

Module 4: VPC Assignment - 3

You have been asked to:

1. Create 2 EC2 instances in any public subnet of any VPC and name them Master and Client
 2. Using security groups, make sure that Client instance can only be accessed (SSH) through the Master instance
-

https://us-east-1.console.aws.amazon.com/vpc/home?region=us-east-1#CreateVpc:createMode=vpcOnly

N. Virginia VAIBHAV VERMA

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.
Vaibhav-VPC-01

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

IPv4 CIDR
10.0.0.0/16

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

Feedback Looking for language selection? Find it in the new Unified Settings

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⌚ You successfully created vpc-0b021adba602cea35 / Vaibhav-VPC-01

Your VPCs (1/2) Info

Filter VPCs



Actions ▾

Create VPC

< 1 > ⚙

Name	VPC ID	State	IPv4 CIDR	IPv6 CIDR	DHCP option set	Main route table
<input checked="" type="checkbox"/> Vaibhav-VPC-01	vpc-0b021adba602cea35	<input checked="" type="checkbox"/> Available	10.0.0.0/16	-	dopt-05eb69ee65ff0b...	rtb-0db...
<input type="checkbox"/> -	vpc-0b03f01cba75ff067	<input checked="" type="checkbox"/> Available	172.31.0.0/16	-	dopt-05eb69ee65ff0b...	rtb-090...

vpc-0b021adba602cea35 / Vaibhav-VPC-01

Details CIDRs Flow logs Tags

Details

VPC ID	<input type="checkbox"/> vpc-0b021adba602cea35	State	<input checked="" type="checkbox"/> Available	DNS hostnames	Disabled	DNS resolution	Enabled
Tenancy		DHCP option set		Main route table		Main network ACL	
Default		dopt-05eb69ee65ff0b1cf		rtb-0db9eb4578a02bfae		acl-0d4d5cf044455418	
Default VPC		IPv4 CIDR		IPv6 pool		IPv6 CIDR (Network border group)	
No		10.0.0.0/16		-		-	
Network Address Usage metrics		Route 53 Resolver DNS Firewall rule groups		Owner ID			



Create subnet Info

VPC

VPC ID

Create subnets in this VPC.

vpc-0b021adba602cea35 (Vaibhav-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.

Vaibhav-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.

US East (N. Virginia) / us-east-1a



IPv4 CIDR block Info

10.0.1.0/24



To see additional

⌚ You have successfully created 1 subnet: subnet-08407a6c93c3c2460

Subnets (1/7) Info

Filter subnets



Actions ▾

Create subnet

< 1 >

Name	Subnet ID	State	VPC	IPv4 CIDR	IPv6 CIDR	Avail
-	subnet-0106a319f599ab40d	Available	vpc-0b03f01cba75ff067	172.31.80.0/20	-	4091
-	subnet-098f838aa75f6625b	Available	vpc-0b03f01cba75ff067	172.31.48.0/20	-	4091
-	subnet-0c130f14b2821e65a	Available	vpc-0b03f01cba75ff067	172.31.0.0/20	-	4091
-	subnet-0fa59c1c0cf77468a	Available	vpc-0b03f01cba75ff067	172.31.16.0/20	-	4091
-	subnet-0ca07fef3bfe84bc0	Available	vpc-0b03f01cba75ff067	172.31.64.0/20	-	4091
<input checked="" type="checkbox"/> Vaibhav-Public-Subnet	subnet-08407a6c93c3c2460	Available	vpc-0b021adba602cea35 Vai...	10.0.1.0/24	-	251
-	subnet-0e5d9322eef5f0177	Available	vpc-0b03f01cba75ff067	172.31.32.0/20	-	4091

subnet-08407a6c93c3c2460 / Vaibhav-Public-Subnet



Details

Flow logs

Route table

Network ACL

CIDR reservations

Sharing

Tags

Details

Subnet ID

subnet-08407a6c93c3c2460

Subnet ARN

arn:aws:ec2:us-east-1:111952067877:subnet/subnet-

State

Available

IPv4 CIDR

10.0.1.0/24



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.*

Vaibhav-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

Vaibhav-Internet-Gateway

Remove

Add new tag

You can add 49 more tags.

