

VPC Management Console | Assignment4\_KeshavMundra - G | Assignment2\_KeshavMundra - G | Assignment3\_KeshavMundra - G | +

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New VPC Experience Tell us what you think

VPC Dashboard EC2 Global View New Filter by VPC: Select a VPC

**VIRTUAL PRIVATE CLOUD**

- Your VPCs
- Subnets
- Route Tables New
- Internet Gateways
- Egress Only Internet Gateways
- DHCP Options Sets
- Elastic IPs
- Managed Prefix Lists
- Endpoints
- Endpoint Services New
- NAT Gateways
- Peering Connections New

**SECURITY**

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Launch VPC Wizard Launch EC2 Instances

Note: Your Instances will launch in the US East (Ohio) region.

### Resources by Region

C Refresh Resources

You are using the following Amazon VPC resources

VPCs	Ohio 1	NAT Gateways	Ohio 0
Subnets	Ohio 3	VPC Peering Connections	Ohio 0
Route Tables	Ohio 1	Network ACLs	Ohio 1
Internet Gateways	Ohio 1	Security Groups	Ohio 2
Egress-only Internet Gateways	Ohio 0	Customer Gateways	Ohio 0
DHCP options sets	Ohio 1	Virtual Private Gateways	Ohio 0
Elastic IPs	Ohio 0	Site-to-Site VPN Connections	Ohio 0

Service Health

Current Status	Details
<span>Green checkmark</span> Amazon EC2 - US East (Ohio)	Service is operating normally

View complete service health details

Settings

Zones Console Experiments

Additional Information

VPC Documentation All VPC Resources Forums Report an Issue

Transit Gateway Network Manager

Network Manager enables centrally manage your global network across AWS and on-premises. Learn more

Get started with Network Manager

CloudWatch VPC Metrics

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Your VPCs | VPC Management Co | Assignment4\_KeshavMundra - G | Assignment2\_KeshavMundra - G | Assignment3\_KeshavMundra - G | +

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- NAT Gateways
- Peering Connections New

**SECURITY**

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### Your VPCs (1) Info

Filter VPCs

Name	VPC ID	State	IPv4 CIDR	IPv6 CIDR	IPv6 po
-	vpc-0bd89ed5df947dc19	<span>Green checkmark</span> Available	172.31.0.0/16	-	-

Select a VPC above

Actions ▾ Create VPC

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VPC Management Console Assignment4\_KeshavMundra - Assignment2\_KeshavMundra - Assignment3\_KeshavMundra - us-east-2.console.aws.amazon.com/vpc/home?region=us-east-2#CreateVpc:

Services ▾ Search for services, features, marketplace products, and docs [Alt+S]

VPC settings

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

IPv4 CIDR block [Info](#)  
30.0.0.0/21

IPv6 CIDR block [Info](#)  
 No 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 Keshavvpc Remove Add new tag You can add 49 more tags

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VPC Management Console Assignment4\_KeshavMundra - Assignment2\_KeshavMundra - Assignment3\_KeshavMundra - us-east-2.console.aws.amazon.com/vpc/home?region=us-east-2#VpcDetails:vpclid=vpc-0b2e5a3778d3eb63f

aws Services ▾ Search for services, features, marketplace products, and docs [Alt+S]

You successfully created vpc-0b2e5a3778d3eb63f / Keshavvpc

VPC Dashboard EC2 Global View New Filter by VPC: Select a VPC Actions ▾

**VIRTUAL PRIVATE CLOUD**

Your VPCs Subnets Route Tables New Internet Gateways Egress Only Internet Gateways DHCP Options Sets Elastic IPs Managed Prefix Lists Endpoints Endpoint Services New NAT Gateways Peering Connections New SECURITY

**Details** [Info](#)

VPC ID	State	DNS hostnames	DNS resolution
vpc-0b2e5a3778d3eb63f	Available	Disabled	Enabled
Tenancy	DHCP options set	Main route table	Main network ACL
Default	dopt-0d333be4b0138b6bb	rtb-074369cd3f19ab512	acl-0f2d846245da4543f
Default VPC	IPv4 CIDR	IPv6 pool	IPv6 CIDR
No	30.0.0.0/21	-	-
Route 53 Resolver DNS Firewall rule groups	Owner ID		
-	379662736799		

