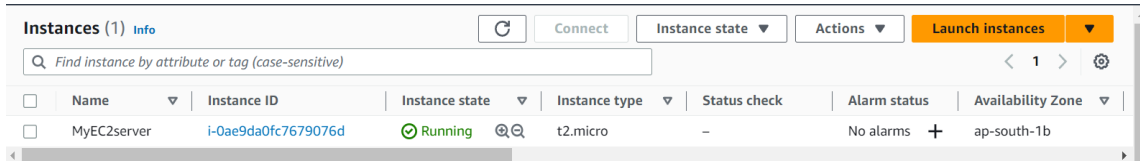


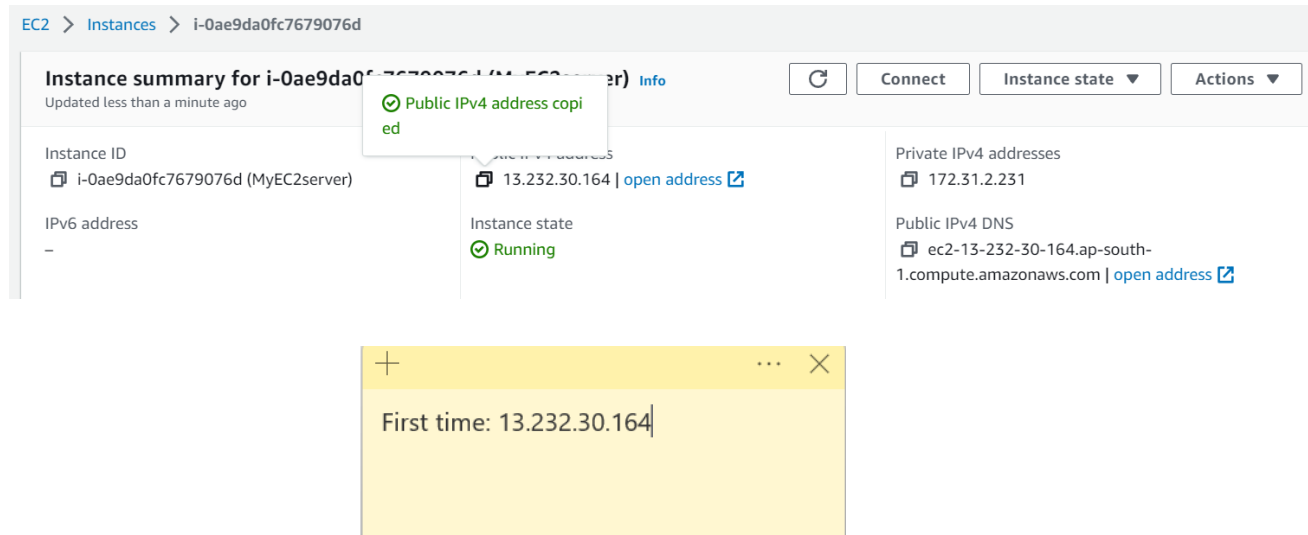
ASSIGNMENT-14

Create an elastic IP for an instance.

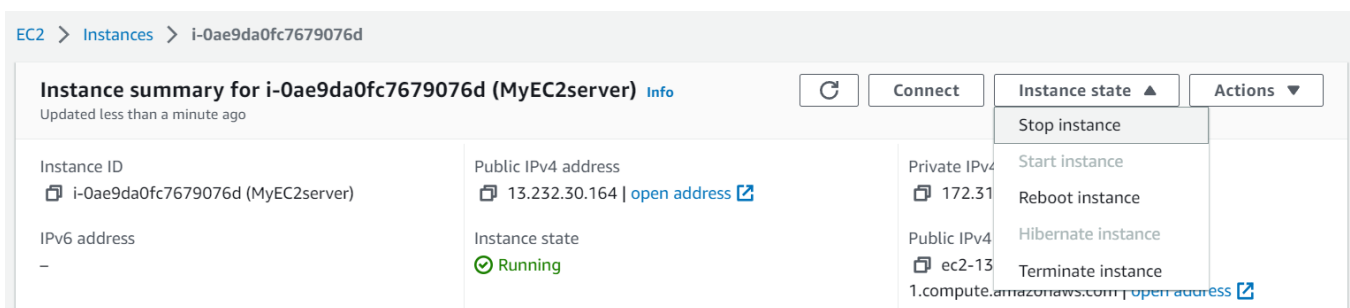
Step 1: Sign in to your AWS Account as Root User. Create an instance in EC2 without any custom security group and user data.



Step 2: Open the instance and note the Public IPv4 address.



Step 3: Now stop the instance and restart it.



Instances (1) 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
MyEC2server	i-0ae9da0fc7679076d	Stopped	t2.micro	-	No alarms	ap-south-1b	-

Successfully started i-0ae9da0fc7679076d

Instances (1/1) 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
MyEC2server	i-0ae9da0fc7679076d	Running	t2.micro	-	No alarms	ap-south-1b	ec2-13-233-81-202.ap-...