Cancel

Create internet gateway

[Alt + S]



The following internet gateway was created: igw-0166426c8705c6699 - Vaibhav-Internet-Gateway. You can now attach to a VPC to enable the VPC to communicate with the internet.

[Attach to a VPC](#)

Internet gateways (1/2) [Info](#)

Filter internet gateways



Actions ▾

[Create internet gateway](#)

< 1 >

Name	Internet gateway ID	State	VPC ID	Actions
<input checked="" type="checkbox"/> Vaibhav-Internet-Gateway	igw-0166426c8705c6699	Detached	-	View details Attach to VPC
<input type="checkbox"/>	igw-07587c489cb8bcd7	Attached	vpc-0b03f01cba75ff067	View details Detach from VPC Manage tags Delete internet gateway

igw-0166426c8705c6699 / Vaibhav-Internet-Gateway

[Details](#) [Tags](#)

Details

Internet gateway ID

igw-0166426c8705c6699

State

Detached

VPC ID

-

Owner

111952067877



Services



VPC > Internet gateways > Attach to VPC (igw-0166426c8705c6699)

Attach to VPC (igw-0166426c8705c6699) Info

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.

vpc-0b021adba602cea35



▶ AWS Command Line Interface command

Cancel

Attach internet gateway



[Alt+S]

ⓘ Internet gateway igw-0166426c8705c6699 successfully attached to vpc-0b021adba602cea35



VPC > Internet gateways > igw-0166426c8705c6699

igw-0166426c8705c6699 / Vaibhav-Internet-Gateway

Actions ▾

Details Info

Internet gateway ID
 igw-0166426c8705c6699State
 AttachedVPC ID
vpc-0b021adba602cea35 | Vaibhav-VPC-01Owner
 111952067877

Tags

Manage tags

🔍 Search tags

< 1 > ⌂

Key	Value
Name	Vaibhav-Internet-Gateway

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.

VPC

The VPC to use for this route table.

▼

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	Remove
<input type="text" value="Name"/> X	<input type="text" value="Vaibhav-Public-RouteTable"/> X	<input type="button" value="Remove"/>

You can add 49 more tags.

Route table rtb-05b56acf199e90b7 | Vaibhav-Public-RouteTable was created successfully.

Route tables (1/3) [Info](#)

<input type="checkbox"/>	Name	Route table ID	Explicit subnet associat...	Edge associations	Main	VPC	Owner ID
<input type="checkbox"/>	-	rtb-0907f19f27ccfdce8	-	-	Yes	vpc-0b03f01cba75ff067	111952067877
<input type="checkbox"/>	-	rtb-0db9eb4578a02bfae	-	-	Yes	vpc-0b021adba602cea35 Vai...	111952067877
<input checked="" type="checkbox"/>	Vaibhav-Public-RouteTable	rtb-05b56acf199e90b7	-	-	No	vpc-0b021adba602cea35 Vai...	111952067877

rtb-05b56acf199e90b7 / Vaibhav-Public-RouteTable

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

Routes (1)

[Edit routes](#)

<input type="checkbox"/>	Destination	Target	Status	Propagated
	10.0.0.0/16	local	Active	No

https://us-east-1.console.aws.amazon.com/vpc/home?region=us-east-1#EditRoutes:RouteTableId=rtb-05b56acf199e90b7

w Services Search [Alt+S]

VPC > Route tables > rtb-05b56acf199e90b7 > Edit routes

Edit routes

Destination	Target	Status	Propagated
10.0.0.0/16	local	<input checked="" type="radio"/> Active	No
Q 0.0.0.0/0	igw-0166426c8705c6699	-	No

