

NAT (Network Address Translation)

NAT configuration (Two type)

Type – 1 via via configure NAT Instance (FREE)

Create vpc

Your VPCs (1) [Info](#)

[Refresh](#) [Actions](#) [Create VPC](#)

<input type="checkbox"/>	Name	VPC ID	State	IPv4 CIDR	IPv6 CIDR	DHCP
<input type="checkbox"/>	D-VPC	vpc-00d5087c078051c0e	Available	172.31.0.0/16	-	dopt-0...

Create private & public subnet

Subnets (3) [Info](#)

[Refresh](#) [Actions](#) [Create subnet](#)

<input type="checkbox"/>	Name	Subnet ID	State	VPC	IPv4 CIDR	IPv6 CIDR
<input type="checkbox"/>	PUBLIC-SUB	subnet-090d7477f701173cd	Available	vpc-00d5087c078051c0e D-...	172.31.32.0/20	-
<input type="checkbox"/>	PRIVATE-SUB	subnet-0c47e3b8ea67f667c	Available	vpc-00d5087c078051c0e D-...	172.31.0.0/20	-

Explicit subnet private subnet to add in private route

[Refresh](#) [Actions](#) [Create route table](#)

<input type="checkbox"/>	Name	Rou...	Explicit subnet associations	Edge associations	Main	VPC	C...
<input type="checkbox"/>	PUBLIC-ROUTE	rtb-0e...	-	-	Yes	vpc-00d5087c078051c0e D-...	6
<input type="checkbox"/>	PRIVATE-ROUTE	rtb-0ef...	subnet-0c47e3b8ea67f667c / PRIVATE-SUB	-	No	vpc-00d5087c078051c0e D-...	6

Create IGW

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

[Refresh](#) [Actions](#) [Create internet gateway](#)

<input checked="" type="checkbox"/>	Name	Internet gateway ID	State	VPC ID	Owner
<input checked="" type="checkbox"/>	PUBLIC-IGW	igw-08ea8de664ea441d9	Attached	vpc-00d5087c078051c0e D-VPC	659202326636

Create SG

Security Groups (1/1) [Info](#)

[Refresh](#) [Actions](#) [Export security groups to CSV](#) [Create security group](#)

<input checked="" type="checkbox"/>	Name	Security group ID	Security group name	VPC ID	Description	Owner
<input checked="" type="checkbox"/>	PUBLIC-SG	sg-013d69177e9dd7f19	default	vpc-093af54dadd94d739	default VPC security gr...	659202326636

Create EC2 Search EC2 option

Search results for 'EC2'

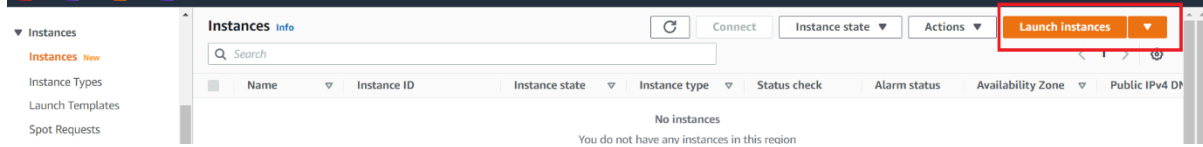
Services 9 [See all 9 results](#)

Features 40
Blogs 1,751
Documentation 127,314
Knowledge Articles 30

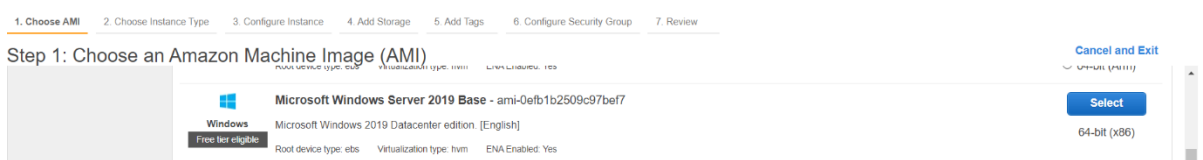
EC2 ★
Virtual Servers in the Cloud

NAT (Network Address Translation)

