



PROJECT -1

COURSE : DEVOPS

Trainer : Mr . MADHUKAR



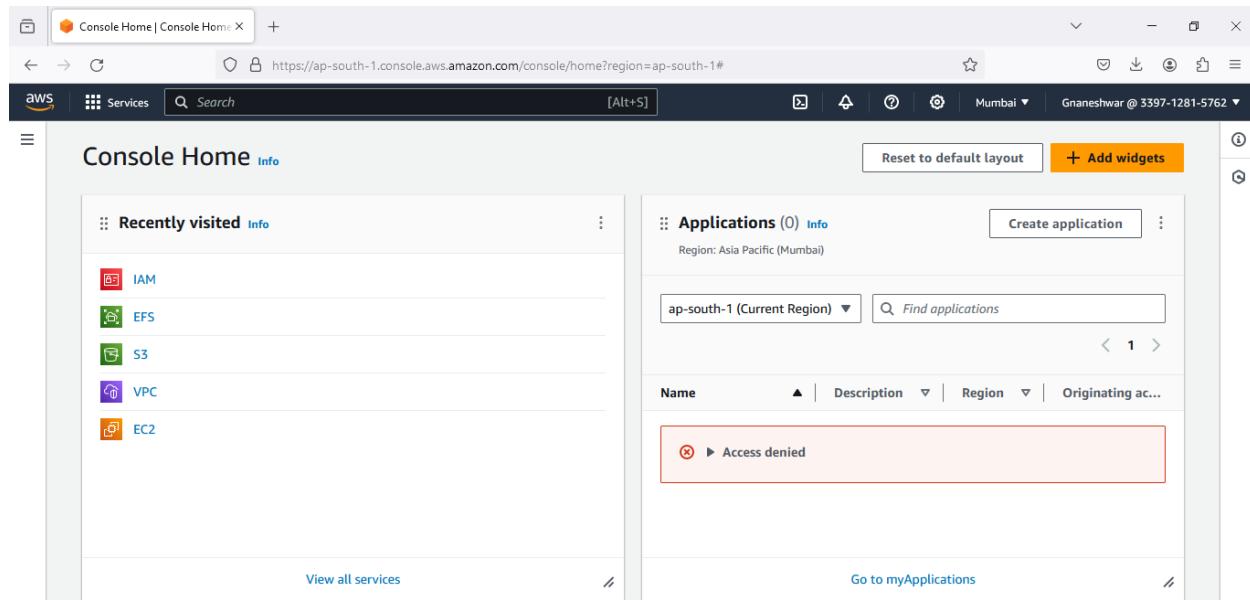
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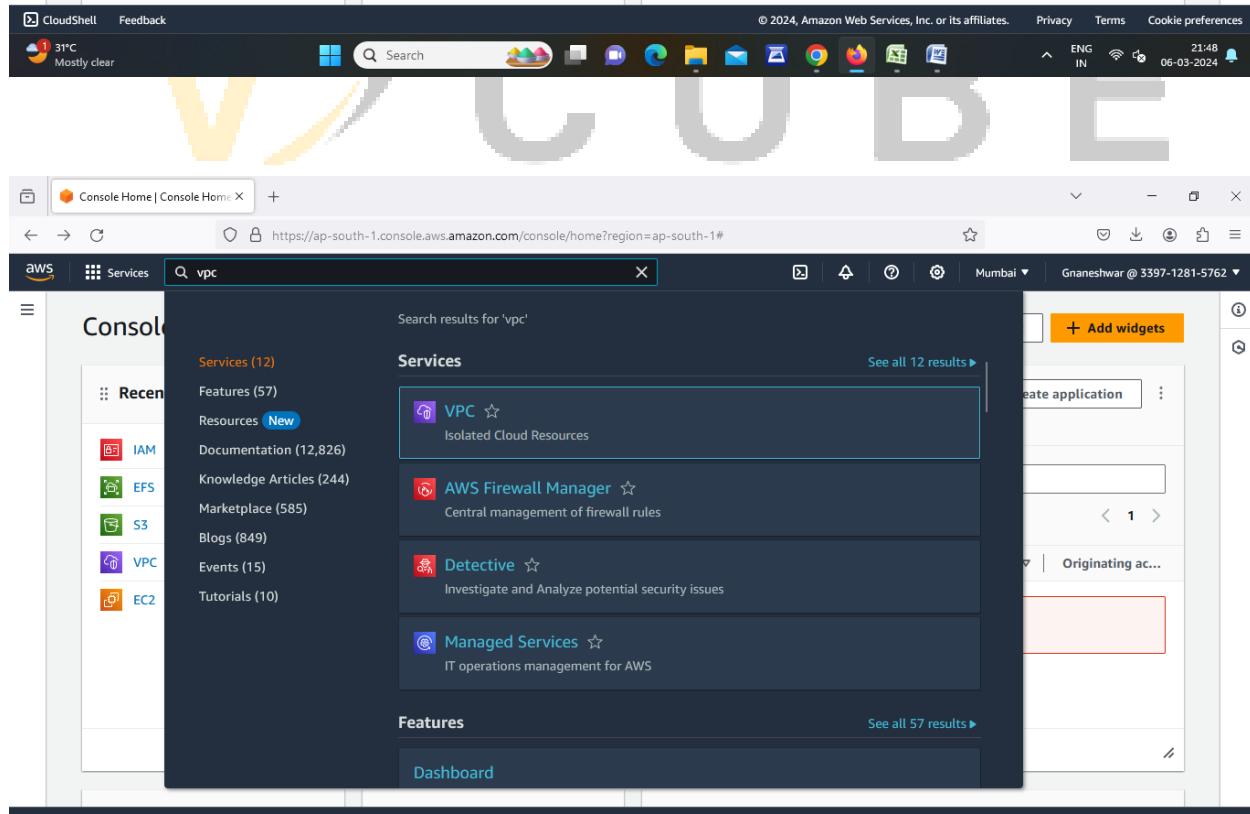


➤ Create VPC and connect subnets through Auto scaling and connect RDS

- First Go to Amazon Console Home and search VPC.

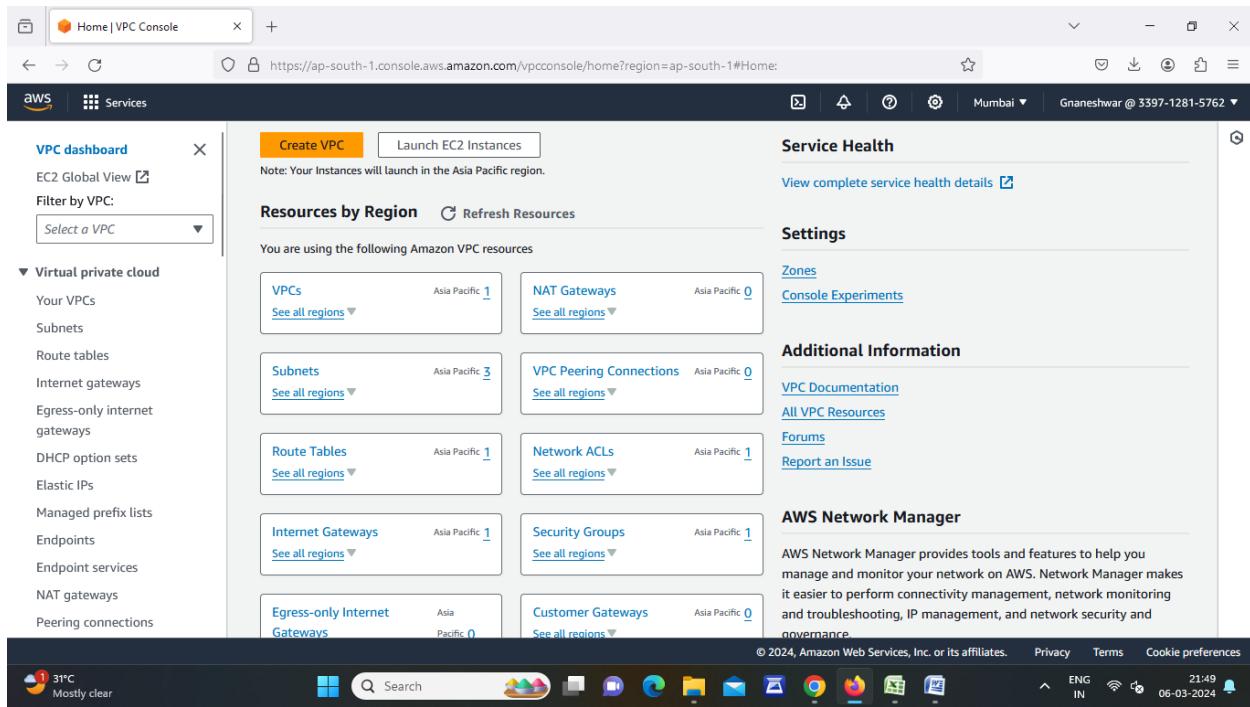


The screenshot shows the AWS Console Home page. At the top, there's a navigation bar with tabs for 'Services' and a search bar containing 'Search'. Below the navigation bar, the main area has two sections: 'Recently visited' on the left and 'Applications' on the right. The 'Recently visited' section includes links for IAM, EFS, S3, VPC, and EC2. The 'Applications' section shows a table with one row, which has a red border and contains the message 'Access denied'.

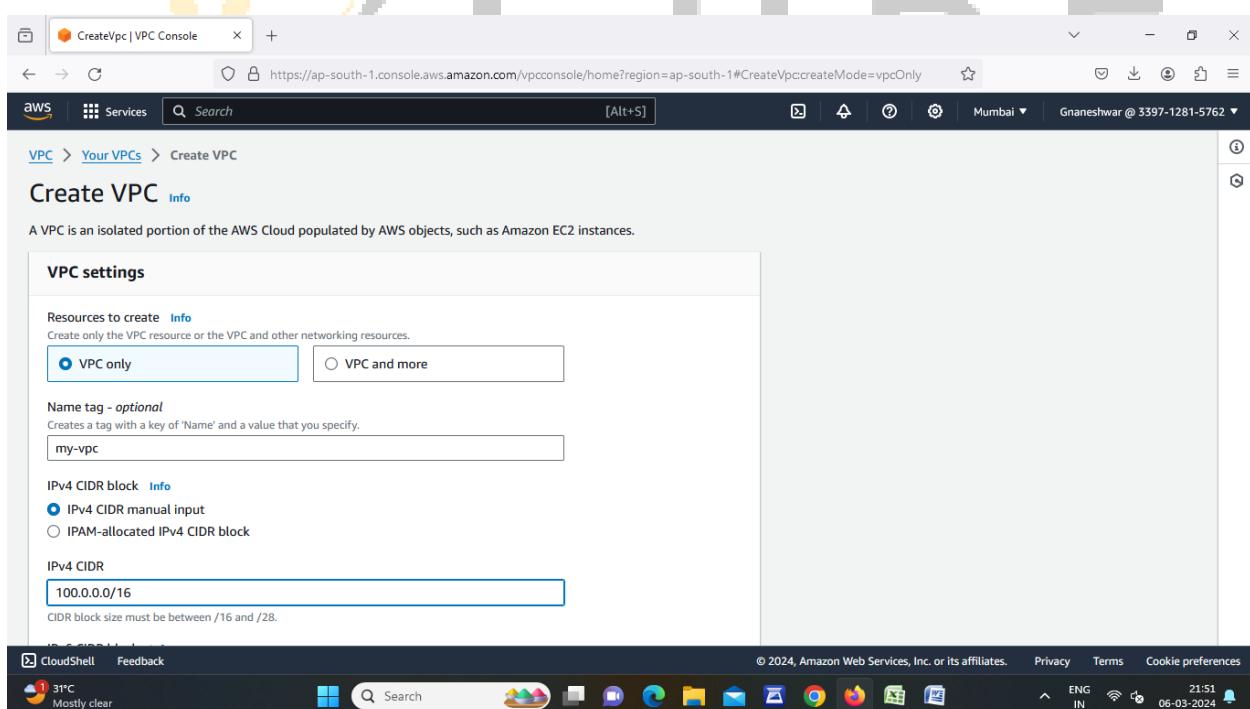


This screenshot is similar to the first one, but the search bar now contains 'vpc'. The results for 'vpc' are displayed in a card-based interface. The first card is for 'VPC' (Isolated Cloud Resources). Other cards include 'AWS Firewall Manager' (Central management of firewall rules), 'Detective' (Investigate and Analyze potential security issues), and 'Managed Services' (IT operations management for AWS). A 'See all 12 results' link is also present.

- Click on Create VPC
- Enter VPC Name and enter CIDR Number then Click on create VPC



The screenshot shows the AWS VPC Console Home page. At the top, there are two buttons: "Create VPC" (orange) and "Launch EC2 Instances". A note below says: "Note: Your Instances will launch in the Asia Pacific region." On the left, a sidebar titled "VPC dashboard" lists various VPC-related services. The main area is titled "Resources by Region" and shows counts for VPCs, Subnets, Route Tables, Internet Gateways, Egress-only Internet Gateways, DHCP option sets, Elastic IPs, Managed prefix lists, Endpoints, Endpoint services, NAT gateways, and Peering connections across the Asia Pacific region. To the right, there's a "Service Health" section with a link to "View complete service health details", a "Settings" section with "Zones" and "Console Experiments" links, and an "Additional Information" section with links to "VPC Documentation", "All VPC Resources", "Forums", and "Report an Issue". Below these is the "AWS Network Manager" section. The bottom of the page includes standard AWS navigation links like Privacy, Terms, and Cookie preferences, along with a weather widget showing 31°C and mostly clear conditions.



The screenshot shows the "Create VPC" wizard. The current step is "VPC settings". It has a title "Create VPC" with an "Info" link. Below it, a sub-section "Resources to create" with an "Info" link says "Create only the VPC resource or the VPC and other networking resources." There are two radio buttons: "VPC only" (selected) and "VPC and more". A "Name tag - optional" field contains "my-vpc". Under "IPv4 CIDR block", there are three options: "IPv4 CIDR manual input" (selected), "IPAM-allocated IPv4 CIDR block", and a text input field containing "100.0.0.0/16". A note below says "CIDR block size must be between /16 and /28." The bottom of the page includes CloudShell, Feedback, and standard AWS navigation links like Privacy, Terms, and Cookie preferences, along with a weather widget showing 31°C and mostly clear conditions.

CreateVpc | VPC Console

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

aws Services Search [Alt+S]

100.0.0.0/16 CIDR block size must be between /16 and /28.

IPv6 CIDR block **Info**

No IPv6 CIDR block

IPAM-allocated IPv6 CIDR block

Amazon-provided IPv6 CIDR block

IPv6 CIDR owned by me

Tenancy **Info**

Default

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 Remove tag

Add tag

You can add 49 more tags

Cancel Create VPC

CloudShell Feedback

31°C Mostly clear

Search

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ENG IN 21:50 06-03-2024

VpcDetails | VPC Console

https://ap-south-1.console.aws.amazon.com/vpcconsole/home?region=ap-south-1#VpcDetails:VpcId=vpc-00f52c5dcb72e276a

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

You successfully created vpc-00f52c5dcb72e276a / my-vpc

VPC > Your VPCs > vpc-00f52c5dcb72e276a

vpc-00f52c5dcb72e276a / my-vpc

Details **Info**

VPC ID	State	DNS hostnames	DNS resolution
vpc-00f52c5dcb72e276a	Available	Disabled	Enabled
Tenancy	DHCP option set	Main route table	Main network ACL
Default	dopt-0f4bd8af4e50e8fc	rtb-067784de33cc06688	acl-048626119ad592d9b
Default VPC	IPv4 CIDR	IPv6 pool	IPv6 CIDR (Network border group)
No	100.0.0.0/16	-	-
Network Address Usage metrics	Route 53 Resolver DNS Firewall rule groups	Owner ID	
Disabled	-	339712815762	

Resource map **Info**

Resource map **Info**

CloudShell Feedback

31°C Mostly clear

Search

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- Go to Subnets and Click on create 2 public Subnets
- Select our VPC then enter Public subnet name and select One region then ipv4 subnet CIDR Number
- Click on add new subnet

The screenshot shows the AWS VPC Subnets console. On the left, there's a navigation sidebar with options like 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, and Peering connections. The main area displays a table titled "Subnets (3) Info" with columns: Name, Subnet ID, State, VPC, and IPv4 CIDR. The table lists three subnets: "subnet-0159d1df909729c40" (available, vpc-05c6e37ded27aa6ea, 172.31.0.0/16), "subnet-0101cebfb860a3f5f" (available, vpc-05c6e37ded27aa6ea, 172.31.16.0/16), and "subnet-06de7bf03642714e4" (available, vpc-05c6e37ded27aa6ea, 172.31.32.0/16). Below the table, a section titled "Select a subnet" is visible.

The screenshot shows the "Create subnet" wizard. The first step, "VPC", is selected. It asks to "Create subnets in this VPC" and provides a dropdown menu titled "Select a VPC". The dropdown shows two options: "vpc-00f52c5dcb72e276a (my-vpc)" with CIDR "100.0.0.0/16" and "vpc-05c6e37ded27aa6ea" with CIDR "172.31.0.0/16" and a note "(default)". A message at the bottom says "Select a VPC first to create new subnets." At the bottom right of the wizard are "Cancel" and "Create subnet" buttons. The "Create subnet" button is highlighted with a yellow background.

The screenshot shows the AWS VPC Console interface for creating a new subnet. The top window is titled "CreateSubnet | VPC Console". The "Subnet 1 of 1" step is active, showing the following configuration:

- Subnet name:** public-subnet-1
- Availability Zone:** Asia Pacific (Mumbai) / ap-south-1a
- IPv4 VPC CIDR block:** 100.0.0.0/16
- IPv4 subnet CIDR block:** 100.0.1.0/24

A tag named "Name" is added with the value "public-subnet-1".

The bottom window shows the "Review" step, which displays the same configuration information.

The browser status bar at the bottom shows the URL: https://ap-south-1.console.aws.amazon.com/vpcconsole/home?region=ap-south-1#CreateSubnet.

