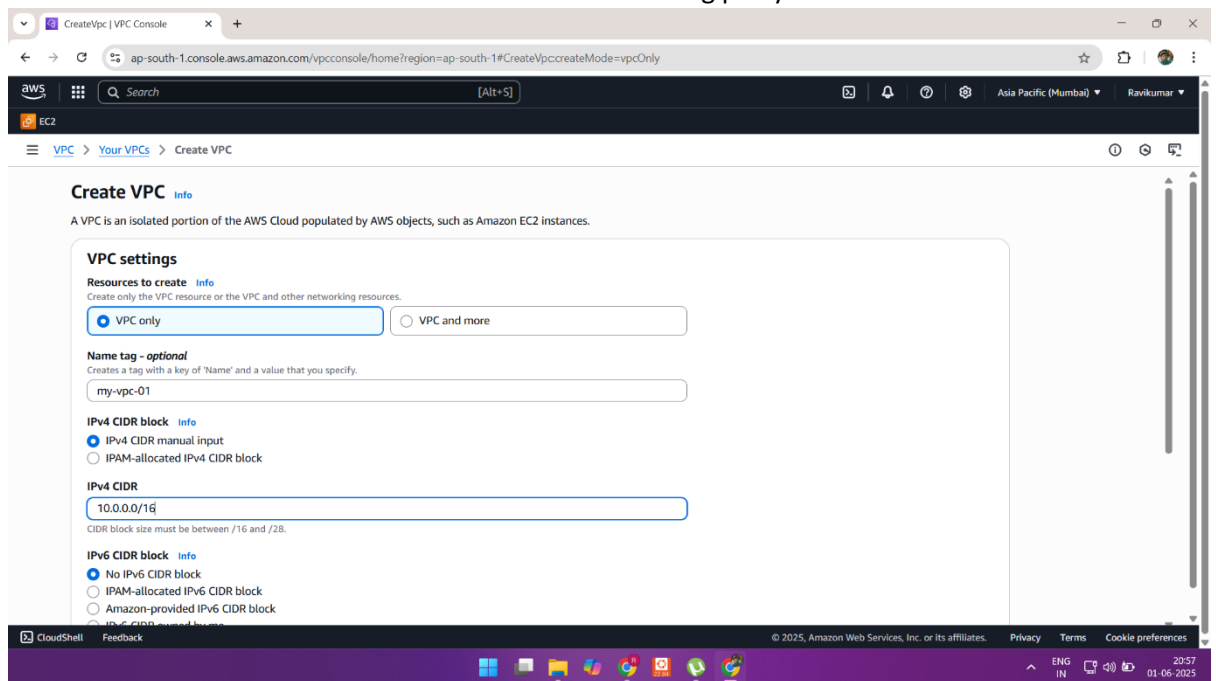


1. First I need to create VPC. In console search vpc. In vpc dashboard click create vpc. Put vpc only. I named my-vpc-01, manually IPV4 CIDR I put 10.0.0.0/16. Then click create vpc. Its created
2. Second in the vpc dashboard click internet gateway, create internet gateway. After that Its deattached so need to attach vpc, in action button click attach vpc, attached.
3. Third in the vpc dashboard click subnet put subnet name (public subnet), and put in CIDR block is 10.0.1.0/24. In already common vpc CIDR is 10.0.0.0/16. 10.0.1.0/24 is subnet CIDR. Then click create subnet.
4. Again create subnet Same as followed by 3rd point . but here subnet name is (private subnet). And the CIDR block is 10.0.2.0/24. Then click create subnet.
5. Fifth in the vpc dashboard click rout table, create a route table.then go to action click edit routes put all designation means 0.0.0.0/0. Click the internet gateway then give save changes. Now go to the subnet association, edit subnet association click the public subnet save changes.
6. In the subnet , public subnet click action, edit subnet settings. Click the Enable auto assign ip.
7. Now Lets go to console search EC2, launch instance create that. In that instance network settings there. Click that manually created vpc. Create security group then launch the instance.
8. Connect with linux machine. I connected with ubuntu using putty tool.



