

Name: Prashanth Raghavendra Rao


Task: AWS 2

Date: 31/05/2025

Task Description:

Set up a VPC with an Internet gateway, create a public subnet with 256 IP addresses, a private subnet with 256 IP addresses, make a route table connecting the Internet gateway and the subnets, and launch a Linux EC2 instance by using the above VPC and public subnet.

Visual Subnet Calculator



Enter the network you wish to subnet:

Network Address

Mask bits

10.0.0.0

/16

Update

Reset

Show columns: ☒ Subnet address ☐ Netmask ☒ Range of addresses ☒ Useable IPs ☒ Hosts ☒ Divide ☒ Join

Click below to split and join subnets.
If you wish to save this subnetting for later, bookmark [this hyperlink](#).

Subnet address	Range of addresses	Useable IPs	Hosts	Divide	Join
10.0.0.0/17	10.0.0.0 - 10.0.127.255	10.0.0.1 - 10.0.127.254	32766	Divide	/17
10.0.128.0/18	10.0.128.0 - 10.0.191.255	10.0.128.1 - 10.0.191.254	16382	Divide	/18
10.0.192.0/19	10.0.192.0 - 10.0.223.255	10.0.192.1 - 10.0.223.254	8190	Divide	/19
10.0.224.0/20	10.0.224.0 - 10.0.239.255	10.0.224.1 - 10.0.239.254	4094	Divide	/20
10.0.240.0/21	10.0.240.0 - 10.0.247.255	10.0.240.1 - 10.0.247.254	2046	Divide	/21
10.0.248.0/22	10.0.248.0 - 10.0.251.255	10.0.248.1 - 10.0.251.254	1022	Divide	/22
10.0.252.0/24	10.0.252.0 - 10.0.252.255	10.0.252.1 - 10.0.252.254	254	Divide	/24
10.0.253.0/24	10.0.253.0 - 10.0.253.255	10.0.253.1 - 10.0.253.254	254	Divide	/24
10.0.254.0/25	10.0.254.0 - 10.0.254.127	10.0.254.1 - 10.0.254.126	126	Divide	/25
10.0.254.128/25	10.0.254.128 - 10.0.254.255	10.0.254.129 - 10.0.254.254	126	Divide	/25
10.0.255.0/26	10.0.255.0 - 10.0.255.63	10.0.255.1 - 10.0.255.62	62	Divide	/26
10.0.255.64/26	10.0.255.64 - 10.0.255.127	10.0.255.65 - 10.0.255.126	62	Divide	/26
10.0.255.128/25	10.0.255.128 - 10.0.255.255	10.0.255.129 - 10.0.255.254	126	Divide	/25

1. VPC Creation

[illegible]

The screenshot displays the AWS Management Console interface for a specific VPC. At the top, there's a navigation bar with the AWS logo, search bar, and user information. The main header shows the breadcrumb trail: VPC > Your VPCs > vpc-04f2d42c0541a4733. Below this, the page title is "vpc-04f2d42c0541a4733 / Prash-VPC-01". A green notification banner at the top states "You successfully created vpc-04f2d42c0541a4733 / Prash-VPC-01".

The left sidebar contains the navigation menu with categories like Virtual private cloud, Security, PrivateLink and Lattice, DNS firewall, and Network Firewall. The main content area is titled "Details" and provides comprehensive information about the VPC:

- VPC ID:** vpc-04f2d42c0541a4733
- DNS resolution:** Enabled
- Main network ACL:** acl-09797991a82832895
- IPv6 CIDR (Network border group):** -
- State:** Available
- Tenancy:** default
- Default VPC:** No
- Network Address Usage metrics:** Disabled
- Block Public Access:** Off
- DHCP option set:** dhcp-09e232edecbf1987
- IPv4 CIDR:** 10.0.254.0/24
- Route S3 Resolver DNS Firewall rule groups:** Failed to load rule groups
- DNS hostnames:** Disabled
- Main route table:** rtb-0977e0a36b2db8057
- IPv6 pool:** -
- Owner ID:** 755937526811

Below the details section is the "Resource map" which visualizes the resources associated with the VPC:

- VPC:** Shows the VPC icon and name "Prash-VPC-01".
- Subnets (0):** Indicates no subnets are currently defined within this VPC.
- Route tables (1):** Lists the route table "rtb-0977e0a36b2db8057".
- Network connections (0):** Indicates no connections exist to other networks.