Add route Remove

Cancel Preview Save changes

[Alt+S]


 ⓘ Updated routes for rtb-05b56acf199e90b7 / Vaibhav-Public-RouteTable successfully

[Details](#)
Route tables (1/3) [Info](#)

[Actions](#) ▾

[Create route table](#)
 ⓘ 1 ⓘ

Name	Route table ID	Explicit subnet associat...	Edge associations	Main	VPC	Owner ID
-	rtb-0907f19f27ccfdce8	-	-	Yes	vpc-0b03f01cba75ff067	111952067877
-	rtb-0db9eb4578a02bfae	-	-	Yes	vpc-0b021adba602cea35 Vai...	111952067877
<input checked="" type="checkbox"/> Vaibhav-Public-RouteTable	rtb-05b56acf199e90b7	-	-	No	vpc-0b021adba602cea35 Vai...	111952067877

rtb-05b56acf199e90b7 / Vaibhav-Public-RouteTable
[Details](#) [Routes](#) [Subnet associations](#) [Edge associations](#) [Route propagation](#) [Tags](#)
Explicit subnet associations (0)
 ⓘ [Edit subnet associations](#)
 ⓘ 1 ⓘ
[Subnet ID](#)
[IPv4 CIDR](#)
[IPv6 CIDR](#)

No subnet associations

Only public IP addresses can be associated with a public route table.

https://us-east-1.console.aws.amazon.com/vpc/home?region=us-east-1#EditRouteTableSubnetAssociations:RouteTableId=rtb-05b56acf199e90b7

warn Services Search [Alt+S] N. Virginia VAIBHAV VERMA

VPC > Route tables > rtb-05b56acf199e90b7 > Edit subnet associations

Edit subnet associations

Change which subnets are associated with this route table.

Available subnets (1/1)

Name	Subnet ID	IPv4 CIDR	IPv6 CIDR	Route table ID
<input checked="" type="checkbox"/> Vaibhav-Public-Subnet	subnet-08407a6c93c3c2460	10.0.1.0/24	-	Main (rtb-0db9eb4578a02bfae)

Selected subnets

subnet-08407a6c93c3c2460 / Vaibhav-Public-Subnet X

Cancel Save associations

Feedback Looking for language selection? Find it in the new Unified Settings 

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[Alt+5]

ⓘ You have successfully updated subnet associations for rtb-05b56acfc199e90b7 / Vaibhav-Public-RouteTable.

Route tables (1/3) [Info](#)

<input type="checkbox"/>	Name	Route table ID	Explicit subnet associat...	Edge associations	Main	VPC	Owner ID
<input type="checkbox"/>	-	rtb-0907f19f27ccfdce8	-	-	Yes	vpc-0b03f01cba75ff067	111952067877
<input type="checkbox"/>	-	rtb-0db9eb4578a02bfae	-	-	Yes	vpc-0b021adba602cea35 Vai...	111952067877
<input checked="" type="checkbox"/>	Vaibhav-Public-RouteTable	rtb-05b56acfc199e90b7	subnet-08407a6c93c3c2460	-	No	vpc-0b021adba602cea35 Vai...	111952067877

rtb-05b56acfc199e90b7 / Vaibhav-Public-RouteTable

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

ⓘ You can now check network connectivity with Reachability Analyzer

[Run Reachability Analyzer](#)

Details

Route table ID

rtb-05b56acfc199e90b7

Main

No

Explicit subnet associations

subnet-08407a6c93c3c2460 / Vaibhav-Public-Subnet

Edge associations

-

VPC

vpc-0b021adba602cea35 | Vaibhav-VPC-01

Owner ID

111952067877

https://us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#CreateSecurityGroup:

aws Services Search [Alt+5] N. Virginia VAIBHAV VERMA

EC2 > Security Groups > Create security group

Create security group Info

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 Info

SG-Master-Client

Name cannot be edited after creation.