VPC | ap-south-1

ap-south-1.console.aws.amazon.com/vpcconsole/home?region=ap-south-1#VpcDetails:VpcId=vpc-0c9abb00417bac95

Search

[Alt+S]

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Ravikumar

VPC

Your VPCs

vpc-0c9abb00417bac95

VPC dashboard

EC2 Global View

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You successfully created vpc-0c9abb00417bac95 / my-vpc-01

vpc-0c9abb00417bac95 / my-vpc-01

Actions

Details

Info

VPC ID

vpc-0c9abb00417bac95

DNS resolution

Enabled

Main network ACL

acl-04e37f2c704716c70

IPv6 CIDR (Network border group)

-

State

Available

Tenancy

default

Default VPC

No

Network Address Usage metrics

Disabled

Block Public Access

Off

DHCP option set

dopt-08eced0879545f90a

IPv4 CIDR

10.0.0.0/16

Route 53 Resolver DNS Firewall rule groups

-

DNS hostnames

Disabled

Main route table

rtb-0a2355c152348e83c

IPv6 pool

-

Owner ID

251221984734

Resource map

CIDRs

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Netw

VPC | ap-south-1

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

Search

[Alt+S]

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VPC

Internet gateways

Create internet gateway

Create internet gateway

Info

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

Internet gateway settings

Name tag

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

my-internet-gateway

Tags - optional

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

Key

Value - optional

Q Name X Q my-internet-gateway X Remove

Add new tag

You can add 49 more tags.

Cancel

Create internet gateway

CloudShell

Feedback

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20:57

01-06-2025

VPC | ap-south-1

ap-south-1.console.aws.amazon.com/vpcconsole/home?region=ap-south-1#InternetGatewayinternetGatewayId=igw-0162a41a347b2e011

Search [Alt+S]

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VPC > Internet gateways > igw-0162a41a347b2e011

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The following internet gateway was created: igw-0162a41a347b2e011 - my-internet-gateway. You can now attach to a VPC to enable the VPC to communicate with the internet.

Attach to a VPC

igw-0162a41a347b2e011 / my-internet-gateway

Details Info

Internet gateway ID

igw-0162a41a347b2e011

State

Detached

VPC ID

-

Owner

25122198473

Actions

Attach to VPC

Detach from VPC

Manage tags

Delete

Tags

Search tags

Key

Value

Name

my-internet-gateway

Manage tags

< 1 >

VPC | ap-south-1

ap-south-1.console.aws.amazon.com/vpcconsole/home?region=ap-south-1#AttachInternetGatewayinternetGatewayId=igw-0162a41a347b2e011

Search [Alt+S]

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VPC > Internet gateways > Attach to VPC (igw-0162a41a347b2e011)

Attach to VPC (igw-0162a41a347b2e011)

VPC

Attach an internet gateway to a VPC to enable the VPC to communicate with the internet. Specify the VPC to attach below.

