



PROJECT -1

COURSE : DEVOPS

Trainer : Mr . MADHUKAR



VCUBE

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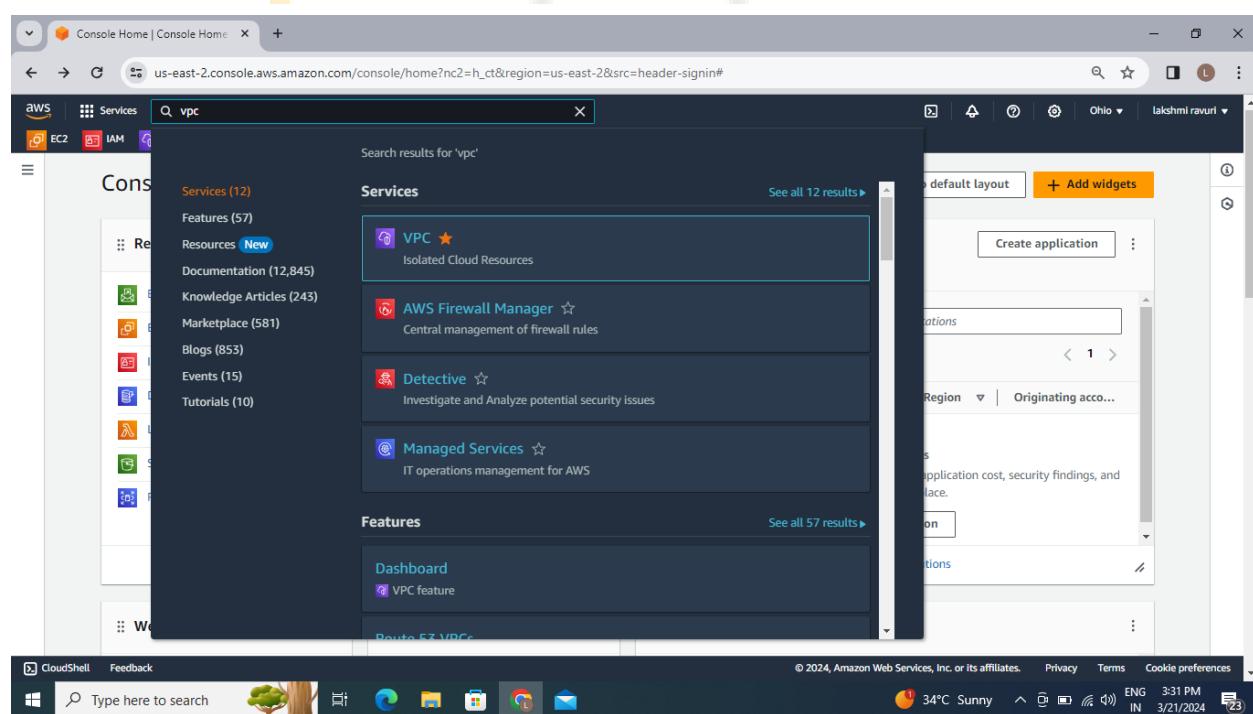
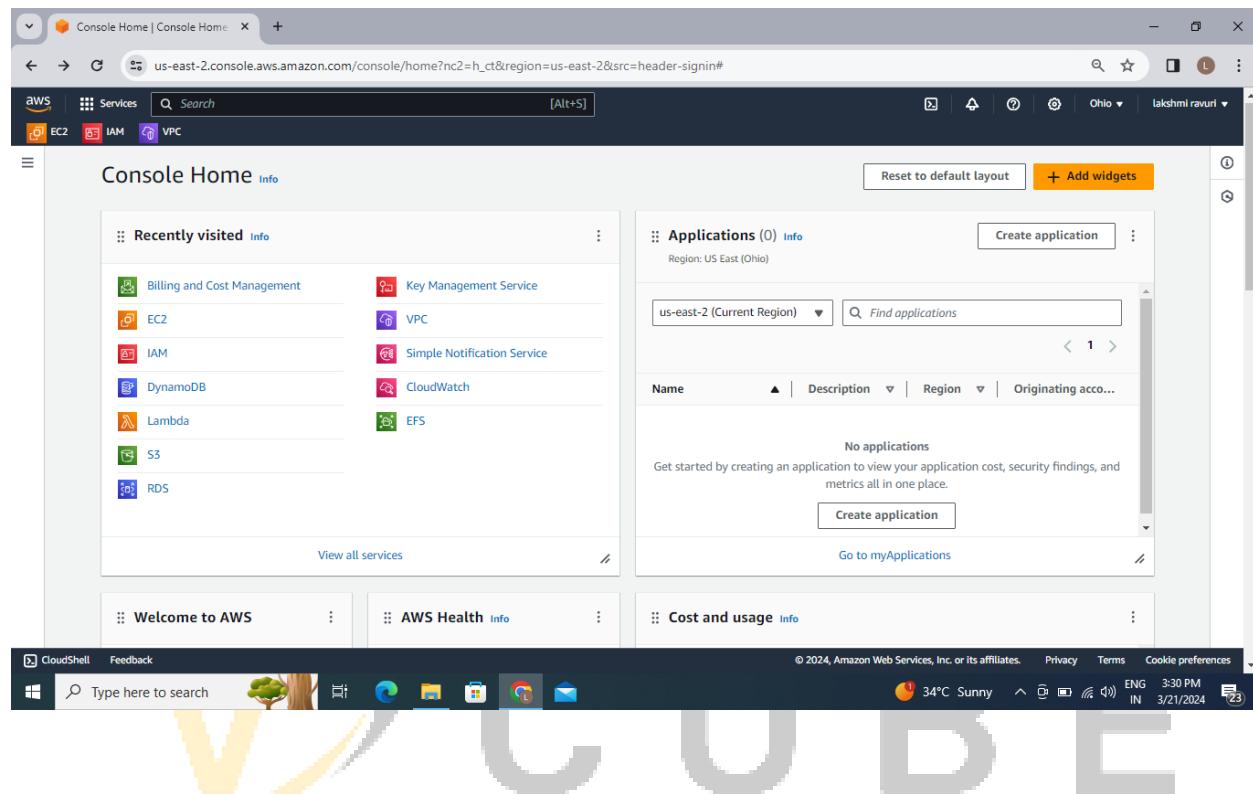
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➤ Create VPC and connect subnets through Auto scaling and connect RDS

- First Go to Amazon Console Home and search VPC.



- 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's a search bar and a navigation bar with tabs for EC2, IAM, and VPC. On the left, a sidebar lists various VPC-related services like EC2 Global View, Filter by VPC, Virtual private cloud (Your VPCs, Subnets, Route tables, Internet gateways, Egress-only internet gateways, DHCP option sets, Elastic IPs, Managed prefix lists, Endpoints, Endpoint services, NAT gateways, Peering connections), and Security. The main content area has a "Create VPC" button and a "Launch EC2 Instances" button. Below these are sections for "Resources by Region" and "Service Health". The "Resources by Region" section displays counts for VPCs, NAT Gateways, Subnets, VPC Peering Connections, Route Tables, Network ACLs, Internet Gateways, Security Groups, and Customer Gateways, all set to US East. To the right, there are "Settings" (Zones, Console Experiments), "Additional Information" (VPC Documentation, All VPC Resources, Forums, Report an Issue), and a section for "AWS Network Manager". The bottom of the page includes a footer with copyright information and a system tray.

This screenshot shows the "Your VPCs" list page in the AWS VPC Console. The top navigation bar is identical to the previous screenshot. The sidebar on the left remains the same. The main content area displays a table titled "Your VPCs (2) Info". The table has columns for Name, VPC ID, State, IPv4 CIDR, IPv6 CIDR, and DHC. There are two entries:

Name	VPC ID	State	IPv4 CIDR	IPv6 CIDR	DHC
-	ypc-081b4dab4f205fc8f	Available	172.31.0.0/16	-	dopt
-	ypc-0ff2024b8366f0283	Available	160.0.0.0/16	-	dopt

Below the table, there's a note "Select a VPC above". The bottom of the page features a footer with standard AWS links and a system tray.

CreateVpc | VPC Console

us-east-2.console.aws.amazon.com/vpcconsole/home?region=us-east-2#CreateVpc:createMode=vpcOnly

AWS Services Search [Alt+S]

EC2 IAM VPC

VPC > Your VPCs > Create VPC

Create VPC Info

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

VPC settings

Resources to create Info
Create only the VPC resource or the VPC and other networking resources.

VPC only VPC and more

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

my-vpc-1

IPv4 CIDR block Info
 IPv4 CIDR manual input IPAM-allocated IPv4 CIDR block

IPv4 CIDR
120.0.0.0/16

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

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CreateVpc | VPC Console

us-east-2.console.aws.amazon.com/vpcconsole/home?region=us-east-2#CreateVpc:createMode=vpcOnly

AWS Services Search [Alt+S]

EC2 IAM VPC

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IPv6 CIDR block Info
 No IPv6 CIDR block IPAM-allocated IPv6 CIDR block Amazon-provided IPv6 CIDR block IPv6 CIDR owned by me

Tenancy Info
Default

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

Key Value - optional
Name my-vpc-1 Remove tag

Add tag You can add 49 more tags

Cancel Create VPC

The screenshot shows the AWS VPC Console with a success message: "You successfully created vpc-0f0b630139be821da / my-vpc-1". The main view displays details for the newly created VPC, including its ID, state (Available), and various network settings like DHCP option sets and route tables. The left sidebar shows navigation options for VPCs, Subnets, Route tables, Internet gateways, Egress-only internet gateways, DHCP option sets, Elastic IPs, Managed prefix lists, Endpoints, Endpoint services, and NAT gateways. The bottom of the screen includes the Windows taskbar with icons for CloudShell, Feedback, Start button, File Explorer, Task View, Edge browser, File Explorer, Mail, and a search bar.

- 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

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subnets | VPC Console

us-east-2.console.aws.amazon.com/vpcconsole/home?region=us-east-2#subnets:

VPC dashboard Services Search [Alt+S]

EC2 IAM VPC

You successfully created **vpc-0f0b630139be821da / my-vpc-1**

Subnets (5) Info

Find resources by attribute or tag

Name	Subnet ID	State	VPC	IPv4 CIDR
-	subnet-07f9e15a9faf0fdbd	Available	vpc-081b4dab4f205fc8f	172.31.
-	subnet-06c5b6bc288967756	Available	vpc-081b4dab4f205fc8f	172.31.
-	subnet-07cc51e8a793518c3	Available	vpc-0ff2024b8366f0283	160.0.1
-	subnet-00395fa041a00f547	Available	vpc-0ff2024b8366f0283	160.0.2

Select a subnet

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CreateSubnet | VPC Console

us-east-2.console.aws.amazon.com/vpcconsole/home?region=us-east-2#CreateSubnet:

VPC Services Search [Alt+S]

EC2 IAM VPC

VPC > Subnets > Create subnet

Create subnet Info

VPC

VPC ID
Create subnets in this VPC.
vpc-0f0b630139be821da (my-vpc-1)

Associated VPC CIDRs
IPv4 CIDRs
120.0.0.0/16

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

Subnet 1 of 1

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CreateSubnet | VPC Console

us-east-2.console.aws.amazon.com/vpcconsole/home?region=us-east-2#CreateSubnet:

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

The name can be up to 256 characters long.

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

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

IPv4 subnet CIDR block
 256 IPs

Tags - optional

Key Value - optional Remove

Add new tag

You can add 49 more tags.

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CreateSubnet | VPC Console

us-east-2.console.aws.amazon.com/vpcconsole/home?region=us-east-2#CreateSubnet:

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

The name can be up to 256 characters long.

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

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

IPv4 subnet CIDR block
 256 IPs

Tags - optional

Key Value - optional Remove

Add new tag

You can add 49 more tags.

Remove

Add new subnet

Cancel Create subnet

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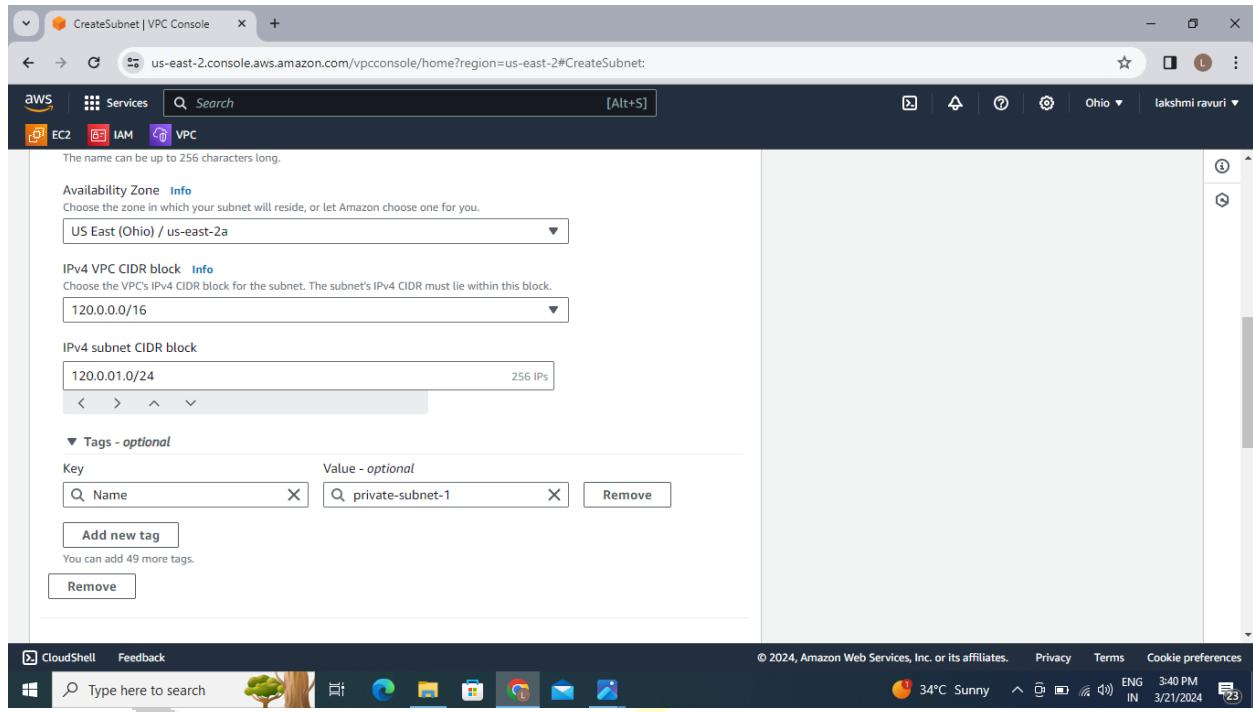
The screenshot shows the AWS VPC Management Console with the URL <https://us-east-2.console.aws.amazon.com/vpcconsole/home?region=us-east-2#subnets>. The page displays a table of subnets under the heading "Subnets (2) Info". The table columns are Name, Subnet ID, State, VPC, IPv4 CIDR, and IPv6 CIDR. There are two subnets listed: "public-subnet-2" and "public-subnet-1", both of which are "Available". The VPC for both is "vpc-0f0b630139be821da | my-vpc-1". The IPv4 CIDR for "public-subnet-2" is "120.0.24.0/24" and for "public-subnet-1" is "120.0.1.0/24". The IPv6 CIDR for both is "-". At the bottom of the table, there is a link "Select a subnet". The left sidebar shows navigation options for VPC dashboard, EC2 Global View, Filter by VPC, Virtual private cloud (Your VPCs, Subnets, Route tables, Internet gateways, Egress-only internet gateways, DHCP option sets, Elastic IPs, Managed prefix lists, Endpoints, Endpoint services, NAT gateways, Peering connections), Security (Network ACLs, Security groups), and DNS Firewall. The bottom status bar shows the date and time as "© 2024, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences 34°C Sunny ENG IN 3/21/2024 [23]".