Description Info

SG-Master-Client

VPC Info

vpc-0b021adba602cea35

Inbound rules Info

Type <small>Info</small>	Protocol <small>Info</small>	Port range <small>Info</small>	Source <small>Info</small>	Description - optional <small>Info</small>	Delete
All traffic	All	All	Anywhere... <input type="button" value="X"/>	0.0.0.0/0 <input type="button" value="X"/>	<input type="button" value="Delete"/>

Add rule

Outbound rules

Feedback Looking for language selection? Find it in the new Unified Settings

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https://us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#CreateSecurityGroup:

A Services [All (+5)] N. Virginia VAIBHAV VERMA

Type Info Protocol Info Port range Info Source Info Description - optional Info Delete

All traffic All All Anywhere... 0.0.0.0/0 X Add rule

Outbound rules Info Type Info Protocol Info Port range Info Destination Info Description - optional Info Delete

All traffic All All Custom 0.0.0.0/0 X Add rule

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.

No tags associated with the resource.

Add new tag You can add up to 50 more tags

Create security group Cancel

⌚ Security group (sg-01638ff9336e289ab | SG-Master-Client) was created successfully

▶ Details

EC2 > Security Groups > sg-01638ff9336e289ab - SG-Master-Client

sg-01638ff9336e289ab - SG-Master-Client

Actions ▾

Details

Security group name

SG-Master-Client

Security group ID

sg-01638ff9336e289ab

Description

SG-Master-Client

VPC ID

vpc-0b021adba602cea35

Owner

111952067877

Inbound rules count

1 Permission entry

Outbound rules count

1 Permission entry

Inbound rules

Outbound rules

Tags

You can now check network connectivity with Reachability Analyzer

Run Reachability Analyzer

X

Inbound rules (1/1)



Manage tags

Edit inbound rules

< 1 >

<input checked="" type="checkbox"/>	Name	Security group rule...	IP version	Type	Protocol	Port range	Source
<input checked="" type="checkbox"/>	-	sgr-0fd505488ea0074fe	IPv4	All traffic	All	All	0.0.0.0/0

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

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EC2 Instances Launch an instance

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: Master-Server 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 our full catalog including 1000s of application and OS images

Recents Quick Start

Amazon Linux macOS Ubuntu Windows Red Hat S

aws Mac

ubuntu Microsoft Red Hat

Browse more AMIs Including AMIs from AWS, Marketplace and the Community

Summary

Number of instances: 1

Software Image (AMI): Canonical, Ubuntu, 22.04 LTS, ...read more
ami-08c40ec9ead489470

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 includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) instance usage on free tier AMIs per month, 30 GiB of EBS storage, 2 million I/Os, 1 GB of snapshots, and 100 GB of bandwidth to the internet.

Cancel Launch Instance

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▼ 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

Web-prod-keypair

 Create new key pair

▼ Network settings [Info](#)

VPC - required [Info](#)

vpc-0b021adba602cea35 (Vaibhav-VPC-01)
10.0.0.0/16



Subnet Info

subnet-08407a6c93c2460
VPC: vpc-0b021adba602cea35 Owner: 111952067877
Availability Zone: us-east-1a IP addresses available: 251 CIDR: 10.0.1.0/24

 Create new subnet


Auto-assign public IP [Info](#)

Enable



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

 Compare security group rules

SG-Master-Client sg-01638ff9336e289ab 
VPC: vpc-0b021adba602cea35

Security groups that you add or remove here will be added to or removed from all your network interfaces.

▼ Summary

Number of instances [Info](#)

1

Software Image (AMI)

Canonical, Ubuntu, 22.04 LTS, ...[read more](#)
ami-08c40ec9ead489470

Virtual server type (instance type)

t2.micro

Firewall (security group)

SG-Master-Client

Storage (volumes)

1 volume(s) - 8 GiB

 **Free tier:** In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable). instance usage on free tier AMIs per month, 30 GiB of EBS storage, 2 million I/Os, 1 GB of snapshots, and 100 GB of bandwidth to the internet. 