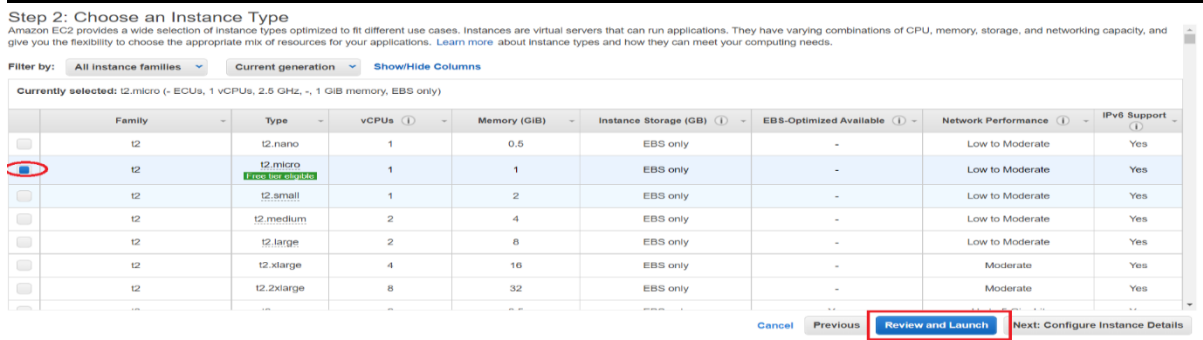
Select launch instances option



Select any free tier eligible (because it's not chargeable)



Select free tier



Select public subnet

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,

Number of instances [Launch into Auto Scaling Group](#)

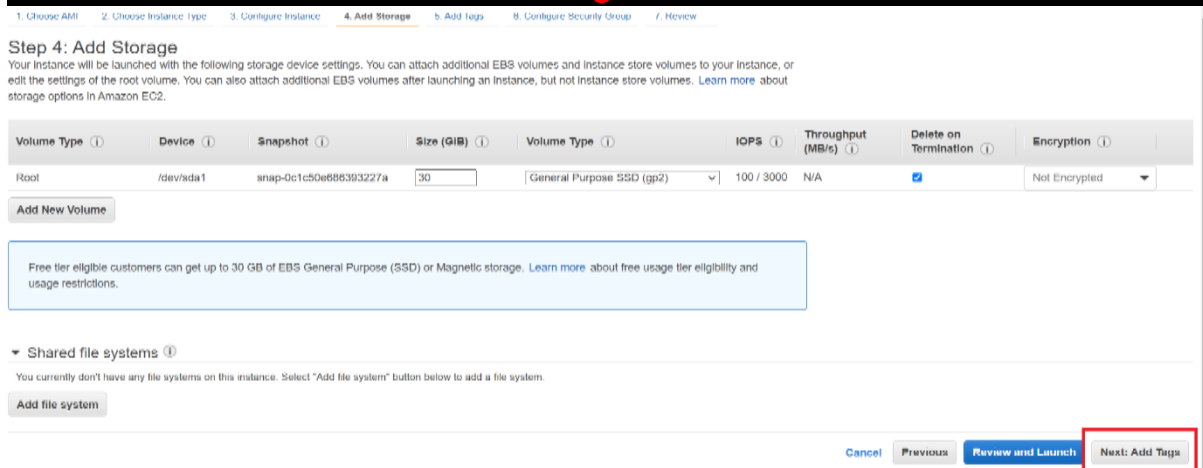
Purchasing option ☐ Request Spot instances

Network [Create new VPC](#)

Subnet [Create new subnet](#)
4091 IP Addresses available

Auto-assign Public IP

Add storage and next



NAT (Network Address Translation)

Download key

Select an existing key pair or create a new key pair

A key pair consists of a **public key** that AWS stores, and a **private key file** that you store. Together, they allow you to connect to your instance securely. For Windows AMIs, the private key file is required to obtain the password used to log into your instance. For Linux AMIs, the private key file allows you to securely SSH into your instance. Amazon EC2 supports ED25519 and RSA key pair types.