Available VPCs

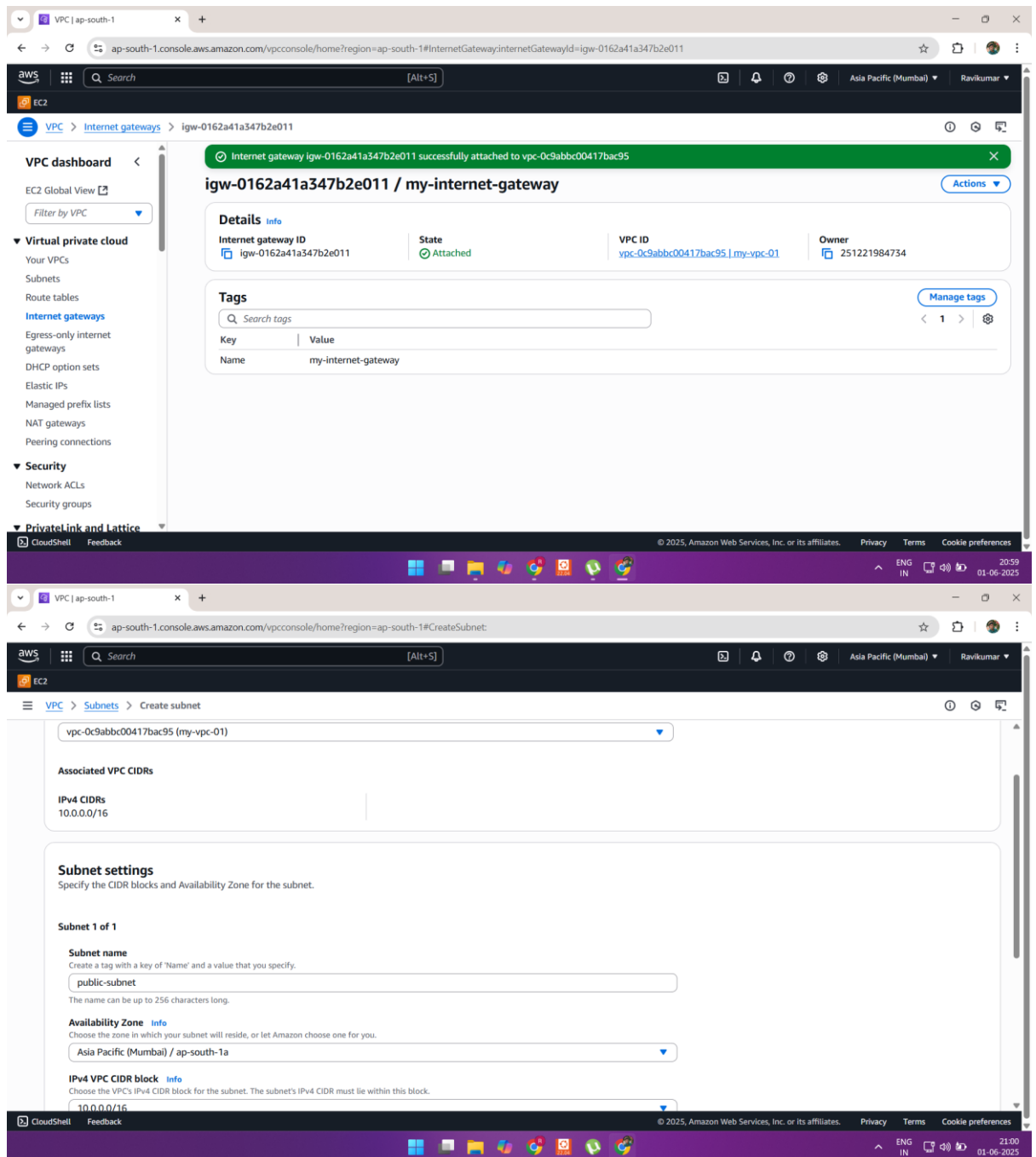
Attach the internet gateway to this VPC.

Q vpc-0c9abbc00417bac95

AWS Command Line Interface command

Cancel

Attach internet gateway



VPC | ap-south-1

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

Search [Alt+S]

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VPCSubnetsCreate subnet

Subnet 1 of 1

Subnet name

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

public-subnet

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.

Asia Pacific (Mumbai) / ap-south-1a

IPv4 VPC CIDR block

info

Choose the VPC's IPv4 CIDR block for the subnet. The subnet's IPv4 CIDR must lie within this block.

10.0.0.0/16

IPv4 subnet CIDR block

10.0.1.0/24

256 IPs

Tags - optional

Remove

Add new subnet

CancelCreate subnet

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ENG IN21:0001-06-2025

VPC | ap-south-1

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

Search [Alt+S]

Asia Pacific (Mumbai) Ravikumar

VPCSubnetsCreate subnet

Subnet name

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

private-subnet

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.

