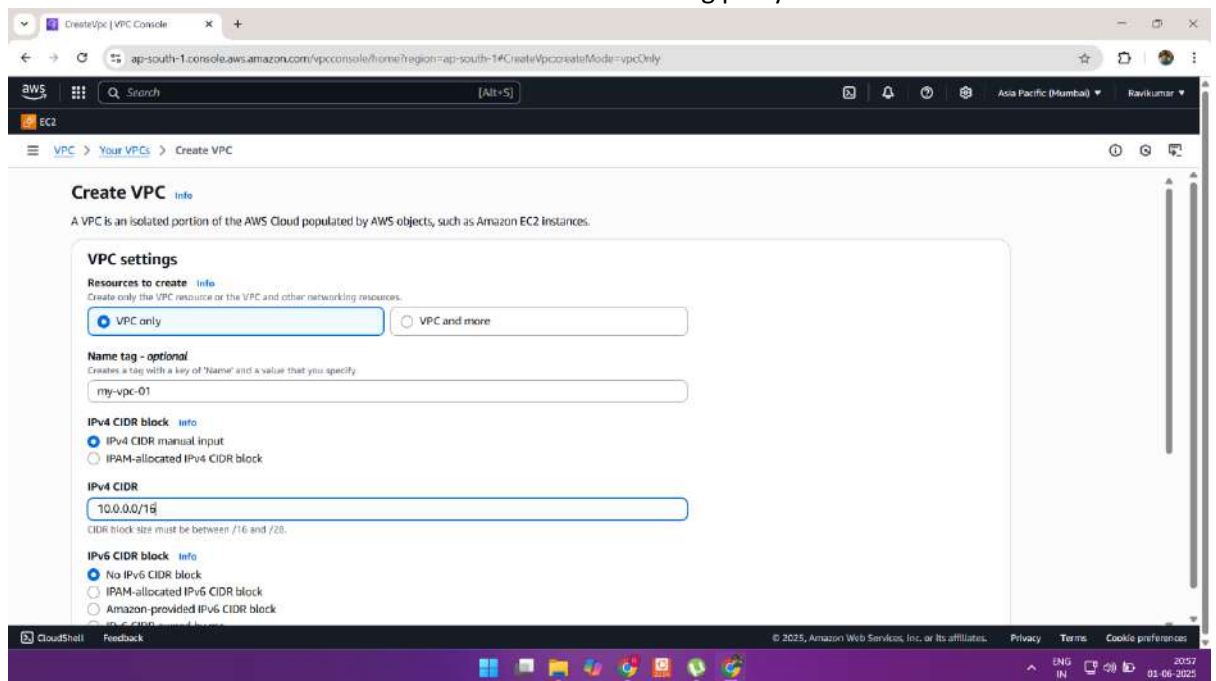


1. First I need to create VPC. In console search vpc. In vpc dashboard click create vpc. Put vpc only. I named my-vpc-01, manually IPV4 CIDR I put 10.0.0.0/16. Then click create vpc. Its created
2. Second in the vpc dashboard click internet gateway, create internet gateway. After that Its deattached 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-0c9abbc00417bac95

BWS Search [Alt+S]

EC2

VPC > Your VPCs > vpc-0c9abbc00417bac95

VPC dashboard

EC2 Global View

Filter by VPC

Virtual private cloud

Your VPCs

Subnets

Route tables

Internet gateways

Egress-only Internet gateways

DHCP option sets

Elastic IPs

Managed prefix lists

NAT gateways

Peering connections

Security

Network ACLs

Security groups

PrivateLink and Lattice

CloudShell Feedback

You successfully created vpc-0c9abbc00417bac95 / my-vpc-01

vpc-0c9abbc00417bac95 / my-vpc-01

Actions

Details Info

VPC ID vpc-0c9abbc00417bac95	State Available	Block Public Access Off	DNS hostnames Disabled
DNS resolution Enabled	Tenancy default	DHCP option set dopt-08eece0879545f90a	Main route table rtb-0a2355c152348e85c
Main network ACL acl-04e37f2c704716c70	Default VPC No	IPv4 CIDR 10.0.0.0/16	IPv6 pool -
IPv6 CIDR (Network border group) -	Network Address Usage metrics Disabled	Route 53 Resolver DNS Firewall rule groups -	Owner ID 251221984734

Resource map CIDRs Flow logs Tags Integrations

Resource map Info

VPC Show details Subnets (0) Route tables (1) Netw

© 2025, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences

VPC | ap-south-1

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

BWS Search [Alt+S]

EC2

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	
Name	my-internet-gateway	Remove

Add new tag

You can add 49 more tags.