Note: The selected key pair will be added to the set of keys authorized for this instance. Learn more about [removing existing key pairs from a public AMI](#).

Create a new key pair

Key pair type

☒ RSA ☐ ED25519

Key pair name

NATSG

Download Key Pair

You have to download the **private key file** (*.pem file) before you can continue. **Store it in a secure and accessible location.** You will not be able to download the file again after it's created.

Cancel Launch Instances

NATSG.pem

After create EC2 open change source/destination check

Instances (1/2) Info

Search

Name	Instance ID	Instance state	Instance type	Status check	Alarm
NAT-IN	i-0495ca5fd46ac7290	Terminated	t2.micro	-	No alarm
NAT	i-0f1d4116a7c844a4a	Pending	t2.micro	-	No alarm

Attach network interface

Detach network interface

Change source/destination check

Disassociate Elastic IP address

Manage IP addresses

Connect

View details

Manage instance state

Instance settings

Networking

Security

Image and templates

Monitor and troubleshoot

Launch instances

Public IPv4 D

ec2-13-233-86

Click to stop

Source / destination check Info

Each EC2 instance performs source and destination checks by default. The instance must be the source or destination of all the traffic it sends and receives.

Instance ID

[i-0495ca5fd46ac7290](#)

Network interface [Info](#)

[eni-0a3b353a30ff6862e](#)

Source / destination checking [Info](#)

☒ Stop

Info If this is a NAT instance, you must stop source / destination checking. A NAT instance must be able to send and receive traffic when the source or destination is not itself.

▼ AWS CLI Command

```
aws ec2 modify-instance-attribute --instance-id=i-0495ca5fd46ac7290 --no-source-dest-check
```

Copy

Cancel

Save

NAT (Network Address Translation)

Disable source

Disabled source / destination checking for i-0f1d4116a7c844a4a

Instances (2) Info Refresh Connect Instance state Actions Launch instances

<input type="checkbox"/>	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IP
<input type="checkbox"/>	NAT-IN	i-0495ca5fd46ac7290	Terminated	t2.micro	-	No alarms	ap-south-1a	-
<input type="checkbox"/>	NAT	i-0f1d4116a7c844a4a	Running	t2.micro	Initializing	No alarms	ap-south-1a	ec2

Check public route

Route tables (1/2) Info Refresh Actions Create route table

<input checked="" type="checkbox"/>	NAME	ROUTE TABLE ID	SUBNET	STATUS	VPC	Public IP
<input checked="" type="checkbox"/>	PUBLIC-RT	rtb-073affa425f099fc9	subnet-06f0a102cd1d3...	-	Yes	vpc-093af54dadd94d739 D-...
<input type="checkbox"/>	PRIVATE-RT	rtb-009fb5dbe9aa6f596	subnet-098705e96bdb8...	-	No	vpc-093af54dadd94d739 D-...

rtb-073affa425f099fc9 / PUBLIC-RT

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

Routes (2) Edit routes

Both

Destination	Target	Status	Propagated
172.31.0.0/16	local	Active	No
0.0.0.0/0	igw-0dd95e22b128c27ea	Active	No

Check private route and edit routes click

<input type="checkbox"/>	NAME	ROUTE TABLE ID	SUBNET	STATUS	VPC	Public IP
<input type="checkbox"/>	PUBLIC-RT	rtb-073affa425f099fc9	subnet-06f0a102cd1d3...	-	Yes	vpc-093af54dadd94d739 D-...
<input checked="" type="checkbox"/>	PRIVATE-RT	rtb-009fb5dbe9aa6f596	subnet-098705e96bdb8...	-	No	vpc-093af54dadd94d739 D-...