Asia Pacific (Mumbai) / ap-south-1b

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.

10.0.0.0/16

IPv4 subnet CIDR block

10.0.2.0/24

256 IPs

Tags - optional

Key

Q Name

Value - optional

Q private-subnet

Remove

Add new tag

You can add 49 more tags.

Remove

VPC | ap-south-1

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

Search [Alt+S]

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VPC > Route tables > Create route table

Create route table

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

Route table settings

Name - optional

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

my-route-table

VPC

The VPC to use for this route table.

vpc-0c9abbc00417bac95 (my-vpc-01)

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

Q Name X

Value - optional

Q my-route-table X Remove

Add new tag

You can add 49 more tags.

Cancel Create route table

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RouteTables | VPC Console

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

Search [Alt+S]

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VPC > Route tables

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Route tables (1/3)

Find route tables by attribute or tag

Name	Route table ID	Explicit subnet associ...	Edge associations	M...
-	rtb-0a9e303617592cafe	-	-	Ye
-	rtb-0a2355c152348e83c	-	-	Ye
my-route-table	rtb-042d53ad8e71350cb	-	-	No

rtb-042d53ad8e71350cb / my-route-table

Details Routes Subnet associations Edge associations Route propagation Tags

Details

Route table ID

rtb-042d53ad8e71350cb

VPC

vpc-0c9abbc00417bac95 (my-vpc-01)