- Enter public subnet name and select another region then ipv4 subnet CIDR Number then Click on Create Subnet

CreateSubnet | VPC Console

Subnet name: public-subnet-2

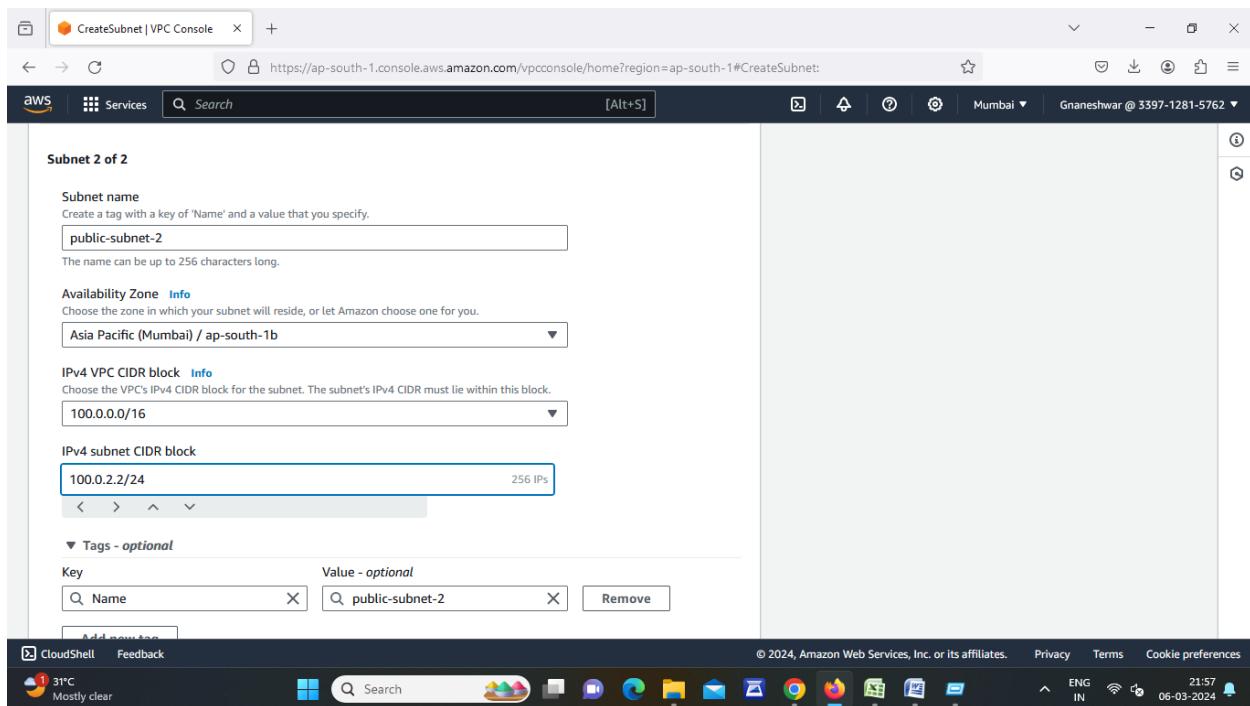
Availability Zone: Asia Pacific (Mumbai) / ap-south-1b

IPv4 VPC CIDR block: 100.0.0.0/16

IPv4 subnet CIDR block: 100.0.2.2/24

Tags - optional: Name: public-subnet-2

Create subnet



CreateSubnet | VPC Console

Availability Zone: Asia Pacific (Mumbai) / ap-south-1b

IPv4 VPC CIDR block: 100.0.0.0/16

IPv4 subnet CIDR block: 100.0.2.2/24

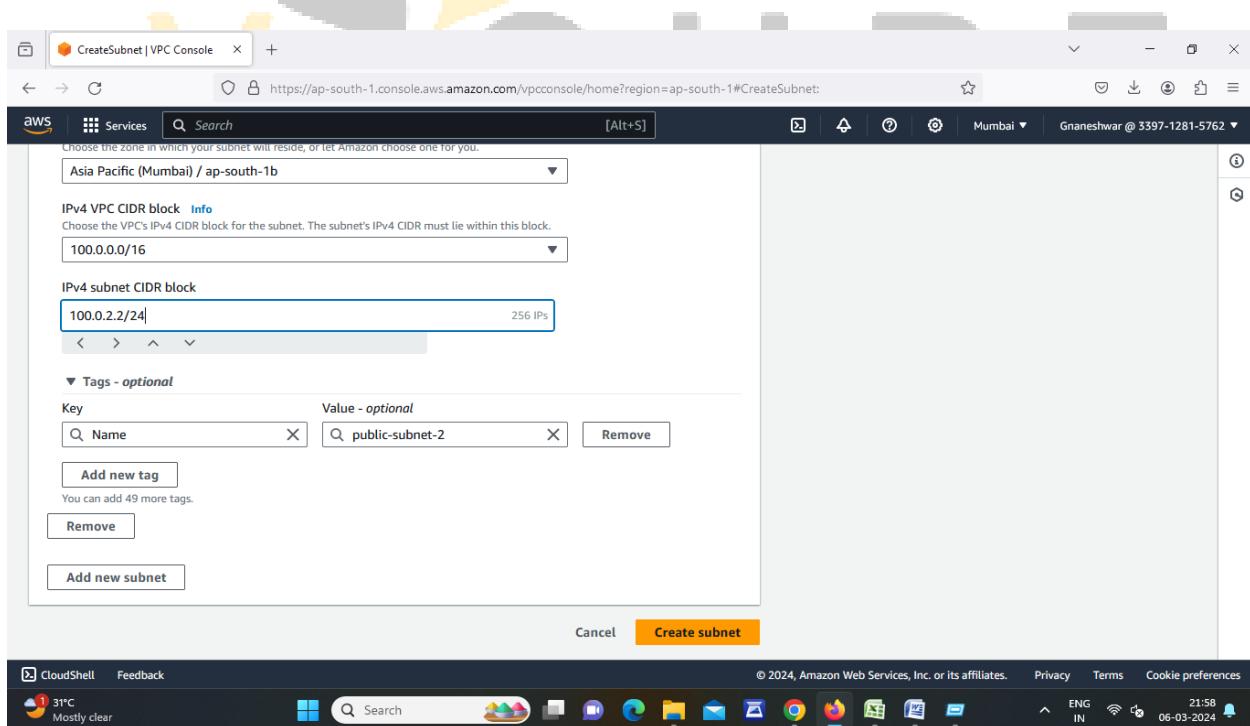
Tags - optional: Name: public-subnet-2

Add new tag

You can add 49 more tags.

Add new subnet

Create subnet



- Go to Subnets and Click on create 2 Private Subnets
- Select our VPC then enter Private subnet name and select One region then ipv4 subnet CIDR Number
- Click on add new subnet

Screenshot of the AWS VPC Management Console showing the Subnets page. A success message at the top indicates "You have successfully created 2 subnets: subnet-08b4c86c131317765, subnet-046ad2c4f1c268d05". The Subnets table lists two subnets:

Name	Subnet ID	State	VPC	IPv4 CIDR
public-subnet-2	subnet-046ad2c4f1c268d05	Available	vpc-00f52c5dc72e276a my-vpc	100.0.2.0/24
public-subnet-1	subnet-08b4c86c131317765	Available	vpc-00f52c5dc72e276a my-vpc	100.0.1.0/24

The screenshot also shows the "Create subnet" wizard, where the VPC ID is selected as "vpc-00f52c5dc72e276a (my-vpc)".

CreateSubnet | VPC Console

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

Mumbai Gnaneshwar @ 3397-1281-5762

Subnet 1 of 1

Subnet name: private-subnet-1

Availability Zone: Asia Pacific (Mumbai) / ap-south-1a

IPv4 VPC CIDR block: 100.0.0.0/16

IPv4 subnet CIDR block: 100.0.4.1/24

Tags - optional: Name: private-subnet-1

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CreateSubnet | VPC Console

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

Mumbai Gnaneshwar @ 3397-1281-5762

Choose the zone in which your subnet will reside, or let Amazon choose one for you.

Availability Zone: Asia Pacific (Mumbai) / ap-south-1a

IPv4 VPC CIDR block: 100.0.0.0/16

IPv4 subnet CIDR block: 100.0.4.1/24

Tags - optional: Name: private-subnet-1

Add new tag

You can add 49 more tags.

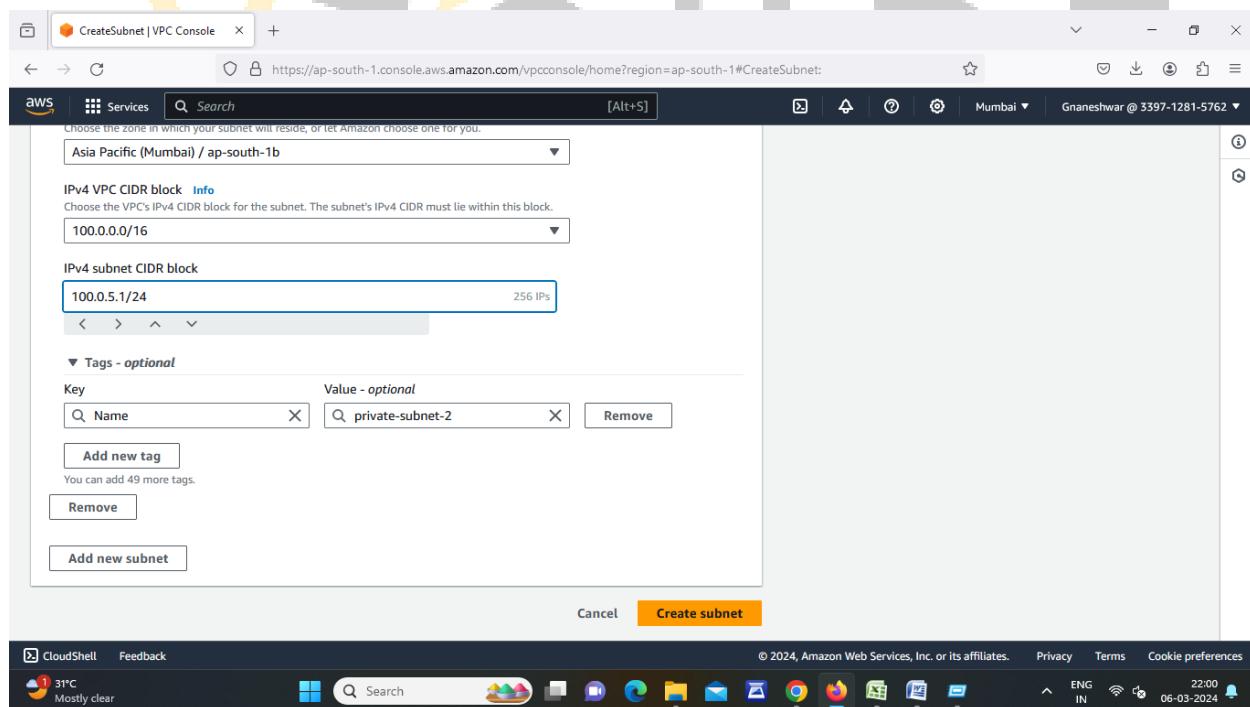
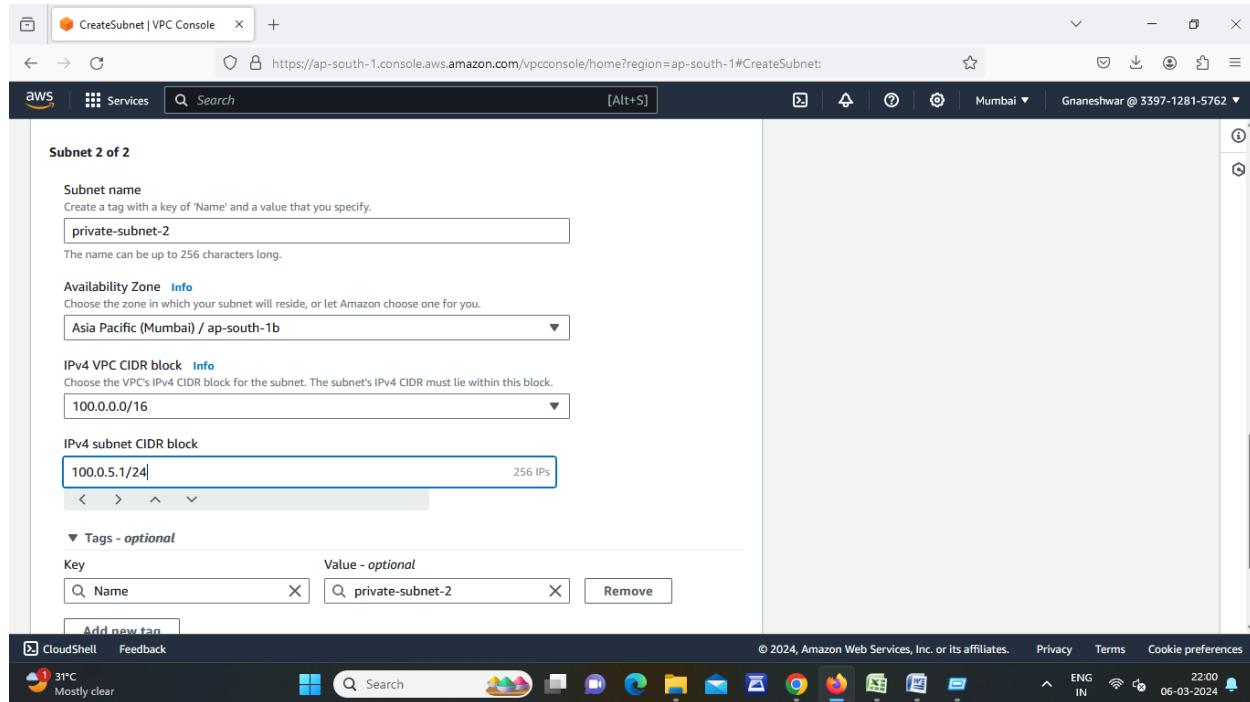
Remove

Add new subnet

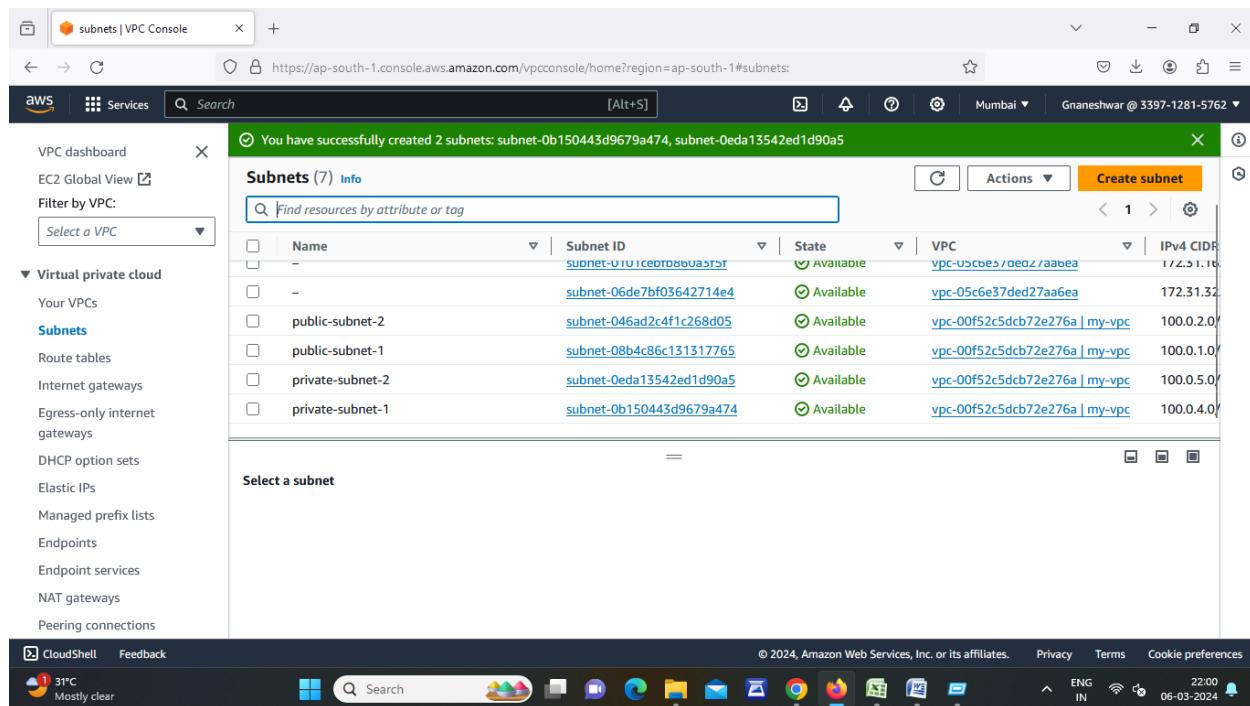
Cancel Create subnet

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- Enter public subnet name and select another region then ipv4 subnet CIDR Number then Click on Create Subnet



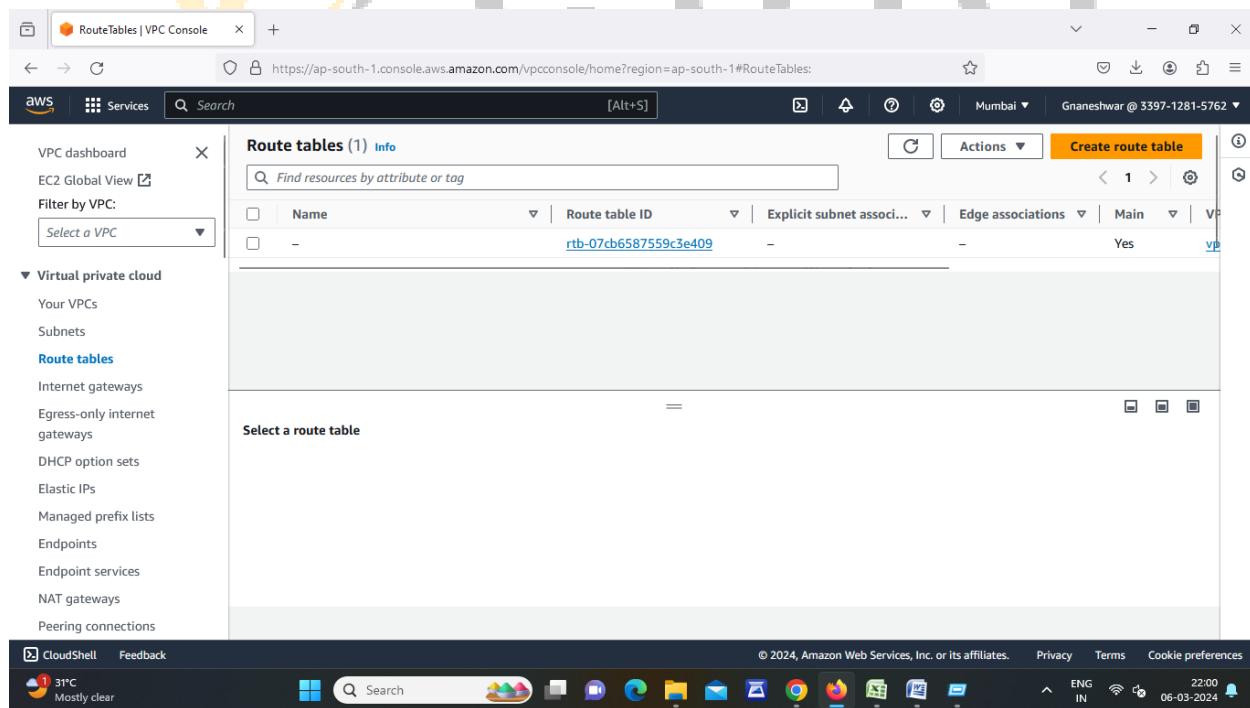
- After Successfully created public and private go to route tables