Cancel

 Launch instance

AWS Services Search [Alt+S] N. Virginia VAIBHAV VERMA ⓘ

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 Client-Server 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

Recents Quick Start

Amazon Linux macOS Ubuntu Windows Red Hat S

aws Mac ubuntu Microsoft Red Hat

Amazon Machine Image (AMI)

Summary

Number of instances Info 1

Software Image (AMI)
Canonical, Ubuntu, 22.04 LTS, ... read more
ami-08c40ec9ead489470

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 includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) instance usage on free tier AMIs per month, 30 GiB of EBS storage, 2 million I/Os, 1 GB of snapshots, and 100 GB of bandwidth to the internet. X

Cancel Launch instance

Key pair name - required

 [Create new key pair](#)

▼ Network settings [Info](#)

VPC - required [Info](#)

vpc-0b021adba602cea35 (Vaibhav-VPC-01)
10.0.0.0/16

Subnet Info

subnet-08407a6c93c3c2460 Vaibhav-Public-Subnet
VPC: vpc-0b021adba602cea35 Owner: 111952067877
Availability Zone: us-east-1a IP addresses available: 250 CIDR: 10.0.1.0/24

Auto-assign public IP [Info](#)

Enable

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

SG-Master-Client sg-01638ff9336e289ab [X](#)
VPC: vpc-0b021adba602cea35

Security groups that you add or remove here will be added to or removed from all your network interfaces.

► Advanced network configuration

▼ Summary

Number of instances [Info](#)

1

Software Image (AMI)

Canonical, Ubuntu, 22.04 LTS, [...read more](#)
ami-08c40ec9ead489470

Virtual server type (instance type)

t2.micro

Firewall (security group)

SG-Master-Client

Storage (volumes)

1 volume(s) - 8 GiB

 **Free tier:** In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) instance usage on free tier AMIs per month, 30 GiB of EBS storage, 2 million I/Os, 1 GB of snapshots, and 100 GB of bandwidth to the internet. X

Cancel

Launch instance 

Instances (1/4) Info		C	Connect	Instance state	Actions	Launch instances	▼
Find instance by attribute or tag (case-sensitive)							
Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS
<input type="checkbox"/> Client-Server	i-04201a6f18c366843	Terminated	t2.micro	-	No alarms	us-east-1a	-
<input type="checkbox"/> Master-Server	i-0e7b8e1547fd0cdef	Terminated	t2.micro	-	No alarms	us-east-1a	-
<input type="checkbox"/> Client-Server	i-052f88df87d676298	Running	t2.micro	2/2 checks passed	No alarms	us-east-1a	-
<input checked="" type="checkbox"/> Master-Server	i-0003cb280c1b96de0	Running	t2.micro	2/2 checks passed	No alarms	us-east-1a	54.17

Instance: i-0003cb280c1b96de0 (Master-Server)

[Details](#) | [Security](#) | [Networking](#) | [Storage](#) | [Status checks](#) | [Monitoring](#) | [Tags](#)

▼ Instance summary [Info](#)

Instance ID

[i-0003cb280c1b96de0 \(Master-Server\)](#)

Public IPv4 address

[54.173.151.36 \[open address\]](#)

Private IPv4 addresses

[10.0.1.50](#)

IPv6 address

-

Instance state

[Running](#)

Public IPv4 DNS

-

Hostname type

IP name: ip-10-0-1-50.ec2.internal

Private IP DNS name (IPv4 only)

[ip-10-0-1-50.ec2.internal](#)

Answer private resource DNS name

IPv4 (A)

Instance type

t2.micro

Elastic IP addresses

-

Auto-assigned IP address

[54.173.151.36 \[Public IP\]](#)

VPC ID

[vpc-0b021adba602cea35 \(Vaibhav-VPC-01\)](#)