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

The screenshot shows the "Create subnet" wizard in the AWS VPC Console. The URL is <https://us-east-2.console.aws.amazon.com/vpcconsole/home?region=us-east-2#CreateSubnet>. The page has a breadcrumb trail: VPC > Subnets > Create subnet. The main section is titled "Create subnet" with a "Info" link. It contains two main sections: "VPC" and "Subnet settings".
VPC: This section includes a dropdown for "VPC ID" which is set to "vpc-0f0b630139be821da (my-vpc-1)".
Associated VPC CIDRs: This section shows the "IPv4 CIDRs" as "120.0.0.0/16".
Subnet settings: This section is titled "Specify the CIDR blocks and Availability Zone for the subnet." It contains a table for "Subnet 1 of 2".

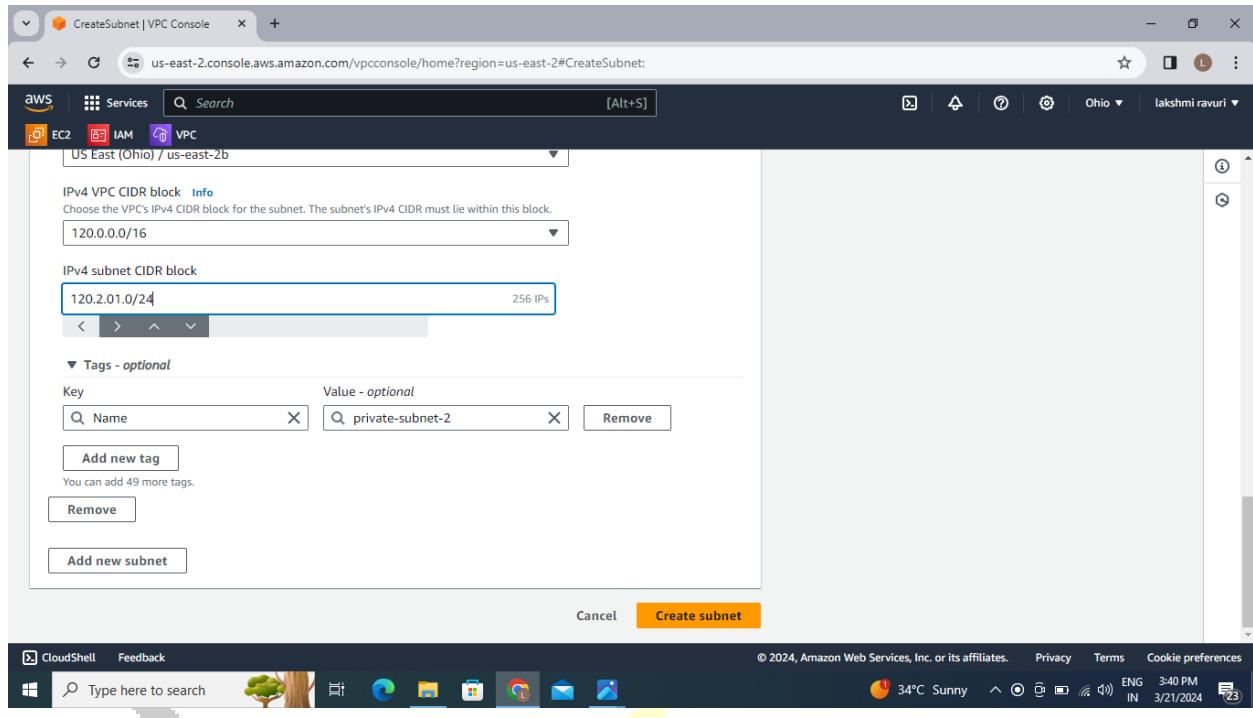
Name	CIDR Block	Availability Zone
public-subnet-2	120.0.24.0/24	us-east-2a
public-subnet-1	120.0.1.0/24	us-east-2a

At the bottom of the page, there is a "CloudShell" button and a status bar with the date and time as "© 2024, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences 34°C Sunny ENG IN 3/21/2024 [23]".

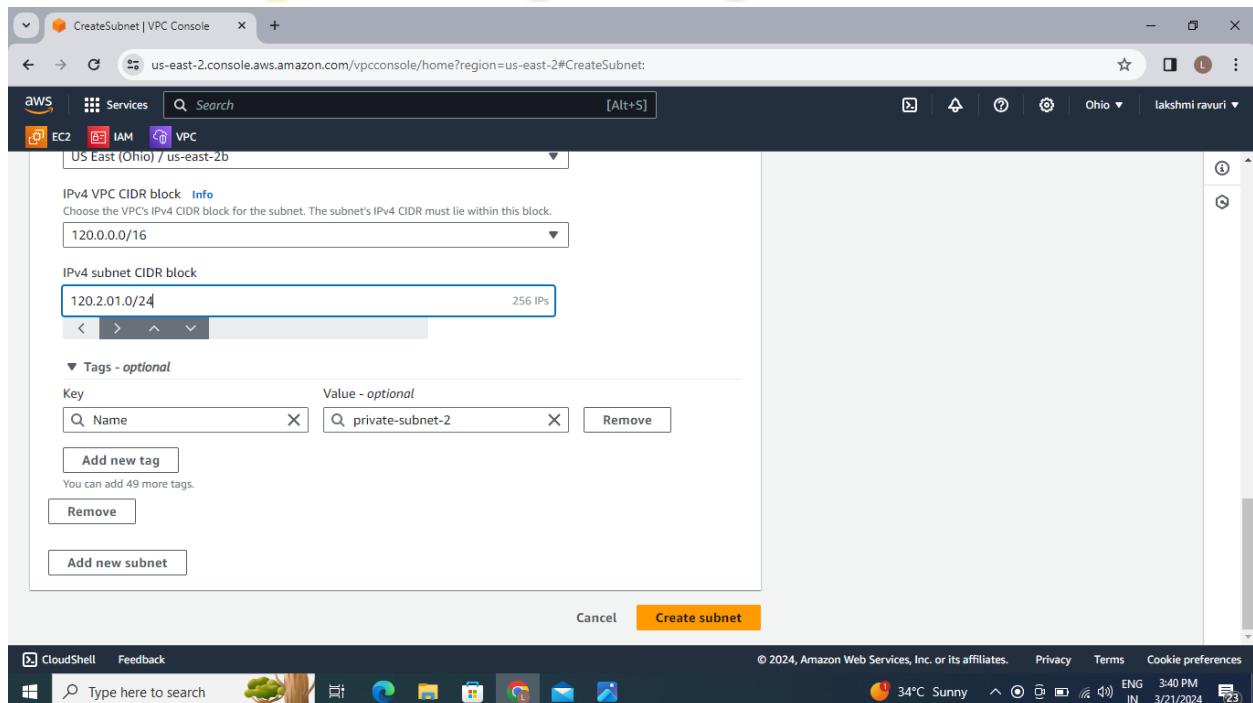


- Go to Subnets and Click on create 2 Private Subnets
- Select our VPC then enter Private subnet name and select One region then ipv4 subnet CIDR Number
- Click on add new subnet

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Screenshot of the AWS VPC Create Subnet console. The page shows the configuration for creating a new subnet within a VPC CIDR block of 120.0.0.0/16. The IPv4 subnet CIDR block is set to 120.2.01.0/24, which provides 256 IP addresses. A tag named "private-subnet-2" is added to the subnet. The "Create subnet" button is highlighted in orange at the bottom right.



Screenshot of the AWS VPC Create Subnet console, identical to the one above. It shows the configuration for creating a new subnet within a VPC CIDR block of 120.0.0.0/16. The IPv4 subnet CIDR block is set to 120.2.01.0/24, which provides 256 IP addresses. A tag named "private-subnet-2" is added to the subnet. The "Create subnet" button is highlighted in orange at the bottom right.

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

The screenshot shows the AWS VPC Console interface. The main area displays a table of subnets with the following data:

Name	Subnet ID	State	VPC	IPv4 CIDR
private-subnet-2	subnet-0176741a43d790764	Available	vpc-0f0b630139be821da my...	120.0.5
private-subnet-1	subnet-07f311540a8f2ac0d	Available	vpc-0f0b630139be821da my...	120.0.9
public-subnet-1	subnet-0c9bfefbc05ea9332	Available	vpc-0f0b630139be821da my...	120.0.1
-	subnet-01eb5555a8c9909c6	Available	vpc-081b4dab4f205fc8f	172.31.

A success message at the top states: "You have successfully created 2 subnets: subnet-07f311540a8f2ac0d, subnet-0176741a43d790764". The left sidebar shows the navigation menu for the VPC dashboard, including 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, and NAT gateways.

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- After Successfully created public and private go to route tables

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

The screenshot shows the AWS VPC Console with the 'Route tables' section selected. On the left, a sidebar lists various VPC-related services like EC2 Global View, Virtual private cloud, and Route tables. The main area displays a table of existing route tables with columns for Name, Route table ID, Explicit subnet associations, Edge associations, and Main status. Three route tables are listed, all marked as 'Yes' for Main.

Name	Route table ID	Explicit subnet assoc...	Edge associations	Main
-	rtb-0862232c5bda6266e	-	-	Yes
-	rtb-07d6a5d234cd320aa	-	-	Yes
-	rtb-0e56d90060b654e48	-	-	Yes

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

The screenshot shows the 'CreateRouteTable' wizard in the AWS VPC Console. The first step, 'Route table settings', is displayed. It asks for a name (optional) and a VPC. The name 'public-rt' is entered, and the VPC 'vpc-0f0b630139be821da (my-vpc-1)' is selected. Below this, a 'Tags' section allows adding key-value pairs. A single tag 'Name: public-rt' is added. At the bottom, there are 'Cancel' and 'Create route table' buttons.

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

The screenshot shows the AWS VPC Console with a success message: "Route table rtb-013434aea4d926e3b | public-rt was created successfully." The URL is us-east-2.console.aws.amazon.com/vpcconsole/home?region=us-east-2#RouteTableDetails:RouteTableId=rtb-013434aea4d926e3b. The left sidebar shows the VPC dashboard and Route tables section. The main content area displays the details of the newly created route table, including its ID, VPC, and routes.

- 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 the AWS VPC Console in the "CreateRouteTable" wizard. The "Route table settings" step is active. It includes fields for the route table name ("private-rt") and the VPC ("vpc-0f0b630139be821da (my-vpc-1)"). The "Tags" step is also visible, allowing the addition of tags like "Name: private-rt". At the bottom, there is a "Create route table" button.

The screenshot shows the AWS VPC Console with the 'Route tables' section selected. The left sidebar includes options like 'Your VPCs', 'Subnets', and 'Route tables'. The main area displays a table of route tables with columns for Name, Route table ID, Explicit subnet associations, Edge associations, and Main status. Five route tables are listed: 'rtb-0862232c5bdab2b6e' (Main), 'rtb-07d6a5d234cd320aa' (Main), 'rtb-0e56d90060b654e48' (Main), 'public-rt' (Main), and 'private-rt' (Main). Below the table is a search bar and a link to 'Select a route table'.

The screenshot shows the details of the 'public-rt' route table. The left sidebar shows the same navigation as the previous screen. The main area has tabs for 'Details' and 'Info'. Under 'Details', it shows the Route table ID as 'rtb-013434aea4d926e3b', Main status as 'No', and associated VPC as 'my-vpc-1'. Below this are tabs for 'Routes', 'Subnet associations' (which is selected), 'Edge associations', 'Route propagation', and 'Tags'. Under 'Subnet associations', there is a table with columns for Name, Subnet ID, IPv4 CIDR, and IPv6 CIDR. A note at the bottom states 'No subnet associations'.

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

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
<input checked="" type="checkbox"/> public-subnet-2	subnet-052c4074203376a9c	120.0.24.0/24	-	Main (rtb-0e56d90060b654e48)
<input type="checkbox"/> private-subnet-2	subnet-0176741a43d790764	120.0.5.0/24	-	Main (rtb-0e56d90060b654e48)
<input type="checkbox"/> private-subnet-1	subnet-07f311540a8f2ac0d	120.0.9.0/24	-	Main (rtb-0e56d90060b654e48)
<input checked="" type="checkbox"/> public-subnet-1	subnet-0c9bfebc05ea9332	120.0.1.0/24	-	Main (rtb-0e56d90060b654e48)

Selected subnets

- subnet-0c9bfebc05ea9332 / public-subnet-1 X
- subnet-052c4074203376a9c / public-subnet-2 X

Actions

Cancel Save associations

RouteTables | VPC Console

us-east-2.console.aws.amazon.com/vpcconsole/home?region=us-east-2#RouteTables:

Route tables (1/5) Info

Name	Route table ID	Explicit subnet associ...	Edge associations	Main
-	rtb-08b2232cd0ab20be	-	-	Yes
-	rtb-07d6a5d234cd320aa	-	-	Yes
-	rtb-0e56d90060b654e48	-	-	Yes
public-rt	rtb-013434aea4d926e3b	2 subnets	-	No
<input checked="" type="checkbox"/> private-rt	rtb-0dd09fe190aaa6126	-	-	No

rtb-0dd09fe190aaa6126 / private-rt

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

Details

Route table ID	Main	Explicit subnet associations	Edge associations
rtb-0dd09fe190aaa6126	No	-	-

Actions

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Route table ID: rtb-0dd09fe190aaa6126

Main: No

VPC: vpc-0f0b630139be821da | my-vpc-1

Owner ID: 891377137975

Explicit subnet associations (0)

No subnet associations

Available subnets (2/4)

Name	Subnet ID	IPv4 CIDR	IPv6 CIDR	Route table ID
public-subnet-2	subnet-052c4074203376a9c	120.0.24.0/24	-	rtb-013434aea4d926e3b / public
private-subnet-2	subnet-0176741a43d790764	120.0.5.0/24	-	Main (rtb-0e56d90060b654e48)
private-subnet-1	subnet-07f311540a8f2ac0d	120.0.9.0/24	-	Main (rtb-0e56d90060b654e48)
public-subnet-1	subnet-0c9bfefbc05ea9332	120.0.1.0/24	-	rtb-013434aea4d926e3b / public

Selected subnets:

- subnet-0176741a43d790764 / private-subnet-2
- subnet-07f311540a8f2ac0d / private-subnet-1

Actions: Edit subnet associations, Save associations

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

The screenshot shows two browser windows for the AWS VPC Console.

Top Window: Internet gateways (2) - Actions

- Left sidebar:** 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).
- Table:**

Name	Internet gateway ID	State	VPC ID
-	igw-0554eb7a1d28e07d7	Attached	vpc-Off2024b8366f0283
-	igw-0813cf72458248294	Attached	vpc-081b4dab4f205fc8f
- Middle section:** Select an internet gateway above.
- Bottom status bar:** © 2024, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences 34°C Sunny ENG IN 3/21/2024

Bottom Window: Create internet gateway - Actions

- Left sidebar:** CloudShell, Feedback, Services (EC2, IAM, VPC).
- Title:** Create internet gateway
- Text:** An internet gateway is a virtual router that connects a VPC to the internet. To create a new internet gateway specify the name for the gateway below.
- Form:**
 - Internet gateway settings:** Name tag (my-igw).
 - Tags - optional:** A tag (Name: my-igw, Value: my-igw).
- Buttons:** Cancel, Create internet gateway.
- Bottom status bar:** © 2024, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences 34°C Sunny ENG IN 3/21/2024

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

The screenshot shows two consecutive screenshots of the AWS VPC Console.