Cancel Create internet gateway

© 2025, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences

Browser window showing the AWS Management Console VPC dashboard for the region `ap-south-1`. The URL is `ap-south-1.console.aws.amazon.com/vpcconsole/home?region=ap-south-1#InternetGateway/internetGatewayId=igw-0162a41a347b2e011`.

The dashboard displays the VPC dashboard on the left sidebar and the details of the Internet gateway `igw-0162a41a347b2e011 / my-internet-gateway` on the right.

Internet gateway details:

- Internet gateway ID: `igw-0162a41a347b2e011`
- State: `Detached`
- VPC ID: `-`
- Owner: `25122199473`

Tags:

Key	Value
Name	my-internet-gateway

Actions:

- Attach to VPC
- Detach from VPC
- Manage tags
- Delete

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.

Search: `vpc-0c9abbc00417bac95`

AWS Command Line Interface command

Cancel **Attach internet gateway**

Internet gateway igw-0162a41a347b2e011 successfully attached to vpc-0c9abbcd0417bac95

igw-0162a41a347b2e011 / my-internet-gateway

Details [Info](#)

Internet gateway ID	igw-0162a41a347b2e011	State	Attached	VPC ID	vpc-0c9abbcd0417bac95 my-vpc-01	Owner	251221984734
---------------------	-----------------------	-------	----------	--------	-----------------------------------	-------	--------------

Tags [Manage tags](#)

Key	Value
Name	my-internet-gateway

VPC dashboard [EC2 Global View](#)

filter by VPC

- Virtual private cloud
 - Your VPCs
 - Subnets
 - Route tables
 - Internet gateways
 - Egress-only internet gateways
 - DHCP option sets
 - Elastic IPs
 - Managed prefix lists
 - NAT gateways
 - Peering connections
- Security
 - Network ACLs
 - Security groups
- PrivateLink and Lattice

CloudShell Feedback

© 2025, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences

20:39 01-09-2025

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

Create subnet

vpc-0c9abbcd0417bac95 (my-vpc-01)

Associated VPC CIDRs

IPv4 CIDRs
10.0.0.0/16

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

Subnet 1 of 1

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

CloudShell Feedback

© 2025, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences

21:00 01-09-2025

VPC | ap-south-1

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

VPC Subnets Create 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 be 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

Cancel Create subnet

CloudShell Feedback

© 2025, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences

VPC | ap-south-1

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

VPC Subnets Create 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 be within this block.
10.0.0.0/16

IPv4 subnet CIDR block
10.0.2.0/24 256 IPs

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

CloudShell Feedback

© 2025, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences

VPC | ap-south-1

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

Search [Alt+S]

Asia Pacific (Mumbai) Ravikumar

VPC > Route tables > Create route table

Create route table info

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

Route table settings

Name - optional

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

my-route-table

VPC

The VPC to use for this route table.

vpc-0c9abbcd0417bdc95 (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

CloudShell Feedback

© 2025, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences

RouteTables | VPC Console

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

Search [Alt+S]

Asia Pacific (Mumbai) Ravikumar

VPC > Route tables

VPC dashboard <

EC2 Global View

Filter by VPC

Virtual private cloud

Your VPCs

Subnets

Route tables

Internet gateways

Egress-only internet gateways

DHCP option sets

Elastic IPs

Managed prefix lists

NAT gateways

Peering connections

Security

Network ACLs

Security groups

PrivateLink and Lattice

Route tables (1/3) info

Last updated 1 minute ago

Actions Create route table

Find route tables by attribute or tag

Name	Route table ID	Explicit subnet associ...	Edge associations	M...
-	rtb-0a0e303617592cafe	-	-	Yes
-	rtb-0a2355c157348e83c	-	-	Yes
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