2. Subnet Creation

Subnet 1 of 2

10.0.254.0/25

128 IPs

▼ Tags - optional

Key

Value - optional

Q Name

Q Prash-Public-SN1

Remove

Add new tag

You can add 49 more tags.

Remove

Subnet 2 of 2

Subnet name

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

Prash-Private-SN2

The name can be up to 256 characters long.

Availability Zone

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

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

10.0.254.0/24

IPv4 subnet CIDR block

10.0.254.128/25

128 IPs

▼ Tags - optional

Key

Value - optional

Q Name

Q Prash-Private-SN2

Remove

Add new tag

You can add 49 more tags.

Remove

Add new subnet

Cancel

Create subnet

CloudShell

Feedback

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Subnets

You have successfully created 2 subnets: subnet-0342f5d3b5e46b07b, subnet-0f95ef30e2254d0aa

Subnets (2)

Find subnets by attribute or tag

Subnet ID : subnet-0342f5d3b5e46b07b

Subnet ID : subnet-0f95ef30e2254d0aa

Clear filters

<input type="checkbox"/>	Name	Subnet ID	State	VPC	Block Public...	IPv4 CIDR	IPv6 CIDR	IPv6 CIDR associat
<input type="checkbox"/>	Prash-Private-SN2	subnet-0f95ef30e2254d0aa	Available	vpc-04f2d42c0541a4733 Pras...	OFF	10.0.254.128/25	-	-
<input type="checkbox"/>	Prash-Public-SN1	subnet-0342f5d3b5e46b07b	Available	vpc-04f2d42c0541a4733 Pras...	OFF	10.0.254.0/25	-	-

Select a subnet

AWS

Search

[Option+5]

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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.
Prash-Public-RT-1

VPC
The VPC to use for this route table.
vpc-04f2d42c0541a4733 (Prash-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
Name

Value - optional
Prash-Public-RT-1

Remove

Add new tag

You can add 49 more tags.

Cancel

Create route table

CloudShell

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VPC

Route tables

rtb-014ce3bf4d441e0ab

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Route table rtb-014ce3bf4d441e0ab | Prash-Public-RT-1 was created successfully.

rtb-014ce3bf4d441e0ab / Prash-Public-RT-1

Actions

Details

Route table ID
rtb-014ce3bf4d441e0ab

Main
No

Explicit subnet associations
-

Edge associations
-

VPC
vpc-04f2d42c0541a4733 | Prash-VPC-01

Owner ID
755937526811

Routes

Subnet associations

Edge associations

Route propagation

Tags

Routes (1)

Filter routes

Both

Edit routes

Destination	Target	Status	Propagated
10.0.254.0/24	local	Active	No

3. Route Table Creation

Route table settings

Name - optional

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

Prash-Private-RT-2

VPC

The VPC to use for this route table.

vpc-04f2d42c0541a4733 (Prash-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

Value - optional

Q Prash-Private-RT-2

Remove

Add new tag

You can add 49 more tags.

Cancel

Create route table

CloudShell

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VPC

Route tables

Create route table

Route table rtb-0de4c911937ee2c02 | Prash-Private-RT-2 was created successfully.