You have successfully created 2 subnets: subnet-0b150443d9679a474, subnet-0eda13542ed1d90a5

Name	Subnet ID	State	VPC	IPv4 CIDR
-	subnet-0b150443d9679a474	Available	vpc-00f52c5dcb72e276a my-vpc	172.31.1.0/24
-	subnet-0eda13542ed1d90a5	Available	vpc-00f52c5dcb72e276a my-vpc	100.0.5.0/24
public-subnet-2	subnet-046ad2c4f1c268d05	Available	vpc-00f52c5dcb72e276a my-vpc	100.0.2.0/24
public-subnet-1	subnet-08b4c86c131317765	Available	vpc-00f52c5dcb72e276a my-vpc	100.0.1.0/24
private-subnet-2	subnet-0eda13542ed1d90a5	Available	vpc-00f52c5dcb72e276a my-vpc	100.0.5.0/24
private-subnet-1	subnet-0b150443d9679a474	Available	vpc-00f52c5dcb72e276a my-vpc	100.0.4.0/24

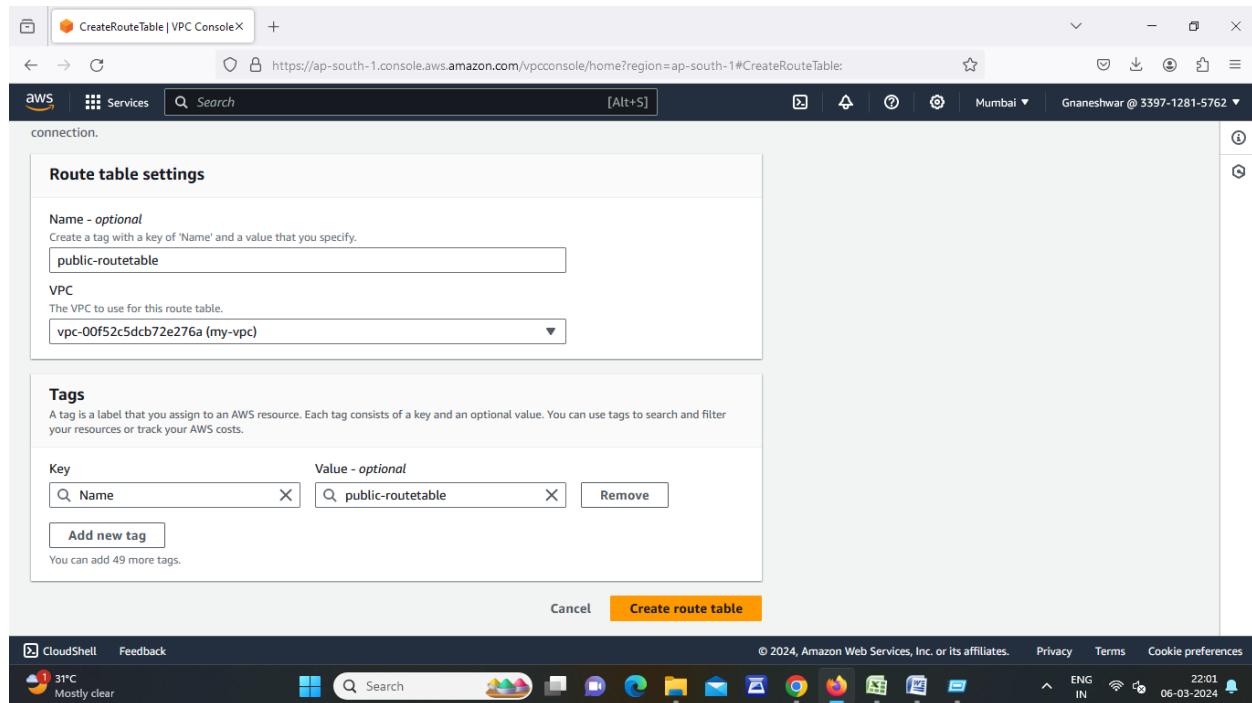
- Create 2 route tables (public and private)
- Click on create route table



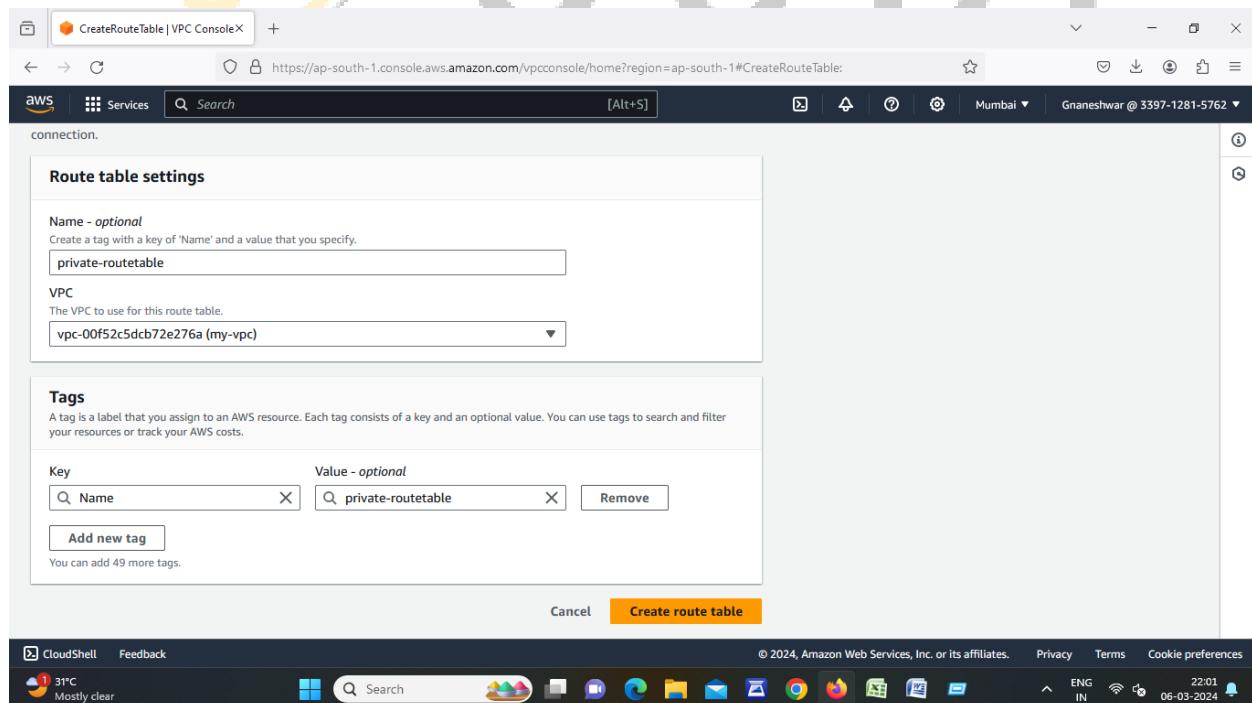
Route tables (1) Info

Name	Route table ID	Explicit subnet associ...	Edge associations	Main	V...
-	rtb-07cb6587559c3e409	-	-	Yes	v...

- Enter route table name for public then select our VPC then click on create route table



- Enter route table name for private then select our VPC then click on create route table



- Click on Public route table id then go to subnet association
- Go to edit subnet association select public subnets then save changes.

The screenshot shows two browser windows open in a desktop environment. Both windows are from the AWS VPC Console.

Top Window (RouteTables | VPC Console):

- Left Sidebar:** Shows navigation links for VPC dashboard, EC2 Global View, Filter by VPC, Virtual private cloud (Your VPCs, Subnets), and Route tables (Internet gateways, Egress-only internet gateways, DHCP option sets, Elastic IPs, Managed prefix lists, Endpoints, Endpoint services, NAT gateways, Peering connections).
- Main Content:** A table titled "Route tables (4) Info" listing four route tables:

Name	Route table ID	Explicit subnet associations	Edge associations
-	rtb-07c6587559c3e409	-	Yes
public-routetable	rtb-0234080d0befa3a5a	-	No
-	rtb-067784de33cc06688	-	Yes
private-routetable	rtb-09a93b1ffa099abb0	-	No
- Action Bar:** Includes "Actions" dropdown, "Create route table" button, and other standard UI elements.

Bottom Window (RouteTableDetails | VPC Console):

- Left Sidebar:** Same as the top window.
- Main Content:** Details for a specific route table (rtb-0234080d0befa3a5a):

Route table ID: rtb-0234080d0befa3a5a	Main: No	Explicit subnet associations: -	Edge associations: -
VPC: vpc-00f52c5dc72e276a my-vpc	Owner ID: 339712815762		

Subnet associations tab is selected. It shows "Explicit subnet associations (0)" and "Subnets without explicit associations (4)".
- Action Bar:** Includes "Edit subnet associations" buttons and other standard UI elements.

Available subnets (2/4)

Name	Subnet ID	IPv4 CIDR	IPv6 CIDR	Route table ID
public-subnet-2	subnet-046ad2c4f1c268d05	100.0.2.0/24	-	Main (rtb-067784de33cc06688)
public-subnet-1	subnet-08b4c86c131317765	100.0.1.0/24	-	Main (rtb-067784de33cc06688)
private-subnet-2	subnet-0eda13542ed1d90a5	100.0.5.0/24	-	Main (rtb-067784de33cc06688)
private-subnet-1	subnet-0b150443d9679a474	100.0.4.0/24	-	Main (rtb-067784de33cc06688)

Selected subnets

- subnet-046ad2c4f1c268d05 / public-subnet-2
- subnet-08b4c86c131317765 / public-subnet-1

Actions: Cancel, Save associations

- Click on Private route table id then go to subnet association
- Go to edit subnet association select private subnets then save changes.

Route tables (1/4) Info

Name	Route table ID	Explicit subnet assoc...	Main	V...
-	rtb-07cb6587559c3e409	-	-	Yes
public-routetable	rtb-0234080d0befa3a5a	2 subnets	-	No
-	rtb-067784de33cc06688	-	-	Yes
private-routetable	rtb-09a93b1ffa099abb0	-	-	No

rtb-09a93b1ffa099abb0 / private-routetable

Details

Route table ID rtb-09a93b1ffa099abb0	Main No	Explicit subnet associations -	Edge associations -
---	------------	-----------------------------------	------------------------

Actions: Create route table, Actions, Details, Routes, Subnet associations, Edge associations, Route propagation, Tags

RouteTableDetails | VPC Console

https://ap-south-1.console.aws.amazon.com/vpcconsole/home?region=ap-south-1#RouteTableDetails:RouteTableId=rtb-09a93b1ffa099abb0

VPC dashboard X

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

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Details Info

Route table ID: rtb-09a93b1ffa099abb0

Main: No

Explicit subnet associations: -

Edge associations: -

VPC: vpc-00f52c5dcb72e276a | my-vpc

Owner ID: 339712815762

Routes Subnet associations Edge associations Route propagation Tags

Explicit subnet associations (0)

No subnet associations

You do not have any subnet associations.

Edit subnet associations

Subnets without explicit associations (2)

The following subnets have not been explicitly associated with any route tables and are therefore associated with the main route table:

Find subnet association

Edit subnet associations

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ENG IN 22:03 06-03-2024

EditRouteTableSubnetAssociations | VPC Console

https://ap-south-1.console.aws.amazon.com/vpcconsole/home?region=ap-south-1#EditRouteTableSubnetAssociations:RouteTableId=rtb-09a93b1ffa099abb0

VPC > Route tables > rtb-09a93b1ffa099abb0 > Edit subnet associations

Edit subnet associations

Change which subnets are associated with this route table.

Available subnets (2/4)

Name	Subnet ID	IPv4 CIDR	IPv6 CIDR	Route table ID
public-subnet-2	subnet-046ad2c4f1c268d05	100.0.2.0/24	-	rtb-0234080d0befa3a5a / public-rtb-09a93b1ffa099abb0
public-subnet-1	subnet-08b4c86c131317765	100.0.1.0/24	-	rtb-0234080d0befa3a5a / public-rtb-09a93b1ffa099abb0
<input checked="" type="checkbox"/> private-subnet-2	subnet-0eda13542ed1d90a5	100.0.5.0/24	-	Main (rtb-067784de33cc06688)
<input checked="" type="checkbox"/> private-subnet-1	subnet-0b150443d9679a474	100.0.4.0/24	-	Main (rtb-067784de33cc06688)

Selected subnets

subnet-0eda13542ed1d90a5 / private-subnet-2 X

subnet-0b150443d9679a474 / private-subnet-1 X

Cancel Save associations

CloudShell Feedback

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Search [Alt+S]

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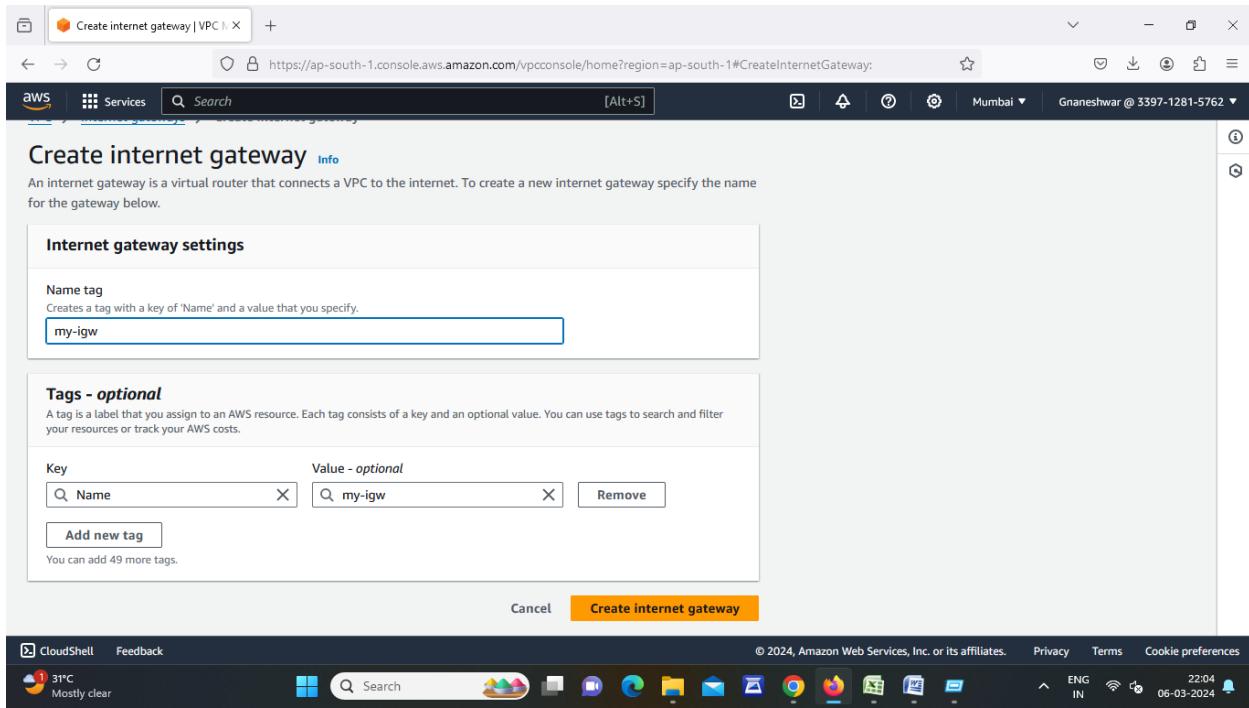
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ENG IN 22:03 06-03-2024

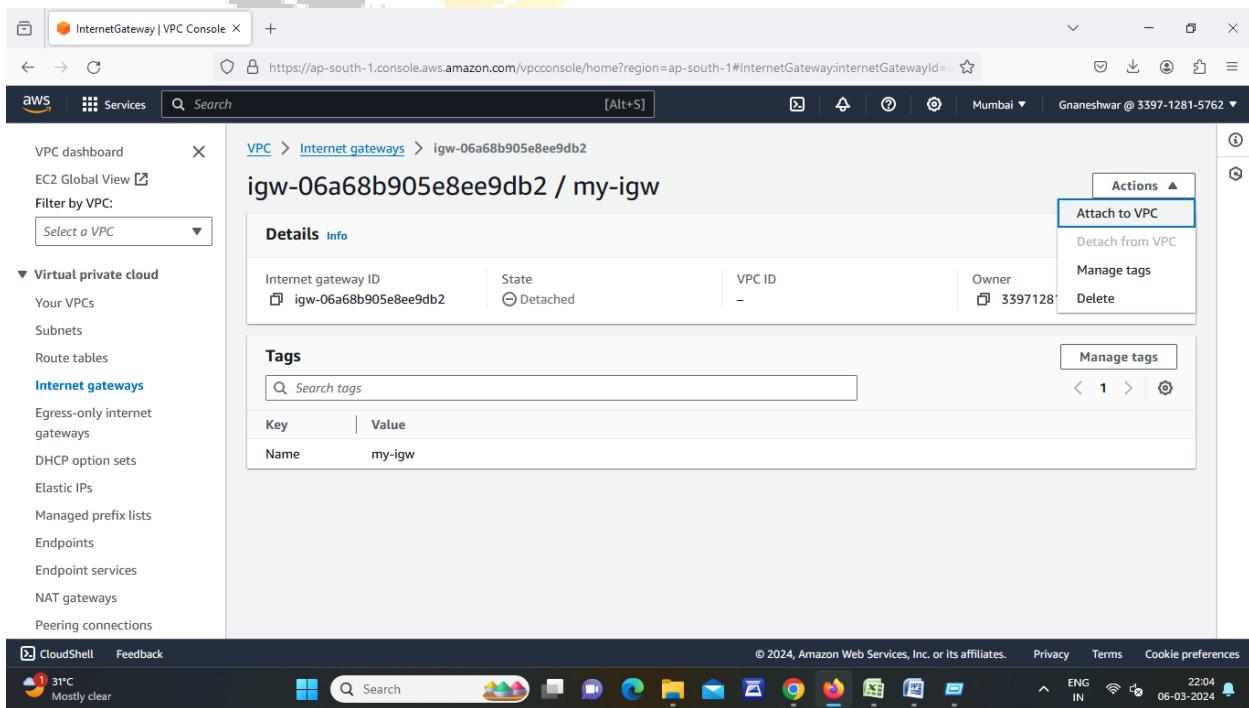
The screenshot shows the AWS VPC Console with the URL <https://ap-south-1.console.aws.amazon.com/vpcconsole/home?region=ap-south-1#RouteTableDetails:RouteTableId=rtb-09a93b1ffa099abb0>. A green success message at the top states: "You have successfully updated subnet associations for rtb-09a93b1ffa099abb0 / private-routetable." The main page displays the details for the route table "rtb-09a93b1ffa099abb0 / private-routetable". The "Routes" tab is selected, showing one route entry: Destination 100.0.0.0/16, Target local, Status Active, and Propagated No. The sidebar on the left shows the "Route tables" section under "Virtual private cloud".