Main

No

Explicit subnet associations

-

Edge associations

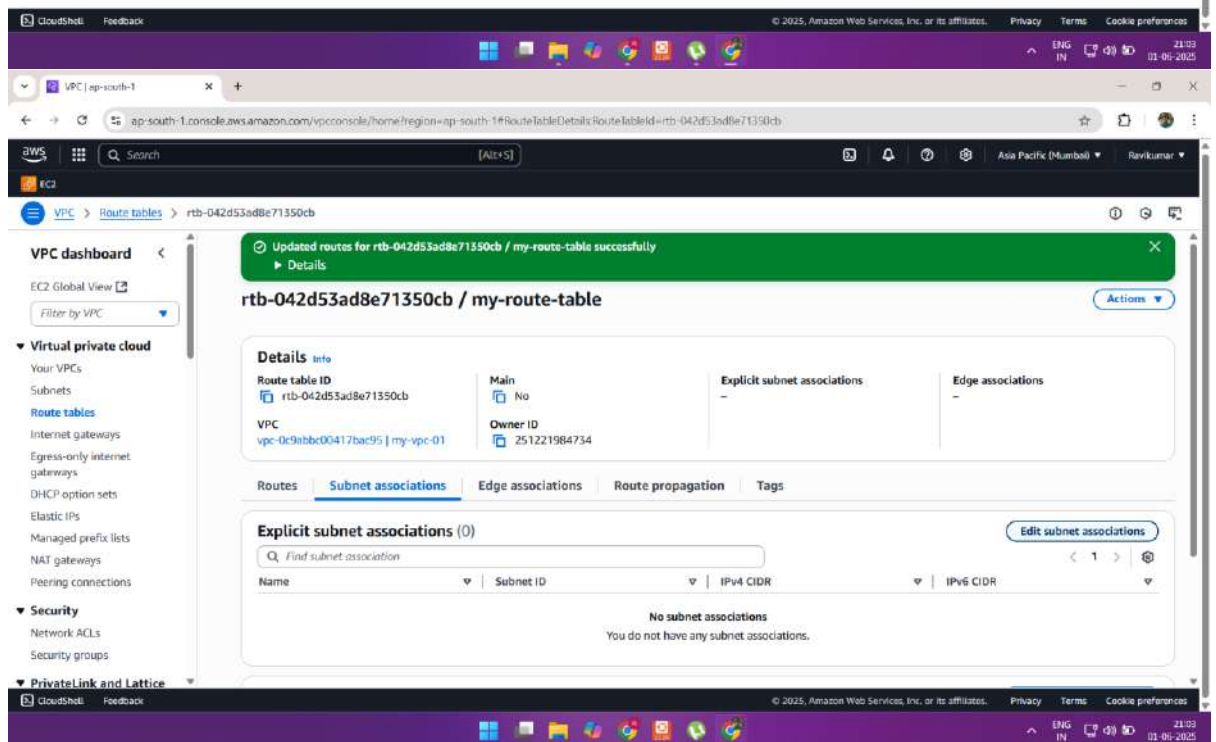
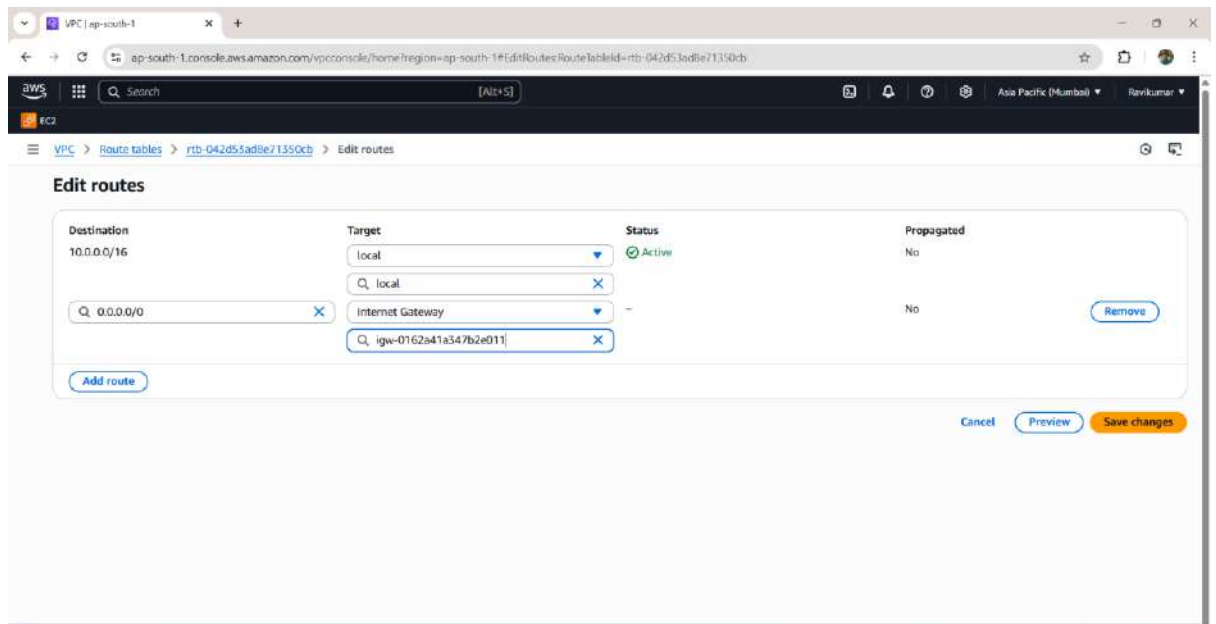
-