Screenshot 1: InternetGateway | VPC Console

The first screenshot shows the "Internet gateways" section of the VPC console. A message at the top states: "The following internet gateway was created: igw-058e307db855b39b9 - my-igw. You can now attach to a VPC to enable the VPC to communicate with the internet." Below this, the "igw-058e307db855b39b9 / my-igw" details are shown:

Internet gateway ID	State	VPC ID	Owner
igw-058e307db855b39b9	Detached	-	89137...

The "Actions" menu is open, with "Attach to VPC" highlighted. Other options include "Detach from VPC", "Manage tags", and "Delete".

Screenshot 2: Attach internet gateway | VPC

The second screenshot shows the "Attach to VPC" dialog for the internet gateway. The title is "Attach to VPC (igw-058e307db855b39b9) Info". The "VPC" section contains the instruction: "Attach an internet gateway to a VPC to enable the VPC to communicate with the internet. Specify the VPC to attach below." Below this, the "Available VPCs" section lists "vpc-0fb630139be821da - my-vpc-1". A search bar above the list contains "Select a VPC". At the bottom are "Cancel" and "Attach internet gateway" buttons.

- Go to NAT Gateway

The screenshot shows the AWS VPC Console with the URL us-east-2.console.aws.amazon.com/vpcconsole/home?region=us-east-2#InternetGateways. The left sidebar is collapsed, and the main content area displays an Internet gateway named "igw-058e307db855b39b9 / my-igw". The "Details" tab is selected, showing the following information:

Internet gateway ID	State	VPC ID	Owner
igw-058e307db855b39b9	Attached	vpc-0f0b630139be821da my-vpc-1	891377137975

Below the details, there is a "Tags" section with a search bar and a table showing one tag: Name (my-igw). A "Manage tags" button is also present.

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

The screenshot shows the AWS VPC Console with the URL us-east-2.console.aws.amazon.com/vpcconsole/home?region=us-east-2#NatGateways. The left sidebar is collapsed, and the main content area displays a table titled "NAT gateways" with the following columns: Name, NAT gateway ID, Connectivity..., State, State message, and Primary public. The table is currently empty, showing "No NAT gateways found". At the top right of the table, there is a prominent orange "Create NAT gateway" button.

CreateNatGateway | VPC Console

us-east-2.console.aws.amazon.com/vpcconsole/home?region=us-east-2#CreateNatGateway:

AWS Services Search [Alt+S]

EC2 IAM VPC

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

NAT gateway settings

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

The name can be up to 256 characters long.

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

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

Elastic IP allocation ID [Info](#)
Assign an Elastic IP address to the NAT gateway.

Additional settings [Info](#)

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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.

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

Key	Value - optional
<input type="text" value="Name"/> <input type="button" value="X"/>	<input type="text" value="my-nat"/> <input type="button" value="X"/> <input type="button" value="Remove"/>

You can add 49 more tags.

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NAT gateway nat-02372795a29b2d7c0 | my-nat was created successfully.

[VPC](#) > [NAT gateways](#) > nat-02372795a29b2d7c0

nat-02372795a29b2d7c0 / my-nat

Details			
NAT gateway ID nat-02372795a29b2d7c0	Connectivity type Public	State Pending	State message -
NAT gateway ARN arn:aws:ec2:us-east-2:891377137975:natgateway/nat-02372795a29b2d7c0	Primary public IPv4 address -	Primary private IPv4 address -	Primary network interface ID -
VPC vpc-0f0b630139be821da / my-vpc-1	Subnet subnet-0c9bfefbc05ea9332 / public-subnet-1	Created Thursday, March 21, 2024 at 15:48:49 GMT+5:30	Deleted -

[Secondary IPv4 addresses](#) | [Monitoring](#) | [Tags](#)

Secondary IPv4 addresses

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- Go to Route Tables and add routes to the tables

RouteTables | VPC Console

us-east-2.console.aws.com/vpcconsole/home?region=us-east-2#RouteTables:

[VPC](#) [Services](#) [Search](#) [Alt+S]

Route tables (1/5) [Info](#)

Name	Route table ID	Explicit subnet associations
-	rtb-0862232c5bda6266e	-
-	rtb-07d6a5d234cd320aa	-
-	rtb-0e56d90060b654e48	-
<input checked="" type="checkbox"/> public-rt	rtb-013434aea4d926e3b	2 subnets
<input type="checkbox"/> private-rt	rtb-0fd09fe190aaa6126	2 subnets

rtb-013434aea4d926e3b / public-rt

[Details](#) | [Routes](#) | [Subnet associations](#) | [Edge associations](#) | [Route propagation](#) | [Tags](#)

Details

Route table ID	Main	Explicit subnet associations	Edge associations
rtb-013434aea4d926e3b	No	2 subnets	-

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- 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 Edit Routes interface. A modal window titled "Edit routes" is open, showing three new routes being added to a public route table. The routes are:

Destination	Target	Status	Propagated
120.0.0.0/16	local	Active	No
Q 0.0.0.0/0	Internet Gateway	-	No
Q 0.0.0.24	NAT Gateway	-	No

The "Add route" button is visible at the bottom left of the modal. Below the modal, the main VPC Route Tables page shows the updated route table details. A green success message says "Updated routes for rtb-013434aea4d926e3b / public-rt successfully". The route table ID is rtb-013434aea4d926e3b, and it has 2 subnets associated.

RouteTables | VPC Console

us-east-2.console.aws.amazon.com/vpcconsole/home?region=us-east-2#RouteTables:

VPC dashboard EC2 Global View Services Search [Alt+S]

EC2 IAM VPC

Route tables (1/5) Info

Name Route table ID Explicit subnet associations

- rtb-U9b2zzC5Dab2bb6
- rtb-07d6a5d234cd320aa
- rtb-0e56d90060b654e48
- public-rt rtb-013434aea4d926e3b 2 subnets
- private-rt rtb-0dd09fe190aaa6126 2 subnets

Actions Create route table

View details Set main route table Main

Edit subnet associations Edit edge associations Yes

Edit edge associations Edit route propagation Yes

Edit route propagation

Edit routes No

Manage tags No

Delete route table

rtb-0dd09fe190aaa6126 / private-rt

Details Routes Subnet associations Edge associations Route propagation Tags

Details

Route table ID rtb-0dd09fe190aaa6126 Main Explicit subnet associations 2 subnets Edge associations -

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EditRoutes | VPC Console

us-east-2.console.aws.amazon.com/vpcconsole/home?region=us-east-2#EditRoutes:RouteTableId=rtb-0dd09fe190aaa6126

VPC Services Search [Alt+S]

EC2 IAM VPC

VPC > Route tables > rtb-0dd09fe190aaa6126 > Edit routes

Edit routes

Destination	Target	Status	Propagated
120.0.0.0/16	local	Active	No
0.0.0.0/0	NAT Gateway	-	No
	nat-02372795a29b2d7c0		

Add route Remove

Cancel Preview Save changes

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CloudShell Feedback Type here to search 34°C Sunny ENG 3:51 PM IN 3/21/2024

The screenshot shows the AWS VPC Console interface. The left sidebar is collapsed, and the main area displays the details of a route table named "rtb-0dd09fe190aaa6126 / private-rt". A green notification bar at the top states "Updated routes for rtb-0dd09fe190aaa6126 / private-rt successfully". The "Details" tab is selected, showing the following information:

Route table ID	Main	Explicit subnet associations	Edge associations
rtb-0dd09fe190aaa6126	No	2 subnets	-
VPC	Owner ID		
vpc-0f0b630139be821da my-vpc-1	891377137975		

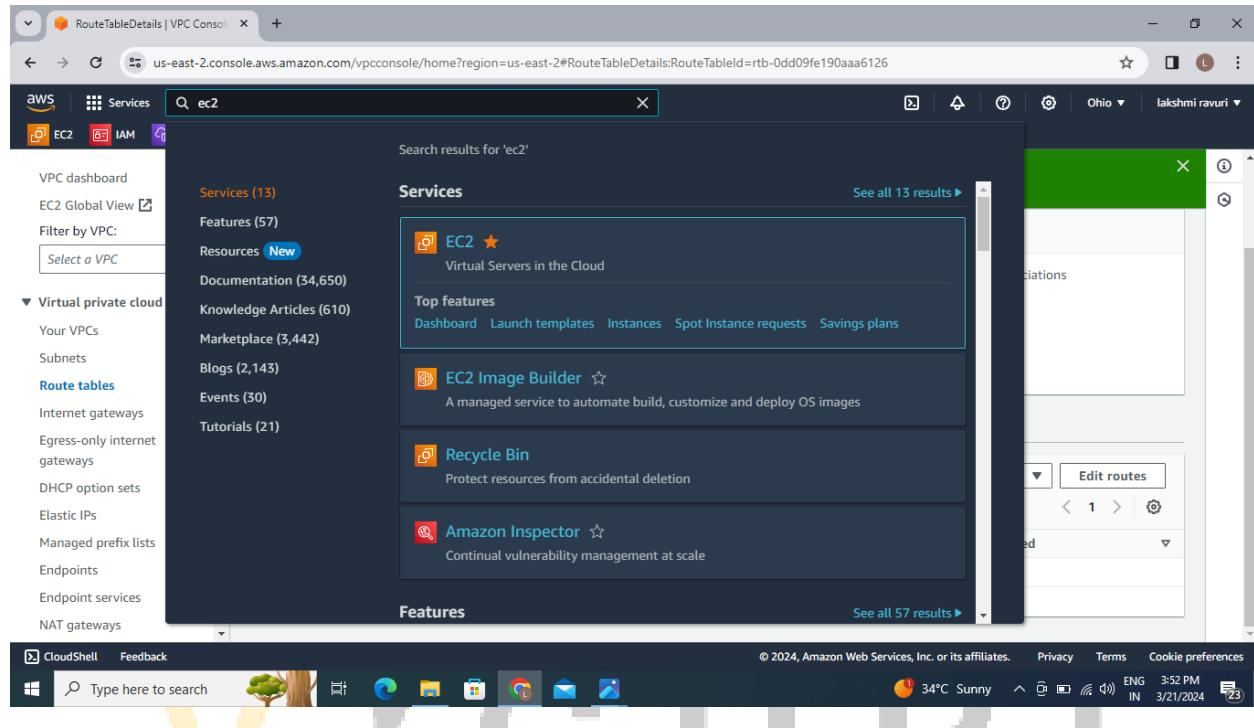
Below the details, there are tabs for "Routes", "Subnet associations", "Edge associations", "Route propagation", and "Tags". The "Routes" tab is selected, showing two routes:

Destination	Target	Status	Propagated
0.0.0.0/0	nat-02372795a29b2d7c0	Active	No
120.0.0.0/16	local	Active	No

The bottom of the screen shows the Windows taskbar with various pinned icons and the system tray indicating the date and time as 3/21/2024.

- 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
- 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

The screenshot shows the AWS EC2 Home page for the US East (Ohio) Region. The left sidebar includes links for EC2 Dashboard, EC2 Global View, Events, Instances (with sub-links for Instances, Instance Types, Launch Templates, Spot Requests, Savings Plans, Reserved Instances, Dedicated Hosts, Capacity Reservations, and New), and Images (AMIs, AMI Catalog). The main content area displays a summary of resources: Instances (running) 0, Auto Scaling Groups 0, Dedicated Hosts 0, Elastic IPs 1, Instances 0, Key pairs 3, Load balancers 0, Placement groups 0, Security groups 6, Snapshots 0, and Volumes 0. Below this is a 'Launch instance' button and a 'Service health' section with a link to the AWS Health Dashboard. A sidebar on the right provides information about EC2 Free Tier offers, including a note that 3 offers are in use, and details about Linux EC2 Instances and EBS Snapshot Usage.

EC2 Free Tier Info
Offers for all AWS Regions.

3 EC2 free tier offers in use
End of month forecast
⚠️ 2 offers forecasted to exceed free tier limit.
Exceeds free tier
⚠️ 2 offers exceeded and is now pay-as-you-go pricing.
[View Global EC2 resources](#)

Offer usage (monthly)

Linux EC2 Instances
739.458888 hours remaining
1%
EBS Snapshot Usage
100%

Instances Info

Find Instance by attribute or tag (case-sensitive)

Instance state = running

No matching instances found

Select an instance

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RouteTableDetails | VPC Console

Launch an instance | EC2 | us-east-2

us-east-2.console.aws.amazon.com/ec2/home?region=us-east-2#LaunchInstances:

AWS Services Search [Alt+S]

EC2 IAM VPC

EC2 Instances Launch an instance

Launch an instance Info

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

Name and tags Info

Name 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

Summary

Number of instances Info

Software Image (AMI)
Canonical, Ubuntu, 22.04 LTS, ...read more
ami-0b8b44ec9a8f90422

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

CloudShell Feedback Type here to search 34°C Sunny ENG IN 3/21/2024

RouteTableDetails | VPC Console

Launch an instance | EC2 | us-east-2

us-east-2.console.aws.amazon.com/ec2/home?region=us-east-2#LaunchInstances:

AWS Services Search [Alt+S]

EC2 IAM VPC

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Amazon Machine Image (AMI)

Ubuntu Server 22.04 LTS (HVM), SSD Volume Type
ami-0b8b44ec9a8f90422 (64-bit (x86)) / ami-0000456e99b2b6a9d (64-bit (Arm))
Virtualization: hvm ENA enabled: true Root device type: ebs

Free tier eligible

Description
Canonical, Ubuntu, 22.04 LTS, amd64 jammy image build on 2024-03-01

Architecture AMI ID Verified provider

Instance type Info | Get advice

Instance type

Summary

Number of instances Info

Software Image (AMI)
Canonical, Ubuntu, 22.04 LTS, ...read more
ami-0b8b44ec9a8f90422

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

CloudShell Feedback Type here to search 34°C Sunny ENG IN 3/21/2024

RouteTableDetails | VPC Console

Launch an instance | EC2 | us-east-2

us-east-2.console.aws.amazon.com/ec2/home?region=us-east-2#LaunchInstances:

AWS Services Search [Alt+S]

EC2 IAM VPC

All generations Compare instance types

Family: t2 1 vCPU 1 GiB Memory Current generation: true
On-Demand Linux base pricing: 0.0116 USD per Hour
On-Demand SUSE base pricing: 0.0116 USD per Hour
On-Demand Windows base pricing: 0.0162 USD per Hour
On-Demand RHEL base pricing: 0.0716 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.