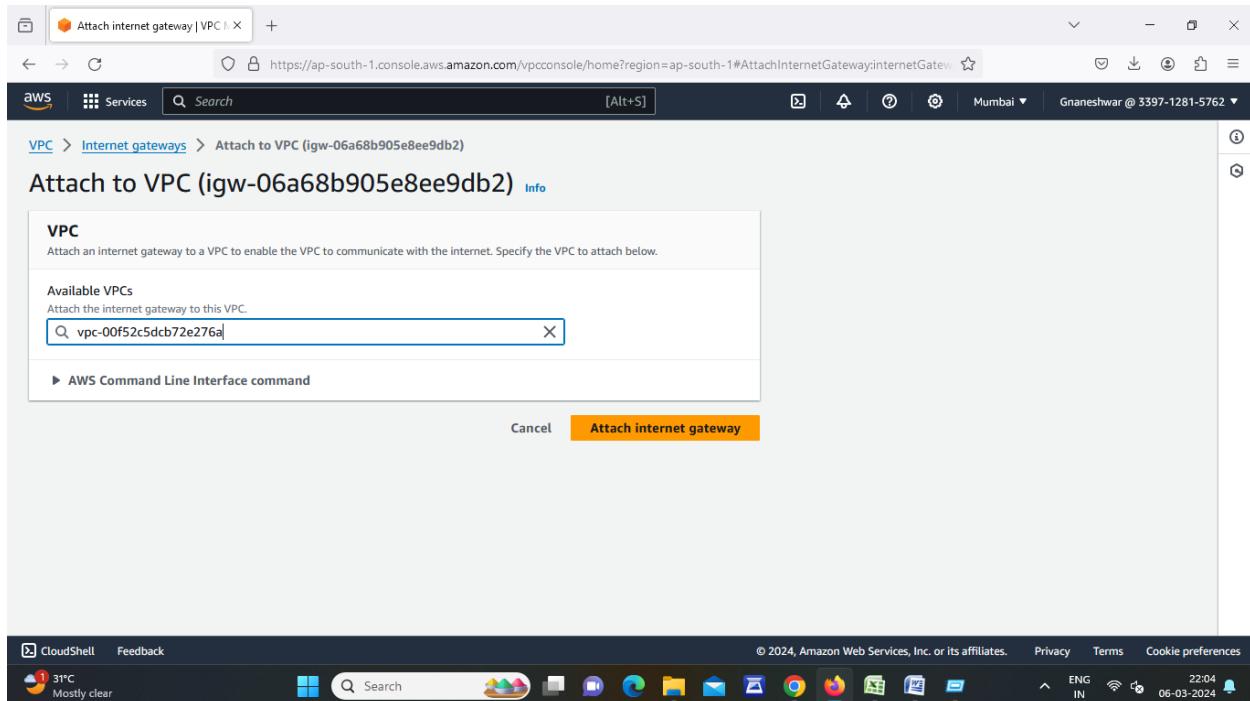
- Now go to Internet gateway then click on create internet gateway
- Enter internet gateway name then click on create internet gateway

The screenshot shows the AWS VPC Console with the URL <https://ap-south-1.console.aws.amazon.com/vpcconsole/home?region=ap-south-1#igws>. The "Internet gateways (1)" section is displayed, showing one gateway named "igw-018fa2a68541b128e" with state "Attached" and VPC ID "vpc-05c6e37ded27aa6ea". A message at the bottom says "Select an internet gateway above". The sidebar on the left shows the "Internet gateways" section under "Virtual private cloud".



- Go to actions then attach to VPC
- Select our VPC then click on attach internet gateway





- Go to NAT Gateway

The screenshot shows the AWS VPC console with the URL <https://ap-south-1.console.aws.amazon.com/vpcconsole/home?region=ap-south-1#InternetGateway:internetGatewayId=igw-06a68b905e8ee9db2>. The page title is "igw-06a68b905e8ee9db2 / my-igw". The left sidebar shows "Virtual private cloud" with "Internet gateways" selected. The main content area displays "Details" for the Internet gateway, including its ID (igw-06a68b905e8ee9db2), state (Attached), VPC ID (vpc-00f52c5dcb72e276a | my-vpc), and owner (339712815762). It also shows a "Tags" section with one tag: Name: my-igw. At the bottom are "Actions" and "Manage tags" buttons. The status bar at the bottom indicates "CloudShell" and "Feedback".

- Click on create NAT gateway
- Enter Name and select public subnet then click on allocate elastic ip then click on create NAT gateway

NAT gateways Info

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

Select a NAT gateway

Elastic IP address 65.1.77.246 (eipalloc-0ebb832009ca46633) allocated.

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.

Additional settings Info

Elastic IP address 65.1.77.246 (eipalloc-0ebb832009ca46633) allocated.

Connectivity type: Public

Elastic IP allocation ID: eipalloc-0ebb832009ca46633

Tags: Name: my-nat

Create NAT gateway

- Go to Route Tables and add routes to the tables

NAT gateway nat-07d6d5ed54a36af76 | my-nat was created successfully.

nat-07d6d5ed54a36af76 / my-nat

Details			
NAT gateway ID: nat-07d6d5ed54a36af76	Connectivity type: Public	State: Pending	State message: -
NAT gateway ARN: arn:aws:ec2:ap-south-1:339712815762:natgateway/nat-07d6d5ed54a36af76	Primary public IPv4 address: -	Primary private IPv4 address: -	Primary network interface ID: -
VPC: vpc-00f52c5dc72e276a / my-vpc	Subnet: subnet-08b4c86c131317765 / public-subnet-1	Created: Wednesday, March 6, 2024 at 22:06:08 GMT+5:30	Deleted: -

Secondary IPv4 addresses | Monitoring | Tags

Secondary IPv4 addresses

CloudShell Feedback

- Click on Public route table id then go to actions
- Click on edit routes
- Click on add route select Destination 0.0.0.0/0
- Select target group is Internet gateway and NAT gateway then click on save changes

The screenshot shows the AWS VPC Route Tables console. On the left, there's a navigation sidebar with options like VPC dashboard, 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, and a weather widget (31°C, Mostly clear). The main area has a header 'Route tables (1/4) Info' with a search bar and a 'Create route table' button. Below is a table with columns: Name, Route table ID, Explicit subnet associa..., Edge associations, Main, and VPC. There are four rows: one unselected row with a dash, and three selected rows: 'public-routetable' (selected with a checked checkbox), 'rtb-0234080d0befa3a5a' (selected with a checked checkbox), and 'private-routetable'. The 'public-routetable' row details show it has 2 subnets and is not the main route table. The 'rtb-0234080d0befa3a5a / public-routetable' details page is open, showing tabs for Details, Routes, Subnet associations, Edge associations, Route propagation, and Tags. Under 'Details', it shows Route table ID: rtb-0234080d0befa3a5a, Main: No, Explicit subnet associations: 2 subnets, and Edge associations: -. At the bottom, there's a footer with links to Privacy, Terms, Cookie preferences, and a date/time stamp (© 2024, Amazon Web Services, Inc. or its affiliates. 22:06 06-03-2024).

Name	Route table ID	Explicit subnet associa...	Edge associations	Main	VPC
-	rtb-07cb6587559c3e409	-	-	Yes	VPC
<input checked="" type="checkbox"/> public-routetable	rtb-0234080d0befa3a5a	2 subnets	-	No	VPC
-	rtb-067784de33cc06688	-	-	Yes	VPC
-	rtb-09a93b1ffa099abb0	2 subnets	-	No	VPC

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RouteTableDetails | VPC Console

https://ap-south-1.console.aws.amazon.com/vpcconsole/home?region=ap-south-1#RouteTableDetails:RouteTableId=rtb-0234080d0befa3a5a

VPC > Route tables > rtb-0234080d0befa3a5a / public-routetable

Actions ▾

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

Details Info

Route table ID rtb-0234080d0befa3a5a	Main No	Explicit subnet associations 2 subnets	Edge as
VPC vpc-00f52c5dc72e276a my-vpc	Owner ID 339712815762		

Routes Subnet associations Edge associations Route propagation Tags

Routes (1)

Destination	Target	Status	Propagated
100.0.0.0/16	local	Active	No

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EditRoutes | VPC Console

https://ap-south-1.console.aws.amazon.com/vpcconsole/home?region=ap-south-1#EditRoutes:RouteTableId=rtb-0234080d0befa3a5a

VPC > Route tables > rtb-0234080d0befa3a5a > Edit routes

Edit routes

Destination	Target	Status	Propagated
100.0.0.0/16	local	Active	No

Add route Cancel Preview Save changes

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The screenshot shows the 'Edit routes' page in the AWS VPC console. A table lists three routes:

Destination	Target	Status	Propagated
100.0.0.0/16	local	Active	No
0.0.0.0/0	Internet Gateway	-	No
0.0.0.0/24	NAT Gateway	-	No

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

The screenshot shows the 'RouteTableDetails' page for route table ID rtb-0234080d0befa3a5a. A green banner indicates 'Updated routes for rtb-0234080d0befa3a5a / public-routetable successfully'. The details section shows:

Route table ID	Main	Explicit subnet associations	Edge associations
rtb-0234080d0befa3a5a	No	2 subnets	-
VPC	Owner ID		
vpc-00f52c5dc72e276a my-vpc	339712815762		

The 'Routes' tab is selected, showing one route entry:

Destination	Target	Status	Propagated
0.0.0.0/24	nat-07d6d5ed54a36af76	Active	No

Buttons at the bottom include 'Actions', 'Edit routes', and navigation controls.

- Click on Private route table id then go to actions
- Click on edit routes
- Click on add route select Destination 0.0.0.0/0

- Select target group is NAT gateway then click on save changes

Screenshot of the AWS VPC Console showing the Route Tables page and the detailed view of a specific route table.

Route tables (1/4) Info

Name	Route table ID	Explicit subnet associations	Main	VPC
-	rtb-07cb6587559c3e409	-	-	Yes
public-routetable	rtb-0234080d0befa3a5a	2 subnets	-	No
-	rtb-067784de33cc06688	-	-	Yes
private-routetable	rtb-09a93b1ffa099abb0	2 subnets	-	No

rtb-09a93b1ffa099abb0 / private-routetable

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

Details

Route table ID rtb-09a93b1ffa099abb0	Main No	Explicit subnet associations 2 subnets	Edge associations -
---	------------	---	------------------------

Actions ▾

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

Routes (1)

Destination	Target	Status	Propagated
100.0.0.0/16	local	Active	No

The screenshot shows the 'Edit routes' page in the AWS VPC console. A route table ID 'rtb-09a93b1ffa099abb0' is selected. The table lists two routes:

Destination	Target	Status	Propagated
100.0.0.0/16	local	Active	No
0.0.0.0/0	NAT Gateway nat-07d6d5ed54a36af76	-	No

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

The screenshot shows the 'RouteTableDetails' page for the route table 'rtb-09a93b1ffa099abb0'. A success message indicates that routes were updated successfully.

rtb-09a93b1ffa099abb0 / private-routetable

Details **Info**

Route table ID rtb-09a93b1ffa099abb0	Main No	Explicit subnet associations 2 subnets	Edge associations -
VPC vpc-00f52c5dc72e276a my-vpc	Owner ID 339712815762		

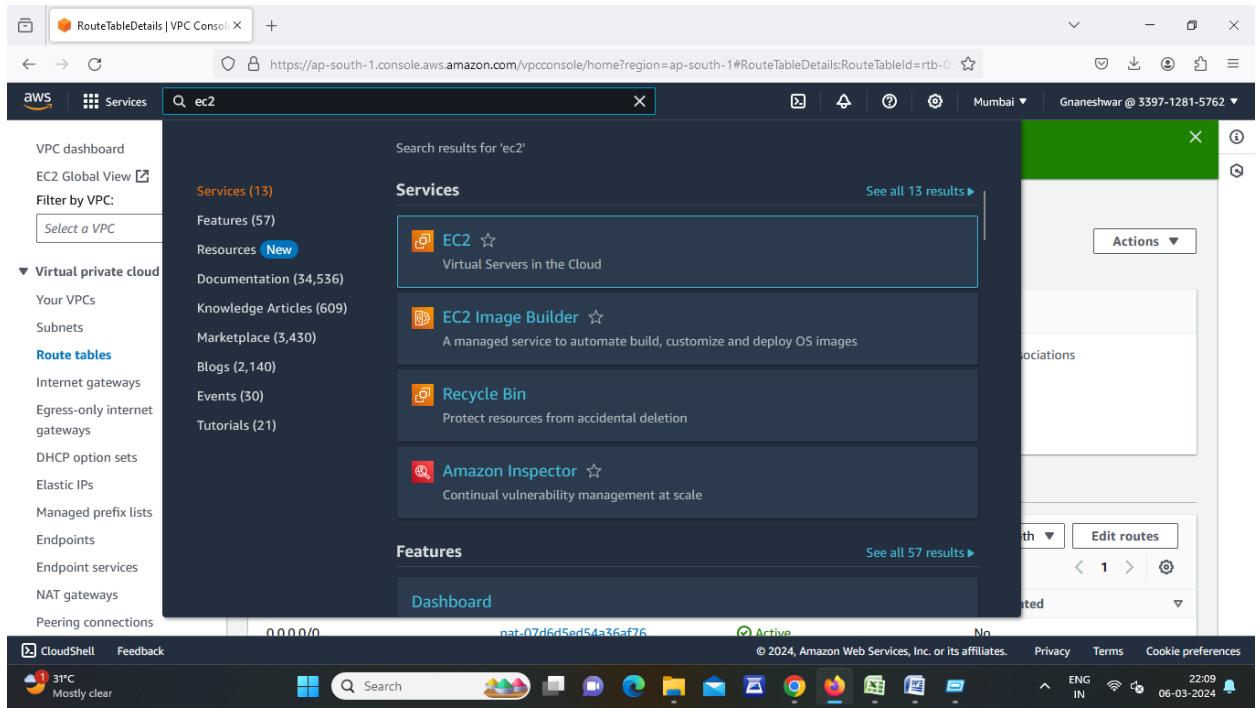
Routes **Subnet associations** **Edge associations** **Route propagation** **Tags**

Routes (2)

Destination	Target	Status	Propagated
0.0.0.0/0	nat-07d6d5ed54a36af76	Active	No

Buttons at the bottom include 'Both', 'Edit routes', and navigation arrows.

- Click on EC2 instance



- Click on Instances and click on launch instance
- Instance name then select AMI, instance type
- Click on create key pair then enter key name then click on create key pair
- Edit network settings select our VPC and select public subnet and enable auto assign ip
- Click on launch instance

RouteTableDetails | VPC Console X Home | EC2 | ap-south-1 X +

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

AWS Services Search [Alt+S] Mumbai Gnaneshwar @ 3397-1281-5762

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**
 - Volumes

Resources

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

Instances (running)	0	Auto Scaling Groups	0
Dedicated Hosts	0	Elastic IPs	2
Instances	0	Key pairs	1
Load balancers	0	Placement groups	0
Security groups	2	Snapshots	0
Volumes	0		

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

Service health

AWS Health Dashboard

EC2 Free Tier Info
Offers for all AWS Regions.

0 EC2 free tier offers in use

End of month forecast

User: arn:aws:iam::339712815762:user/Gnaneshwar is not authorized to perform: freetier:GetFreeTierUsage on resource: arn:aws:freetier:us-east-1:339712815762:/GetFreeTierUsage because no identity-based policy allows the freetier:GetFreeTierUsage action

Exceeds free tier

User: arn:aws:iam::339712815762:user/Gnaneshwar is not authorized to perform: freetier:GetFreeTierUsage on resource: arn:aws:freetier:us-east-1:339712815762:/GetFreeTierUsage because no identity-based policy allows the freetier:GetFreeTierUsage action

[View Global EC2 resources](#)

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

31°C Mostly clear

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RouteTableDetails | VPC Console X Instances | EC2 | ap-south-1 X +

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

AWS Services Search [Alt+S] Mumbai Gnaneshwar @ 3397-1281-5762

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**
 - Volumes

Instances Info

Find Instance by attribute or tag (case-sensitive)

Any state

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone
No instances You do not have any instances in this region						

Select an instance

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RouteTableDetails | VPC Console X Launch an instance | EC2 | ap-south-1 +

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

AWS Services Search [Alt+S] Mumbai Gnaneshwar @ 3397-1281-5762

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 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

Summary

Number of instances Info

Software Image (AMI)
Amazon Linux 2023 AMI 2023.3.2...read more
ami-0ba259e664698cbfc

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

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RouteTableDetails | VPC Console X Launch an instance | EC2 | ap-south-1 +

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

AWS Services Search [Alt+S] Mumbai Gnaneshwar @ 3397-1281-5762

Launch an instance Info

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: 0.0724 USD per Hour
On-Demand SUSE base pricing: 0.0124 USD per Hour

All generations Compare instance types

Additional costs apply for AMIs with pre-installed software

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 Create new key pair

Network settings Info

Network Info Edit
vpc-05c6e37ded27aa6ea

Summary

Number of instances Info

Software Image (AMI)
Amazon Linux 2023 AMI 2023.3.2...read more
ami-0ba259e664698cbfc