CIDRs Flow logs Tags

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Internet gateways | VPC Manager | Assignment4\_KeshavMundra - G | Assignment2\_KeshavMundra - G | Assignment3\_KeshavMundra - G | +

us-east-2.console.aws.amazon.com/vpc/home?region=us-east-2#gws: Services ▾

New VPC Experience Tell us what you think

EC2 Global View New

Filter by VPC: Select a VPC

VIRTUAL PRIVATE CLOUD Your VPCs Subnets Route Tables New Internet Gateways Egress Only Internet Gateways DHCP Options Sets Elastic IPs Managed Prefix Lists Endpoints Endpoint Services New NAT Gateways Peering Connections New SECURITY Network ACLs Security Groups

Internet gateways (1/1) Info Filter internet gateways Actions Create internet gateway

Name	Internet gateway ID	State	VPC ID	Owner
-	igw-08e14829200f5b166	Attached	vpc-0bd89ed5df947dc19	379662736799

igw-08e14829200f5b166

Details Tags

Details

Internet gateway ID igw-08e14829200f5b166	State Attached	VPC ID vpc-0bd89ed5df947dc19	Owner 379662736799
--	-------------------	---------------------------------	-----------------------

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VPC Management Console | Assignment4\_KeshavMundra - G | Assignment2\_KeshavMundra - G | Assignment3\_KeshavMundra - G | +

us-east-2.console.aws.amazon.com/vpc/home?region=us-east-2#InternetGateway:internetGatewayId=igw-003ad3d020729214d: Services ▾

New VPC Experience Tell us what you think

EC2 Global View New

Filter by VPC: Select a VPC

VIRTUAL PRIVATE CLOUD Your VPCs Subnets Route Tables New Internet Gateways Egress Only Internet Gateways DHCP Options Sets Elastic IPs Managed Prefix Lists Endpoints Endpoint Services New NAT Gateways Peering Connections New SECURITY Network ACLs Security Groups

The following internet gateway was created: igw-003ad3d020729214d. You can now attach to a VPC to enable the VPC to communicate with the internet. Attach to a VPC

VPC > Internet gateways > igw-003ad3d020729214d / Keshavgateway

igw-003ad3d020729214d / Keshavgateway Actions

Details Info

Internet gateway ID igw-003ad3d020729214d	State Detached	VPC ID -	Owner 379662736799
--	-------------------	-------------	-----------------------

Tags Manage tags

Search tags	
Key	Value
Name	Keshavgateway

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Attach internet gateway | VPC M | Assignment4\_KeshavMundra - G | Assignment2\_KeshavMundra - G | Assignment3\_KeshavMundra - G | +

us-east-2.console.aws.amazon.com/vpc/home?region=us-east-2#AttachInternetGateway:internetGatewayId=igw-003ad3d020729214d

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VPC > Internet gateways > Attach to VPC (igw-003ad3d020729214d)

## Attach to VPC (igw-003ad3d020729214d) 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-0b2e5a3778d3eb63f

▶ AWS Command Line Interface command

Cancel

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us-east-2.console.aws.amazon.com/vpc/home?region=us-east-2#InternetGateway:internetGatewayId=igw-003ad3d020729214d

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Keshav Mundra Ohio Support

Internet gateway igw-003ad3d020729214d successfully attached to vpc-0b2e5a3778d3eb63f

VPC > Internet gateways > igw-003ad3d020729214d

## igw-003ad3d020729214d / Keshavgateway

**Details** Info

Internet gateway ID igw-003ad3d020729214d	State <input checked="" type="radio"/> Attached	VPC ID vpc-0b2e5a3778d3eb63f   Keshavvpc	Owner 379662736799
--	--	---	-----------------------

**Tags**

Key	Value
Name	Keshavgateway

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New VPC Experience Tell us what you think

EC2 Global View New

Filter by VPC:

**VIRTUAL PRIVATE CLOUD**

- Your VPCs
- Subnets
- Route Tables New
- Internet Gateways**
- Egress Only Internet Gateways
- DHCP Options Sets
- Elastic IPs
- Managed Prefix Lists
- Endpoints
- Endpoint Services New
- NAT Gateways
- Peering Connections New

**SECURITY**

- Network ACLs
- Security Groups

Subnets | VPC Management Con × Assignment4\_KeshavMundra - G × Assignment2\_KeshavMundra - G × Assignment3\_KeshavMundra - G × +

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

New VPC Experience Tell us what you think

EC2 Global View New

Filter by VPC: Select a VPC

VIRTUAL PRIVATE CLOUD Your VPCs Subnets

Route Tables New Internet Gateways Egress Only Internet Gateways DHCP Options Sets Elastic IPs Managed Prefix Lists Endpoints Endpoint Services New NAT Gateways Peering Connections New