Key pair name - required

key Create new key pair

▼ Network settings Info

VPC - required

vpc-0fb630139be821da (my-vpc-1)

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RouteTableDetails | VPC Console

Launch an instance | EC2 | us-east-2

us-east-2.console.aws.amazon.com/ec2/home?region=us-east-2#LaunchInstances:

AWS Services Search [Alt+S]

EC2 IAM VPC

VPC - required

vpc-0fb630139be821da (my-vpc-1) 120.0.0.1/16

Subnet

private-subnet-1 subnet-07f311540a8f2ac0d VPC: vpc-0fb630139be821da Owner: 891377137975 Availability Zone: us-east-2a IP addresses available: 251 CIDR: 120.0.9.0/24

Create new subnet

Auto-assign public IP

Info Disable

Firewall (security groups)

Info Create security group Select existing security group

Security group name - required

launch-wizard-4 This security group will be added to all network interfaces. The name can't be edited after the security group is created. Max length is 255 characters. Valid characters: a-z, A-Z, 0-9, spaces, and _-:/()#@[]+=;&|^\$*

Description - required

Info launch-wizard-4 created 2024-03-21T10:22:46.644Z

CloudShell Feedback Type here to search 34°C Sunny 3:55 PM IN 3/21/2024

Summary

Number of instances Info 1

Software Image (AMI) Canonical, Ubuntu, 22.04 LTS, ...read more ami-0bb44ec9a8f90422

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 | us-east-2 | +

us-east-2.console.aws.amazon.com/ec2/home?region=us-east-2#LaunchInstances:

AWS Services Search [Alt+S]

EC2 IAM VPC

Security group rule 1 (TCP, 22, 0.0.0.0/0)

Type Info Protocol Info Port range Info

ssh TCP 22

Source type Info Source Info Description - optional Info

Anywhere Add CIDR, prefix list or security e.g. SSH for admin desktop

0.0.0.0/0 X

Rules with source of 0.0.0.0/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only.

Add security group rule Advanced network configuration

Configure storage Info Advanced

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RouteTableDetails | VPC Console | Launch an instance | EC2 | us-east-2 | +

us-east-2.console.aws.amazon.com/ec2/home?region=us-east-2#LaunchInstances:

AWS Services Search [Alt+S]

EC2 IAM VPC

EC2 Instances Launch an instance

Launching instance Launch initiation 79%

Details Please wait while we launch your instance. Do not close your browser while this is loading.

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RouteTableDetails | VPC Console Instances | EC2 | us-east-2

us-east-2.console.aws.amazon.com/ec2/home?region=us-east-2#Instances:

AWS Services Search [Alt+S]

Ohio lakshmi ravuri

EC2 Dashboard Instances (1) Info

Find Instance by attribute or tag (case-sensitive)

All states

Name Instance ID Instance state Instance type Status check Alarm status Availability Zone

ec2-1 i-041de5978434528e1 Pending - - View alarms + us-east-2a

Select an instance

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RouteTableDetails | VPC Console Instances | EC2 | us-east-2

us-east-2.console.aws.amazon.com/ec2/home?region=us-east-2#Instances:

AWS Services Search [Alt+S]

Ohio lakshmi ravuri

EC2 Dashboard Instances (1) Info

Find Instance by attribute or tag (case-sensitive)

All states

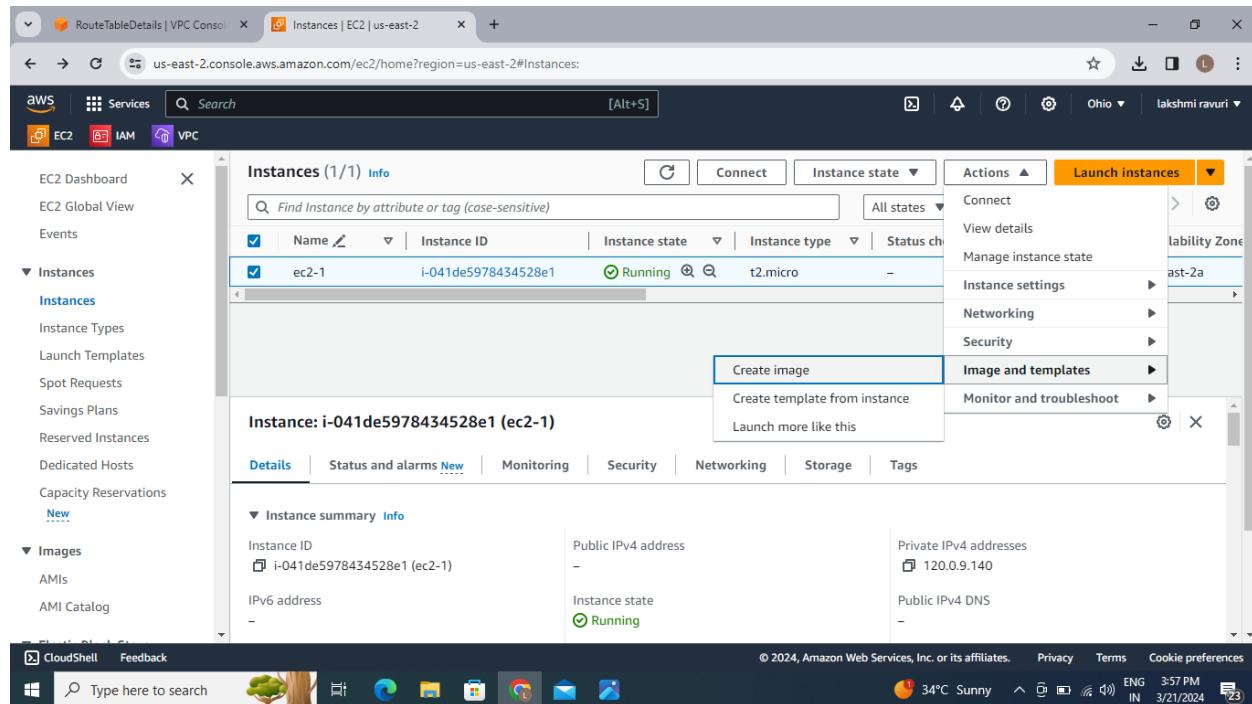
Name Instance ID Instance state Instance type Status check Alarm status Availability Zone

ec2-1 i-041de5978434528e1 Running - - View alarms + us-east-2a

Select an instance

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



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RouteTableDetails | VPC Console Create Image | EC2 | us-east-2 +

us-east-2.console.aws.amazon.com/ec2/home?region=us-east-2#CreateImage:instanceId=i-041de5978434528e1

AWS Services Search [Alt+S] Ohio lakshmi ravuri

Create Image Info

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-041de5978434528e1 (ec2-1)							
Image name	<input type="text" value="myimage"/>							
Maximum 127 characters. Can't be modified after creation.								
Image description - optional	<input type="text" value="Image description"/>							
Maximum 255 characters								
No reboot	<input type="checkbox"/> Enable							
Instance volumes								
Storage type	Device	Snapshot	Size	Volume type	IOPS	Throughput	Delete on termination	Encrypted
/dev/sda1			8 GiB	EBS General Purpose S...	100	100 MiB/s	<input checked="" type="checkbox"/>	<input type="checkbox"/>

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RouteTableDetails | VPC Console Create Image | EC2 | us-east-2 +

us-east-2.console.aws.amazon.com/ec2/home?region=us-east-2#CreateImage:instanceId=i-041de5978434528e1

AWS Services Search [Alt+S] Ohio lakshmi ravuri

Create new snapshot from volume

/dev/sda1 Create new snapshot from volume 8 EBS General Purpose S... 100 Enable Enable

Volume

During the image creation process, Amazon EC2 creates a snapshot of each of the above volumes.

optional
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.

Tag image and snapshots together
Tag the image and the snapshots with the same tag.

Tag image and snapshots separately
Tag the image and the snapshots with different tags.

Tags associated with the resource.

Add new tag
You can add up to 50 more tags.

Create image Cancel

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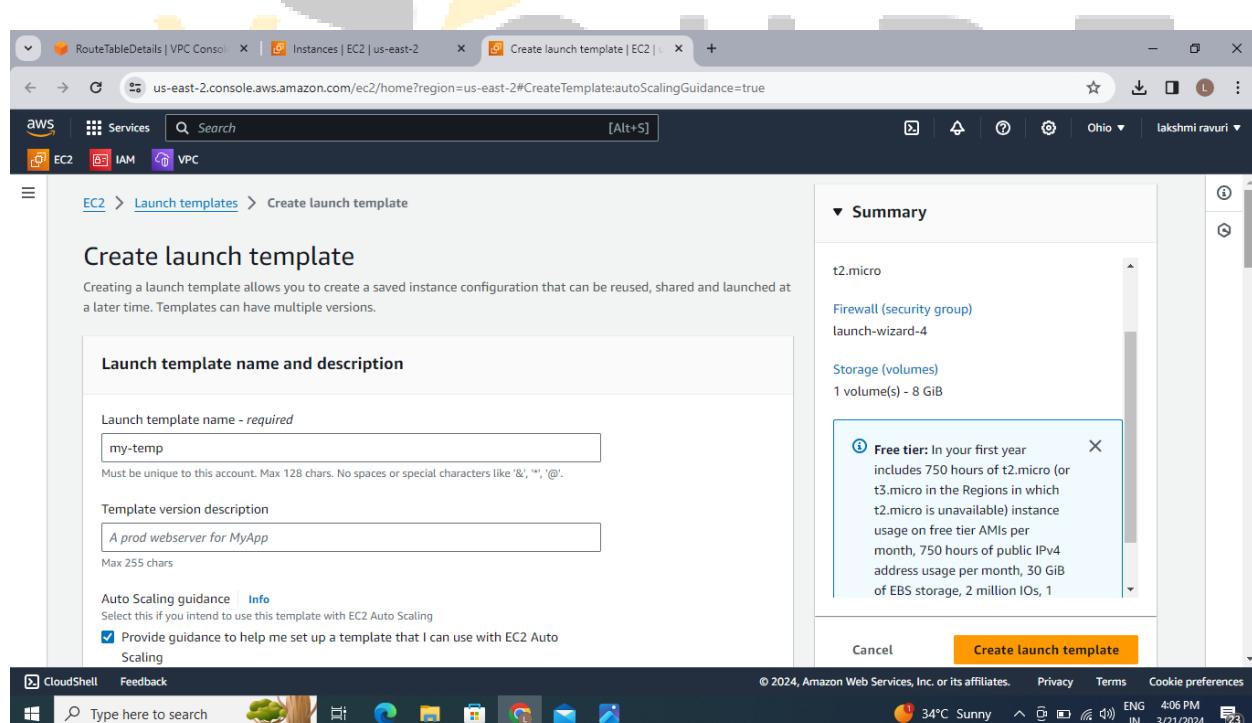
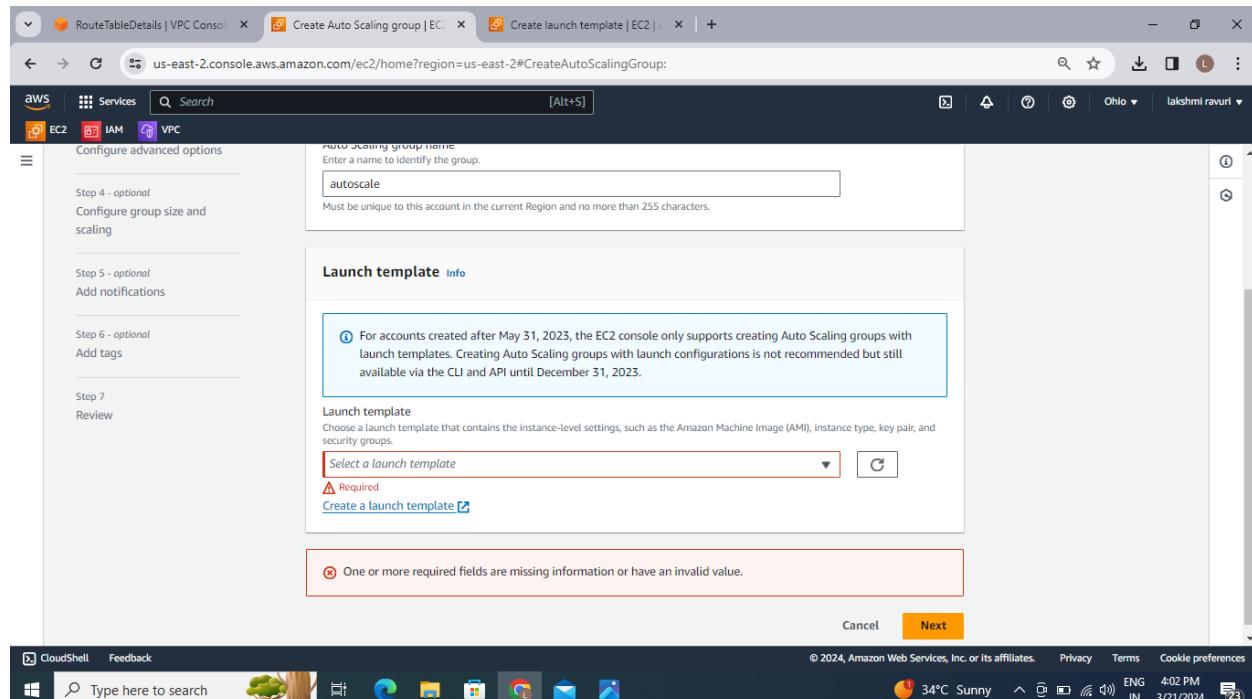
The screenshot shows the AWS EC2 Instances page. A green banner at the top states: "Currently creating AMI ami-03320fd5c5f01e4bc from instance i-041de5978434528e1. Check that the AMI status is 'Available' before deleting the instance or carrying out other actions related to this AMI." Below this, the "Instances (1) Info" section shows one instance: "ec2-1" (Instance ID: i-041de5978434528e1), which is "Running". The instance type is "t2.micro" and its status is "Initializing". There are buttons for "Connect", "Actions", and "Launch instances". A modal window titled "Select an instance" is open, showing the same instance "ec2-1". The left sidebar includes sections for EC2 Dashboard, EC2 Global View, Events, Instances (with sub-options like Instance Types, Launch Templates, Spot Requests, Savings Plans, Reserved Instances, Dedicated Hosts, Capacity Reservations, and New), Images (AMIs, AMI Catalog), and CloudShell.

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

The screenshot shows the AWS Auto Scaling Groups page. The main heading is "Amazon EC2 Auto Scaling" with the subtext "helps maintain the availability of your applications". A call-to-action box says "Create Auto Scaling group". Below it, a description of Auto Scaling groups is provided: "Auto Scaling groups are collections of Amazon EC2 instances that enable automatic scaling and fleet management features. These features help you maintain the health and availability of your applications." At the bottom, there are sections for "How it works" and "Pricing". The left sidebar includes sections for Volumes, Snapshots, Lifecycle Manager, Network & Security (Security Groups, Elastic IPs, Placement Groups, Key Pairs, Network Interfaces), Load Balancing (Load Balancers, Target Groups, Trust Stores), and Auto Scaling (Auto Scaling Groups).

- 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.



RouteTableDetails | VPC Console | Instances | EC2 | us-east-2 | Create launch template | EC2 | +

us-east-2.console.aws.amazon.com/ec2/home?region=us-east-2#CreateTemplate:autoScalingGuidance=true

AWS Services Search [Alt+S]

EC2 IAM VPC

Source template

Launch template contents

Specify the details of your launch template below. Leaving a field blank will result in the field not being included in the launch template.

Application and OS Images (Amazon Machine Image) - required [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

Recents My AMIs Quick Start

Owned by me Shared with me

Browse more AMIs

Including AMIs from AWS, Marketplace and the Community

Summary

t2.micro

Firewall (security group) launch-wizard-4

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, 750 hours of public IPv4 address usage per month, 30 GB of EBS storage, 2 million I/Os, 1 GB of snapshots, and 100 GB of bandwidth to the internet.

