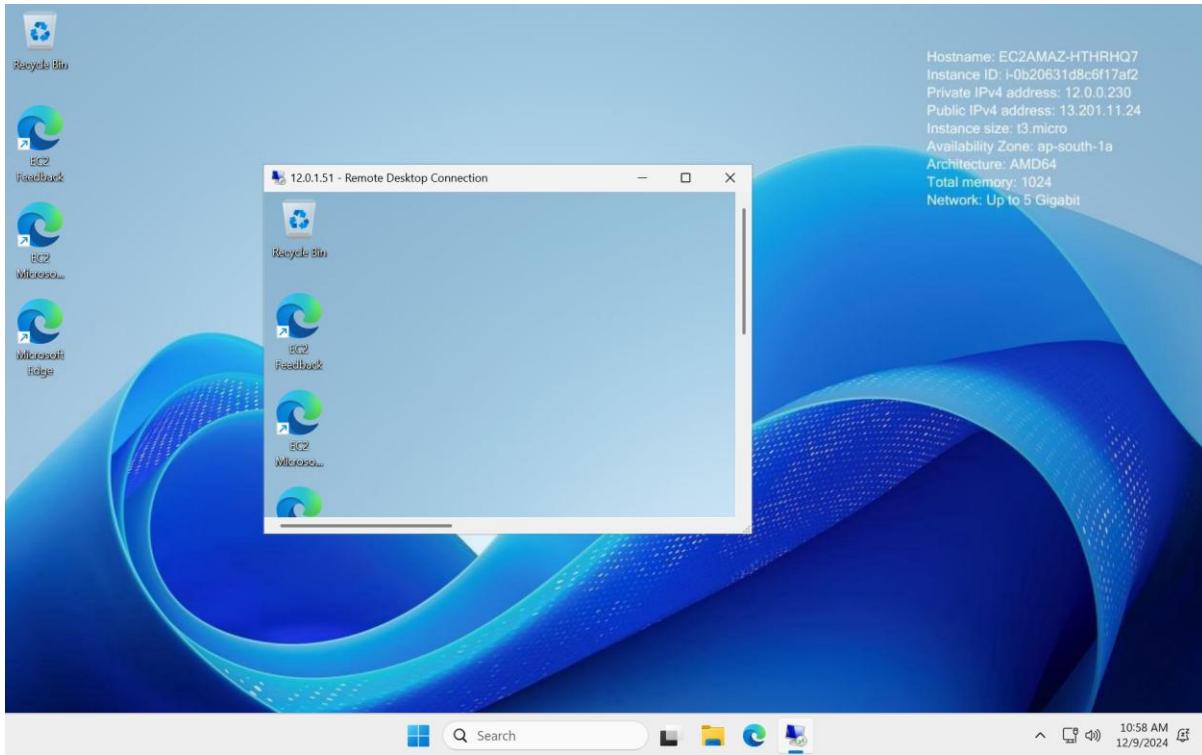


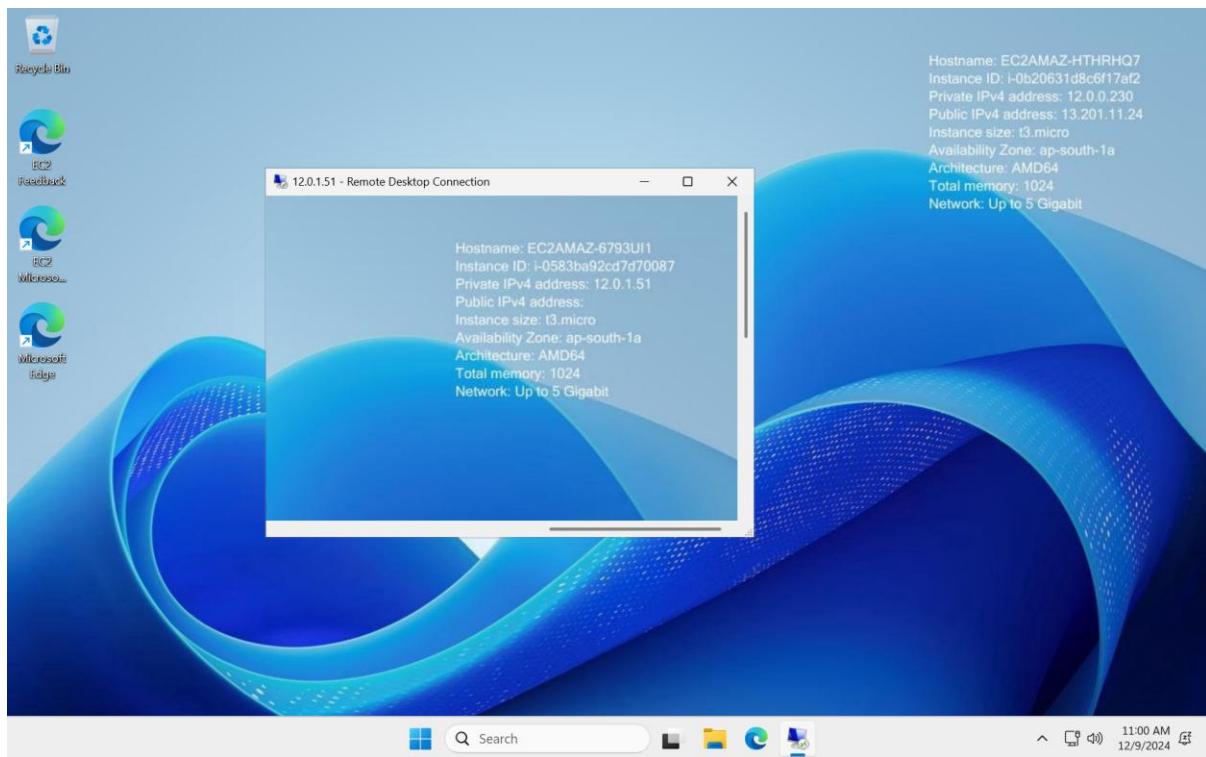
The screenshot shows the AWS Management Console interface for an EC2 instance. The top navigation bar includes links for "Inbox (2)", "Instance", "Console", "AWS - 6PM", "emp-dtxn-l", "emp-dtxn-r", "A14-D14", and "AWS Lambda". The main content area displays the "Instance summary for i-0583ba92cd7d70087 (22BET10027-Private-EC2)". The summary table contains the following data:

Attribute	Value
Public IPv4 address	-
Private IPv4 addresses	12.0.1.51
Instance state	Running
Public IP DNS name (IPv4 only)	ip-12-0-1-51.ap-south-1.compute.internal
Instance type	t3.micro
VPC ID	vpc-025e53c6b725f075b (22BET10027-VPC-Test)
Subnet ID	subnet-0af43c0ea9853361d (22BET10027-Subnet)

The left sidebar lists navigation categories: Dashboard, EC2 Global View, Events, Instances (with sub-options: Instances, Instance Types, Launch Templates, Spot Requests, Savings Plans, Reserved Instances, Dedicated Hosts, Capacity Reservations), Images (AMIs, AMI Catalog), Elastic Block Store (Volumes, Snapshots, Lifecycle Manager), and Network & Security (CloudShell, Feedback).

- Using the remote desktop in that machine we can connect to the private Subnet VPC and hence it is shown below.





- After completing all the work we need to clear all the things which we created.

Route tables (1/4) info

Name	Route table ID	Explicit subnet assoc...	Edge associations
rtb-098ffbf9182e19277	-	-	-
rtb-01962e5b3dd9bec08	-	-	-

Delete route tables

⚠ Route tables have associations and cannot be deleted.

The following route tables contain one or more associated subnets or edge associations, and cannot be deleted until those associated subnets or edge associations are removed.

Name	Route table ID	VPC ID
22BET10027-Public-RT	rtb-0c83f9ac726fce108	vpc-025e53c6

Cancel Delete

Details

Route table ID	Main	Explicit subnet associations	Edge associations
rtb-0c83f9ac726fce108	No	subnet-005b227a21942c5a6 / 22BET10027-Public-Subnet	-

CloudShell Feedback

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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 NAT gateways Peering connections Security Network ACLs Security groups

Route tables (1/4) Info Last updated less than a minute ago Actions Create route table

Name	Route table ID	Explicit subnet associ...	Edge associations	Main
rtb-098ffaff9182e1927	-	-	-	Yes
rtb-01962c5b3dd9bec88	-	-	-	Yes

Delete route tables The following route tables will be deleted permanently and can't be recovered later.

Name	Route table ID	VPC ID
22BET10027-Public-RT	rtb-0c83f9ac726fce108	vpc-025e53c6

To confirm deletion, type **delete** in the field:

Cancel Delete

Details Route table ID: rtb-0c83f9ac726fce108 Main: No Explicit subnet associations: - Edge associations: - Owner ID: vpc-025e53c6

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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 NAT gateways Peering connections Security Network ACLs Security groups

Route tables (2) Info Last updated less than a minute ago Actions Create route table

Name	Route table ID	Explicit subnet associ...	Edge associations	Main
rtb-098ffaff9182e1927	-	-	-	Yes
rtb-01962c5b3dd9bec88	-	-	-	Yes

You have successfully deleted rtb-0622991b3546fb994 / 22BET10027-Private-RT

rtb-0622991b3546fb994 / 22BET10027-Private-RT

Details Routes Subnet associations Edge associations Route propagation Tags

Details Route table ID: rtb-0622991b3546fb994 Main: No Explicit subnet associations: - Edge associations: -

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CloudShell Feedback

AWS Services Search [Alt+S] Mumbai Pravin Kumar GS

VPC dashboard X

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
 - NAT gateways
 - Peering connections

- Security** ▼

 - Network ACLs
 - Security groups

Elastic IP addresses (1/1)

Find resources by attribute or tag

Name	Allocated IPv4 address	Type
-	65.1.208.146	Public IP

Actions ▲ Allocate Elastic IP address (1) ? G

View details ▼

Release Elastic IP addresses ▼

Associate Elastic IP address ▼

Disassociate Elastic IP address ▼

Update reverse DNS 3a9d2e8cbaf

Enable transfers ▼

Disable transfers ▼

Accept transfers ▼

View IP address usage and recommendations to release unused IPs with [Public IP insights](#) X

65.1.208.146

Summary Tags

Summary

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