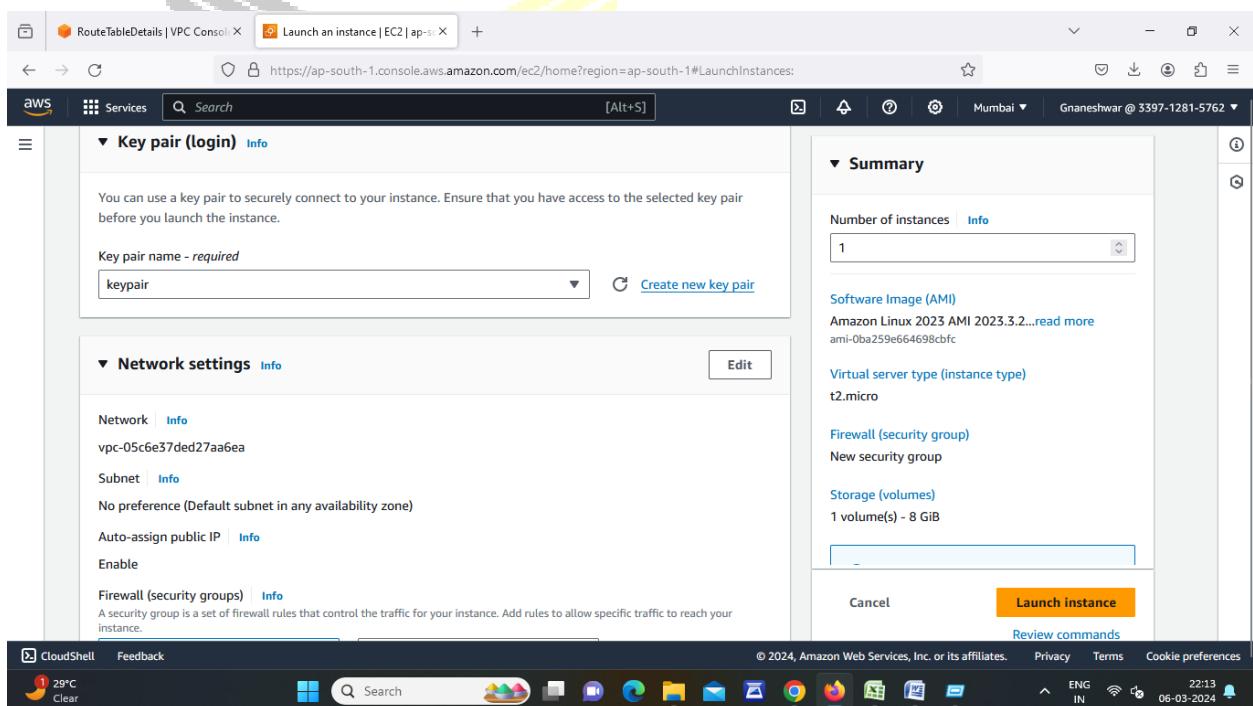
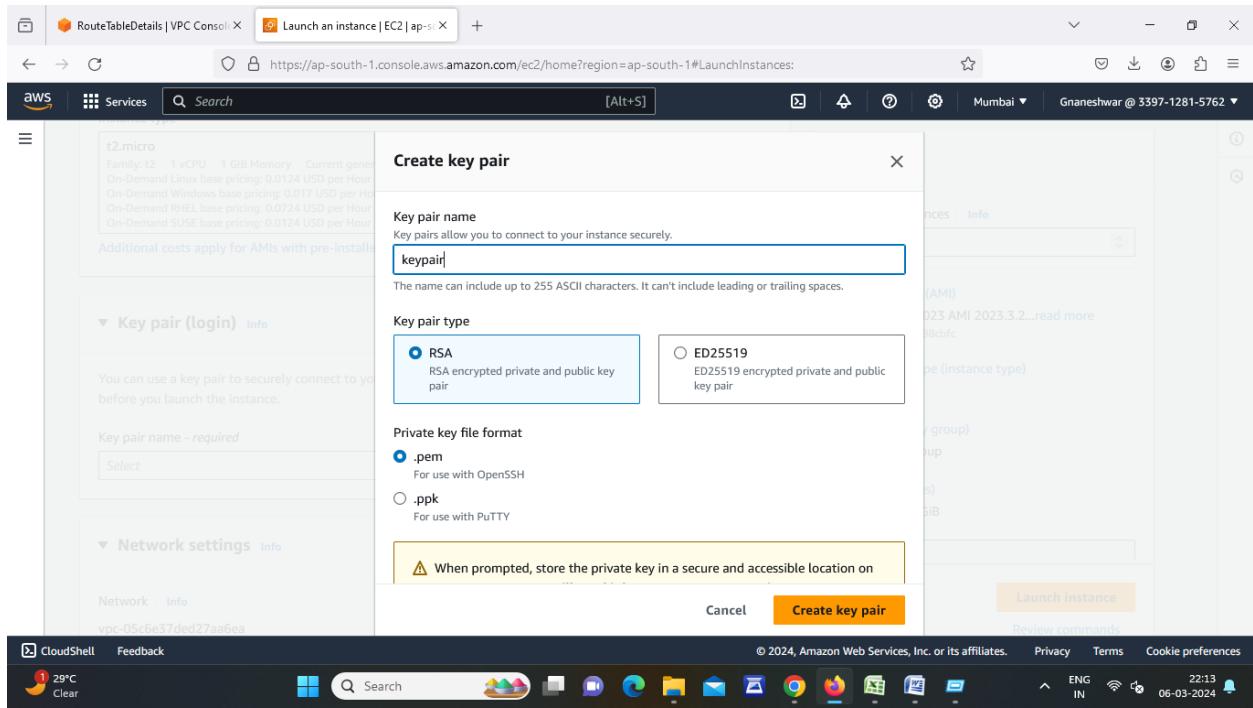
Virtual server type (instance type)
t2.micro

Firewall (security group)
New security group

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

Cancel **Launch instance** Review commands

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RouteTableDetails | VPC Console X Launch an instance | EC2 | ap-south-1 +

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

aws Services Search [Alt+S] Mumbai Gnaneshwar @ 3397-1281-5762

Network settings

VPC - required Info
vpc-00f52c5dc72e276a (my-vpc)
100.0.0.0/16

Subnet Info
subnet-08b4c86c1317765 public-subnet-1
VPC: vpc-00f52c5dc72e276a Owner: 339712815762 Availability Zone: ap-south-1a IP addresses available: 250 CIDR: 100.0.1.0/24

Create new subnet

Auto-assign public IP Info
Disable

Firewall (security groups) Info
A security group is a set of firewall rules that control the traffic for your instance. Add rules to allow specific traffic to reach your instance.

Create security group Select existing security group

Security group name - required
launch-wizard-1

This security group will be added to all network interfaces. The name can't be edited after the security group is created. Max length is 255 characters.

Summary

Number of instances Info
1

Software Image (AMI)
Amazon Linux 2023 AMI 2023.3.2...read more
ami-0ba259e664698cbfc

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

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RouteTableDetails | VPC Console X Launch an instance | EC2 | ap-south-1 +

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

aws Services Search [Alt+S] Mumbai Gnaneshwar @ 3397-1281-5762

Configure storage

Advanced

1x 8 GiB gp3 Root volume (Not encrypted)

Free tier eligible customers can get up to 30 GB of EBS General Purpose (SSD) or Magnetic storage X

Add new volume

Click refresh to view backup information C
The tags that you assign determine whether the instance will be backed up by any Data Lifecycle Manager policies.

0 x File systems Edit

Advanced details Info

Summary

Number of instances Info
1

Software Image (AMI)
Amazon Linux 2023 AMI 2023.3.2...read more
ami-0ba259e664698cbfc

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

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RouteTableDetails | VPC Console Launch an instance | EC2 | ap-south-1

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

aws Services Search [Alt+S] Mumbai Gnaneshwar @ 3397-1281-5762

EC2 Instances Launch an instance

Success Successfully initiated launch of instance (i-0e59ffe7c0c45b1d0)

▶ 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

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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RouteTableDetails | VPC Console Instances | EC2 | ap-south-1

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

aws Services Search [Alt+S] Mumbai Gnaneshwar @ 3397-1281-5762

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 Volumes

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Instances (1) Info Connect Instance state Actions Launch instances

Find Instance by attribute or tag (case-sensitive)

Any state

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone
ec2-1	i-0e59ffe7c0c45b1d0	Pending	t2.micro	-	View alarms	ap-south-1

Select an instance

The screenshot shows the AWS EC2 Instances page. The left sidebar is collapsed, and the main area displays a table of instances. One instance is listed:

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone
ec2-1	i-0e59ffe7c0c45b1d0	Running	t2.micro	-	View alarms +	ap-south-1a

Below the table, a modal window titled "Select an instance" is open, showing the same instance details.

- Click on Check box Created EC2 instance go to actions then image and templates and create image.
- Enter name then click on create image.

RouteTableDetails | VPC Console Instances | EC2 | ap-south-1

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

AWS Services Search [Alt+S] Mumbai Gnaneshwar @ 3397-1281-5762

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 Volumes

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Instances (1/1) Info

Find Instance by attribute or tag (case-sensitive)

Any state

Name	Instance ID	Instance state	Instance type	Status check
ec2-1	i-0e59ffe7c0c45b1d0	Running	t2.micro	-

Create image Create template from instance Launch more like this

Instance: i-0e59ffe7c0c45b1d0 (ec2-1)

Details Status and alarms New Monitoring Security Networking Storage Tags

Instance summary Info

Instance ID	Public IPv4 address	Private IPv4 addresses
i-0e59ffe7c0c45b1d0 (ec2-1)	-	100.0.1.163

IPv6 address Instance state Public IPv4 DNS

Private IPv4 address (Primary)

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Actions ▲ Launch instances Connect View details Manage instance state Instance settings Networking Security Image and templates Monitor and troubleshoot

ability Zone ap-south-1a

RouteTableDetails | VPC Console Create Image | EC2 | ap-south-1

https://ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#CreateImage:instanceId=i-0e59ffe7c0c45b1d0

AWS Services Search [Alt+S] Mumbai Gnaneshwar @ 3397-1281-5762

An image (also referred to as an AMI) defines the programs and settings that are applied when you launch an EC2 instance. You can create an image from the configuration of an existing instance.

Instance ID i-0e59ffe7c0c45b1d0 (ec2-1)

Image name myimage Maximum 127 characters. Can't be modified after creation.

Image description - optional Image description Maximum 255 characters

No reboot Enable

Instance volumes

Storage type	Device	Snapshot	Size	Volume type	IOPS	Throughput	Delete on termination	Encrypted
EBS	/dev/...	Create new snapshot fr...	8	EBS General Purpose S...	3000	-	<input checked="" type="checkbox"/> Enable	<input type="checkbox"/> Enable

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The screenshot shows the 'Create Image' wizard in the AWS EC2 console. The current step is 'Configure volumes'. A single volume is selected, labeled '/dev/xvda'. The volume type is set to 'EBS General Purpose S...'. The size is 8 GiB, IOPS is 3000, and Throughput is 1000. The 'Delete on termination' and 'Encrypted' checkboxes are checked. Below the volume configuration, there is a note: 'During the image creation process, Amazon EC2 creates a snapshot of each of the above volumes.' There are two options for tagging: 'Tag image and snapshots together' (selected) and 'Tag image and snapshots separately'. Both options allow tagging with the same or different tags. The 'Add new tag' button is visible, with a note that up to 50 more tags can be added. At the bottom right are 'Cancel' and 'Create image' buttons.

- Go to Auto scaling group
- Click on create auto scaling group

The screenshot shows the 'Auto Scaling groups' page in the AWS EC2 console. The left sidebar has sections for 'Elastic Block Store', 'Network & Security', 'Load Balancing', and 'Auto Scaling' (with 'Auto Scaling Groups' selected). The main content area features a large yellow 'Amazon EC2 Auto Scaling' logo with the tagline 'helps maintain the availability of your applications'. It explains that Auto Scaling groups are collections of EC2 instances for automatic scaling and fleet management. A 'Create Auto Scaling group' button is prominently displayed. Below it, there are sections for 'How it works' (with a placeholder image), 'Pricing' (with a placeholder image), and a note about features having no additional cost. The bottom navigation bar includes 'CloudShell', 'Feedback', and standard browser controls.

- Click on launch template
- Enter launch template name then select our created AMI, instance type, key pair and select security group then click launch template.

Auto Scaling group name
Enter a name to identify the group.
Autoscale
Must be unique to this account in the current Region and no more than 255 characters.

Launch template Info

For accounts created after May 31, 2023, the EC2 console only supports creating Auto Scaling groups with launch templates. Creating Auto Scaling groups with launch configurations is not recommended but still available via the CLI and API until December 31, 2023.

Launch template
Choose a launch template that contains the instance-level settings, such as the Amazon Machine Image (AMI), instance type, key pair, and security groups.

Select a launch template

Cancel **Next**

Creating a launch template allows you to create a saved instance configuration that can be reused, shared and launched at a later time. Templates can have multiple versions.

Launch template name and description

Launch template name - required
my-temp
Must be unique to this account. Max 128 chars. No spaces or special characters like '&', '*', '@'.

Template version description
A prod webserver for MyApp
Max 255 chars

Auto Scaling guidance [Info](#)
Select this if you intend to use this template with EC2 Auto Scaling
 Provide guidance to help me set up a template that I can use with EC2 Auto Scaling

Summary

Software Image (AMI)
-

Virtual server type (instance type)
-

Firewall (security group)
-

Storage (volumes)
-

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

Cancel **Create launch template**

RouteTableDetails | VPC Console | Create Auto Scaling group | EC2 | Create launch template | EC2 | +

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

Mumbai | Gnaneshwar @ 3397-1281-5762

Application and OS Images (Amazon Machine Image) - required

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

Recents | My AMIs | Quick Start

Currently in use

Browse more AMIs

Including AMIs from AWS, Marketplace and the Community

Summary

Software Image (AMI)

-

Virtual server type (instance type)

-

Firewall (security group)

-

Storage (volumes)

-

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

Create launch template

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RouteTableDetails | VPC Console | Create Auto Scaling group | EC2 | Create launch template | EC2 | +

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

Mumbai | Gnaneshwar @ 3397-1281-5762

Services | Search [Alt+S]

Application and OS Images (Amazon Machine Image) - required

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

Recents | My AMIs | Quick Start

Currently in use

Browse more AMIs

Including AMIs from AWS, Marketplace and the Community

Summary

Software Image (AMI)

myimage
ami-08f288f70530bc6f5

Virtual server type (instance type)

-

Firewall (security group)

-

Storage (volumes)

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

Create launch template

RouteTableDetails | VPC Console | Create Auto Scaling group | EC2 | Create launch template | EC2 | + https://ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#CreateTemplate:autoScalingGuidance=true Mumbai Gnaneshwar @ 3397-1281-5762

Architecture x86_64 AMI ID ami-08f288f70530bc6f5

Instance type t2.micro

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: 0.0724 USD per Hour
On-Demand SUSE base pricing: 0.0124 USD per Hour

Additional costs apply for AMIs with pre-installed software

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.

Software Image (AMI) myimage ami-08f288f70530bc6f5

Virtual server type (instance type) t2.micro

Firewall (security group)

Storage (volumes) 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

Create launch template

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RouteTableDetails | VPC Console | Create Auto Scaling group | EC2 | Create launch template | EC2 | + https://ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#CreateTemplate:autoScalingGuidance=true Mumbai Gnaneshwar @ 3397-1281-5762

Services Search [Alt+S]

Compare instance types

Additional costs apply for AMIs with pre-installed software

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 keypair

Create new key pair

Network settings Info

Subnet Info

Don't include in launch template

Create new subnet

When you specify a subnet, a network interface is automatically added to your template.

Firewall (security groups) Info

A security group is a set of firewall rules that control the traffic for your instances. Add rules to allow specific traffic to each instance.

Software Image (AMI) myimage ami-08f288f70530bc6f5

Virtual server type (instance type) t2.micro

Firewall (security group)

Storage (volumes) 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

Create launch template

RouteTableDetails | VPC Console | Create Auto Scaling group | EC2 | Create launch template | EC2 | +

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

Mumbai | Gnaneshwar @ 3397-1281-5762

Subnet | Info

Don't include in launch template

When you specify a subnet, a network interface is automatically added to your template.

Firewall (security groups) | Info

A security group is a set of firewall rules that control the traffic for your instance. Add rules to allow specific traffic to reach your instance.

Select existing security group | Create security group

Security groups Info

Select security groups

Compare security group rules

Advanced network configuration

Storage (volumes) | Info

EBS Volumes

Hide details

Cancel | Create launch template

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RouteTableDetails | VPC Console | Create Auto Scaling group | EC2 | Create launch template | EC2 | +

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

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Volume 1 (AMI Root) (8 GiB, EBS, General purpose SSD (gp3))

AMI Volumes are not included in the template unless modified

Free tier eligible customers can get up to 30 GB of EBS General Purpose (SSD) or Magnetic storage

Add new volume

Resource tags | Info

No resource tags are currently included in this template. Add a resource tag to include it in the launch template.

Add new tag

You can add up to 50 more tags.

Advanced details | Info

Software Image (AMI)

myimage
ami-08f288f70530bc6f5

Virtual server type (instance type)

t2.micro

Firewall (security group)

launch-wizard-1

Storage (volumes)

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

Cancel | Create launch template

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The screenshot shows a browser window with three tabs open: 'RouteTableDetails | VPC Console', 'Create Auto Scaling group | EC2', and 'Create launch template | EC2'. The current page is 'Create launch template | EC2'. The URL is https://ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#CreateTemplate:autoScalingGuidance=true. The page displays a green success message: 'Successfully created my-temp(lt-02e1fbf5bf0a24b6)'. Below the message, there's a link to 'Actions log'. A 'Next Steps' section follows, with links to 'Launch an instance', 'Create an Auto Scaling group from your template', and 'Create Auto Scaling group'. At the bottom of the page is a standard AWS navigation bar with links for CloudShell, Feedback, Search, and various AWS services like Lambda, S3, and CloudWatch.

- Go auto scaling group and enter name
- Select our launch template then click on next
- Select our VPC and select public available zones then click on next
- Set time 60 sec then click on next

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RouteTableDetails | VPC Console X Create Auto Scaling group | EC2 X +

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

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aws Services Search [Alt+S]

Step 3 - optional Configure advanced options

Step 4 - optional Configure group size and scaling

Step 5 - optional Add notifications

Step 6 - optional Add tags

Step 7 Review

Auto Scaling group name
Enter a name to identify the group.

Must be unique to this account in the current Region and no more than 255 characters.

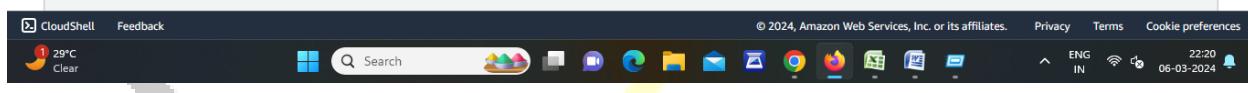
Launch template Info

For accounts created after May 31, 2023, the EC2 console only supports creating Auto Scaling groups with launch templates. Creating Auto Scaling groups with launch configurations is not recommended but still available via the CLI and API until December 31, 2023.

Launch template
Choose a launch template that contains the instance-level settings, such as the Amazon Machine Image (AMI), instance type, key pair, and security groups.

Select a launch template
Search launch templates
my-temp

Cancel Next



RouteTableDetails | VPC Console X Create Auto Scaling group | EC2 X +

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

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aws Services Search [Alt+S]

Create a launch template

Version
Default (1) C

Create a launch template version

Description	Launch template	Instance type
-	my-temp	t2.micro
AMI ID	lt-02e1fbf5b8f0a24b6	Request Spot Instances
AMI ID	ami-08f288f70530bc6f5	No
Key pair name	Security groups	Security group IDs
keypair	-	sg-070bc1db7f8e1fa4b
Additional details		
Storage (volumes)	Date created	
-	Wed Mar 06 2024 22:19:34	GMT+0530 (India Standard Time)

Cancel Next



RouteTableDetails | VPC Console Create Auto Scaling group | EC2

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

aws Services Search [Alt+S]

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Step 5 - optional
[Add notifications](#)

Instance type
t2.micro

Step 6 - optional
[Add tags](#)

Step 7
[Review](#)

Network Info

For most applications, you can use multiple Availability Zones and let EC2 Auto Scaling balance your instances across the zones. The default VPC and default subnets are suitable for getting started quickly.