Back Forward Reload Save as... Print... Cast... Search images with Google

Send to your devices Create QR code for this page Translate to English Open in reading mode NEW

View page source View frame source Reload frame Inspect

Cancel Create launch template

CloudShell Feedback Type here to search

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RouteTableDetails | VPC Console | Instances | EC2 | us-east-2 | Create launch template | EC2 | +

us-east-2.console.aws.amazon.com/ec2/home?region=us-east-2#CreateTemplate:autoScalingGuidance=true

AWS Services Search [Alt+S]

EC2 IAM VPC

Amazon Machine Image (AMI)

myimage ami-03320fd5c5f01e4bc 2024-03-21T10:28:01.000Z Virtualization: hvm ENA enabled: true Root device type: ebs

Description

-

Architecture x86_64 AMI ID ami-03320fd5c5f01e4bc

Instance type [Info](#) | [Get advice](#) Advanced

Instance type t2.micro Family: t2 1 vCPU 1 GiB Memory Current generation: true Free tier eligible

On-Demand Linux base pricing: 0.0116 USD per Hour
On-Demand SUSE base pricing: 0.0116 USD per Hour
On-Demand Windows base pricing: 0.0162 USD per Hour
On-Demand RHEL base pricing: 0.0716 USD per Hour

All generations Compare instance types

Summary

launch-wizard-4

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, 750 hours of public IPv4 address usage per month, 30 GB of EBS storage, 2 million I/Os, 1 GB of snapshots, and 100 GB of bandwidth to the internet.

Create launch template

CloudShell Feedback Type here to search

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RouteTableDetails | VPC Console | Instances | EC2 | us-east-2 | Create launch template | EC2 | +

us-east-2.console.aws.amazon.com/ec2/home?region=us-east-2#CreateTemplate:autoScalingGuidance=true

AWS Services Search [Alt+S]

EC2 IAM VPC

before you launch the instance.

Key pair name: key

Network settings Info

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: launch-wizard-4 sg-08bea67a4625bd9c2

VPC: vpc-0fb630139be821da

CloudShell Feedback Type here to search

Summary

launch-wizard-4

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, 750 hours of public IPv4 address usage per month, 30 GB of EBS storage, 2 million IOs, 1 GB of snapshots, and 100 GB of bandwidth to the internet.

Create launch template

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RouteTableDetails | VPC Console | Instances | EC2 | us-east-2 | Create launch template | EC2 | +

us-east-2.console.aws.amazon.com/ec2/home?region=us-east-2#CreateTemplate:autoScalingGuidance=true

AWS Services Search [Alt+S]

EC2 IAM VPC

Advanced network configuration

Storage (volumes) Info

EBS Volumes Hide details

Volume 1 (AMI Root) (8 GiB, EBS, General purpose SSD (gp2))
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

The selected AMI contains more instance store volumes than the instance allows. Only the first 0 instance store volumes from the AMI will be accessible from the instance

Resource tags Info

CloudShell Feedback Type here to search

Summary

launch-wizard-4

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, 750 hours of public IPv4 address usage per month, 30 GB of EBS storage, 2 million IOs, 1 GB of snapshots, and 100 GB of bandwidth to the internet.

Create launch template

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The screenshot shows a browser window with three tabs open: 'RouteTableDetails | VPC Console', 'Instances | EC2 | us-east-2', and 'Create launch template | EC2'. The main content area displays a green success message: 'Successfully created my-temp(lt-0aad2e8186458bf07).'. Below this, there's a link to 'Actions log' and a 'Next Steps' section. The 'Launch an instance' step is highlighted, with a sub-link 'Launch instance from this template'. The 'Create an Auto Scaling group from your template' step is also present. At the bottom of the page, there are links for 'CloudShell', 'Feedback', and a search bar. The footer includes copyright information, privacy terms, cookie preferences, and system status.

-
- 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

RouteTableDetails | VPC Console | Create Auto Scaling group | EC2 | Create launch template | EC2 | + us-east-2.console.aws.amazon.com/ec2/home?region=us-east-2#CreateAutoScalingGroup: AWS Services Search [Alt+S] Ohio lakshmi ravuri

EC2 IAM VPC

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

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.

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RouteTableDetails | VPC Console | Create Auto Scaling group | EC2 | Create launch template | EC2 | + us-east-2.console.aws.amazon.com/ec2/home?region=us-east-2#CreateAutoScalingGroup: AWS Services Search [Alt+S] Ohio lakshmi ravuri

EC2 IAM VPC

my-temp

Create a launch template

Version Default (1)

Create a launch template version

Description	Launch template my-temp <input checked="" type="checkbox"/> lt-0aad2e8186458bf07	Instance type t2.micro
AMI ID	ami-03320fd5c5f01e4bc	Security groups
Key pair name	key	Security group IDs sg-08bea67a4625bd9c2 <input checked="" type="checkbox"/>

Additional details

Storage (volumes)	Date created Thu Mar 21 2024 16:07:51 GMT+0530 (India Standard Time)
-------------------	--

Cancel

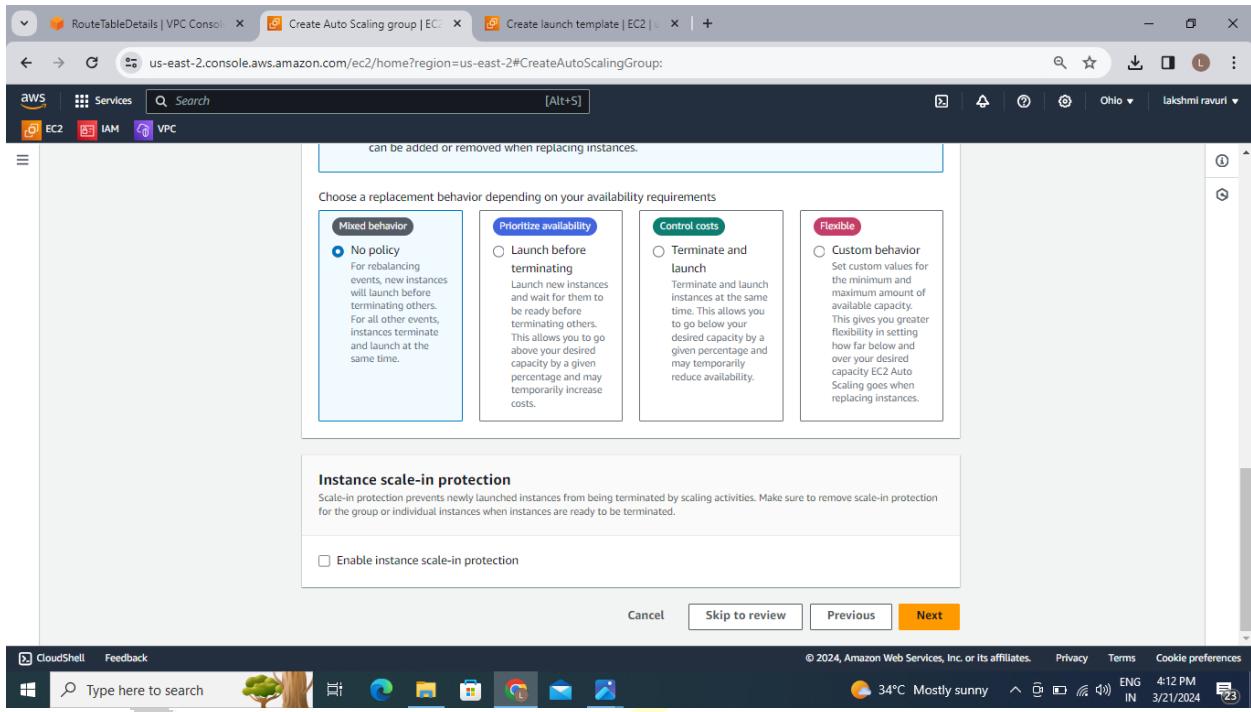
CloudShell Feedback Type here to search © 2024, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences 34°C Sunny ENG 4:09 PM IN 3/21/2024

RouteTableDetails | VPC Console | Create Auto Scaling group | EC2 | Create launch template | EC2 | + us-east-2.console.aws.amazon.com/ec2/home?region=us-east-2#CreateAutoScalingGroup: Search [Alt+S] Services AWS [AWS] EC2 IAM VPC 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-0fb630139be821da (my-vpc-1) 120.0.0.0/16 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 us-east-2a | subnet-0c9bfe7bc05ea9332 (public-subnet-1) 120.0.1.0/24 us-east-2b | subnet-052c4074205376a9c (public-subnet-2) 120.0.24.0/24 Create a subnet Cancel Skip to review Previous Next © 2024, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences 34°C Mostly sunny ENG IN 4:11 PM 3/21/2024

RouteTableDetails | VPC Console | Create Auto Scaling group | EC2 | Create launch template | EC2 | + us-east-2.console.aws.amazon.com/ec2/home?region=us-east-2#CreateAutoScalingGroup: Search [Alt+S] Services AWS [AWS] EC2 IAM VPC 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. Turn on VPC Lattice health checks VPC Lattice can monitor whether instances are available to handle requests. If it considers a target as failed a health check, EC2 Auto Scaling replaces it after 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. 60 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 © 2024, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences 34°C Mostly sunny ENG IN 4:11 PM 3/21/2024

RouteTableDetails | VPC Console | Create Auto Scaling group | EC2 | Create launch template | EC2 | + us-east-2.console.aws.amazon.com/ec2/home?region=us-east-2#CreateAutoScalingGroup: AWS Services Search [Alt+S] Services EC2 IAM VPC Search 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 Group size Info Set the initial size of the Auto Scaling group. After creating the group, you can change its size to meet demand, either manually or by using automatic scaling. Desired capacity type Choose the unit of measurement for the desired capacity value. vCPUs and Memory(GB) are only supported for mixed instances groups configured with a set of instance attributes. Units (number of instances) Desired capacity Specify your group size. 2 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 2 Max desired capacity 5 Equal or less than desired capacity Equal or greater than desired capacity Automatic scaling - optional © 2024, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences CloudShell Feedback Type here to search 34°C Mostly sunny ENG IN 4:11 PM 3/21/2024

RouteTableDetails | VPC Console | Create Auto Scaling group | EC2 | Create launch template | EC2 | + us-east-2.console.aws.amazon.com/ec2/home?region=us-east-2#CreateAutoScalingGroup: AWS Services Search [Alt+S] Services EC2 IAM VPC Search Choose whether to use a target tracking policy | Info You can set up other metric-based scaling policies and scheduled scaling after creating your Auto Scaling group. No scaling policies Your Auto Scaling group will remain at its initial size and will not dynamically resize to meet demand. Target tracking scaling policy Choose a CloudWatch metric and target value and let the scaling policy adjust the desired capacity in proportion to the metric's value. Instance maintenance policy - new | Info Control your Auto Scaling group's availability during instance replacement events. This includes health checks, instance refreshes, maximum instance lifetime features and events that happen automatically to keep your group balanced, called rebalancing events. Control availability and cost during replacement events An instance maintenance policy determines how much availability your application has when EC2 Auto Scaling replaces instances. It also establishes guardrails that limit the amount of capacity that can be added or removed when replacing instances. Choose a replacement behavior depending on your availability requirements Mixed behavior No policy For rebalancing events, new instances will launch before terminating others. For all other events, Prioritize availability Launch before terminating Launch new instances and wait for them to be ready before terminating others. Control costs Terminate and launch Terminate and launch instances at the same time. This allows you to no longer use Flexible Custom behavior Set custom values for the minimum and maximum amount of available capacity. This gives you greater © 2024, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences CloudShell Feedback Type here to search 34°C Mostly sunny ENG IN 4:12 PM 3/21/2024



- Enter Desired Capacity then enter min and max desired capacity then click on next
- 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 | Create Auto Scaling group | EC2 | Create launch template | EC2 | us-east-2.console.aws.amazon.com/ec2/home?region=us-east-2#CreateAutoScalingGroup: AWS Services Search [Alt+S] Ohio | lakshmi ravuri | ...

EC2 Services Search [Alt+S]

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

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

CloudShell Feedback Type here to search 34°C Mostly sunny ENG 4:12 PM IN 3/21/2024

RouteTableDetails | VPC Console | Create Auto Scaling group | EC2 | Create launch template | EC2 | us-east-2.console.aws.amazon.com/ec2/home?region=us-east-2#CreateAutoScalingGroup: AWS Services Search [Alt+S] Ohio | lakshmi ravuri | ...

EC2 Services Search [Alt+S]

EC2 Auto Scaling groups Create Auto Scaling group

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

Scaling group.

▼ Notification 1 Remove

Send a notification to autoscale

With these recipients lakshmiraj67@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

CloudShell Feedback Type here to search 34°C Mostly sunny ENG 4:13 PM IN 3/21/2024

The screenshot shows the AWS EC2 Auto Scaling group creation wizard at Step 4: Add tags - optional. The left sidebar lists steps from 1 to 7. Step 4 is currently selected. A callout box highlights a note: "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." Below this is a "Tags (0)" section with an "Add tag" button and a note "50 remaining". At the bottom are "Cancel", "Previous", and "Next" buttons.

The screenshot shows the AWS EC2 Auto Scaling group creation wizard at Step 5: Add notifications. It includes sections for "Notifications" (Notification 1: SNS Topic autoscale (lakshmira67@gmail.com)) and "Event types" (Launch, Terminate, Fail to launch, Fail to terminate). Below is Step 6: Add tags, which shows a "Tags (0)" section with a table for adding tags. At the bottom are "Cancel", "Previous", and "Create Auto Scaling group" buttons.

The screenshot shows the AWS EC2 Auto Scaling groups page. At the top, there are three tabs: 'RouteTableDetails | VPC Console', 'Auto Scaling groups | EC2 | us-east-2', and 'Create launch template | EC2'. The main content area has a search bar and navigation buttons for 'Launch configurations', 'Launch templates', and 'Actions'. A prominent orange button at the top right says 'Create Auto Scaling group'. Below this, a table lists one Auto Scaling group: 'autoscalling' (my-temp | Version Default), with 2 instances, a status of '-', a desired capacity of 2, and a min/max range of 2-5. The bottom of the page shows a message '0 Auto Scaling groups selected'.

- 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

This screenshot is identical to the one above, showing the AWS EC2 Auto Scaling groups page with one group named 'autoscalling'. The interface, table data, and overall layout are the same.

Screenshot of the AWS EC2 Instances page showing three running t2.micro instances.

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone
	i-0fd76ad21a9267e9	Running	t2.micro	...	View alarms +	us-east-2a
ec2-1	i-041de5978434528e1	Running	t2.micro	...	View alarms +	us-east-2a
	i-07ec10fc3d44cd2d1	Running	t2.micro	...	View alarms +	us-east-2b

Select an instance

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Screenshot of the AWS Create Auto Scaling group wizard Step 4 - optional.

Step 4 - optional
Configure group size and scaling

Step 5 - optional
Add notifications

Step 6 - optional
Add tags

Step 7
Review

Launch template Info

autoscaling-2
Must be unique to this account in the current Region and no more than 255 characters.