Actions

rtb-0de4c911937ee2c02 / Prash-Private-RT-2

Details

Route table ID

rtb-0de4c911937ee2c02

Main

No

Explicit subnet associations

—

Edge associations

—

VPC

vpc-04f2d42c0541a4733 | Prash-VPC-01

Owner ID

755937526811

Routes

Subnet associations

Edge associations

Route propagation

Tags

Routes (1)

Filter routes

Both

Edit routes

Destination	Target	Status	Propagated
10.0.254.0/24	local	Active	No

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iam

ec2

vpc

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Route tables (4)

Find route tables by attribute or tag

Name	Route table ID	Explicit subnet associ...	Edge associations	Main	VPC	Owner ID
<input type="checkbox"/> Default-RT-1	rtb-0e6644bc7db3042ae	--	--	Yes	vpc-0f9938fb8ea61af5e Defau...	755937526811
<input type="checkbox"/> Default-RT-2	rtb-0977e0a36b2d8b057	--	--	Yes	vpc-04f2d42c0541a4733 Pras...	755937526811
<input type="checkbox"/> Prash-Public-RT-1	rtb-014ce3bf4d441e0ab	--	--	No	vpc-04f2d42c0541a4733 Pras...	755937526811
<input type="checkbox"/> Prash-Private-RT-2	rtb-0d64c911937ec202	--	--	No	vpc-04f2d42c0541a4733 Pras...	755937526811

Select a route table

You have successfully updated subnet associations for rtb-014ce3bf4d441e0ab / Prash-Public-RT-1.

rtb-014ce3bf4d441e0ab / Prash-Public-RT-1

Actions

Details

Route table ID

rtb-014ce3bf4d441e0ab

Main

No

Explicit subnet associations

subnet-0342f5d3b35e46b07b / Prash-Public-SN1

Edge associations

--

VPC

vpc-04f2d42c0541a4733 | Prash-VPC-01

Owner ID

755937526811

Routes

Subnet associations

Edge associations

Route propagation

Tags

Explicit subnet associations (1)

Find subnet association

Name	Subnet ID	IPv4 CIDR	IPv6 CIDR
Prash-Public-SN1	subnet-0342f5d3b35e46b07b	10.0.254.0/25	--

Edit subnet associations

Subnets without explicit associations (1)

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

Find subnet association

Name	Subnet ID	IPv4 CIDR	IPv6 CIDR
Prash-Private-SN2	subnet-0f95ef930e2254d0aa	10.0.254.128/25	--

Edit subnet associations

CloudShell

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4. Internet Gateway Creation

Internet gateway igw-06a5526a0ad04122f successfully attached to vpc-04f2d42c0541a4733

Internet gateways (2)

Find internet gateways by attribute or tag

<input type="checkbox"/>	Name	Internet gateway ID	State	VPC ID	Owner
<input type="checkbox"/>	Default-IGW	igw-096ff5b101d1d05ca	Attached	vpc-0789318fb8ea61af5e Default-VPC	755937526811
<input type="checkbox"/>	Prash-IGW	igw-06a5526a0ad04122f	Attached	vpc-04f2d42c0541a4733 Prash-VPC-01	755937526811

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Internet gateway settings

Name tag

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

Prash-IGW

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

Q Prash-IGW

Remove

Add new tag

You can add 49 more tags.

Cancel

Create internet gateway

CloudShell

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VPC

Route tables

rtb-014ce3bf4d441e0ab

Edit routes

Destination

10.0.254.0/24

Q 0.0.0.0/0

Add route

Target

local

Q local

Internet Gateway

Q igw-06b5526a0ad04122f

User: "igw-06b5526a0ad04122f"

igw-06b5526a0ad04122f (Prash-IGW)

Status

Active

-

Propagated

No

No

Remove

Cancel

Preview

Save changes

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Updated routes for rtb-014ce3bf4d441e0ab / Prash-Public-RT-1 successfully

Details

rtb-014ce3bf4d441e0ab / Prash-Public-RT-1

Actions

Details

Route table ID

rtb-014ce3bf4d441e0ab

VPC

vpc-04f2d42c0541a4733 | Prash-VPC-01

Main

No

Owner ID

755937526811

Explicit subnet associations

subnet-0342f5c305a46b07b / Prash-Public-SN1

Edge associations

-

Routes

Subnet associations

Edge associations

Route propagation

Tags

Routes (2)