Main

No

Explicit subnet associations

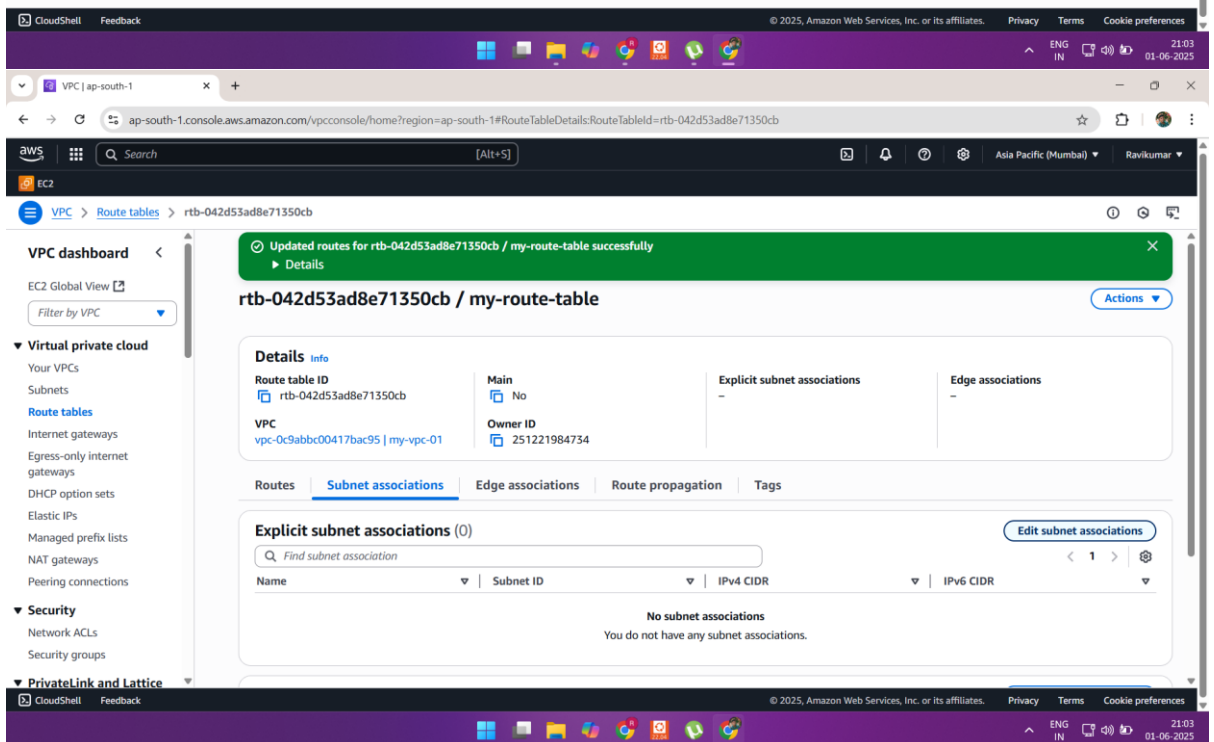
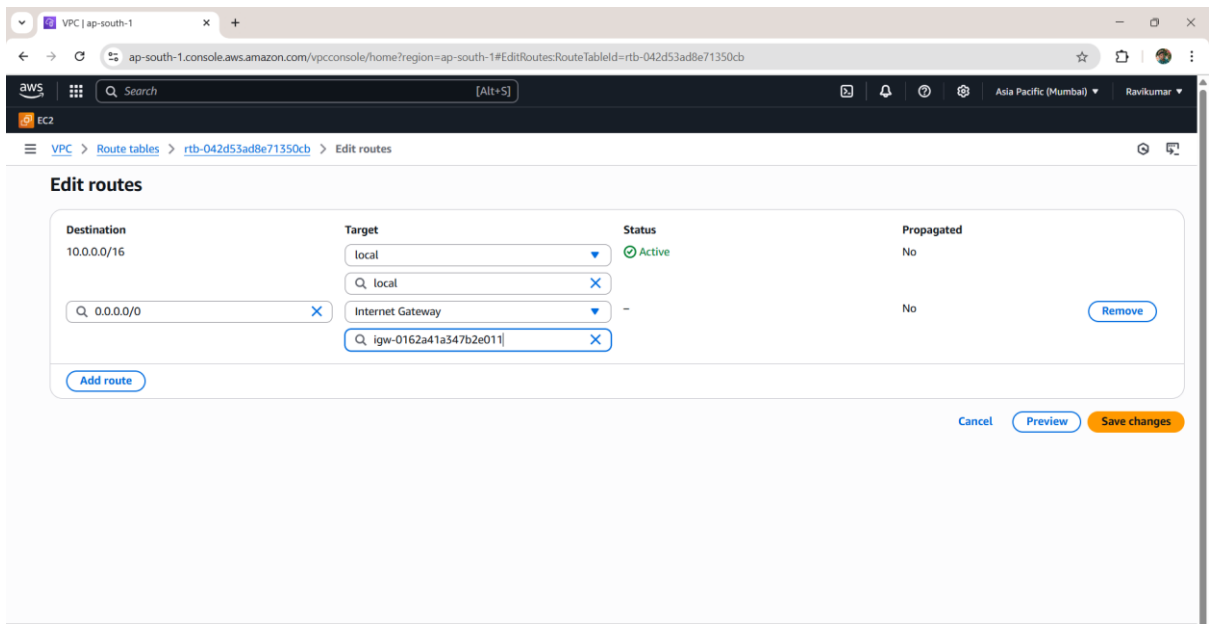
-

Edge associations

-

Owner ID

251221984734



VPC | ap-south-1

ap-south-1.console.aws.amazon.com/vpcconsole/home?region=ap-south-1#EditRouteTableSubnetAssociations.RouteTableId=rtb-042d53ad8e71350cb

Search [Alt+S]

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VPC

Route tables

rtb-042d53ad8e71350cb

Edit subnet associations

Edit subnet associations

Change which subnets are associated with this route table.