rtb-009fb5dbe9aa6f596 / PRIVATE-RT

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

Routes (1) Edit routes

Both

Add routes and insert instance in private route table

Edit routes

Destination	Target	Status	Propagated
172.31.0.0/16	local	Active	No
<input type="text" value="Q"/>	<input type="text" value="Q {"/>	-	No

Egress Only Internet Gateway
Gateway Load Balancer Endpoint
Instance
Internet Gateway

Select NAT id

Edit routes

Destination	Target	Status	Propagated
172.31.0.0/16	local	Active	No
<input type="text" value="Q"/>	<input type="text" value="Q i-0f1d4116a7c844a4a (NAT)"/>	-	No

NAT (Network Address Translation)

Add NAT and save changes

Edit routes

Destination	Target	Status	Propagated
172.31.0.0/16	local	Active	No
0.0.0.0/0	i-Of1d4116a7c844a4a	-	No

Successfully configure

Route tables (1/2) Info

<input type="checkbox"/>	PUBLIC-RT	rtb-073affa425f099fc9	subnet-06f0a102cd1d3...	-	Yes	vpc-093af54dadd94d739 D...
<input checked="" type="checkbox"/>	PRIVATE-RT	rtb-009fb5dbe9aa6f596	subnet-098705e96bdb8...	-	No	vpc-093af54dadd94d739 D...

rtb-009fb5dbe9aa6f596 / PRIVATE-RT

Details Routes Subnet associations Edge associations Route propagation Tags

Routes (2)

Destination	Target	Status	Propagated
172.31.0.0/16	local	Active	No
0.0.0.0/0	eni-08f741653d8bcaacb	Active	No

After create EC2 Automatic create SG

Successfully deleted 3 security groups

Details

Security Groups (1/2) Info

	Name	Security group ID	Security group name	VPC ID	Description	Owner
<input type="checkbox"/>	PUBLIC-SG	sg-013d69177e9dd7f19	default	vpc-093af54dadd94d739	default VPC security gr...	659202326636
<input checked="" type="checkbox"/>	PRIVATE-SG	sg-08fff4389942190b5	launch-wizard-3	vpc-093af54dadd94d739	launch-wizard-3 create...	659202326636

Inbound rules (1/1)

	Name	Security group rule...	IP version	Type	Protocol	Port range
<input checked="" type="checkbox"/>	-	sgr-03135e7d606392ef0	IPv4	RDP	TCP	3389

NAT (Network Address Translation)

Add inbound rules in private

Inbound rules [Info](#)

Security group rule ID	Type Info	Protocol Info	Port range Info	Source Info	Description - optional Info	
sgr-03135e7d606392ef0	RDP	TCP	3389	Custom	0.0.0.0/x	Delete
-	HTTP	TCP	80	Anywh...	0.0.0.0/x	Delete
-	HTTPS	TCP	443	Anywh...	0.0.0.0/x	Delete

[Add rule](#)

[Cancel](#) [Preview changes](#) [Save rules](#)

Outbound rule in private SG

Security Groups (1/2) [Info](#) [Refresh](#) [Actions](#) [Export security groups to CSV](#) [Create security group](#)

	Name	Security group ID	Security group name	VPC ID	Description	Owner
<input type="checkbox"/>	PUBLIC-SG	sg-013d69177e9dd7f19	default	vpc-093af54dadd94d739	default VPC security gr...	659202326636
<input checked="" type="checkbox"/>	PRIVATE-SG	sg-08fff4389942190b5	launch-wizard-3	vpc-093af54dadd94d739	launch-wizard-3 create...	659202326636

Outbound rules (1/1) [Refresh](#) [Manage tags](#) [Edit outbound rules](#)

	Name	Security group rule...	IP version	Type	Protocol	Port range
<input checked="" type="checkbox"/>	-	sgr-04ca30fb004263496	IPv4	All traffic	All	All