AWS Compute Optimizer finding

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

https://us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#ConnectToInstance:instanceId=i-0003cb280c1b96de0

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EC2 Instances i-0003cb280c1b96de0 Connect to instance

Connect to instance Info

Connect to your instance i-0003cb280c1b96de0 (Master-Server) using any of these options

EC2 Instance Connect Session Manager SSH client EC2 serial console

Instance ID
i-0003cb280c1b96de0 (Master-Server)

Public IP address
54.173.151.36

User name
ubuntu

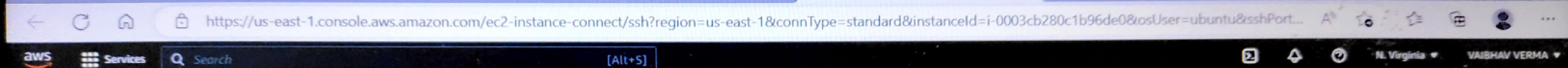
Connect using a custom user name, or use the default user name ubuntu for the AMI used to launch the instance.

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

Cancel Connect

https://us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=us-east-1&connType=standard&instanceId=i-0003cb280c1b96de0&osUser=ubuntu&sshPort=22

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```
ubuntu@ip-10-0-1-50:~$ sudo su
root@ip-10-0-1-50:/home/ubuntu$ nano key
```

-----BEGIN RSA PRIVATE KEY-----

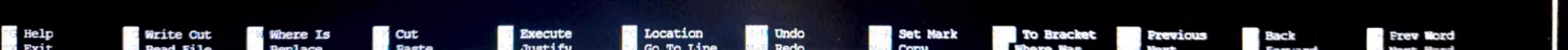
MIIEpAI BAAKCAQEApr1EaukofsG3WUCnHuRCX6dzw6iULLAgPU6temwLjHo5l6ef
80pwd6tCc2s2TIVk7GM1m0OsKae070UNDhpuxukoSpRFDcqUQbtTZ+qeMkIs0x8p
VzCgKaIxPu/IxKHnCu0oyR0PHl0d1h9uH+F0V6MwcJ4VIP/c00FXjGco3LdEjRsD
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bx b1eRo4UoUU4pq119s2M5sPv0o3xAiPXWN1vI8604vBcqtbCzDmPSUDE6R0vYB/
Dd2cuqfvclEB/K/vVL/mx4P3iYolTXi+QlkdtiefsGpAPROVcw/w/UWQtvcY4/1f
KGTguRECgYEAIvqO2iz9m4CZsEI4fd0Wg9udeuNwdHYlZ0neT8iUBAlMeosbwFza
r3783Z03Ti6V/1hIqeoioI+T28HOoWcE1H1VE5+iC0BLyUNbro6cPnI2B6Kc4Rj1
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vzTz7pg4Y5cVZXT9cvBG809ozQBsa2iIi3UDf1PCJJhA74xqwU/Ikw==

-----END RSA PRIVATE KEY-----

https://us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=us-east-1&connType=standard&instanceId=i-0003cb280c1b96de0&ostUser=ubuntu&sshPort=22

N. Virginia ▾ VAIBHAV VERMA ▾