Launch template

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.

my-temp

Create a launch template

Version

Default (1)

Create a launch template version

Description

Launch template

Instance type

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RouteTableDetails | VPC Console | Create Auto Scaling group | EC2 | Create launch template | EC2 | Instances | EC2 | us-east-2

us-east-2.console.aws.amazon.com/ec2/home?region=us-east-2#CreateAutoScalingGroup:

AWS Services Search [Alt+S]

EC2 IAM VPC

Version Default (1) Create a launch template version

Description - Launch template my-temp lt-0aad2e8186458bf07

AMI ID ami-03320fd5c5f01e4bc Security groups - Request Spot Instances No

Key pair name key Security group IDs sg-08bea67a4625bd9c2

Additional details Storage (volumes) Date created Thu Mar 21 2024 16:07:51 GMT+0530 (India Standard Time)

Cancel Next

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RouteTableDetails | VPC Console | Create Auto Scaling group | EC2 | Create launch template | EC2 | Instances | EC2 | us-east-2

us-east-2.console.aws.amazon.com/ec2/home?region=us-east-2#CreateAutoScalingGroup:

AWS Services Search [Alt+S]

EC2 IAM VPC

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-0fb630139be821da (my-vpc-1) 120.0.0.0/16 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 us-east-2a | subnet-07f311540a8f2ac0d (private-subnet-1) 120.0.9.0/24 us-east-2b | subnet-0176741a43d790764 (private-subnet-2) 120.0.5.0/24 Create a subnet

Cancel Skip to review Previous Next

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RouteTableDetails | VPC Console | Create Auto Scaling group | EC2 | Create launch template | EC2 | Instances | EC2 | us-east-2 | +

us-east-2.console.aws.amazon.com/ec2/home?region=us-east-2#CreateAutoScalingGroup:

AWS Services Search [Alt+S]

EC2 IAM VPC

Turn on VPC Lattice health checks
VPC Lattice can monitor whether instances are available to handle requests. If it considers a target as failed a health check, EC2 Auto Scaling replaces it after its next periodic check.

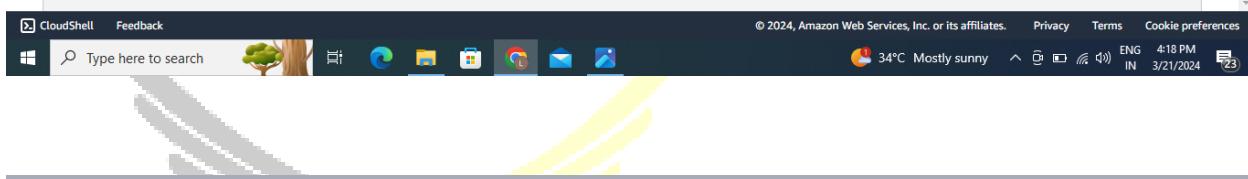
Health check grace period | Info
This time period delays the first health check until your instances finish initializing. It doesn't prevent an instance from terminating when placed into a non-running state.
60 seconds

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



RouteTableDetails | VPC Console | Create Auto Scaling group | EC2 | Create launch template | EC2 | Instances | EC2 | us-east-2 | +

us-east-2.console.aws.amazon.com/ec2/home?region=us-east-2#CreateAutoScalingGroup:

AWS Services Search [Alt+S]

EC2 IAM VPC

Choose a replacement behavior depending on your availability requirements

Mixed behavior
 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



RouteTableDetails | VPC Console | Create Auto Scaling group | EC2 | Create launch template | EC2 | Instances | EC2 | us-east-2

us-east-2.console.aws.amazon.com/ec2/home?region=us-east-2#CreateAutoScalingGroup:

AWS Services Search [Alt+S]

EC2 IAM VPC

Scaling group.

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

SNS Topic Choose an SNS topic to use to send notifications
autoscale (lakshmira67@gmail.com)

Create a topic

Event types Notify subscribers whenever instances

Launch
 Terminate
 Fail to launch
 Fail to terminate

Add notification Remove

Cancel Skip to review Previous Next

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RouteTableDetails | VPC Console | Create Auto Scaling group | EC2 | Create launch template | EC2 | Instances | EC2 | us-east-2

us-east-2.console.aws.amazon.com/ec2/home?region=us-east-2#CreateAutoScalingGroup:

AWS Services Search [Alt+S]

EC2 IAM VPC

Notifications

Notification 1

SNS Topic
autoscale (lakshmira67@gmail.com)

Event types

Launch
 Terminate
 Fail to launch
 Fail to terminate

Step 6: Add tags

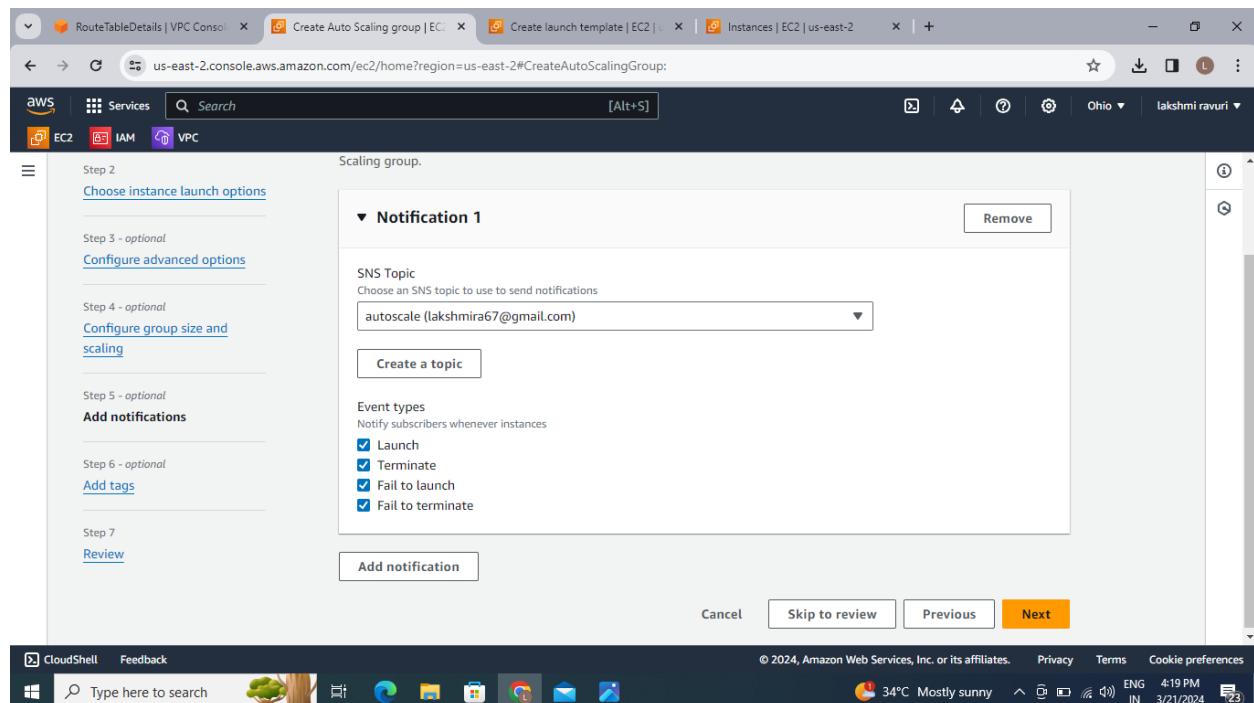
Tags (0)

Key	Value	Tag new instances
No tags		

Cancel Previous Create Auto Scaling group

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- Enter Desired Capacity then enter min and max desired capacity then click on next
- Click on Add notification and create topic
- Enter topic name and enter email id then next
- Click on create auto scaling group.



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RouteTableDetails | VPC Console | Create Auto Scaling group | EC2 | Create launch template | EC2 | Instances | EC2 | us-east-2

us-east-2.console.aws.amazon.com/ec2/home?region=us-east-2#CreateAutoScalingGroup:

AWS Services Search [Alt+S]

EC2 IAM VPC

Notifications

Notification 1
SNS Topic
autoscale (lakshmi67@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

CloudShell Feedback

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RouteTableDetails | VPC Console | Auto Scaling groups | EC2 | us-east-2 | Create launch template | EC2 | Instances | EC2 | us-east-2

us-east-2.console.aws.amazon.com/ec2/home?region=us-east-2#Instances:v=3;case=tags:true%5C.client:false;\$regex=tags:false%5C.client:false

AWS Services Search [Alt+S]

EC2 IAM VPC

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

Instances (3) Info

Connect Instance state Actions Launch instances

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone
i-0fd76ad21a9267e9	i-0fd76ad21a9267e9	Running	t2.micro	...	View alarms +	us-east-2a
ec2-1	i-041de5978434528e1	Running	t2.micro	...	View alarms +	us-east-2a
	i-07ec10fc3d44cd2d1	Running	t2.micro	...	View alarms +	us-east-2b

Select an instance

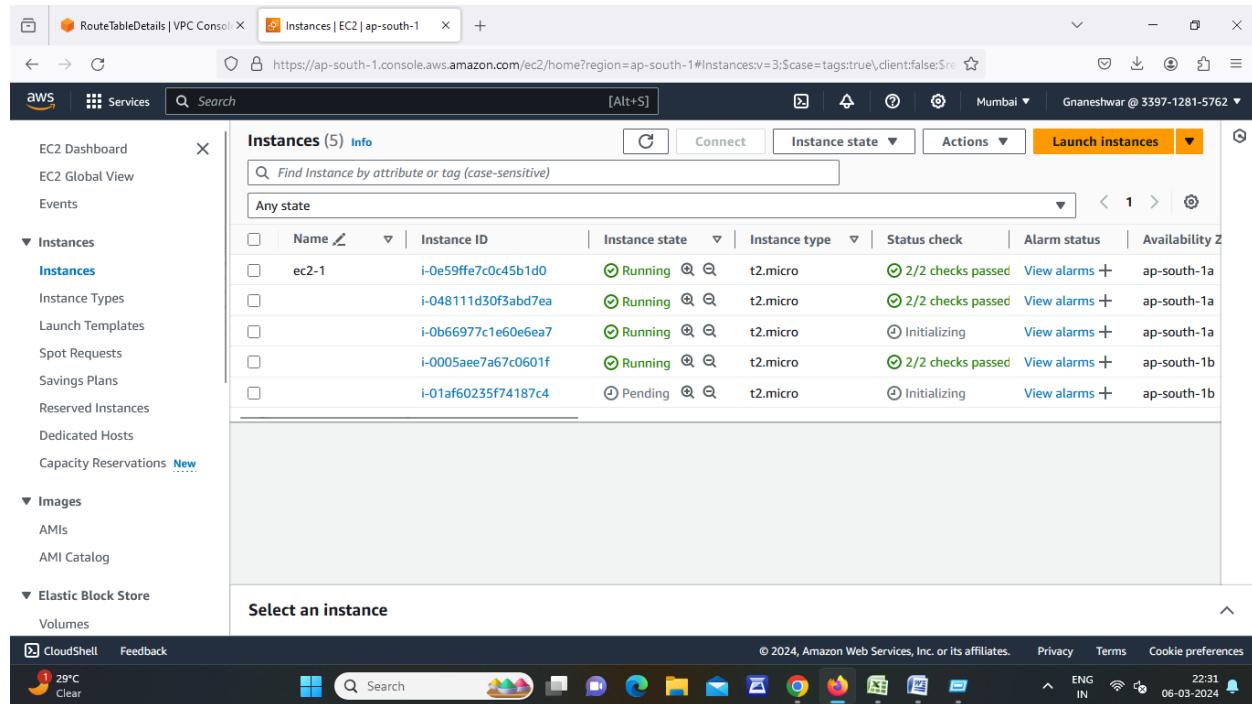
CloudShell Feedback

Type here to search

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



The screenshot shows the AWS EC2 Instances page with the following details:

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-0005aee7a67c0601f	Running	t2.micro	2/2 checks passed	View alarms	ap-south-1b
	i-01af60235f74187c4	Pending	t2.micro	Initializing	View alarms	ap-south-1b

Below the table, there is a section titled "Select an instance". The bottom of the screen shows the AWS navigation bar and system tray.

- Now go to VPC and create private subnets for RDS

CreateSubnet | VPC Console Auto Scaling groups | EC2 | us-east-2 Create launch template | EC2 | us-east-2 Instances | EC2 | us-east-2

us-east-2.console.aws.amazon.com/vpcconsole/home?region=us-east-2#CreateSubnet:

AWS Services ec2

EC2 IAM VPC

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

The name can be up to 256 characters long.

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

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

IPv4 subnet CIDR block
 256 IPs
< > ^ v

Tags - optional

Key	Value - optional
<input type="text" value="Name"/>	<input type="text" value="private-subnet-3"/>

[Add new tag](#)

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CreateSubnet | VPC Console Auto Scaling groups | EC2 | us-east-2 Create launch template | EC2 | us-east-2 Instances | EC2 | us-east-2

us-east-2.console.aws.amazon.com/vpcconsole/home?region=us-east-2#CreateSubnet:

AWS Services ec2

EC2 IAM VPC

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

IPv4 subnet CIDR block
 256 IPs
< > ^ v

Tags - optional

Key	Value - optional
<input type="text" value="Name"/>	<input type="text" value="private-subnet-4"/>

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

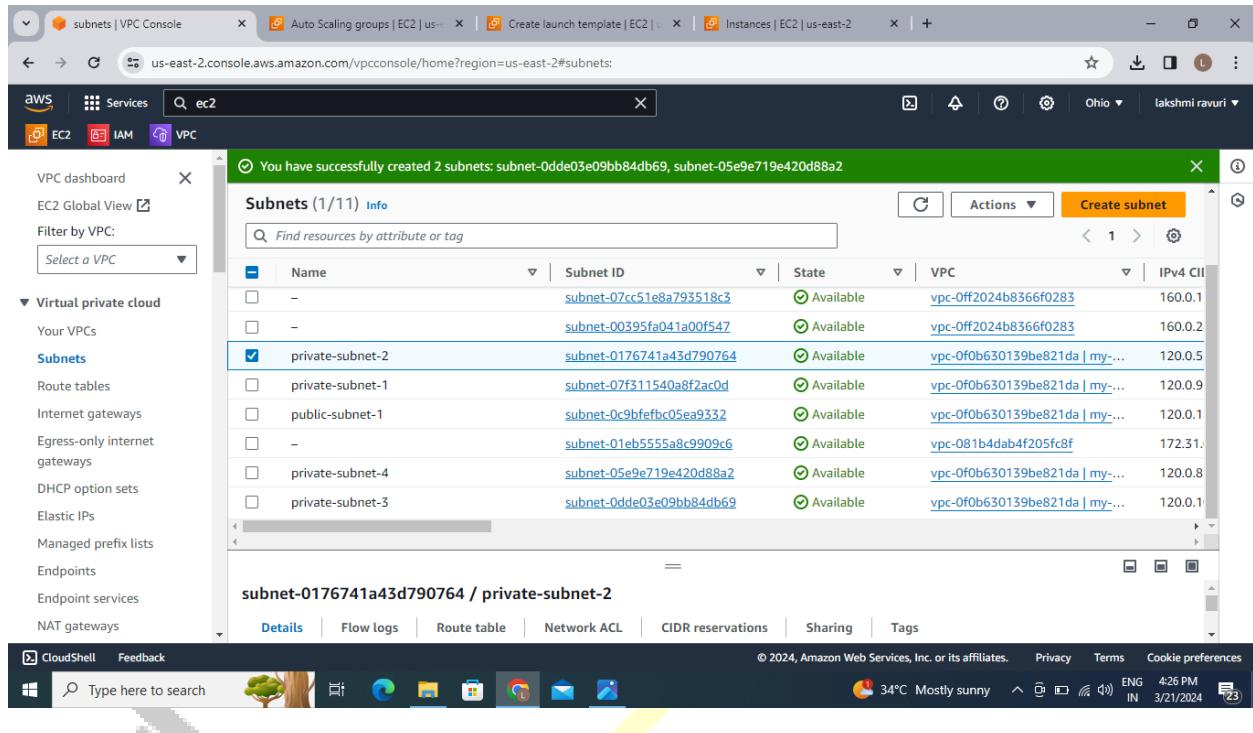
[Remove](#)