If EC2 instance direct terminate

☐ NAT [i-0f1d4116a7c844a4a](#) [Terminated](#) [t2.micro](#) [No alarms](#) [ap-south-1a](#)

After terminate ec2 private route status blackhole

Route tables (1/2) [Info](#) [Refresh](#) [Actions](#) [Create route table](#)

	Name	Route table ID	Subnet	Propagated	Owner
<input type="checkbox"/>	PUBLIC-RT	rtb-073affa425f099fc9	subnet-06f0a102cd1d3...	Yes	vpc-093af54dadd94d739 D...
<input checked="" type="checkbox"/>	PRIVATE-RT	rtb-009fb5dbe9aa6f596	subnet-098705e96bdb8...	No	vpc-093af54dadd94d739 D...

rtb-009fb5dbe9aa6f596 / PRIVATE-RT

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

Routes (2) [Edit routes](#)

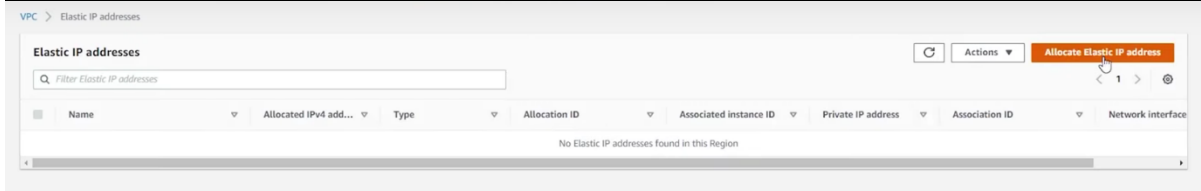
[Both](#)

Destination	Target	Status	Propagated
172.31.0.0/16	local	Active	No
0.0.0.0/0	eni-08f741653d8bcaacb	Blackhole	No

NAT (Network Address Translation)

Type -2 Direct Configure NAT Gateway function to AWS (Chargeable)