SECURITY Network ACLs Security Groups

Subnets (3) Info

Filter subnets

Name	Subnet ID	State	VPC	IPv4 CIDR	IPv6 CIDR
-	subnet-0896ade82b645ae27	Available	vpc-0bd89ed5df947dc19	172.31.16.0/20	-
-	subnet-016690c5234b1defc	Available	vpc-0bd89ed5df947dc19	172.31.0.0/20	-
-	subnet-09c81bdbfe3379323	Available	vpc-0bd89ed5df947dc19	172.31.32.0/20	-

Select a subnet

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

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

aws Services

VPC > Subnets > Create subnet

Create subnet Info

VPC

VPC ID Create subnets in this VPC. Select a VPC

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

Select a VPC first to create new subnets. Add new subnet

Cancel Create subnet

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**Subnet settings**

Specify the CIDR blocks and Availability Zone for the subnet.

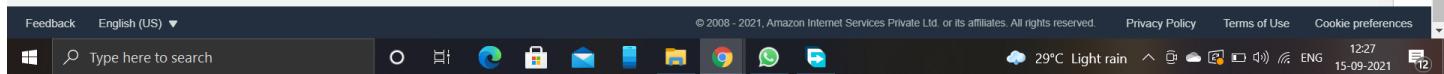
**Subnet 1 of 1**

**Subnet name**  
Create a tag with a key of 'Name' and a value that you specify.  
  
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 CIDR block** [Info](#)

**Tags - optional**



Subnets | VPC Management Con Assignment4\_KeshavMundra - G Assignment2\_KeshavMundra - G Assignment3\_KeshavMundra - G + us-east-2.console.aws.amazon.com/vpc/home?region=us-east-2#subnets:SubnetId=subnet-06da13624702ddae3

**Subnets (1) [Info](#)**

You have successfully created 1 subnet: subnet-06da13624702ddae3

Name	Subnet ID	State	VPC	IPv4 CIDR	IPv6 CIDR
Keshavsubnet	subnet-06da13624702ddae3	Available	vpc-0b2e5a3778d3eb63f   Kes...	30.0.0.0/24	-

Select a subnet

**VIRTUAL PRIVATE CLOUD**

- Your VPCs
- Subnets** [New](#)
- Route Tables [New](#)
- Internet Gateways
- Egress Only Internet Gateways
- DHCP Options Sets
- Elastic IPs
- Managed Prefix Lists
- Endpoints
- Endpoint Services [New](#)
- NAT Gateways
- Peering Connections [New](#)

**SECURITY**

- Network ACLs
- Security Groups

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aws Services Search for services, features, marketplace products, and docs [Alt+S] Keshav Mundra Ohio Support ⓘ

VPC > Subnets > subnet-06da13624702ddae3 > Modify auto-assign IP settings

## Modify auto-assign IP settings Info

Enable the auto-assign IP address setting to automatically request a public IPv4 or IPv6 address for a new network interface in this subnet.

**Settings**

Subnet ID: subnet-06da13624702ddae3

Auto-assign IPv4 Info

Enable auto-assign public IPv4 address

Auto-assign customer-owned IPv4 address Info

Enable auto-assign customer-owned IPv4 address  
Option disabled because no customer owned pools found.

Cancel Save

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Subnets | VPC Management Con Assignment4\_KeshavMundra - G Assignment2\_KeshavMundra - G Assignment3\_KeshavMundra - G + us-east-2.console.aws.amazon.com/vpc/home?region=us-east-2#subnets:SubnetId=subnet-06da13624702ddae3

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New VPC Experience Tell us what you think

EC2 Global View New

Filter by VPC: Select a VPC

**VIRTUAL PRIVATE CLOUD**

Your VPCs

**Subnets** New

Route Tables Internet Gateways Egress Only Internet Gateways DHCP Options Sets Elastic IPs Managed Prefix Lists Endpoints Endpoint Services NAT Gateways Peering Connections New

**SECURITY**

Network ACLs Security Groups

You have successfully modified auto-assign IP settings.

- Public IPv4 address

**Subnets (1/1) Info**

Filter subnets

Subnet ID: subnet-06da13624702ddae3 Clear filters

Name	Subnet ID	State	VPC	IPv4 CIDR	IPv6 CIDR
Keshavsubnet	subnet-06da13624702ddae3	Available	vpc-0b2e5a3778d3eb63f   Kes...	30.0.0.0/24	-

subnet-06da13624702ddae3 / Keshavsubnet

Details Flow logs Route table Network ACL CIDR reservations Sharing Tags

Details

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Route tables | VPC Management   Assignment4\_KeshavMundra - G   Assignment2\_KeshavMundra - G   Assignment3\_KeshavMundra - G   +

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

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New VPC Experience Tell us what you think