Available subnets (1/2)

Filter subnet associations

	Name	Subnet ID	IPv4 CIDR	IPv6 CIDR	Route table ID
<input checked="" type="checkbox"/>	public-subnet	subnet-0b9aa10f39265de5d	10.0.1.0/24	-	Main (rtb-0a2355c152348e83c)
<input type="checkbox"/>	private-subnet	subnet-0613d67fce03686ba	10.0.2.0/24	-	Main (rtb-0a2355c152348e83c)

Selected subnets

subnet-0b9aa10f39265de5d / public-subnet

Cancel

Save associations

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subnets | VPC Console

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

Search [Alt+S]

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Subnets (1/5)

Find subnets by attribute or tag

	Name	Subnet ID	State	VPC	IPv4 CIDR
<input type="checkbox"/>	-	subnet-0d94a4fdcd0c2c84d	Available	vpc-0b676b97c	172.31.0.0/24
<input type="checkbox"/>	-	subnet-0ab2d5b830efe07e6	Available	vpc-0b676b97c	172.31.32.0/24
<input type="checkbox"/>	-	subnet-06e2676e9b0bf1641	Available	vpc-0b676b97c	172.31.16.0/24
<input checked="" type="checkbox"/>	public-subnet	subnet-0b9aa10f39265de5d	Available	vpc-0c9abbc004	10.0.1.0/24
<input type="checkbox"/>	private-subnet	subnet-0613d67fce03686ba	Available	vpc-0c9abbc004	10.0.2.0/24

subnet-0b9aa10f39265de5d / public-subnet

Details

Flow logs

Route table

Network ACL

CIDR reservations

Sharing

Tags

Details

Subnet ID

subnet-0b9aa10f39265de5d

IPv4 CIDR

10.0.1.0/24

Subnet ARN

arn:aws:ec2:ap-south-1:251221984734:subnet/subnet-0b9aa10f39265de5d

State

Available

IPv6 CIDR

-

Block Public Access

Off

IPv6 CIDR association ID

-

View details

Create flow log

Edit subnet settings

Edit IPv6 CIDRs

Edit network ACL association

Edit route table association

Edit CIDR reservations

Share subnet

Manage tags

Delete subnet

VPC | ap-south-1

ap-south-1.console.aws.amazon.com/vpcconsole/home?region=ap-south-1#EditSubnetSettings:SubnetId=subnet-0b9aa10f39265de5d

Search [Alt+S]

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VPC > Subnets > subnet-0b9aa10f39265de5d > Edit subnet settings

Subnet

Subnet ID
subnet-0b9aa10f39265de5d

Name
public-subnet

Auto-assign IP settings

Enable AWS to automatically assign a public IPv4 or IPv6 address to a new primary network interface for an instance in this subnet.

☒ Enable auto-assign public IPv4 address

☐ Enable auto-assign customer-owned IPv4 address

Option disabled because no customer owned pools found.

Resource-based name (RBN) settings

Specify the hostname type for EC2 instances in this subnet and optional RBN DNS query settings.

☐ Enable resource name DNS A record on launch

☐ Enable resource name DNS AAAA record on launch

Hostname type
☐ Resource name
☒ IP name

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21:05 01-06-2025

Launch an instance | EC2 | ap-s-

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

Search [Alt+S]

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EC2 > Instances > Launch an instance

VPC - required

vpc-0c9abbc00417bac95 (my-vpc-01)

10.0.0.0/16

Subnet

subnet-0b9aa10f39265de5d

public-subnet

VPC: vpc-0c9abbc00417bac95 Owner: 251221984734 Availability Zone: ap-south-1a Zone type: Availability Zone IP addresses available: 251 CIDR: 10.0.1.0/24

Create new subnet

Auto-assign public IP

Enable

Additional charges apply when outside of free tier allowance

Firewall (security groups)

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

☒ Create security group ☐ Select existing security group

Security group name - required
PublicSecurityGroup

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
public security

Summary

Number of instances
1

Software Image (AMI)
Canonical, Ubuntu, 24.04, amd64...read more
ami-0e35ddab05955cf57

Virtual server type (instance type)
t2.micro

Firewall (security group)
New security group

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

Free tier: In your first year of opening an AWS account, you get 750 hours per month of