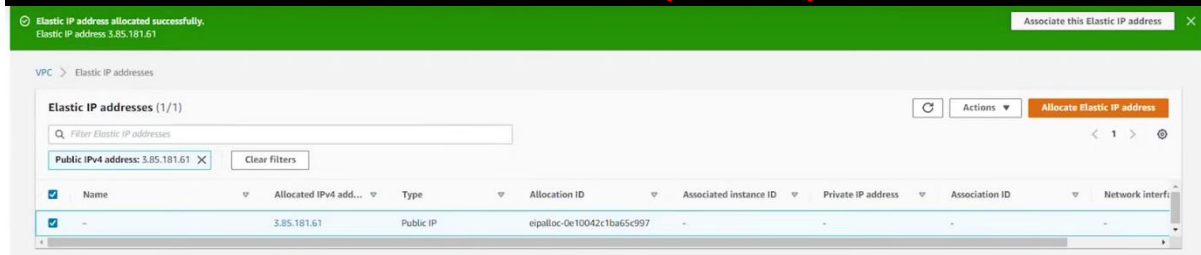
Click to Allocate Elastic ip



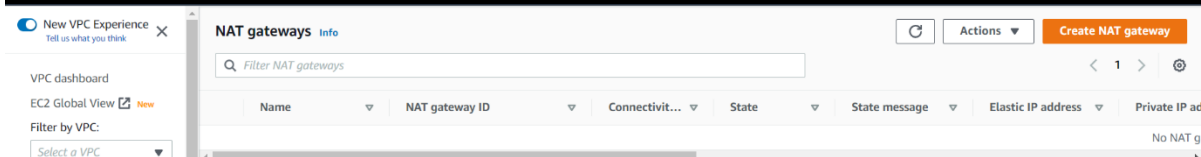
Select to amazon pool



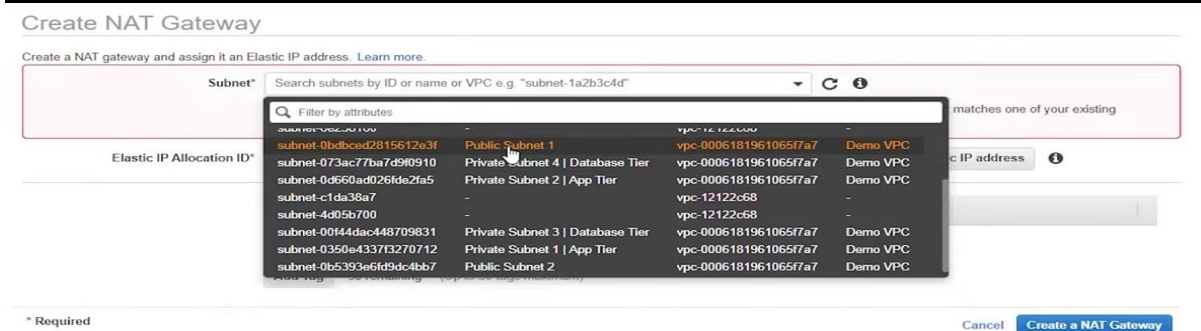
Create successfully elastic ip



Open NAT Gateway and click to create option



Select to public subnet and create



NAT (Network Address Translation)

Select elastic ip and create

Elastic IP Allocation ID*

Allocation ID	Elastic IP
eipalloc-0e10042c1ba65c997	3.85.181.61
eipalloc-093b224aa7b44c61f	54.65.99.81

 50 remaining (Up to 50 tags maximum)

Add tag and create

Create NAT Gateway

Create a NAT gateway and assign it an Elastic IP address. [Learn more.](#)

Subnet*

Elastic IP Allocation ID*

Key	Value
Name	<input type="text" value="NatGateway Public Subnet 1"/>

49 remaining (Up to 50 tags maximum)

* Required

Successfully add and edit route table click

Create NAT Gateway



Your NAT gateway has been created.

Note: In order to use your NAT gateway, ensure that you [edit your route tables](#) to include a route with the following NAT gateway. [Find out more.](#)

NAT Gateway ID nat-0d9ebdcb2136c5a3f

Click private route and edit route

<input type="checkbox"/>	Name	Route Table ID	Explicit subnet association	Edge associations	Main	VPC ID	Owner
<input checked="" type="checkbox"/>	Private Route Table 1	rtb-00103a968a71861aa	2 subnets	-	No	vpc-0006181961065f7a7 ...	960957692776
<input type="checkbox"/>	Private Route Table 2	rtb-0174ad7c38754403c	2 subnets	-	Yes	vpc-0006181961065f7a7 ...	960957692776
<input type="checkbox"/>	Public Route Table	rtb-03f178b1a31935128	2 subnets	-	No	vpc-0006181961065f7a7 ...	960957692776

Route Table: rtb-00103a968a71861aa

View

NAT (Network Address Translation)

Add NAT Gateway

Edit routes

Destination	Target	Status	Propagated
10.0.0.0/16	local	active	No
0.0.0.0/0			No

Add route

* Required

- Egress Only Internet Gateway
- Instance
- Internet Gateway
- NAT Gateway
- Network Interface
- Outpost Local Gateway
- Peering Connection
- Transit Gateway

Cancel

Save routes

Add creating NAT GATEWAY

Edit routes

Destination	Target	Status	Propagated
10.0.0.0/16	local	active	No
0.0.0.0/0	nat-		No

Add route

* Required

nat-0d9ebdcb2136c5a3f NatGateway Public Subnet 1

Cancel

Save routes

ALL configuration done

Route Table: rtb-00103a958a71051aa

Summary

Routes

Subnet Associations

Edge Associations

Route Propagation

Tags

Edit routes



View

All routes

Destination	Target	Status	Propagated
10.0.0.0/16	local	active	No
0.0.0.0/0	nat-0d9ebdcb2136c5a3f	active	No