VPC

vpc-0c9abbcd0417bdc95 (my-vpc-01)

Owner ID

7512219847356



ap-south-1

ap-south-1.console.aws.amazon.com/vpcconsole/home?region=ap-south-1#EditRouteTableSubnetAssociations:RouteTableId=rtb-042d53ad9e71350cb

VPC > Route tables > rtb-042d53ad9e71350cb > Edit subnet associations

Edit subnet associations

Change which subnets are associated with this route table.

Available subnets (1/2)

Filter: subnet associations

<input type="checkbox"/>	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-0b2355c152348e83c)
<input type="checkbox"/>	private-subnet	subnet-0613d67fce03686ba	10.0.2.0/24	-	Main (rtb-0b2355c152348e83c)

Selected subnets

subnet-0b9aa10f39265de5d / public-subnet

Cancel Save associations

CloudShell Feedback

© 2025, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences

subnets | VPC Console

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

VPC > Subnets

VPC dashboard

EC2 Global View

Filter by VPC

Virtual private cloud

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

Security

- Network ACLs
- Security groups

PrivateLink and Lattice

Subnets (1/5) Info

Find subnets by attribute or tag

<input type="checkbox"/>	Name	Subnet ID	State	VPC	IPv4 CIDR
<input type="checkbox"/>	-	subnet-0d24a4fcd0c2c84d	Available	vpc-0b67beb97c	172.51.0.0/2
<input type="checkbox"/>	-	subnet-0ab2d5b630efc07e6	Available	vpc-0b67beb97c	172.31.32.0/
<input type="checkbox"/>	-	subnet-06a2676e9b0bf1641	Available	vpc-0b67beb97c	172.31.16.0/
<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

subnets-0b9aa10f39265de5d / public-subnet

Details Flow logs Route table Network ACL CIDR reservations Sharing Tags

Details

Subnet ID subnet-0b9aa10f39265de5d

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

State Available

IPv4 CIDR 10.0.1.0/24

IPv6 CIDR -

Block Public Access Off

IPv6 CIDR association ID -

Available IPv6 addresses

© 2025, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences

VPC | ap-south-1

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

Search [Alt+S]

Asia Pacific (Mumbai) Ravikumar

VPCSubnetssubnet-0b9aa10f39265de5dEdit 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 IPv6 address

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

CloudShellFeedback

© 2025, Amazon Web Services, Inc. or its affiliates. PrivacyTermsCookie preferences

Launch an instance | EC2 | ap-south-1

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

Search [Alt+S]

Asia Pacific (Mumbai) Ravikumar

EC2InstancesLaunch an instance

VPC - required

vpc-0c9abbc00417bac95 (my-vpc-01)

Subnet

subnet-0b9aa10f39265de5d public-subnet

VPC: vpc-0c9abbc00417bac95 Owner: 251221964734 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

Firewall (security groups)

Create security groupSelect 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 instances1

Software Image (AMI)
Canonical, Ubuntu, 24.04, amd64...read more
ami-0a35ddab05955c757

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

CancelLaunch instancePreview code

Instance details | EC2 | ap-south-1

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

EC2

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

Instance summary for i-0067ed598b2d6c429 (myvpctask)

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 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	

CloudShell Feedback

© 2025, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences

21:09 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 5.8.0-1024-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 15:40:33 UTC 2025  
  
System load: 0.16          Processes:           106  
Usage of /:  25.09 of 8.71GB    Memory usage: 21%  
Swap usage:  0A              IPv4 address for eno1: 10.0.1.153  
  
Expanded Security Maintenance for Applications is not enabled.  
No 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
```

Images
AMIs
AMI Catalog
Elastic Block Store
Volumes
Snapshots

Auto-assigned IP address
65.2.141.96 [Public IP]

IAM Role
-

IMDSv2
Required

Private IPv4 addresses
10.0.1.153

Public DNS
-

Elastic IP addresses
-

AWS Compute Optimizer finding
Opt-in to AWS Compute Optimizer for recommendation
[Learn more](#)

Auto Scaling Group name
-

Managed
false

CloudShell Feedback

© 2025, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences

21:10 01-06-2025