VPC
Choose the VPC that defines the virtual network for your Auto Scaling group.
vpc-00f52c5dcb72e276a (my-vpc)
100.0.0.0/16 Cancel Next

Availability Zones and subnets
Define which Availability Zones and subnets your Auto Scaling group can use in the chosen VPC.
Select Availability Zones and subnets Cancel Next

[Create a subnet](#)

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29°C Clear ENG IN 22:20 06-03-2024

RouteTableDetails | VPC Console Create Auto Scaling group | EC2

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

aws Services Search [Alt+S]

Mumbai Gnaneshwar @ 3397-1281-5762

Step 7
[Review](#)

For most applications, you can use multiple Availability Zones and let EC2 Auto Scaling balance your instances across the zones. The default VPC and default subnets are suitable for getting started quickly.

VPC
Choose the VPC that defines the virtual network for your Auto Scaling group.
vpc-00f52c5dcb72e276a (my-vpc)
100.0.0.0/16 Cancel Next

Availability Zones and subnets
Define which Availability Zones and subnets your Auto Scaling group can use in the chosen VPC.
Select Availability Zones and subnets Cancel Next

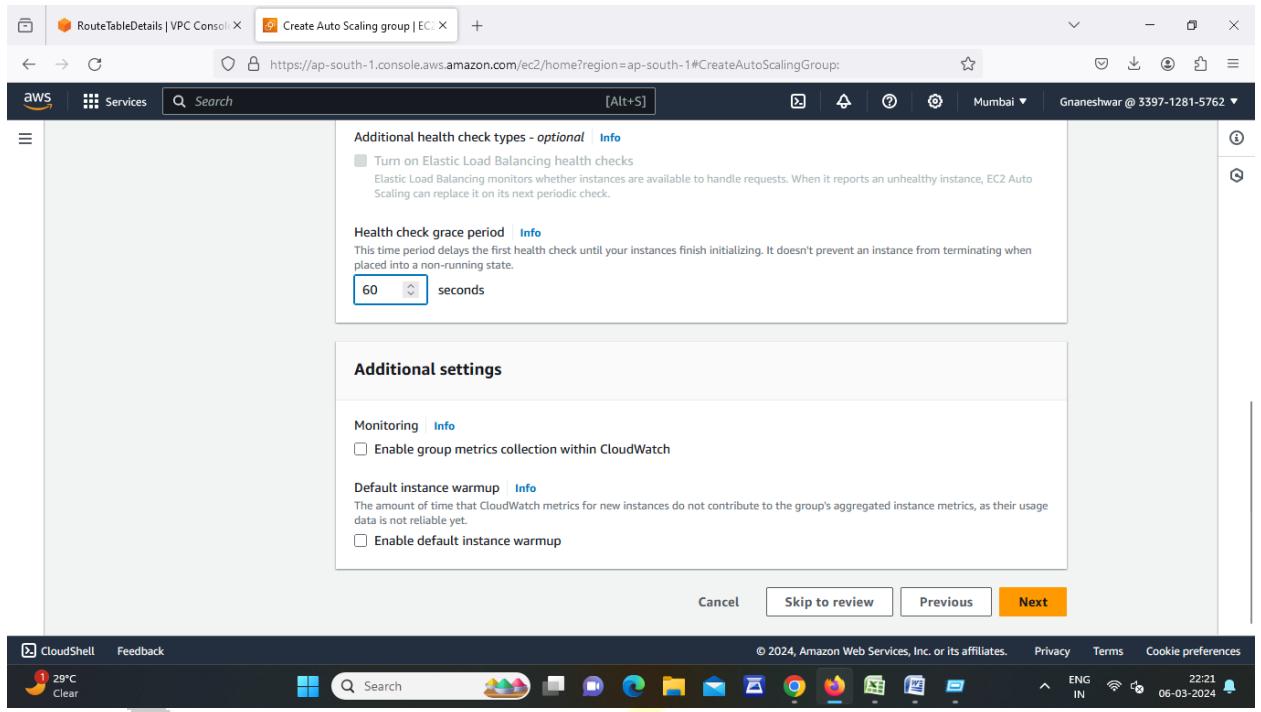
ap-south-1a | subnet-08b4c86c131317765 (public-
subnet-1)
100.0.1.0/24

ap-south-1b | subnet-046ad2c4f1c268d05 (public-
subnet-2)
100.0.2.0/24

[Create a subnet](#)

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- Enter Desired Capacity then enter min and max desired capacity then click on next

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The screenshot shows the AWS EC2 Auto Scaling group creation wizard at Step 5: Configure group size and scaling. The user has specified a Desired capacity of 2 and a Min desired capacity of 2. Under Automatic scaling - optional, the 'No scaling policies' option is selected. The interface includes tabs for Step 5 - optional (Add notifications), Step 6 - optional (Add tags), and Step 7 (Review). The status bar at the bottom indicates the user is in Mumbai.

The screenshot shows the AWS EC2 Auto Scaling group creation wizard at Step 6: Choose replacement behavior. It lists four options: Mixed behavior (selected), Prioritize availability, Control costs, and Flexible. The 'Prioritize availability' section describes launching new instances before terminating others. The 'Control costs' section describes terminating and launching instances simultaneously. The 'Flexible' section describes setting custom values for minimum and maximum capacity. Below this, there is an 'Instance scale-in protection' section with a checkbox for 'Enable instance scale-in protection'. The status bar at the bottom indicates the user is in Mumbai.

- Click on Add notification and create topic
- Enter topic name and enter email id then next

- Click on create auto scaling group.

The screenshots show the 'Add notifications - optional' step of the AWS Create Auto Scaling Group wizard. The first screenshot shows the overall step navigation on the left. The second and third screenshots show the configuration details for 'Notification 1'. In the second screenshot, the recipient is set to 'autoscale' and the email 'gnaneshwarvicky@gmail.com' is entered. In the third screenshot, the event types 'Launch', 'Terminate', 'Fail to launch', and 'Fail to terminate' are selected. Navigation buttons 'Skip to review', 'Previous', and 'Next' are visible at the bottom of each screen.

Add notifications - optional

Send notifications to SNS topics whenever Amazon EC2 Auto Scaling launches or terminates the EC2 instances in your Auto Scaling group.

Notification 1

Send a notification to: autoscale

With these recipients: gnaneshwarvicky@gmail.com

Event types:

- Launch
- Terminate
- Fail to launch
- Fail to terminate

Add notification

Cancel Skip to review Previous Next

RouteTableDetails | VPC Console Create Auto Scaling group | EC2

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

AWS Services Search [Alt+S]

Mumbai Gnaneshwar @ 3397-1281-5762

Step 1 Choose launch template

Step 2 Choose instance launch options

Step 3 - optional Configure advanced options

Step 4 - optional Configure group size and scaling

Step 5 - optional Add notifications

Step 6 - optional Add tags

Step 7 Review

Add tags - optional Info

Add tags to help you search, filter, and track your Auto Scaling group across AWS. You can also choose to automatically add these tags to instances when they are launched.

ⓘ You can optionally choose to add tags to instances (and their attached EBS volumes) by specifying tags in your launch template. We recommend caution, however, because the tag values for instances from your launch template will be overridden if there are any duplicate keys specified for the Auto Scaling group.

Tags (0)

Add tag 50 remaining

Cancel Previous Next

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RouteTableDetails | VPC Console Create Auto Scaling group | EC2

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

AWS Services Search [Alt+S]

Mumbai Gnaneshwar @ 3397-1281-5762

Step 5: Add notifications

Notifications

Notification 1
SNS Topic
autoscale (gnaneshwarky@gmail.com)

Event types

Launch
 Terminate
 Fail to launch
 Fail to terminate

Step 6: Add tags

Tags (0)

Key	Value	Tag new instances
No tags		

Cancel Previous **Create Auto Scaling group**

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The screenshot shows the AWS EC2 Auto Scaling groups page. At the top, there are tabs for 'RouteTableDetails | VPC Console' and 'Auto Scaling groups | EC2'. The URL is https://ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#AutoScalingGroups:. The page title is 'Auto Scaling groups (1) Info'. There is a search bar with placeholder text 'Search your Auto Scaling groups'. Below the search bar is a table with a single row for 'Autoscale'. The table columns include Name, Launch template/configuration, Instances, Status, Desired capacity, Min, and Max. The 'Autoscale' row shows 'my-temp | Version Default', 0 instances, 'Updating capacity', 2 desired capacity, 2 min, and 5 max.

This screenshot shows the AWS CloudShell interface. It features the AWS logo and the text 'CloudShell Feedback'. Below the logo is a weather widget showing '29°C Clear'. The interface includes a search bar and a toolbar with various icons for different AWS services like Lambda, S3, and CloudWatch. The status bar at the bottom right shows '© 2024, Amazon Web Services, Inc. or its affiliates.', 'Privacy', 'Terms', and 'Cookie preferences', along with language and date/time settings ('ENG IN 22:24 06-03-2024').

This screenshot is identical to the one above it, showing the AWS EC2 Auto Scaling groups page with one group named 'Autoscale' listed in the table.

This screenshot shows the AWS CloudShell interface, which is visually identical to the one in the middle section, featuring the AWS logo, weather information, and a toolbar with service icons.

- Click on create auto scaling group
- Go auto scaling group and enter name
- Select our launch template then click on next
- Select our VPC and select public available zones then click on next
- Set time 60 sec then click on next

The screenshot shows the AWS EC2 Auto Scaling groups page. The left sidebar has sections for EC2 Dashboard, EC2 Global View, Events, Instances (selected), Images, Elastic Block Store, CloudShell, and Feedback. The main content area shows the 'Auto Scaling groups (1) Info' section with a table. The table has columns for Name, Launch template/configuration, Instances, Status, and Desired capacity. One row is visible for 'Autoscale' with 'my-temp | Version Default' under Launch template/configuration, '2' under Instances, '-' under Status, and '2' under Desired capacity. A search bar at the top says 'Search your Auto Scaling groups'. The bottom of the page shows '0 Auto Scaling groups selected'.

Name	Launch template/configuration	Instances	Status	Desired capacity
Autoscale	my-temp Version Default	2	-	2

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RouteTableDetails | VPC Console Instances | EC2 | ap-south-1

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

AWS Services Search [Alt+S] Mumbai Gnaneshwar @ 3397-1281-5762

Elastic Block Store
Volumes
Snapshots
Lifecycle Manager

Network & Security
Security Groups
Elastic IPs
Placement Groups
Key Pairs
Network Interfaces

Load Balancing
Load Balancers
Target Groups
Trust Stores New

Auto Scaling
Auto Scaling Groups

Currently creating AMI ami-08f288f70530bc6f5 from instance i-0e59ffe7c0c45b1d0. Check that the AMI status is 'Available' before deleting the instance or carrying out other actions related to this AMI.

Instances (3) Info Connect Instance state Actions Launch instances

Find Instance by attribute or tag (case-sensitive)

Any state

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Z
ec2-1	i-0e59ffe7c0c45b1d0	Running	t2.micro	2/2 checks passed	View alarms +	ap-south-1a
	i-048111d30f3abd7ea	Running	t2.micro	Initializing	View alarms +	ap-south-1a
	i-0005aee7a67c0601f	Running	t2.micro	Initializing	View alarms +	ap-south-1b

Select an instance

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RouteTableDetails | VPC Console Auto Scaling groups | EC2 | ap-south-1

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

AWS Services Search [Alt+S] Mumbai Gnaneshwar @ 3397-1281-5762

Elastic Block Store
Volumes
Snapshots
Lifecycle Manager

Network & Security
Security Groups
Elastic IPs
Placement Groups
Key Pairs
Network Interfaces

Load Balancing
Load Balancers
Target Groups
Trust Stores New

Auto Scaling
Auto Scaling Groups

EC2 > Auto Scaling groups

Auto Scaling groups (1) Info

Launch configurations Launch templates Actions Create Auto Scaling group

Search your Auto Scaling groups

Name	Launch template/configuration	Instances	Status	Desired capacity
Autoscale	my-temp Version Default	2	-	2

0 Auto Scaling groups selected

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RouteTableDetails | VPC Console X Create Auto Scaling group | EC2 X +

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

aws Services Search [Alt+S] Mumbai Gnaneshwar @ 3397-1281-5762

EC2 > Auto Scaling groups > Create Auto Scaling group

Step 1 Choose launch template

Step 2 Choose instance launch options

Step 3 - optional Configure advanced options

Step 4 - optional Configure group size and scaling

Step 5 - optional Add notifications

Step 6 - optional Add tags

Step 7 Review

Choose launch template Info

Specify a launch template that contains settings common to all EC2 instances that are launched by this Auto Scaling group.

Name

Auto Scaling group name
Enter a name to identify the group.
 Must be unique to this account in the current Region and no more than 255 characters.

Launch template Info

ⓘ For accounts created after May 31, 2023, the EC2 console only supports creating Auto Scaling groups with launch templates. Creating Auto Scaling groups with launch configurations is not recommended but still available via the CLI and API until December 31, 2023.

Launch template

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CloudShell Feedback 29°C Clear Search

RouteTableDetails | VPC Console X Create Auto Scaling group | EC2 X +

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

aws Services Search [Alt+S] Mumbai Gnaneshwar @ 3397-1281-5762

Step 3 - optional Configure advanced options

Step 4 - optional Configure group size and scaling

Step 5 - optional Add notifications

Step 6 - optional Add tags

Step 7 Review

Auto Scaling group name

Enter a name to identify the group.
 Must be unique to this account in the current Region and no more than 255 characters.

Launch template Info

ⓘ For accounts created after May 31, 2023, the EC2 console only supports creating Auto Scaling groups with launch templates. Creating Auto Scaling groups with launch configurations is not recommended but still available via the CLI and API until December 31, 2023.

Launch template
Choose a launch template that contains the instance-level settings, such as the Amazon Machine Image (AMI), instance type, key pair, and security groups.

Select a launch template
 Q. Search launch templates

Cancel Next

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CloudShell Feedback 29°C Clear Search

RouteTableDetails | VPC Console Create Auto Scaling group | EC2

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

AWS Services Search [Alt+S]

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Version

Default (1) C

Create a launch template version

Description - Launch template my-temp Lt-02e1fbf5b8f0a24b6

AMI ID ami-08f288f70530bc6f5 Security groups - Request Spot Instances No

Key pair name keypair Security group IDs sg-070bc1db7f8e1fa4b C

Additional details

Storage (volumes) - Date created Wed Mar 06 2024 22:19:34 GMT+0530 (India Standard Time)

Cancel Next

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Search

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RouteTableDetails | VPC Console Create Auto Scaling group | EC2

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

AWS Services Search [Alt+S]

Mumbai Gnaneshwar @ 3397-1281-5762

Step 7 Review

For most applications, you can use multiple Availability Zones and let EC2 Auto Scaling balance your instances across the zones. The default VPC and default subnets are suitable for getting started quickly.

VPC

Choose the VPC that defines the virtual network for your Auto Scaling group.

vpc-00f52c5dcb72e276a (my-vpc) C

Create a VPC

Availability Zones and subnets

Define which Availability Zones and subnets your Auto Scaling group can use in the chosen VPC.

Select Availability Zones and subnets C

ap-south-1a | subnet-0b150443d9679a474 X
(private-subnet-1)
100.0.0.0/24

ap-south-1b | subnet-0eda13542ed1d90a5 X
(private-subnet-2)
100.0.5.0/24

Create a subnet

Cancel Skip to review Previous Next

CloudShell Feedback

29°C Clear

Search

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ENG IN 22:26 06-03-2024

RouteTableDetails | VPC Console X Create Auto Scaling group | EC2 X +

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

aws Services Search [Alt+S] Mumbai Gnaneshwar @ 3397-1281-5762

EC2 > Auto Scaling groups > Create Auto Scaling group

Step 1 Choose launch template

Step 2 Choose instance launch options

Step 3 - optional Configure advanced options

Step 4 - optional Configure group size and scaling

Step 5 - optional Add notifications

Step 6 - optional Add tags

Step 7 Review

Configure advanced options - optional Info

Choose a load balancer to distribute incoming traffic for your application across instances to make it more reliable and easily scalable. You can also set options that give you more control over health check replacements and monitoring.

Load balancing Info

Use the options below to attach your Auto Scaling group to an existing load balancer, or to a new load balancer that you define.

No load balancer
Traffic to your Auto Scaling group will not be fronted by a load balancer.

Attach to an existing load balancer
Choose from your existing load balancers.

Attach to a new load balancer
Quickly create a basic load balancer to attach to your Auto Scaling group.

Health checks

Health checks increase availability by replacing unhealthy instances. When you use multiple health checks, all are evaluated, and if at least one fails, instance replacement occurs.

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RouteTableDetails | VPC Console X Create Auto Scaling group | EC2 X +

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

aws Services Search [Alt+S] Mumbai Gnaneshwar @ 3397-1281-5762

Additional health check types - optional Info

Turn on Elastic Load Balancing health checks
Elastic Load Balancing monitors whether instances are available to handle requests. When it reports an unhealthy instance, EC2 Auto Scaling can replace it on its next periodic check.

Health check grace period Info

This time period delays the first health check until your instances finish initializing. It doesn't prevent an instance from terminating when placed into a non-running state.

6d seconds

Additional settings

Monitoring Info

Enable group metrics collection within CloudWatch

Default instance warmup Info

The amount of time that CloudWatch metrics for new instances do not contribute to the group's aggregated instance metrics, as their usage data is not reliable yet.

Enable default instance warmup

Cancel Skip to review Previous Next

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- Enter Desired Capacity then enter min and max desired capacity then click on next

RouteTableDetails | VPC Console X Create Auto Scaling group | EC X + https://ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#CreateAutoScalingGroup: Mumbai Gnaneshwar @ 3397-1281-5762 [Alt+S] Services Search [Alt+S]

Step 3 - optional
[Configure advanced options](#)

Step 4 - optional
Configure group size and scaling

Step 5 - optional
[Add notifications](#)

Step 6 - optional
[Add tags](#)

Step 7
[Review](#)

Scaling Info
You can resize your Auto Scaling group manually or automatically to meet changes in demand.

Scaling limits
Set limits on how much your desired capacity can be increased or decreased.

Min desired capacity	Max desired capacity
2	5
Equal or less than desired capacity	Equal or greater than desired capacity

Automatic scaling - optional

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RouteTableDetails | VPC Console X Create Auto Scaling group | EC X + https://ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#CreateAutoScalingGroup: Mumbai Gnaneshwar @ 3397-1281-5762 [Alt+S] Services Search [Alt+S]

Choose a replacement behavior depending on your availability requirements

- Mixed behavior** (Selected)

No policy
For rebalancing events, new instances will launch before terminating others. For all other events, instances terminate and launch at the same time.
- Prioritize availability**

Launch before terminating
Launch new instances and wait for them to be ready before terminating others. This allows you to go above your desired capacity by a given percentage and may temporarily increase costs.
- Control costs**

Terminate and launch
Terminate and launch instances at the same time. This allows you to go below your desired capacity by a given percentage and may temporarily reduce availability.
- Flexible**

Custom behavior
Set custom values for the minimum and maximum amount of available capacity. This gives you greater flexibility in setting how far below and over your desired capacity EC2 Auto Scaling goes when replacing instances.