Filter routes

Both

Edit routes

1

Destination

Target

Status

Propagated

0.0.0.0/0

igw-06b5526a0ad04122f

Active

No

10.0.254.0/24

local

Active

No

5. EC2 Creation

Launch an instance

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

Name

Prash-VPC-Instance1

Add additional tags

Application and OS Images (Amazon Machine Image)

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 your full catalog including 1000s of application and OS images

Recents

Quick Start

Amazon Linux

macOS

Ubuntu

Windows

Red Hat

SUSE Linux

Debian

Amazon Machine Image (AMI)

Ubuntu Server 24.04 LTS (HVM), SSD Volume Type

ami-0e35dab05955cf57 (64-bit x86) / ami-042b0b8e1a841ca80 (64-bit ARM)

Virtualization: hvm EFA enabled: true Root device type: ebs

Free tier eligible

Description

Ubuntu Server 24.04 LTS (HVM),EBS General Purpose (SSD) Volume Type. Support available from Canonical (http://www.ubuntu.com/cloud/services).

Canonical, Ubuntu, 24.04, amd64 noble image

Architecture

64-bit (x86)

AMI ID

ami-0e35dab05955cf57

Publication Date

2025-03-05

Username

ubuntu

Verified provider

Instance type

Instance type

Summary

Number of instances

1

Software Image (AMI)

Canonical, Ubuntu, 24.04, amd64...read more

ami-0e35dab05955cf57

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 t2.micro instance usage (or t3.micro where t2.micro isn't available) when used with free tier AMIs, 750 hours per month of public IPv4 address usage, 30 GiB of EBS storage, 2 million I/Os, 1 GiB of snapshots, and 100 GB of bandwidth to the internet.

Cancel

Launch instance

Preview code

Create security group

A security group acts as a virtual firewall for your instance to control inbound and outbound traffic. To create a new security group, complete the fields below.

Basic details

Security group name

PrashVPC-SG-1

Name cannot be edited after creation.

Description

Prash-VPC-SG-1

VPC

vpc-04f2d42c0541a4733 (Prash-VPC-01)

Inbound rules

Type

SSH

Protocol

TCP

Port range

22

Source

Anywh...

0.0.0.0/0

Description - optional

Delete

Type

HTTP

Protocol

TCP

Port range

80

Source

Anywh...

0.0.0.0/0

Description - optional

Delete

Add rule

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

Outbound rules

Type

All traffic

Protocol

All

Port range

All

Destination

Custom

0.0.0.0/0

Description - optional

Delete

Add rule

Rules with destination of 0.0.0.0/0 or ::/0 allow your instances to send traffic to any IPv4 or IPv6 address. We recommend setting security group rules to be more restrictive and to only allow traffic to specific known IP addresses.

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.

AWS

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IAM

EC2

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Feedback

sg-0eb6d884f321512cb - PrashVPC-SG-1

Actions

Details

Security group name

PrashVPC-SG-1

Security group ID

sg-0eb6d884f321512cb

Description

Prash-VPC-SG1

VPC ID

vpc-04f2d42c0541ae733

Owner

755937526811

Inbound rules count

2 Permission entries

Outbound rules count

1 Permission entry

Inbound rules

Outbound rules

Sharing - new

VPC associations - new

Tags

Inbound rules (2)

Manage tags

Edit inbound rules

Search

	Name	Security group rule ID	IP version	Type	Protocol	Port range	Source	Description
<input type="checkbox"/>	-	sgr-070bc50f60cae5655	IPv4	HTTP	TCP	80	0.0.0.0/0	-
<input type="checkbox"/>	-	sgr-02da9bd1b9ef6bd1e	IPv4	SSH	TCP	22	0.0.0.0/0	-

Security Groups (3)