[Add new subnet](#)

Cancel [Create subnet](#)

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You have successfully created 2 subnets: subnet-0dde03e09bb84db69, subnet-05e9e719e420d88a2

Subnets (1/11) Info

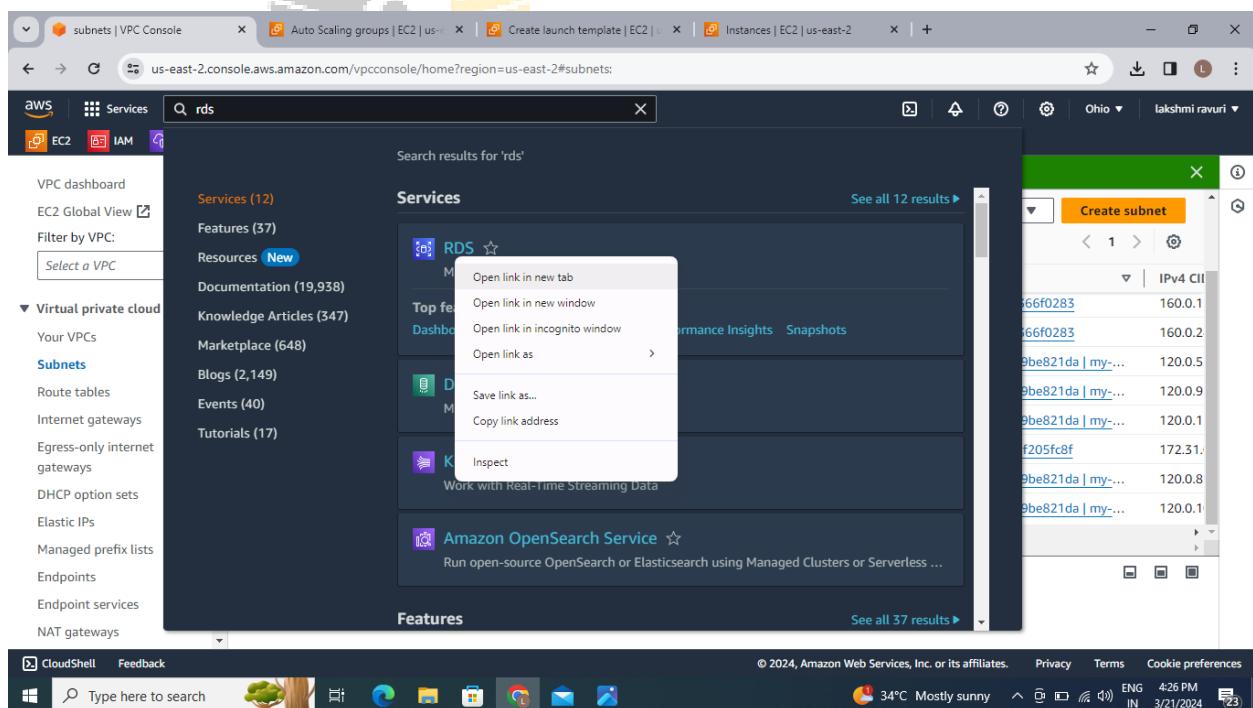
Name	Subnet ID	State	VPC	IPv4 CIDR
-	subnet-07cc51e8a793518c3	Available	vpc-0ff2024b8366f0283	160.0.1
-	subnet-00395fa041a00f547	Available	vpc-0ff2024b8366f0283	160.0.2
<input checked="" type="checkbox"/> private-subnet-2	subnet-0176741a43d790764	Available	vpc-0fb630139be821da my...	120.0.5
private-subnet-1	subnet-07f811540a8f2ac0d	Available	vpc-0fb630139be821da my...	120.0.9
public-subnet-1	subnet-0c9bfefbc05ea9332	Available	vpc-0fb630139be821da my...	120.0.1
-	subnet-01eb5555a8c9909c6	Available	vpc-081b4dab4f205fc8f	172.31.
private-subnet-4	subnet-05e9e719e420d88a2	Available	vpc-0fb630139be821da my...	120.0.8
private-subnet-3	subnet-0dde03e09bb84db69	Available	vpc-0fb630139be821da my...	120.0.1

subnet-0176741a43d790764 / private-subnet-2

Details Flow logs Route table Network ACL CIDR reservations Sharing Tags

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- Now go to RDS



Search results for 'rds'

Services See all 12 results ▶

Service	Description	Actions
RDS	Manage your relational databases	Open link in new tab Open link in new window Open link in incognito window Open link as... Save link as... Copy link address
Amazon OpenSearch Service	Run open-source OpenSearch or Elasticsearch using Managed Clusters or Serverless ...	

Features See all 37 results ▶

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- 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 East (Ohio) region. The main page features a sidebar with various links such as Dashboard, Databases, and Subnet groups. A prominent message at the top introduces the Aurora I/O-Optimized feature, encouraging users to try the new Multi-AZ deployment option for MySQL and PostgreSQL. Below this, there are sections for DB Instances, Parameter groups, and DB Clusters, each with their respective counts and options to increase limits or view details. The bottom half of the screen is dedicated to the 'Subnet groups' section, which currently shows 'No db subnet groups'. It includes a search bar, a table header with columns for Name, Description, Status, and VPC, and a large 'Create DB subnet group' button.

us-east-2.console.aws.amazon.com/rds/home?region=us-east-2#create-db-subnet-group:

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.

The screenshot shows the Windows 10 taskbar at the bottom of the screen. On the left, there's a search bar with the placeholder "Type here to search". To its right are several pinned icons: File Explorer, Microsoft Edge, File History, Mail, Photos, and OneDrive. On the far right of the taskbar are the system clock (4:30 PM), date (3/21/2024), battery status (23%), and volume level.

subnets | VPC Console x RDS | us-east-2 x Auto Scaling groups | EC2 x Create launch template | EC2 x Instances | EC2 | us-east-2 x +

us-east-2.console.aws.amazon.com/rds/home?region=us-east-2#create-db-subnet-group:

aws Services Search [Alt+S]

EC IAM VPC

Choose an availability zone

us-east-2a us-east-2b

Subnets

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

Select subnets

subnet-07f311540a8f2ac0d (120.0.9.0/24) X

subnet-0dde03e09bb84db69 (120.0.10.0/24) X

subnet-052c40742033769c (120.0.24.0/24) X

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-2a	subnet-07f311540a8f2ac0d	120.0.9.0/24
us-east-2a	subnet-0dde03e09bb84db69	120.0.10.0/24
us-east-2b	subnet-052c40742033769c	120.0.24.0/24

Create

The screenshot shows the AWS RDS Subnet Groups page. A green success message at the top says "Successfully created mydbsubnet. View subnet group". Below it, a table titled "Subnet groups (1)" lists one entry:

Name	Description	Status	VPC
mydbsubnet	allow	Complete	vpc-0f0b630139be821da

The left sidebar shows navigation options like Dashboard, Databases, Query Editor, etc., and a "Subnet groups" section. The bottom status bar shows the date and time as 3/21/2024 4:31 PM.

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

The screenshot shows the AWS RDS Databases page. A blue info bar at the top says "Introducing Aurora I/O-Optimized" and provides a link to the Aurora User Guide.

The main area shows a message: "Consider creating a Blue/Green Deployment to minimize downtime during upgrades" with links to the RDS User Guide and Aurora User Guide.

A table titled "Databases (0)" is displayed, showing the following columns: DB identifier, Status, Role, Engine, Region & AZ, Size, and Recommendations. A search bar and filter options are also present.

The bottom status bar shows the date and time as 3/21/2024 4:31 PM.

subnets | VPC Console RDS | us-east-2 Auto Scaling groups | EC2 Create launch template | EC Instances | EC2 | us-east-2

us-east-2.console.aws.amazon.com/rds/home?region=us-east-2#launch-dbinstance:

AWS Services Search [Alt+S]

Ohio lakshmi ravuri

Create database

Choose a database creation method

Standard create
You set all of the configuration options, including ones for availability, security, backups, and maintenance.

Easy create
Use recommended best-practice configurations. Some configuration options can be changed after the database is created.

Engine options

Engine type [Info](#)

Aurora (MySQL Compatible) 

Aurora (PostgreSQL Compatible) 

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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

subnets | VPC Console RDS | us-east-2 Auto Scaling groups | EC2 Create launch template | EC Instances | EC2 | us-east-2

us-east-2.console.aws.amazon.com/rds/home?region=us-east-2#launch-dbinstance:

AWS Services Search [Alt+S]

Ohio lakshmi ravuri

Known issues/limitations

Review the [Known issues/limitations](#) to learn about potential compatibility issues with specific database versions.

Engine version [Info](#)

View the engine versions that support the following database features.

Show filters

Engine Version MySQL 8.0.35

Templates

Choose a sample template to meet your use case.

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.

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subnets | VPC Console RDS | us-east-2 Auto Scaling groups | EC2 | Instances | EC2 | us-east-2 Create launch template | EC2 | Instances | EC2 | us-east-2

us-east-2.console.aws.amazon.com/rds/home?region=us-east-2#launch-dbinstance:

aws Services Search [Alt+S]

EC2 IAM VPC

DB instance identifier [Info](#) Type a name for your DB instance. The name must be unique across all DB instances owned by your AWS account in the current AWS Region.

database-1

The DB instance identifier is case-insensitive, but is stored as all lowercase (as in "mydbinstance"). Constraints: 1 to 60 alphanumeric characters or hyphens. First character must be a letter. Can't contain two consecutive hyphens. Can't end with a hyphen.

Credentials Settings

Master username [Info](#) Type a login ID for the master user of your DB instance.

admin

1 to 16 alphanumeric characters. The first character must be a letter.

Credentials management You can use AWS Secrets Manager or manage your master user credentials.

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](#)

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subnets | VPC Console RDS | us-east-2 Auto Scaling groups | EC2 | Instances | EC2 | us-east-2 Create launch template | EC2 | Instances | EC2 | us-east-2

us-east-2.console.aws.amazon.com/rds/home?region=us-east-2#launch-dbinstance:

aws Services Search [Alt+S]

EC2 IAM VPC

db.m5g.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

Allocated storage [Info](#) 400 GiB The minimum value is 100 GiB and the maximum value is 65,536 GiB

After you modify the storage for a DB instance, the status of the DB instance will be in storage-optimization. Your instance will remain available as the storage-optimization operation completes. [Learn more](#)

Provisioned IOPS [Info](#) 3000 IOPS The minimum value is 1,000 IOPS and the maximum value is 256,000 IOPS. The IOPS to GiB ratio must be between 0.5 and 50

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subnets | VPC Console RDS | us-east-2 Auto Scaling groups | EC2 | Create launch template | EC2 Instances | EC2 | us-east-2

us-east-2.console.aws.amazon.com/rds/home?region=us-east-2#launch-dbinstance:

AWS Services Search [Alt+S]

EC2 IAM VPC

Connectivity Info

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-1 (vpc-0fb630139be821da)
6 Subnets, 2 Availability Zones

Only VPCs with a corresponding DB subnet group are listed.

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subnets | VPC Console RDS | us-east-2 Auto Scaling groups | EC2 | Create launch template | EC2 Instances | EC2 | us-east-2

us-east-2.console.aws.amazon.com/rds/home?region=us-east-2#launch-dbinstance:

AWS Services Search [Alt+S]

EC2 IAM VPC

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-4 X

RDS Proxy

RDS Proxy is a fully managed, highly available database proxy that improves application scalability, resiliency, and security.

Create an RDS Proxy Info
RDS automatically creates an IAM role and a Secrets Manager secret for the proxy. RDS Proxy has additional costs. For more information, see [Amazon RDS Proxy pricing](#).

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 22, 2061

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MySQL

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The screenshot shows the AWS RDS MySQL launch configuration page. In the 'Database authentication' section, 'Password authentication' is selected. Below it, there are three other options: 'Password and IAM database authentication' and 'Password and Kerberos authentication' are disabled, while 'Authenticates using database passwords' is enabled. In the 'Monitoring' section, 'Performance Insights' is listed with a note: 'Enabling Performance Insights will automatically enable the MySQL Community performance schema.' A blue button labeled 'Learn more' is present. The right sidebar contains a summary of MySQL features.

The screenshot shows the AWS RDS MySQL launch configuration page. In the 'Additional configuration' section, 'Enhanced Monitoring' is selected. Below it, another 'Additional configuration' section is shown with the note: 'Database options, encryption turned on, backup turned on, backtrack turned off, maintenance, CloudWatch Logs, delete protection turned on.' In the 'Estimated Monthly costs' section, there is no visible cost information. The right sidebar contains a summary of MySQL features.

The screenshot shows the AWS RDS MySQL creation wizard. It displays estimated monthly costs for a DB instance, storage, and provisioned IOPS, totaling 972.29 USD. A note states that the estimate is based on on-demand usage and does not include costs for backup storage, I/Os, or data transfer. A link to the AWS Simple Monthly Calculator is provided. A warning message indicates that users are responsible for ensuring they have necessary rights for third-party products or services. The 'Create database' button is visible at the bottom right.

- 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 AWS RDS Databases page. A modal dialog box is open, introducing Aurora I/O-Optimized, which offers predictable pricing and improved price-performance. Another modal dialog provides information about creating a Blue/Green Deployment to minimize downtime during upgrades. The main table lists a single database entry: 'database-1' (Creating, MySQL Community, db.m6gd.large). The 'Create database' button is located at the top right of the table area.

The screenshot shows the AWS RDS console interface. On the left, there is a navigation sidebar with links like Dashboard, Databases, 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 has tabs for Connected compute resources (0) and Proxies (0). Under Connected compute resources, it says "No connected compute resources". Under Proxies, it also says "No proxies found". At the bottom, there are buttons for Set up EC2 connection and Set up Lambda connection.

Connected compute resources (0)

No connected compute resources

Proxies (0)

No proxies found

Set up EC2 connection **Set up Lambda connection**

This screenshot shows the "Set up EC2 connection" step of the RDS setup wizard. It's Step 1 of 2. The database selected is "database-1". The EC2 instance dropdown shows "i-041de5978434528e1" and "ec2-1 us-east-2a". A "Create EC2 instance" button is available. At the bottom are "Cancel" and "Continue" buttons.

Step 1

Set up EC2 connection

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-041de5978434528e1
ec2-1 us-east-2a

Create EC2 instance

Cancel **Continue**

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.