Instance scale-in protection
Scale-in protection prevents newly launched instances from being terminated by scaling activities. Make sure to remove scale-in protection for the group or individual instances when instances are ready to be terminated.

Enable instance scale-in protection

Cancel Skip to review Previous Next

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- Click on Add notification and create topic
- Enter topic name and enter email id then next
- Click on create auto scaling group.

RouteTableDetails | VPC Console X Create Auto Scaling group | EC X +

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

Mumbai Gnaneshwar @ 3397-1281-5762

Step 1 Choose launch template

Step 2 Choose instance launch options

Step 3 - optional Configure advanced options

Step 4 - optional Configure group size and scaling

Step 5 - optional Add notifications

Step 6 - optional Add tags

Step 7 Review

Add notifications - optional Info

Send notifications to SNS topics whenever Amazon EC2 Auto Scaling launches or terminates the EC2 instances in your Auto Scaling group.

Add notification

Cancel Skip to review Previous Next

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RouteTableDetails | VPC Console X Create Auto Scaling group | EC X +

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

Mumbai Gnaneshwar @ 3397-1281-5762

Step 2 Choose instance launch options

Step 3 - optional Configure advanced options

Step 4 - optional Configure group size and scaling

Step 5 - optional Add notifications

Step 6 - optional Add tags

Step 7 Review

▼ Notification 1 Remove

SNS Topic Choose an SNS topic to use to send notifications

Create a topic

Event types Notify subscribers whenever instances

Launch
 Terminate
 Fail to launch
 Fail to terminate

Add notification

Cancel Skip to review Previous Next

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RouteTableDetails | VPC Console X Create Auto Scaling group | EC2 X +

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

AWS Services Search [Alt+S] Mumbai Gnaneshwar @ 3397-1281-5762

Choose instance launch options

Step 3 - optional Configure advanced options

Step 4 - optional Configure group size and scaling

Step 5 - optional Add notifications

Step 6 - optional Add tags

Step 7 Review

▼ Notification 1 Remove

Send a notification to autoscale

With these recipients gnaneshwarvicky@gmail.com

Use existing topic

Event types Notify subscribers whenever instances

Launch

Terminate

Fail to launch

Fail to terminate

Add notification

Cancel Skip to review Previous Next

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RouteTableDetails | VPC Console X Create Auto Scaling group | EC2 X +

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

AWS Services Search [Alt+S] Mumbai Gnaneshwar @ 3397-1281-5762

Step 1 Choose launch template

Step 2 Choose instance launch options

Step 3 - optional Configure advanced options

Step 4 - optional Configure group size and scaling

Step 5 - optional Add notifications

Step 6 - optional Add tags

Step 7 Review

Add tags - optional Info

Add tags to help you search, filter, and track your Auto Scaling group across AWS. You can also choose to automatically add these tags to instances when they are launched.

ⓘ You can optionally choose to add tags to instances (and their attached EBS volumes) by specifying tags in your launch template. We recommend caution, however, because the tag values for instances from your launch template will be overridden if there are any duplicate keys specified for the Auto Scaling group. X

Tags (0)

Add tag 50 remaining

Cancel Previous Next

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RouteTableDetails | VPC Console X Create Auto Scaling group | EC2 X +

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

aws Services Search [Alt+S] Mumbai Gnaneshwar @ 3397-1281-5762

Step 5: Add notifications

Notifications

Notification 1
SNS Topic
autoscale (gnaneshwarvicky@gmail.com)

Event types
 Launch
 Terminate
 Fail to launch
 Fail to terminate

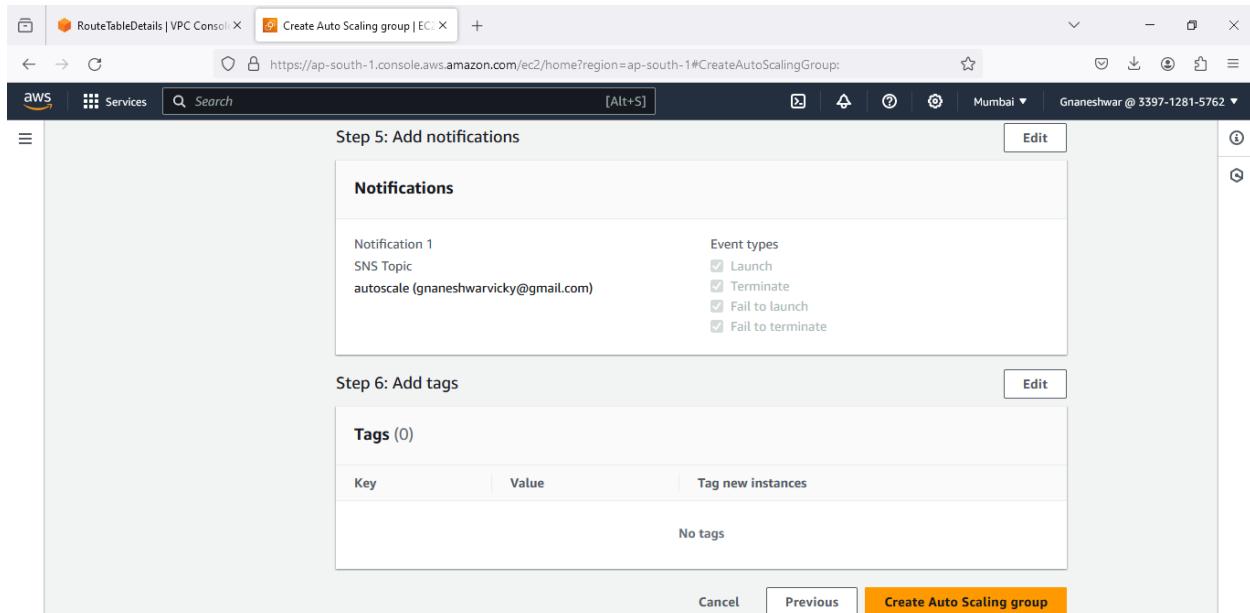
Step 6: Add tags

Tags (0)

Key Value Tag new instances

No tags

Cancel Previous Create Auto Scaling group



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RouteTableDetails | VPC Console X Auto Scaling groups | EC2 ap- X +

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

aws Services Search [Alt+S] Mumbai Gnaneshwar @ 3397-1281-5762

EC2 > Auto Scaling groups

Auto Scaling groups (2) Info

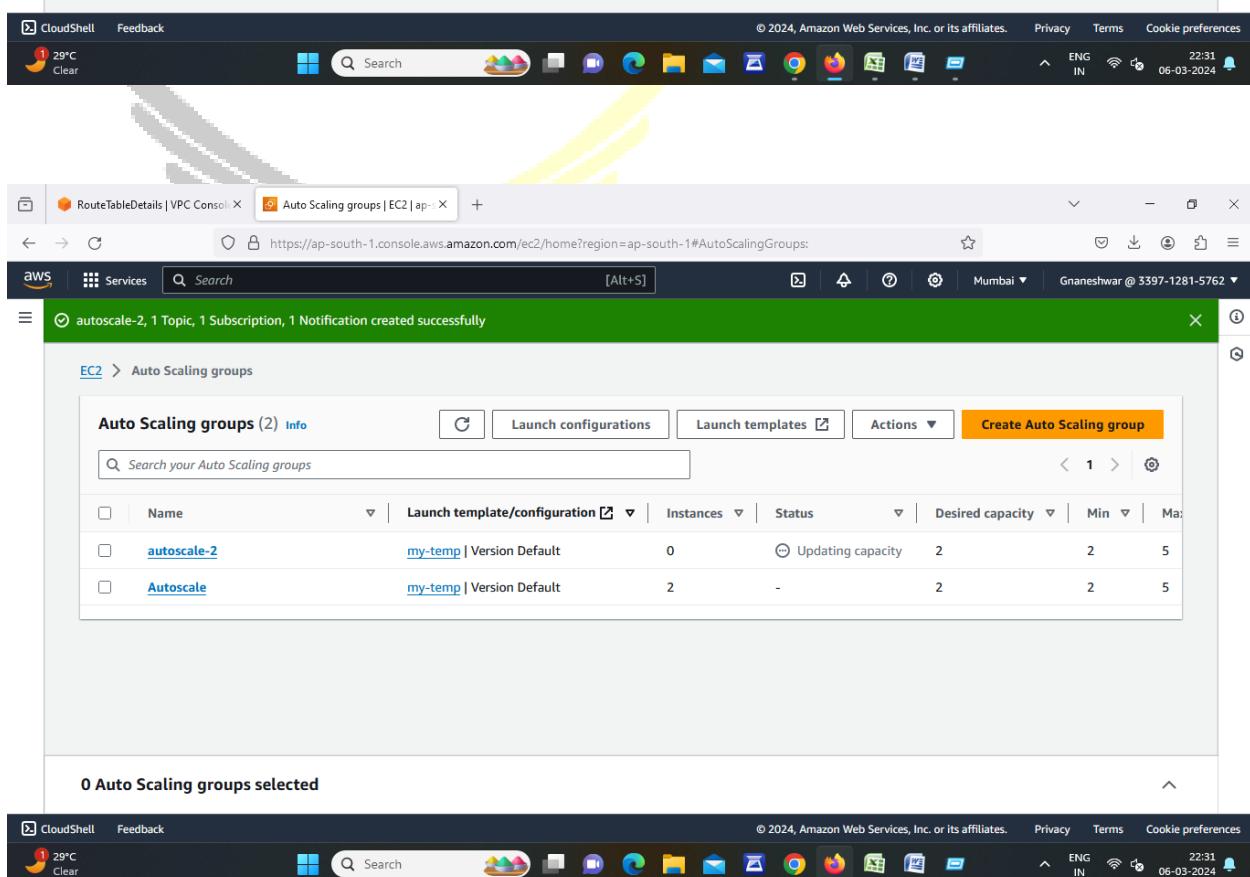
Search your Auto Scaling groups

Actions Create Auto Scaling group

Name	Launch template/configuration	Instances	Status	Desired capacity	Min	Max
autoscale-2	my-temp Version Default	0	Updating capacity	2	2	5
Autoscale	my-temp Version Default	2	-	2	2	5

0 Auto Scaling groups selected

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RouteTableDetails | VPC Console X Auto Scaling groups | EC2 | ap-south-1 +

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

aws Services Search [Alt+S] Mumbai Gnaneshwar @ 3397-1281-5762

autoscale-2, 1 Topic, 1 Subscription, 1 Notification created successfully

EC2 > Auto Scaling groups

Auto Scaling groups (2) Info

Search your Auto Scaling groups

Name	Launch template/configuration	Instances	Status	Desired capacity	Min	Max
autoscale-2	my-temp Version Default	2	-	2	2	5
Autoscale	my-temp Version Default	2	-	2	2	5

0 Auto Scaling groups selected

- After Creating Auto scaling group we can see the servers automatically created.

RouteTableDetails | VPC Console X Instances | EC2 | ap-south-1 +

https://ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#instances:v=3;case=tags;true\client:false\$region

aws Services Search [Alt+S] Mumbai Gnaneshwar @ 3397-1281-5762

EC 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 Volumes

CloudShell Feedback

Instances (5) Info

Find Instance by attribute or tag (case-sensitive)

Any state

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Z
ec2-1	i-0e59ffe7c0c45b1d0	Running	t2.micro	2/2 checks passed	View alarms +	ap-south-1a
	i-048111d30f3abd7ea	Running	t2.micro	2/2 checks passed	View alarms +	ap-south-1a
	i-0b66977c1e60e6ea7	Running	t2.micro	Initializing	View alarms +	ap-south-1a
	i-0005aae7a67c0601f	Running	t2.micro	2/2 checks passed	View alarms +	ap-south-1b
	i-01af60235f74187c4	Pending	t2.micro	Initializing	View alarms +	ap-south-1b

Select an instance

- Now go to VPC and create private subnets for RDS

Subnets (10) Info

Name	Subnet ID	State	VPC
pub-sub-2	subnet-05a420a77747690e3	Available	vpc-092f02a1c72735777 my...
pub-sub-1	subnet-03339eb49b1959053	Available	vpc-092f02a1c72735777 my...
priv-sub-4	subnet-03d1abdd4be31457e	Available	vpc-092f02a1c72735777 my...
priv-sub-3	subnet-0312df880c3905169	Available	vpc-092f02a1c72735777 my...
priv-sub-2	subnet-084f2332934469e22	Available	vpc-092f02a1c72735777 my...
priv-sub-1	subnet-0672c0350eaf70fde	Available	vpc-092f02a1c72735777 my...
-	subnet-0050bee67a7342411	Available	vpc-0a851b25047d251f9
-	subnet-07561bfe8738a9ad2	Available	vpc-0a851b25047d251f9

Select a subnet

- Now go to RDS

Recently visited

- RDS
- Console Home
- IAM
- EC2
- S3
- DynamoDB

- Go to subnet groups then click on Create Subnet group
- Enter subnet group name and select VPC
- Select AZ's then Select subnet's RDS and public subnet of while launching ec2 instance of subnet.

The screenshot shows the AWS RDS console in the US West (Oregon) region. A blue banner at the top left reads "Introducing Aurora I/O-Optimized" with a subtext about predictable pricing and improved performance. Below the banner, there's a callout box with an info icon: "Try the new Amazon RDS Multi-AZ deployment option for MySQL and PostgreSQL". It describes the option for MySQL and PostgreSQL workloads, mentioning faster failover, improved transactional commit latencies, and read scalability with two readable standby DB instances. It includes a "Create database" button and a link to "Restore Multi-AZ DB Cluster from Snapshot".

The main content area is titled "Resources" and displays usage information: "You are using the following Amazon RDS resources in the US West (Oregon) region (used/quota)". It lists DB Instances (0/40), Parameter groups (0), Option groups (0), and DB Clusters (0/10). There are also links to "Increase DB instances limit" and "Option groups (0)".

Screenshot 2:

This screenshot shows the "Subnet groups" list page under the "Amazon RDS" navigation menu. The left sidebar has a "Subnet groups" section. The main content area is titled "Subnet groups (0)" and features a search bar and filter options. A large message box says "No db subnet groups" and "You don't have any db subnet groups." It includes a prominent "Create DB subnet group" button.

Subnet group details

Name
You won't be able to modify the name after your subnet group has been created.
 Must contain from 1 to 255 characters. Alphanumeric characters, spaces, hyphens, underscores, and periods are allowed.

Description

VPC
Choose a VPC identifier that corresponds to the subnets you want to use for your DB subnet group. You won't be able to choose a different VPC identifier after your subnet group has been created.

Add subnets

Availability Zones
Choose the Availability Zones that include the subnets you want to add.

Subnets
Choose the subnets that you want to add. The list includes the subnets in the selected Availability Zones.

For Multi-AZ DB clusters, you must select 3 subnets in 3 different Availability Zones.

Subnets selected (3)

Availability zone	Subnet ID	CIDR block
us-east-1b	subnet-0ef42d111bbe46221	120.0.17.0/24
us-east-1a	subnet-0458927dfcd3e8abe	120.0.11.0/24
us-east-1a	subnet-05ebfac3b9c833a96	120.0.16.0/24

Create

Amazon RDS

Subnet groups (1)

Name	Description	Status	VPC
mydbsubnet	allow	Complete	vpc-092f02a1c72735777

Create DB subnet group

- Now go to Database
- Click on Create database through VPC and subnet group

The screenshot shows the AWS RDS Databases page. The left sidebar includes options like Dashboard, Databases (which is selected), Query Editor, Performance insights, Snapshots, Exports in Amazon S3, Automated backups, Reserved instances, Proxies, Subnet groups, Parameter groups, Option groups, and Custom engine versions. The main content area displays a table header for 'Databases (0)' with columns for DB identifier, Status, Role, Engine, Region & AZ, Size, and Recommendations. A message at the bottom states 'No instances found'.

The screenshot shows the 'Create database' page. The top section, 'Choose a database creation method', has two options: 'Standard create' (selected) and 'Easy create'. The 'Standard create' option is described as setting all configuration options, including availability, security, backups, and maintenance. The 'Easy create' option is described as using recommended best-practice configurations where some options can be changed after creation. Below this, the 'Engine options' section shows 'Engine type' with 'Aurora (MySQL Compatible)' selected (indicated by a blue circle) and 'Aurora (PostgreSQL Compatible)' as an alternative. The status bar at the bottom indicates the session is in English (ENG IN) and shows the date as 19-03-2024.

Screenshot of the AWS RDS console showing the engine selection step. The user has selected MySQL as the engine type.

Engine type [Info](#)

- Aurora (MySQL Compatible)
- Aurora (PostgreSQL Compatible)
- MySQL
- MariaDB
- PostgreSQL
- Oracle
- Microsoft SQL Server
- IBM Db2

MySQL

MySQL is the most popular open source database in the world. MySQL on RDS offers the rich features of the MySQL community edition with the flexibility to easily scale compute resources or storage capacity for your database.

- Supports database size up to 64 TiB.
- Supports General Purpose, Memory Optimized, and Burstable Performance instance classes.
- Supports automated backup and point-in-time recovery.
- Supports up to 15 Read Replicas per instance, within a single Region or 5 read replicas cross-

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CloudShell Feedback ENG IN 23:31 19-03-2024

Screenshot of the AWS RDS console showing the deployment options step. The user has selected "Multi-AZ DB instance".

Production Use defaults for high availability and fast, consistent performance.

Dev/Test This instance is intended for development use outside of a production environment.

Free tier Use RDS Free Tier to develop new applications, test existing applications, or gain hands-on experience with Amazon RDS. [Info](#)

Availability and durability

Deployment options [Info](#)

The deployment options below are limited to those supported by the engine you selected above.

- Single DB instance Creates a single DB instance with no standby DB instances.
- Multi-AZ DB instance Creates a primary DB instance and a standby DB instance in a different AZ. Provides high availability and data redundancy, but the standby DB instance doesn't support connections for read workloads.
- Multi-AZ DB Cluster Creates a DB cluster with a primary DB instance and two readable standby DB instances, with each DB instance in a different Availability Zone (AZ). Provides high availability, data redundancy and increases capacity to serve read workloads.

Settings

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Screenshot of the AWS RDS console showing the 'Credentials Settings' section for launching a MySQL DB instance.

Credentials Settings

Master username: admin
Type a login ID for the master user of your DB instance.

Credential management:

- Managed in AWS Secrets Manager - most secure**
RDS generates a password for you and manages it throughout its lifecycle using AWS Secrets Manager.
- Self managed**
Create your own password or have RDS create a password that you manage.

Auto generate password:
Amazon RDS can generate a password for you, or you can specify your own password.

Master password: [Info](#)
Minimum constraints: At least 8 printable ASCII characters. Can't contain any of the following symbols: / ` " @

Confirm master password: [Info](#)

MySQL

MySQL is the most popular open source database in the world. MySQL on RDS offers the rich features of the MySQL community edition with the flexibility to easily scale compute resources or storage capacity for your database.