EC2 Global View New Filter by VPC: Select a VPC

VIRTUAL PRIVATE CLOUD Your VPCs Subnets Route Tables New Internet Gateways Egress Only Internet Gateways DHCP Options Sets Elastic IPs Managed Prefix Lists Endpoints Endpoint Services New NAT Gateways Peering Connections New

SECURITY Network ACLs Security Groups

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Route tables (2) Info

Name	Route table ID	Explicit subnet associat...	Edge associations	Main	VPC	Ow...
-	rtb-0a429db32af6af56e	-	-	Yes	vpc-0bd89ed5df947dc19	37966.
-	rtb-074369cd3f19ab512	-	-	Yes	vpc-0b2e5a3778d3eb63f   KeshavMundra	37966.

Select a route table

Actions Create route table

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VPC Management Console Assignment4\_KeshavMundra - G Assignment2\_KeshavMundra - G Assignment3\_KeshavMundra - G +

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

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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.  
Keshavroutetable

VPC  
The VPC to use for this route table.  
vpc-0b2e5a3778d3eb63f (Keshavvpc)

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 - <i>optional</i>
Q Name X	Q Keshavroutetable X Remove

Add new tag You can add 49 more tags.

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VPC Management Console Assignment4\_KeshavMundra - Assignment2\_KeshavMundra - Assignment3\_KeshavMundra - + us-east-2.console.aws.amazon.com/vpc/home?region=us-east-2#RouteTableDetails:RouteTableId=rtb-0eefa095f2c75b4f2

New VPC Experience Tell us what you think

EC2 Global View New Filter by VPC: Select a VPC

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- Endpoints
- Endpoint Services New
- NAT Gateways
- Peering Connections New

**SECURITY**

- Network ACLs
- Security Groups

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Route table rtb-0eefa095f2c75b4f2 | Keshavroutetable was created successfully.

VPC > Route tables > rtb-0eefa095f2c75b4f2

## rtb-0eefa095f2c75b4f2 / Keshavroutetable

**Details** **Info**

Route table ID	Main	Explicit subnet associations	Edge associations
rtb-0eefa095f2c75b4f2	No	-	-
VPC	Owner ID	-	
vpc-0b2e5a3778d3eb63f   Keshavvpc	379662736799	-	

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

**Routes (1)**

Destination	Target	Status	Propagated
0.0.0.0/0	0.0.0.0/0	Active	Yes

Edit routes Both < 1 > Filter routes

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EC2 Global View New Filter by VPC: Select a VPC

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- Endpoints
- Endpoint Services New
- NAT Gateways
- Peering Connections New

**SECURITY**

- Network ACLs
- Security Groups

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You successfully set the route table rtb-0eefa095f2c75b4f2 / Keshavroutetable as main.

VPC > Route tables > rtb-0eefa095f2c75b4f2

## rtb-0eefa095f2c75b4f2 / Keshavroutetable

**Details** **Info**

Route table ID	Main	Explicit subnet associations	Edge associations
rtb-0eefa095f2c75b4f2	Yes	-	-
VPC	Owner ID	-	
vpc-0b2e5a3778d3eb63f   Keshavvpc	379662736799	-	

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

**Routes (1)**

Destination	Target	Status	Propagated
0.0.0.0/0	0.0.0.0/0	Active	Yes

Edit routes Both < 1 > Filter routes

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us-east-2.console.aws.amazon.com/vpc/home?region=us-east-2#EditRoutes:RouteTableId=rtb-0eefa095f2c75b4f2

Services Search for services, features, marketplace products, and docs [Alt+S]

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VPC > Route tables > rtb-0eefa095f2c75b4f2 > Edit routes

## Edit routes

Destination	Target	Status	Propagated
30.0.0.0/21	local	Active	No

Add route

Cancel Preview Save changes



VPC Management Console Assignment4\_KeshavMundra - Assignment2\_KeshavMundra - Assignment3\_KeshavMundra - +

us-east-2.console.aws.amazon.com/vpc/home?region=us-east-2#EditRoutes:RouteTableId=rtb-0eefa095f2c75b4f2

Services Search for services, features, marketplace products, and docs [Alt+S]

Keshav Mundra Ohio Support

VPC > Route tables > rtb-0eefa095f2c75b4f2 > Edit routes

## Edit routes

Destination	Target	Status	Propagated
30.0.0.0/21	local	Active	No
0.0.0.0/0	igw-003ad3d020729214d	-	No

Add route

Cancel Preview Save changes



VPC Management Console Assignment4\_KeshavMundra - Assignment2\_KeshavMundra - Assignment3\_KeshavMundra - +