Find security groups by attribute or tag

Actions

Export security groups to CSV

Create security group

	Name	Security group ID	Security group name	VPC ID	Description	Owner
<input type="checkbox"/>	Default-SG-1	sg-036501c0bd2088d3a	default	vpc-04f2d42c0541ae733	default VPC security group	755937526811
<input type="checkbox"/>	Prash-VPC-SG-1	sg-0eb6d884f321512cb	PrashVPC-SG-1	vpc-04f2d42c0541ae733	Prash-VPC-SG1	755937526811
<input type="checkbox"/>	Default-SG-2	sg-068898553978a3fcb	default	vpc-0f8938fb8ea61affe	default VPC security group	755937526811

Select a security group

CloudShell

Feedback

CloudShell

Feedback

aws

iam ec2 vpc

Search

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Launch an instance

Subnet

Info

subnet-0342f5d3b5e46b07b
VPC: vpc-04f2642c0541a4733 Owner: 755937326811 Availability Zone: ap-south-1a
Zone type: Availability Zone IP addresses available: 123 CIDR: 10.0.254.0/23

Prash-Public-SN1

Create new subnet

Auto-assign public IP

Info

Enable

Additional charges apply when outside of free tier allowance

Firewall (security groups)

Info

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

Create security group

Select existing security group

Common security groups

Info

Select security groups

PrashVPC-SG-1 ig-0eb6d884f321512cb
VPC: vpc-04f2642c0541a4733

Compare security group rules

Advanced network configuration

Configure storage

Info

Advanced

1x 8 GIB gp3 Root volume, 3000 IOPS, Not encrypted

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

Add new volume

The selected AMI contains instance store volumes, however the instance does not allow any instance store volumes. None of the instance store volumes from the AMI will be accessible from the instance

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

0 x File systems

Edit

Advanced details

Info

Summary

Number of instances Info

1

Software Image (AMI)
Canonical, Ubuntu, 24.04, amd64_read more
ami-0e355dab0595c5c7

Virtual server type (instance type)
t2.micro

Firewall (security group)
PrashVPC-SG-1

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

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Cancel Launch instance Preview code

CloudShell

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EC2

Instances

Launch an instance

Launch an instance

Info

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Recents

Quick Start

Amazon Linux

macOS

Ubuntu

Windows

Red Hat

SUSE Linux

Debian

Browse more AMIs

Including AMIs from AWS, Marketplace and the Community

Amazon Machine Image (AMI)

Ubuntu Server 24.04 LTS (HVM), SSD Volume Type

ami-0e35dab05955c757 (64-bit (x86)) / ami-0429d8ba1c041ca80 (64-bit (ARM))

Virtualization from: LNX enabled: true Root device type: ebs

Free tier eligible

Description

Ubuntu Server 24.04 LTS (HVM),EBS General Purpose (SSD) Volume Type. Support available from Canonical (http://www.ubuntu.com/cloud/services).

Canonical, Ubuntu, 24.04, amd64 noble image

Architecture

64-bit (x86)

AMI ID

ami-0e35dab05955c757

Publish Date

2025-03-05

Username

ubuntu

Verified provider

Instance type

Info

Get advice

Instance type

Summary

Number of instances

Info

1

Software Image (AMI)

Canonical, Ubuntu, 24.04, amd64...read more

ami-0e35dab05955c757

Virtual server type (instance type)

t2.micro

Firewall (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 t2.micro instance usage (or t3.micro where t2.micro isn't available) when used with free tier AMIs, 750 hours per month of public IPv4 address usage, 30 GiB of EBS storage, 2 million I/Os, 1 GiB of snapshots, and 100 GiB of bandwidth to the internet.