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

Changes to RDS database: database-1

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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#setup-ec2-connection:id=database-1#

Amazon RDS Databases View details X Connection setup successfully for RDS database database-1 and EC2 instance i-03af6cc11b3cdf587

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	Available	Instance	MySQL Community	us-east-1a	db.m6gd.large

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RDS | us-east-2 Auto Scaling groups | EC2 subnets | VPC Console Create launch template | EC2 Instances | EC2 | us-east-2

us-east-2.console.aws.amazon.com/rds/home?region=us-east-2#setup-ec2-connection:id=database-1

AWS Services Search [Alt+S]

EC2 IAM VPC

Changes to RDS database: database-1

Attribute	Current value	New value
Security group	launch-wizard-4	launch-wizard-4, rds-ec2-1

Changes to EC2 instance: i-041de5978434528e1

Attribute	Current value	New value
Security group	launch-wizard-4	launch-wizard-4, ec2-rds-1

⚠ Cross-Availability Zone (AZ) charges might apply
The RDS database database-1 (us-east-2b) and EC2 instance i-041de5978434528e1 (us-east-2a) are in different AZs. Cross AZ charges might apply. [Data transfer within same Region](#)

Cancel Previous Set up

CloudShell Feedback Type here to search 33°C Mostly sunny ENG 4:57 PM IN 3/21/2024

Databases | RDS | us-east-2 Auto Scaling groups | EC2 subnets | VPC Console Create launch template | EC2 Instances | EC2 | us-east-2

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

AWS Services Search [Alt+S]

EC2 IAM VPC

Amazon RDS

Introducing Aurora I/O-Optimized
Aurora's I/O-Optimized is a new cluster storage configuration that offers predictable pricing for all applications and improved price-performance, with up to 40% costs savings for I/O-intensive applications.

RDS > Databases

Consider creating a Blue/Green Deployment to minimize downtime during upgrades
You may want to consider using Amazon RDS Blue/Green Deployments and minimize your downtime during upgrades. A Blue/Green Deployment provides a staging environment for changes to production databases. [RDS User Guide](#) [Aurora User Guide](#)

Databases (1)

DB identifier	Status	Role	Engine	Region & AZ	Size	Recommendations
database-1	Backing-up	Instance	MySQL Community	us-east-2b	db.m6gd.large	

CloudShell Feedback Type here to search 33°C Mostly sunny ENG 5:10 PM IN 3/21/2024

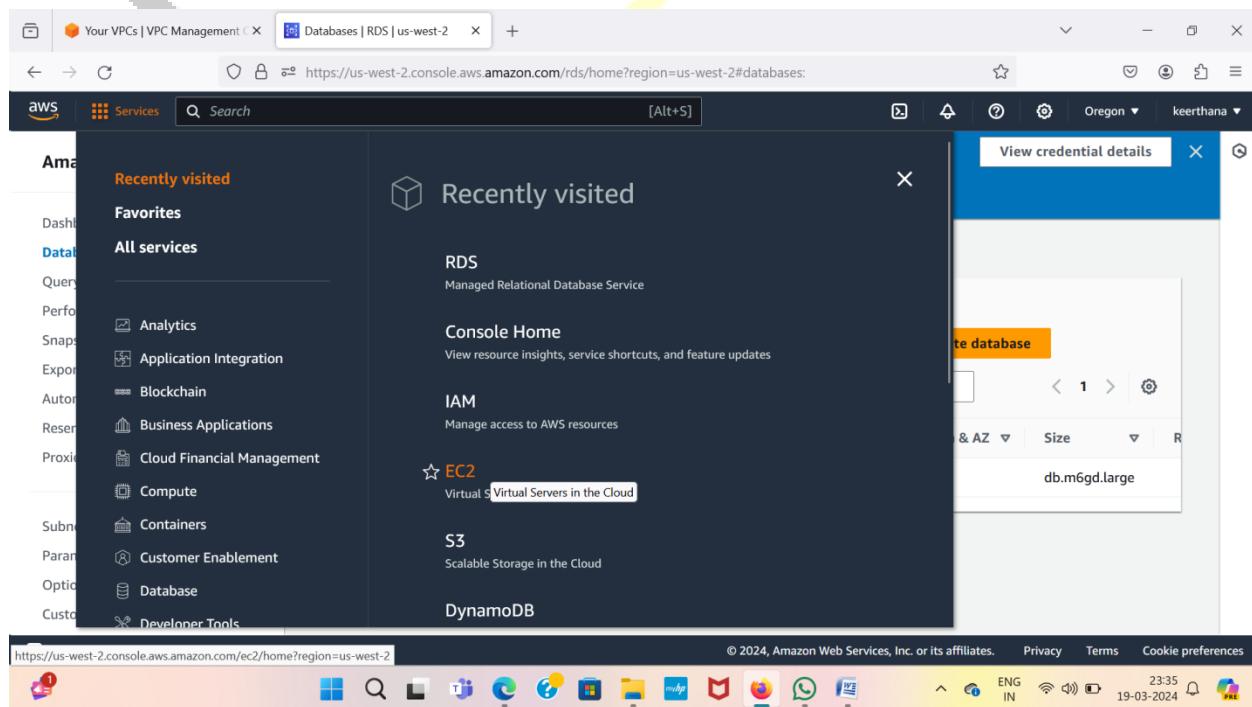
After Creating database go to ec2 instance then connect

Install mysql-server command is

```
sudo apt update -y
```

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

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

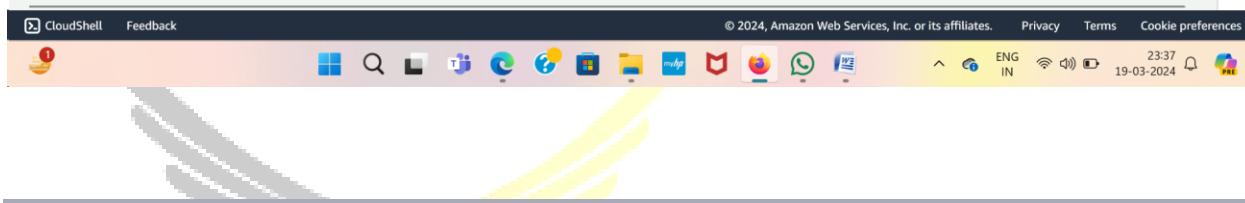


root@ip-120-0-12-81:~# sudo apt update -y

```
Get:1 http://us-west-2.ec2.archive.ubuntu.com/ubuntu jammy InRelease  
Get:2 http://us-west-2.ec2.archive.ubuntu.com/ubuntu jammy-updates InRelease [119 kB]  
Get:3 http://us-west-2.ec2.archive.ubuntu.com/ubuntu jammy-backports InRelease [109 kB]  
Get:4 http://us-west-2.ec2.archive.ubuntu.com/ubuntu jammy/universe amd64 Packages [14.1 MB]  
Get:5 http://security.ubuntu.com/ubuntu jammy-security InRelease [110 kB]  
Get:6 http://us-west-2.ec2.archive.ubuntu.com/ubuntu jammy/universe Translation-en [5652 kB]  
Get:7 http://us-west-2.ec2.archive.ubuntu.com/ubuntu jammy/universe amd64 c-n-f Metadata [286 kB]  
Get:8 http://us-west-2.ec2.archive.ubuntu.com/ubuntu jammy/multiverse amd64 Packages [217 kB]  
Get:9 http://us-west-2.ec2.archive.ubuntu.com/ubuntu jammy/multiverse Translation-en [112 kB]  
Get:10 http://us-west-2.ec2.archive.ubuntu.com/ubuntu jammy/multivers amd64 c-n-f Metadata [8372 B]  
Get:11 http://us-west-2.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 Packages [1496 kB]  
Get:12 http://us-west-2.ec2.archive.ubuntu.com/ubuntu jammy-updates/main Translation-en [288 kB]  
Get:13 http://us-west-2.ec2.archive.ubuntu.com/ubuntu jammy-updates/restricted amd64 Packages [1607 kB]  
Get:14 http://us-west-2.ec2.archive.ubuntu.com/ubuntu jammy-updates/restricted Translation-en [270 kB]  
Get:15 http://us-west-2.ec2.archive.ubuntu.com/ubuntu jammy-updates/universe amd64 Packages [1058 kB]  
Get:16 http://us-west-2.ec2.archive.ubuntu.com/ubuntu jammy-updates/universe Translation-en [239 kB]  
Get:17 http://us-west-2.ec2.archive.ubuntu.com/ubuntu jammy-updates/universe amd64 c-n-f Metadata [22.1 kB]  
Get:18 http://us-west-2.ec2.archive.ubuntu.com/ubuntu jammy-updates/multiverse amd64 Packages [42.1 kB]  
Get:19 http://us-west-2.ec2.archive.ubuntu.com/ubuntu jammy-updates/multiverse Translation-en [10.1 kB]
```

i-05c8f08b4912f5915 (my-ec2-rds)

PublicIPs: 54.186.194.205 PrivateIPs: 120.0.12.81



Get:22 http://us-east-2.ec2.archive.ubuntu.com/ubuntu jammy-backports/main Translation-en [11.0 kB]
Get:23 http://us-east-2.ec2.archive.ubuntu.com/ubuntu jammy-backports/main amd64 c-n-f Metadata [388 B]
Get:24 http://us-east-2.ec2.archive.ubuntu.com/ubuntu jammy-backports/restricted amd64 c-n-f Metadata [116 B]
Get:25 http://us-east-2.ec2.archive.ubuntu.com/ubuntu jammy-backports/universe amd64 Packages [28.4 kB]
Get:26 http://us-east-2.ec2.archive.ubuntu.com/ubuntu jammy-backports/universe Translation-en [16.2 kB]
Get:27 http://us-east-2.ec2.archive.ubuntu.com/ubuntu jammy-backports/universe amd64 c-n-f Metadata [644 B]
Get:28 http://us-east-2.ec2.archive.ubuntu.com/ubuntu jammy-backports/multiverse amd64 c-n-f Metadata [116 B]
Get:29 http://security.ubuntu.com/ubuntu jammy-security/main amd64 Packages [1286 kB]
Get:30 http://security.ubuntu.com/ubuntu jammy-security/main Translation-en [229 kB]
Get:31 http://security.ubuntu.com/ubuntu jammy-security/restricted amd64 Packages [1591 kB]
Get:32 http://security.ubuntu.com/ubuntu jammy-security/restricted Translation-en [267 kB]
Get:33 http://security.ubuntu.com/ubuntu jammy-security/universe amd64 Packages [851 kB]
Get:34 http://security.ubuntu.com/ubuntu jammy-security/universe Translation-en [162 kB]
Get:35 http://security.ubuntu.com/ubuntu jammy-security/universe amd64 c-n-f Metadata [16.8 kB]
Get:36 http://security.ubuntu.com/ubuntu jammy-security/multiverse amd64 Packages [37.1 kB]
Get:37 http://security.ubuntu.com/ubuntu jammy-security/multiverse Translation-en [7476 B]
Get:38 http://security.ubuntu.com/ubuntu jammy-security/multiverse amd64 c-n-f Metadata [260 B]
Fetched 30.3 MB in 6s (5321 kB/s)

i-07fb664836dcfd9ff (ec2-2)

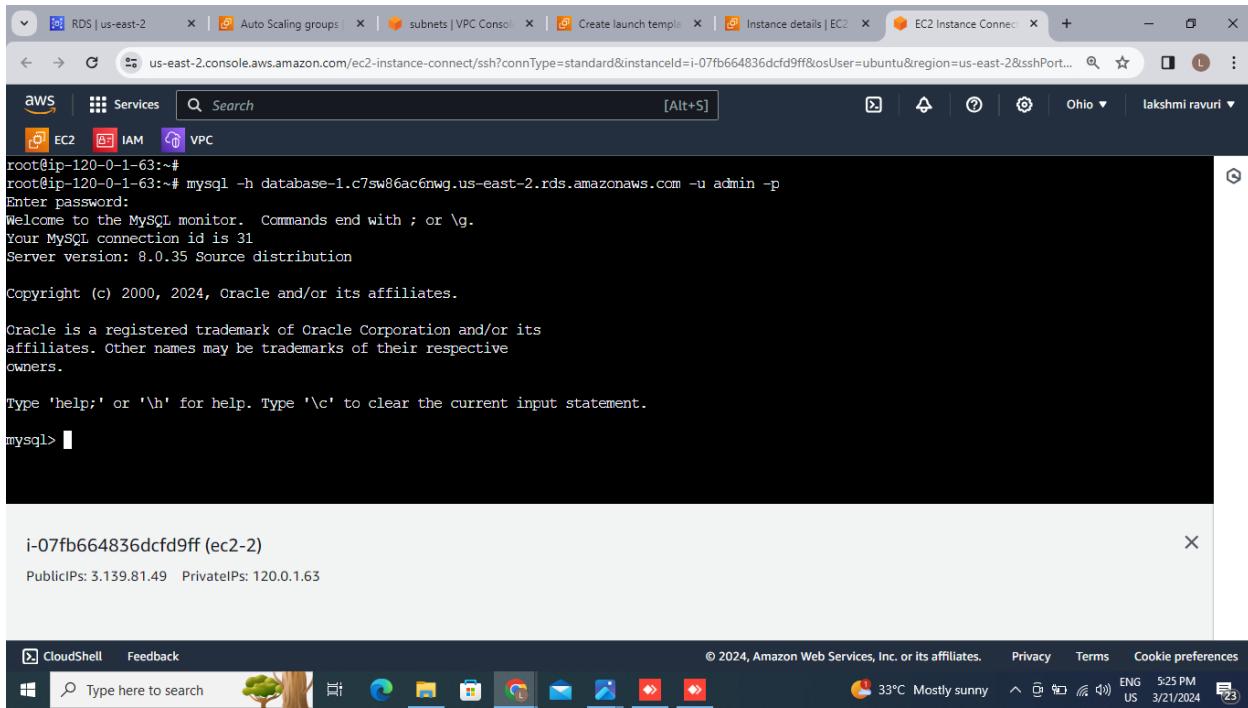
PublicIPs: 3.139.81.49 PrivateIPs: 120.0.1.63



The screenshot shows the Amazon RDS Databases page. On the left, there's a sidebar with links 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 has a title 'Databases (1)'. Below it is a table with one row, showing details for 'database-1': DB identifier, Status (Modifying), Instance (MySQL Community), Engine (MySQL Community), Region & AZ (us-west-2d), and Size (db.m6gd.large). There are buttons for Group resources, Modify, Actions, Restore from S3, and Create database.

This screenshot shows the Connectivity & security tab for the database 'database-1'. The left sidebar is identical to the previous screenshot. The main content area has tabs for Connectivity & security, Monitoring, Logs & events, Configuration, Zero-ETL integrations, and Main. The Connectivity & security tab is active. It displays detailed information about the endpoint and port configuration, networking, and security settings. Key details include:

Endpoint & port	Networking	Security
Endpoint database-1.cr084m6k43cx.us-west-2.rds.amazonaws.com	Availability Zone us-west-2d	VPC security groups default (sg-0473aa174f54591b9) Active
Port 3306	VPC my-vpc-1 (vpc-092f02a1c72735777)	Publicly accessible Yes
	Subnet group mydbsubnet	Certificate authority Info rds-ca-rsa2048-g1
	Subnets	



The screenshot shows a CloudShell terminal window with the following content:

```
root@ip-120-0-1-63:~# mysql -h database-1.c7sw06ac6nwg.us-east-2.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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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> 
```

Below the terminal, a modal window displays the instance details:

i-07fb664836dcfd9ff (ec2-2)
PublicIPs: 3.139.81.49 PrivateIPs: 120.0.1.63

At the bottom of the screen, the Windows taskbar is visible with various icons.

- Now we can see database connected to mysql-server