- Supports database size up to 64 TiB.
- Supports General Purpose, Memory Optimized, and Burstable Performance instance classes.
- Supports automated backup and point-in-time recovery.
- Supports up to 15 Read Replicas per instance, within a single Region or 5 read replicas cross-

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Screenshot of the AWS RDS console showing the 'Storage' configuration section for launching a MySQL DB instance.

Hide filters

Show instance classes that support Amazon RDS Optimized Writes [Info](#)
Amazon RDS Optimized Writes improves write throughput by up to 2x at no additional cost.

Include previous generation classes

Standard classes (includes m classes)

Memory optimized classes (includes r and x classes)

Burstable classes (includes t classes)

db.m6gd.large (supports Amazon RDS Optimized Writes)
2 vCPUs 8 GiB RAM Network: 4,750 Mbps

Storage

Storage type: [Info](#)
Provisioned IOPS SSD (io2) storage volumes are now available.

Provisioned IOPS SSD (io1)
Flexibility in provisioning I/O

MySQL

MySQL is the most popular open source database in the world. MySQL on RDS offers the rich features of the MySQL community edition with the flexibility to easily scale compute resources or storage capacity for your database.

- Supports database size up to 64 TiB.
- Supports General Purpose, Memory Optimized, and Burstable Performance instance classes.
- Supports automated backup and point-in-time recovery.
- Supports up to 15 Read Replicas per instance, within a single Region or 5 read replicas cross-

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[subnets | VPC Console](#) [Instance details | EC2 | us-east-1](#) [EC2 Instance Connect | us-east-1](#) [RDS | us-east-1](#)

https://us-east-1.console.aws.amazon.com/rds/home?region=us-east-1#launch-dbinstance:

Compute resource
Choose whether to set up a connection to a compute resource for this database. Setting up a connection will automatically change connectivity settings so that the compute resource can connect to this database.

Don't connect to an EC2 compute resource
Don't set up a connection to a compute resource for this database. You can manually set up a connection to a compute resource later.

Connect to an EC2 compute resource
Set up a connection to an EC2 compute resource for this database.

Network type [Info](#)
To use dual-stack mode, make sure that you associate an IPv6 CIDR block with a subnet in the VPC you specify.

IPv4
Your resources can communicate only over the IPv4 addressing protocol.

Dual-stack mode
Your resources can communicate over IPv4, IPv6, or both.

Virtual private cloud (VPC) [Info](#)
Choose the VPC. The VPC defines the virtual networking environment for this DB instance.

my-vpc (vpc-0ac0454bcd659e7e)
6 Subnets, 2 Availability Zones

Only VPCs with a corresponding DB subnet group are listed.

After a database is created, you can't change its VPC.

MySQL

MySQL is the most popular open source database in the world. MySQL on RDS offers the rich features of the MySQL community edition with the flexibility to easily scale compute resources or storage capacity for your database.

- Supports database size up to 64 TiB.
- Supports General Purpose, Memory Optimized, and Burstable Performance instance classes.
- Supports automated backup and point-in-time recovery.
- Supports up to 15 Read Replicas per instance, within a single Region or 5 read replicas cross-

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[subnets | VPC Console](#) [Instance details | EC2 | us-east-1](#) [EC2 Instance Connect | us-east-1](#) [RDS | us-east-1](#)

https://us-east-1.console.aws.amazon.com/rds/home?region=us-east-1#launch-dbinstance:

DB subnet group [Info](#)
Choose the DB subnet group. The DB subnet group defines which subnets and IP ranges the DB instance can use in the VPC that you selected.

mydbsubnet
3 Subnets, 2 Availability Zones

Public access [Info](#)
 Yes
RDS assigns a public IP address to the database. Amazon EC2 instances and other resources outside of the VPC can connect to your database. Resources inside the VPC can also connect to the database. Choose one or more VPC security groups that specify which resources can connect to the database.

No
RDS doesn't assign a public IP address to the database. Only Amazon EC2 instances and other resources inside the VPC can connect to your database. Choose one or more VPC security groups that specify which resources can connect to the database.

VPC security group (firewall) [Info](#)
Choose one or more VPC security groups to allow access to your database. Make sure that the security group rules allow the appropriate incoming traffic.

Choose existing
Choose existing VPC security groups

Create new
Create new VPC security group

Existing VPC security groups
Choose one or more options

MySQL

MySQL is the most popular open source database in the world. MySQL on RDS offers the rich features of the MySQL community edition with the flexibility to easily scale compute resources or storage capacity for your database.

- Supports database size up to 64 TiB.
- Supports General Purpose, Memory Optimized, and Burstable Performance instance classes.
- Supports automated backup and point-in-time recovery.
- Supports up to 15 Read Replicas per instance, within a single Region or 5 read replicas cross-

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No
RDS doesn't assign a public IP address to the database. Only Amazon EC2 instances and other resources inside the VPC can connect to your database. Choose one or more VPC security groups that specify which resources can connect to the database.

VPC security group (firewall) [Info](#)
Choose one or more VPC security groups to allow access to your database. Make sure that the security group rules allow the appropriate incoming traffic.

Choose existing
Choose existing VPC security groups

Create new
Create new VPC security group

Existing VPC security groups
[Choose one or more options](#)

launch-wizard-9 X

Certificate authority - optional [Info](#)
Using a server certificate provides an extra layer of security by validating that the connection is being made to an Amazon database. It does so by checking the server certificate that is automatically installed on all databases that you provision.

rds-ca-rsa2048-g1 (default)
Expiry: May 26, 2061

If you don't select a certificate authority, RDS chooses one for you.

Additional configuration

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Estimated Monthly costs

DB instance	272.29 USD
Storage	100.00 USD
Provisioned IOPS	600.00 USD
Total	972.29 USD

This billing estimate is based on on-demand usage as described in [Amazon RDS Pricing](#). Estimate does not include costs for backup storage, IOs (if applicable), or data transfer.

Estimate your monthly costs for the DB Instance using the [AWS Simple Monthly Calculator](#).

 You are responsible for ensuring that you have all of the necessary rights for any third-party products or services that you use with AWS services.

Cancel [Create database](#)

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- Now click on database then set up ec2 connection
- Click on set up ec2 connection and select ec2 instance click on next
- Then click on set up

The screenshot shows the Amazon RDS service in the AWS Management Console. The left sidebar navigation bar includes options like Dashboard, Databases (which is selected), Query Editor, Performance insights, Snapshots, Exports in Amazon S3, Automated backups, Reserved instances, Proxies, Subnet groups, Parameter groups, Option groups, and Custom engine versions. The main content area displays a table titled 'Databases (1)'. The table has columns for DB identifier, Status, Role, Engine, Region & AZ, and Size. One row is listed: 'database-1' (Status: Available, Instance: MySQL Community, Region & AZ: us-east-1a, Size: db.m6gd.large). Below this table is a 'Create database' button.

The screenshot shows the 'Connected compute resources (0)' section of the RDS service. It indicates that there are no connected compute resources. It includes a 'Filter by compute resources' search bar and buttons for 'Set up EC2 connection' and 'Set up Lambda connection'.

The screenshot shows the 'Proxies (0)' section of the RDS service. It indicates that there are no proxies created. It includes a 'Create proxy' button.

Screenshot of the AWS RDS console showing the "Set up EC2 connection" step. The user is selecting an EC2 instance to connect to the RDS database.

Step 1: Set up EC2 connection

Step 2: Review and confirm

Select EC2 instance

Database: database-1

EC2 instance:

Choose the EC2 instance to connect to this database. Only EC2 instances in the same VPC as the database are shown. If no EC2 instances in the same VPC are available, you can create a new EC2 instance.

i-03af6cc11b3cdf587
ec2-rds us-east-1a

Create EC2 instance

Cancel Continue

Screenshot of the AWS RDS console showing the "Review and confirm" step. The user is reviewing the connection setup between the RDS database and the selected EC2 instance.

You are setting up a connection between RDS database database-1 and EC2 instance i-03af6cc11b3cdf587.

To set up a connection between the database and the EC2 instance, VPC security group rds-ec2-2 is added to the database, and VPC security group ec2-rds-2 is added to the EC2 instance.

VPC: vpc-0ac0454bcd659e7e (my-vpc)

Security group: rds-ec2-2 (connection rule)

RDS database-1 Port: 3306

Security group: ec2-rds-2 (connection rule)

EC2 instance i-03af6cc11b3cdf587

Bold indicates an addition being made to set up a connection.

Changes to RDS database: database-1

The screenshot shows the AWS RDS setup dialog. At the top, there are tabs for subnets, VPC Console, Instance details, EC2, EC2 Instance Connect, and RDS. The RDS tab is active, showing the URL: https://us-east-1.console.aws.amazon.com/rds/home?region=us-east-1#setup-ec2-connection:id=database-1.

Changes to RDS database: database-1

Attribute	Current value	New value
Security group	launch-wizard-9	launch-wizard-9, rds-ec2-2

Changes to EC2 instance: i-03af6cc11b3cdf587

Attribute	Current value	New value
Security group	ec2-rds-1, launch-wizard-9	ec2-rds-1, launch-wizard-9, ec2-rds-2

Buttons at the bottom: Cancel, Previous, Set up (highlighted).

The screenshot shows the AWS RDS Databases page. The left sidebar includes links for Dashboard, Databases (selected), Query Editor, Performance insights, Snapshots, Exports in Amazon S3, Automated backups, Reserved instances, Proxies, Subnet groups, Parameter groups, Option groups, and Custom engine versions.

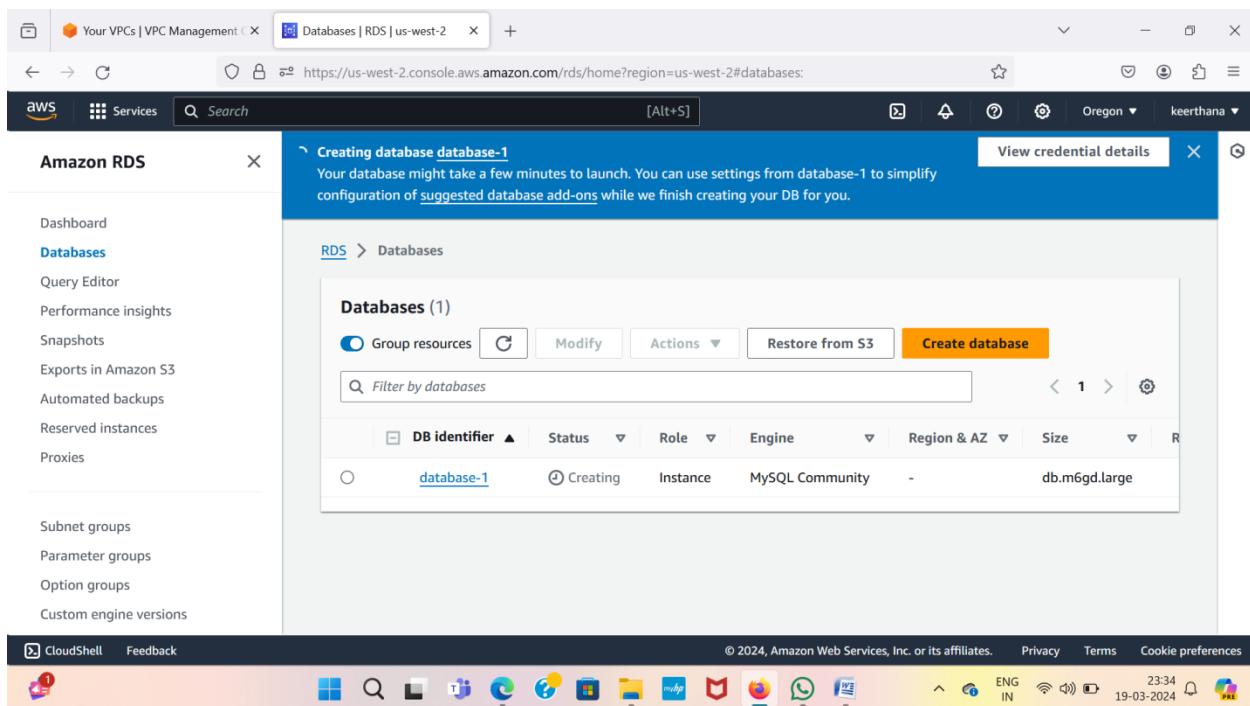
The main content area shows a success message: "Connection setup successfully for RDS database database-1 and EC2 instance i-03af6cc11b3cdf587".

Databases (1)

DB identifier	Status	Role	Engine	Region & AZ	Size
database-1	Available	Instance	MySQL Community	us-east-1a	db.m6gd.large

Buttons at the bottom: View details, Create database (highlighted).

At the very bottom, a Windows taskbar is visible with various pinned icons.



After Creating database go to ec2 instance then connect

Install mysql-server command is

```
sudo apt update -y
```

```
sudo apt install mysql-server
```

```
mysql -h <endpoint> -u <username> -p
```

Your VPCs | VPC Management

Databases | RDS | us-west-2

https://us-west-2.console.aws.amazon.com/rds/home?region=us-west-2#databases:

AWS Services Search [Alt+S]

Recently visited

RDS

Managed Relational Database Service

Console Home

View resource insights, service shortcuts, and feature updates

IAM

Manage access to AWS resources

EC2

Virtual Servers in the Cloud

S3

Scalable Storage in the Cloud

DynamoDB

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Your VPCs | VPC Management

Instance details | EC2 | us-west-2

https://us-west-2.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-05c8f08b4912f5915

AWS Services Search [Alt+S]

```
root@ip-120-0-12-81:~# sudo apt update -y
[...]
i:1 http://us-west-2.ec2.archive.ubuntu.com/ubuntu jammy InRelease
[...]
i:19 http://us-west-2.ec2.archive.ubuntu.com/ubuntu jammy-updates/multiverse Translation-en [10.1 kB]
i:19 http://us-west-2.ec2.archive.ubuntu.com/ubuntu jammy-updates/universe Translation-en [239 kB]
i:17 http://us-west-2.ec2.archive.ubuntu.com/ubuntu jammy-updates/universe amd64 c-n-f Metadata [22.1 kB]
i:18 http://us-west-2.ec2.archive.ubuntu.com/ubuntu jammy-updates/multiverse amd64 Packages [42.1 kB]
i:19 http://us-west-2.ec2.archive.ubuntu.com/ubuntu jammy-updates/universe Translation-en [10.1 kB]
```

i-05c8f08b4912f5915 (my-ec2-rds)

PublicIPs: 54.186.194.205 PrivateIPs: 120.0.12.81

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```
root@ip-120-0-12-81:~# sudo apt install mysql-server
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  libcgifast-perl libcgipm-perl libclone-perl libencode-locale-perl libevent-pthreads-2.1-7 libfcgi-bin libfcgi-perl libfcgioldbl
  libhtml-parser-perl libhtml-tagset-perl libhtml-template-perl libhttp-date-perl libhttp-message-perl libio-html-perl liblwp-mediatypes-perl
  libmecab2 libprotobuf-lite23 libtimsdate-perl liburi-perl mecab-ipadic mecab-ipadic-utf8 mecab-utils mysql-client-8.0 mysql-client-core-8.0
  mysql-common mysql-server-8.0 mysql-server-core-8.0
Suggested packages:
  libdata-dump-perl libipc-sharedcache-perl libbusiness-isbn-perl libwww-perl mailx tinyca
The following NEW packages will be installed:
  libcgifast-perl libcgipm-perl libclone-perl libencode-locale-perl libevent-pthreads-2.1-7 libfcgi-bin libfcgi-perl libfcgioldbl
  libhtml-parser-perl libhtml-tagset-perl libhtml-template-perl libhttp-date-perl libhttp-message-perl libio-html-perl liblwp-mediatypes-perl
  libmecab2 libprotobuf-lite23 libtimsdate-perl liburi-perl mecab-ipadic mecab-ipadic-utf8 mecab-utils mysql-client-8.0 mysql-client-core-8.0
  mysql-common mysql-server mysql-server-8.0 mysql-server-core-8.0
Upgraded, 28 newly installed, 0 to remove and 19 not upgraded.
Need to get 29.5 MB of archives.
After this operation, 243 MB of additional disk space will be used.
Do you want to continue? [Y/n] 
```

i-05c8f08b4912f5915 (my-ec2-rds)

PublicIPs: 54.186.194.205 PrivateIPs: 120.0.12.81

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Your VPCs | VPC Management Databases | RDS | us-west-2 Instance details | EC2 | us-west-2 EC2 Instance Connect | us-west-2 +

https://us-west-2.console.aws.amazon.com/rds/home?region=us-west-2#databases:

AWS Services Search [Alt+S]

Amazon RDS Databases > Databases

Databases (1)

Group resources C Modify Actions ▾ Restore from S3 Create database

Filter by databases

DB identifier	Status	Role	Engine	Region & AZ	Size
database-1	Modifying	Instance	MySQL Community	us-west-2d	db.m6gd.large

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The screenshot shows the Amazon RDS Connectivity & security page for a database instance. The instance details are as follows:

Endpoint & port	Networking	Security
Endpoint database-1.cr084m6k43cx.us-west-2.rds.amazonaws.com	Availability Zone us-west-2d VPC my-vpc-1 (vpc-092f02a1c72735777) Subnet group mydbsubnet Subnets	VPC security groups default (sg-0473aa174f54591b9) Active Publicly accessible Yes Certificate authority Info rds-ca-rsa2048-g1

Below the RDS interface, there are two CloudShell windows. The top CloudShell window shows the AWS CLI command to install MySQL on an EC2 instance:

```
root@ip-120-0-11-198:~# sudo apt install mysql-server
```

The output of the command indicates that MySQL is already at the newest version (8.0.36-Ubuntu0.22.04.1). The bottom CloudShell window shows the MySQL prompt on the same instance:

```
i-03af6cc11b3cdf587 (ec2-rds)
PublicIPs: 184.72.83.57 PrivateIPs: 120.0.11.198
```

- Now we can see database connected to mysql server

A screenshot of an AWS CloudShell terminal window. The terminal is running a MySQL session on an RDS instance. The output shows the MySQL prompt, copyright information, and a note about Oracle trademarks. The session ends with a 'mysql>' prompt.

```
root@ip-120-0-11-198:~# mysql -h database-1.cz8kiiys2m6k.us-east-1.rds.amazonaws.com -u admin -p
Enter password:
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 31
Server version: 8.0.35 Source distribution

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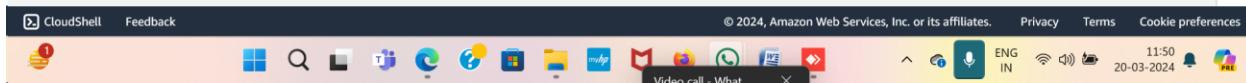
Oracle is a registered trademark of Oracle Corporation and/or its
affiliates. Other names may be trademarks of their respective
owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> 
```

i-03af6cc11b3cdf587 (ec2-rds)

PublicIPs: 184.72.83.57 PrivateIPs: 120.0.11.198



***** END *****