Cancel

Launch instance

Preview code

CloudShell

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EC2

Instances

Launch an instance

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

govPrashanth

Create new key pair

Network settings

Info

VPC - required

Info

vpc-04f2d42c0541a4733 (Prash-VPC-01)

10.0.254.0/24

Subnet

Info

subnet-0f95ef30e2254d0aa

Prash-Private-SN2

VPC: vpc-04f2d42c0541a4733

Owner: 755937526811

Availability Zone: ap-south-1a

Zone type: Availability Zone

IP addresses available: 128

CIDR: 10.0.254.128/25

Create new subnet

Auto-assign public IP

Info

Disable

Firewall (security groups)

Info

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

Create security group

Select existing security group

Common security groups

Info

Select security groups

PrashVPC-SG-1 sg-0eb6d884f321512cb

VPC: vpc-04f2d42c0541a4733

Compare security group rules

Advanced network configuration

Configure storage

Info

Advanced

1x

8

GiB

gp3

Root volume, 3000 IOPS, Not encrypted

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

Add new volume

The selected AMI contains instance store volumes, however the instance does not allow any instance store volumes. None of the instance store volumes from the AMI will be accessible from the instance

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EC2

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PrashVPC-SG-1

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Cancel

Launch instance

Preview code

EC2

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Load Balancers

Target Groups

Trust Stores

Auto Scaling

Auto Scaling Groups

Instances (2)

Find Instance by attribute or tag (case-sensitive)

All states

Last updated less than a minute ago

Connect

Instance state

Actions

Launch instances

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public IPv4	Elastic IP
Prash-VPC-Instance1	i-0f62871230829c057	Running	t2.micro	Initializing	View alarms +	ap-south-1a	-	13.232.188.176	-
Prash-VPC-Priv1	i-093fa01aec110622d	Running	t2.micro	Initializing	View alarms +	ap-south-1a	-	-	-

Select an instance

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AWS

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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 Sat May 31 16:18:10 UTC 2025

System load: 0.29 Processes: 107

Usage of /: 25.0% of 6.71GB Users logged in: 0

Memory usage: 21% IPv4 address for enx0: 10.0.254.84

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

applicable law.

To run a command as administrator (user "root"), use "sudo <command>".

See "man sudo_root" for details.

ubuntu@ip-10-0-254-84:~\$

i-0f62871230829c057 (Prash-VPC-Instance1)

PublicIP: 13.232.188.176 PrivateIP: 10.0.254.84

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EC2

Instances

i-093fa01aec110622d

Connect to instance

Connect info

Connect to an instance using the browser-based client.

EC2 Instance Connect Session Manager SSH client EC2 serial console

No public IPv4 or IPv6 address assigned

With no public IPv4 or IPv6 address, you can't use EC2 Instance Connect. Alternatively, you can try connecting using [EC2 Instance Connect Endpoint](#).

Instance is not in public subnet

Associated subnet [subnet-0995af32e2254d09a \(Prash-Private-SN2\)](#) is not a public subnet.
To use EC2 Instance Connect, your instance must be in a public subnet. [To make the subnet a public subnet, add a route in the subnet route table to an internet gateway.](#)

Instance ID

i-093fa01aec110622d (Prash-VPC-Priv1)

Connect using a Public IP

Connect using a public IPv4 or IPv6 address.

Connect using a Private IP

Connect using a private IP address and a VPC endpoint.

Public IPv4 address

IPv6 address

Username

Enter the username defined in the AMI used to launch the instance. If you didn't define a custom username, use the default username, ubuntu.

ubuntu

Note: In most cases, the default username, ubuntu, is correct. However, read your AMI usage instructions to check if the AMI owner has changed the default AMI username.

Cancel Connect

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VPC

NAT gateways

Create NAT gateway

Elastic IP address 3.111.221.153 (eipalloc-02dcdb8c3b431f54) allocated.

Create NAT gateway info

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

NAT gateway settings

Name - optional

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

Prash-VPC_NAT1

The name can be up to 256 characters long.

Subnet

Select a subnet in which to create the NAT gateway.

subnet-0342f5d3b5e46b07b (Prash-Public-SN1)

Connectivity type

Select a connectivity type for the NAT gateway.

Public

Private

Elastic IP allocation ID

Assign an Elastic IP address to the NAT gateway.

eipalloc-02dcdb8c3b431f54

Allocate Elastic IP

Additional settings info

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 Prash-VPC_NAT1 Remove

Add new tag

You can add 49 more tags.

Cancel Create NAT gateway