```
GNU nano 6.2
-----BEGIN RSA PRIVATE KEY-----
MIIEpAIBAAKCAEAprlBaukofsc3WUcnHuRCK6dw6iULLAgPU6temLjHo516ef
8opwd6tCc2sTIVk7GM1m0CsKaeC70UNdhpuxkyoSpRFdcgQqbT2+qeNkIs0x8p
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DzxwzvIbXUuAyGIq6+GbjIfceCels9oXXNCsqqjmwpKluDx8SCeTUgjbu/TWFJPj
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Dd2cuqfvclEB/K/vVl/mx4F3iYolTKi+Qlkdtieif5qgPRCVcw/w/UWQtcvY4/lf
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TlCryaxj22EZSt9uLBh10h+vb1j1zkt8t0gIqaId2Y565pi#pxZMCuJZTrwGbvKw
NC8zjK6XiEOMBw0DrIbiuyMNISks1sfcsMSgEWhcwoVAccPwM5071jJF7KbRo0
FggguuAKEgro9bk5cz0exwBgQC+gt+xx/1pjz2C10wPwx94GUz4xEVFpBrF9xw
CNG7RSbHUN0i36zvby1Lr6t2v7outQ9hd9bfktaoep9hlytu2gFlrc
FphoBDgBdmr5bgOO/4ZledWtchokV3w70hc/rfzpN+jn1l7lxPfo0b2M951TNCkE
KngVwxEKgQCL26g9GRUG8CKETCBT067MMRn4Vwz9/k62WbhyzzShuA/JnbQwPLC
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vzrz7pg4Y5cvZxt9cvBG809ozBsA2iIi3UDf1PCJjhA74xqW0/Ikw=
-----END RSA PRIVATE KEY-----
```



i-0003cb280c1b96de0 (Master-Server)

Public IPs: 54.173.151.36 Private IPs: 10.0.1.50

[Alt+S]

Instances (1/4) Info

Find instance by attribute or tag (case-sensitive)

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Publ
<input type="checkbox"/> Client-Server	i-04201a6f18c366843	Terminated	t2.micro	-	No alarms	us-east-1a	-	-
<input type="checkbox"/> Master-Server	i-0e7b8e1547fd0cdef	Terminated	t2.micro	-	No alarms	us-east-1a	-	-
<input checked="" type="checkbox"/> Client-Server	i-052f88df87d676298	Running	t2.micro	2/2 checks passed	No alarms	us-east-1a	-	54.21
<input type="checkbox"/> Master-Server	-i-0003cb280c1b96de0	Running	t2.micro	2/2 checks passed	No alarms	us-east-1a	-	54.17

Instance: i-052f88df87d676298 (Client-Server)

Details | Security | Networking | Storage | Status checks | Monitoring | Tags

▼ Instance summary

Instance ID

i-052f88df87d676298 (Client-Server)

Public IPv4 address

54.211.149.206 | [open address](#)

IPv6 address

-

Instance state

Running

Private IPv4 address copied

10.0.1.243

Public IPv4 DNS

Hostname type

IP name: ip-10-0-1-243.ec2.internal

Private IP DNS name (IPv4 only)

ip-10-0-1-243.ec2.internal

Answer private resource DNS name

IPv4 (A)

Instance type

t2.micro

Elastic IP addresses

-

Auto-assigned IP address

54.211.149.206 [Public IP]

VPC ID

vpc-0b021adba602cea35 (Vaibhav-VPC-01)

AWS Compute Optimizer finding

Opt-in to AWS Compute Optimizer for recommendations.

[Learn more](#)

https://us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=us-east-1&connType=standard&instanceId=i-0003cb280c1b96de0&osUser=ubuntu&sshPort... A ⚡ N. Virginia ▾ VAIBHAV VERMA ▾

aws Services Q [Alt+S]

```
root@ip-10-0-1-50:/home/ubuntu# nano key
root@ip-10-0-1-50:/home/ubuntu# chmod 400 key
root@ip-10-0-1-50:/home/ubuntu# ssh -i key ubuntu@10.0.1.243
Welcome to Ubuntu 22.04.1 LTS (GNU/Linux 5.15.0-1019-aws x86_64)

 * Documentation: https://help.ubuntu.com
 * Management:   https://landscape.canonical.com
 * Support:      https://ubuntu.com/advantage