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New VPC Experience Tell us what you think

EC2 Global View New Filter by VPC: Select a VPC

**VIRTUAL PRIVATE CLOUD**

- Your VPCs
- Subnets
- Route Tables** New
- Internet Gateways
- Egress Only Internet Gateways
- DHCP Options Sets
- Elastic IPs
- Managed Prefix Lists
- Endpoints
- Endpoint Services New
- NAT Gateways
- Peering Connections New

**SECURITY**

- Network ACLs
- Security Groups

Updated routes for rtb-0eefaf095f2c75b4f2 / Keshavroutetable successfully

Main Explicit subnet associations Edge associations

Route table ID: rtb-0eefaf095f2c75b4f2 VPC: vpc-0b2e5a3778d3eb63f | Keshavvpc Owner ID: 379662736799

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

**Routes (2)**

Destination	Target	Status	Propagated
30.0.0.0/21	local	Active	No
0.0.0.0/0	igw-003ad3d020729214d	Active	No

Edit routes

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

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Launch instance wizard | EC2 Manager Assignment4\_KeshavMundra - Assignment2\_KeshavMundra - Assignment3\_KeshavMundra - +

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1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Add Tags 6. Configure Security Group 7. Review

### Step 3: Configure Instance Details

Configure the instance to suit your requirements. You can launch multiple instances from the same AMI, request Spot instances to take advantage of the lower pricing, assign an access management role to the instance, and more.

Number of instances: 1 Launch into Auto Scaling Group

Purchasing option: Request Spot instances

Network: vpc-0b2e5a3778d3eb63f | Keshavvpc Create new VPC

Subnet: subnet-06da13624702ddae3 | Keshavsubnet | us-ea Create new subnet  
251 IP Addresses available

Auto-assign Public IP: Use subnet setting (Enable)

Placement group: Add instance to placement group

Capacity Reservation: Open

Domain join directory: No directory Create new directory

IAM role: None Create new IAM role

Shutdown behavior: Stop

Stop - Hibernate behavior: Enable hibernation as an additional stop behavior

Enable termination protection: Protect against accidental termination

Cancel Previous Review and Launch Next: Add Storage

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**Step 6: Configure Security Group**

A security group is a set of firewall rules that control the traffic for your instance. On this page, you can add rules to allow specific traffic to reach your instance. For example, if you want to set up a web server and allow Internet traffic to reach your instance, add rules that allow unrestricted access to the HTTP and HTTPS ports. You can create a new security group or select from an existing one below. [Learn more](#) about Amazon EC2 security groups.

**Assign a security group:**  Create a new security group  
 Select an existing security group

**Security group name:** launch-wizard-2  
**Description:** launch-wizard-2 created 2021-09-15T13:29:48.396+05:30

Type	Protocol	Port Range	Source	Description
All traffic	All	0 - 65535	Anywhere	0.0.0.0/0, ::/0 e.g. SSH for Admin Desktop

**Add Rule**

**Warning**  
 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.

**Cancel** **Previous** **Review and Launch**

**Instance details | EC2 Management** **i-0feab6c8bad3fc899 | EC2 Instances** **Assignment4\_KeshavMundra - G** **Assignment2\_KeshavMundra - G** **Assignment3\_KeshavMundra - G** **+ | us-east-2.console.aws.amazon.com/ec2/v2/home?region=us-east-2#InstanceDetails:instanceId=i-0feab6c8bad3fc899**

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**Instance summary for i-0feab6c8bad3fc899** **Info** Updated less than a minute ago

Instance ID	Public IPv4 address	Private IPv4 addresses
i-0feab6c8bad3fc899	18.118.17.180   <a href="#">open address</a>	30.0.0.202
IPv6 address	Instance state	Public IPv4 DNS
-	Running	-
Private IPv4 DNS	Instance type	Elastic IP addresses
ip-30-0-0-202.us-east-2.compute.internal	t2.micro	-
VPC ID	AWS Compute Optimizer finding	IAM Role
vpc-0b2e5a3778d3eb63f (Keshavvpc)	<a href="#">Opt-in to AWS Compute Optimizer for recommendations.</a>   <a href="#">Learn more</a>	-
Subnet ID		
subnet-06da13624702ddae3 (Keshavsubnet)		

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

**Instance details** **Info**

Platform	AMI ID	Monitoring
Amazon Linux (Inferred)	ami-00dfe2c7ce89a450b	disabled
Platform details	AMI name	Termination protection
Linux/UNIX	amzn2-ami-hvm-2.0.20210813.1-x86_64-gp2	Disabled

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