Cancel Launch instance Preview code

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21:08 01-06-2025

Instance details | EC2 | ap-south-1

ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#InstanceDetails:instanceId=i-0067ed598b2d6c429

EC2

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Reserved Instances
Dedicated Hosts
Capacity Reservations

▼ Images

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▼ Elastic Block Store

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Snapshots

Instance summary for i-0067ed598b2d6c429 (myvpctask) Info

Updated less than a minute ago

[Connect](#) [Instance state](#) [Actions](#)

Instance ID i-0067ed598b2d6c429	Public IPv4 address 65.2.141.96 open address	Private IPv4 addresses 10.0.1.153
IPv6 address -	Instance state Running	Public DNS -
Hostname type IP name: ip-10-0-1-153.ap-south-1.compute.internal	Private IP DNS name (IPv4 only) ip-10-0-1-153.ap-south-1.compute.internal	Elastic IP addresses -
Answer private resource DNS name -	Instance type t2.micro	AWS Compute Optimizer finding Opt-in to AWS Compute Optimizer for recommendation s. Learn more
Auto-assigned IP address 65.2.141.96 [Public IP]	VPC ID vpc-0c9abbc00417bac95 (my-vpc-01)	Auto Scaling Group name -
IAM Role -	Subnet ID subnet-0b9aa10f39265de5d (public-subnet)	Managed false
IMDSv2 Required	Instance ARN arn:aws:ec2:ap-south-1:251221984734:instance/i-0067ed598b2d6c429	

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Instance details | EC2 | ap-south-1

ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#InstanceDetails:instanceId=i-0067ed598b2d6c429

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Snapshots

Instance summary for i-0067ed598b2d6c429 (myvpctask) Info

Updated less than a minute ago

[Connect](#) [Instance state](#) [Actions](#)

Instance ID i-0067ed598b2d6c429	Public IPv4 address 65.2.141.96 open address	Private IPv4 addresses 10.0.1.153
IPv6 address -	Instance state Running	Public DNS -
Hostname type IP name: ip-10-0-1-153.ap-south-1.compute.internal	Private IP DNS name (IPv4 only) ip-10-0-1-153.ap-south-1.compute.internal	Elastic IP addresses -
Answer private resource DNS name -	Instance type t2.micro	AWS Compute Optimizer finding Opt-in to AWS Compute Optimizer for recommendation s. Learn more
Auto-assigned IP address 65.2.141.96 [Public IP]	VPC ID vpc-0c9abbc00417bac95 (my-vpc-01)	Auto Scaling Group name -
IAM Role -	Subnet ID subnet-0b9aa10f39265de5d (public-subnet)	Managed false
IMDSv2 Required	Instance ARN arn:aws:ec2:ap-south-1:251221984734:instance/i-0067ed598b2d6c429	

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21:10 01-06-2025

```
ubuntu@ip-10-0-1-153:~$  
* Authentication with public key "imported-openssh-key"  
Welcome to Ubuntu 24.04.2 LTS (GNU/Linux 6.8.0-1024-aws x86_64)  
  
* Documentation:  https://help.ubuntu.com  
* Management:    https://landscape.canonical.com  
* Support:        https://ubuntu.com/pro  
  
System information as of Sun Jun 1 15:40:13 UTC 2025  
  
System load: 0.16          Processes:           106  
Usage of /:  25.0% of 6.71GB Users logged in:       0  
Memory usage: 21%          IPv4 address for enX0: 10.0.1.153  
Swap usage:  0%  
  
Expanded Security Maintenance for Applications is not enabled.  
  
0 updates can be applied immediately.  
  
Enable ESM Apps to receive additional future security updates.  
See https://ubuntu.com/esm or run: sudo pro status  
  
The list of available updates is more than a week old.  
To check for new updates run: sudo apt update  
  
The programs included with the Ubuntu system are free software;  
the exact distribution terms for each program are described in the  
individual files in /usr/share/doc/*/copyright.  
  
Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by  
Dedicated Hosts  
Capacity Reservations
```