System information as of Tue Nov  8 20:02:46 UTC 2022

System load:  0.0390625    Processes:          98
Usage of /:   19.7% of 7.57GB  Users logged in:    0
Memory usage: 20%           IPv4 address for eth0: 10.0.1.243
Swap usage:   0%
```

0 updates can be applied immediately.

The list of available updates is more than a week old.
To check for new updates run: sudo apt update

Last login: Tue Nov 8 19:41:10 2022 from 18.206.107.28
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

ubuntu@ip-10-0-1-243:~\$ █

i-0003cb280c1b96de0 (Master-Server)

PublicIPs: 54.173.151.36 PrivateIPs: 10.0.1.50



Services

Q Search

[Alt+S]

```
64 bytes from 10.0.1.243: icmp_seq=1 ttl=64 time=0.019 ms
64 bytes from 10.0.1.243: icmp_seq=2 ttl=64 time=0.034 ms
64 bytes from 10.0.1.243: icmp_seq=3 ttl=64 time=0.035 ms
64 bytes from 10.0.1.243: icmp_seq=4 ttl=64 time=0.037 ms
64 bytes from 10.0.1.243: icmp_seq=5 ttl=64 time=0.036 ms
64 bytes from 10.0.1.243: icmp_seq=6 ttl=64 time=0.036 ms
64 bytes from 10.0.1.243: icmp_seq=7 ttl=64 time=0.034 ms
64 bytes from 10.0.1.243: icmp_seq=8 ttl=64 time=0.035 ms
64 bytes from 10.0.1.243: icmp_seq=9 ttl=64 time=0.036 ms
64 bytes from 10.0.1.243: icmp_seq=10 ttl=64 time=0.039 ms
64 bytes from 10.0.1.243: icmp_seq=11 ttl=64 time=0.035 ms
64 bytes from 10.0.1.243: icmp_seq=12 ttl=64 time=0.035 ms
64 bytes from 10.0.1.243: icmp_seq=13 ttl=64 time=0.035 ms
64 bytes from 10.0.1.243: icmp_seq=14 ttl=64 time=0.036 ms
64 bytes from 10.0.1.243: icmp_seq=15 ttl=64 time=0.035 ms
64 bytes from 10.0.1.243: icmp_seq=16 ttl=64 time=0.037 ms
64 bytes from 10.0.1.243: icmp_seq=17 ttl=64 time=0.032 ms
64 bytes from 10.0.1.243: icmp_seq=18 ttl=64 time=0.036 ms
64 bytes from 10.0.1.243: icmp_seq=19 ttl=64 time=0.035 ms
64 bytes from 10.0.1.243: icmp_seq=20 ttl=64 time=0.036 ms
64 bytes from 10.0.1.243: icmp_seq=21 ttl=64 time=0.037 ms
64 bytes from 10.0.1.243: icmp_seq=22 ttl=64 time=0.033 ms
64 bytes from 10.0.1.243: icmp_seq=23 ttl=64 time=0.032 ms
64 bytes from 10.0.1.243: icmp_seq=24 ttl=64 time=0.035 ms
64 bytes from 10.0.1.243: icmp_seq=25 ttl=64 time=0.036 ms
64 bytes from 10.0.1.243: icmp_seq=26 ttl=64 time=0.036 ms
64 bytes from 10.0.1.243: icmp_seq=27 ttl=64 time=0.035 ms
64 bytes from 10.0.1.243: icmp_seq=28 ttl=64 time=0.036 ms
64 bytes from 10.0.1.243: icmp_seq=29 ttl=64 time=0.036 ms
64 bytes from 10.0.1.243: icmp_seq=30 ttl=64 time=0.036 ms
64 bytes from 10.0.1.243: icmp_seq=31 ttl=64 time=0.050 ms
64 bytes from 10.0.1.243: icmp_seq=32 ttl=64 time=0.036 ms
64 bytes from 10.0.1.243: icmp_seq=33 ttl=64 time=0.043 ms
64 bytes from 10.0.1.243: icmp_seq=34 ttl=64 time=0.032 ms
```

i-0003cb280c1b96de0 (Master-Server)

PublicIPs: 54.173.151.36 PrivateIPs: 10.0.1.50