Step 4: Now again open the instance and note down the IPv4 address.

EC2 > Instances > i-0ae9da0fc7679076d

Instance summary for i-0ae9da0fc7679076d

Updated less than a minute ago

Instance ID
i-0ae9da0fc7679076d (MyEC2server)

IPv6 address
-

Public IPv4 address copied

13.233.81.202 | open address

Instance state
Running

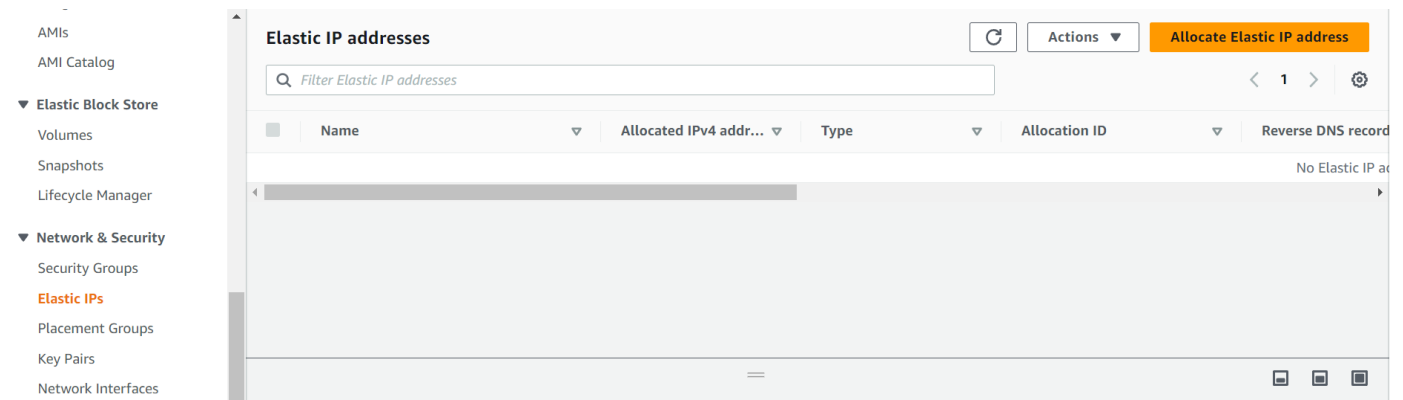
Private IPv4 addresses
172.31.2.231

Public IPv4 DNS
ec2-13-233-81-202.ap-south-1.compute.amazonaws.com | open address

First time: 13.232.30.164
Second time (After restarting): 13.233.81.202

We can see that the address got changed.

Step 5: Now go to EC2 dashboard and go to Elastic IPs and then click on “Allocate Elastic IP Address”.



Step 6: Click on “Allocate”.

EC2 > Elastic IP addresses > Allocate Elastic IP address

Allocate Elastic IP address [Info](#)

Elastic IP address settings [Info](#)

Network Border Group [Info](#)

Public IPv4 address pool

- ☒ Amazon's pool of IPv4 addresses
- ☐ Public IPv4 address that you bring to your AWS account (option disabled because no pools found) [Learn more](#)
- ☐ Customer owned pool of IPv4 addresses (option disabled because no customer owned pools found) [Learn more](#)

Global static IP addresses

AWS Global Accelerator can provide global static IP addresses that are announced worldwide using anycast from AWS edge locations. This can help improve the availability and latency for your user traffic by using the Amazon global network. [Learn more](#)

[Create accelerator](#)

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 tag

[Cancel](#) [Allocate](#)

Step 7: Your Elastic IP is successfully created. Now go to the address generated.

Elastic IP address allocated successfully.

Elastic IP address 3.111.194.159

Associate this Elastic IP address

Elastic IP addresses (1/1)

Actions

Allocate Elastic IP address

Filter Elastic IP addresses

< 1 >

Public IPv4 address: 3.111.194.159

Clear filters

<input checked="" type="checkbox"/>	Name	Allocated IPv4 address	Type	Allocation ID	Reverse DNS record	Associated instance ID	Private
<input checked="" type="checkbox"/>	-	3.111.194.159	Public IP	eipalloc-002d3c10709b85298	-	-	-

Step 8: Note down the Allocated IPv4 address. Then click on “Associate Elastic IP address”.

EC2 > Elastic IP addresses > 3.111.194.159

3.111.194.159

Actions

Associate Elastic IP address

Summary

Allocated IPv4 address 3.111.194.159	Type Public IP	Allocation ID eipalloc-002d3c10709b85298	Reverse DNS record -
Association ID -	Scope VPC	Associated instance ID -	Private IP address -
Network interface ID -	Network interface owner account ID -	Public DNS -	NAT Gateway ID -
Address pool Amazon	Network Border Group ap-south-1		

Step 9: Select Instance. Give Instance name and its Private IP address. Then select Reassociation. After that click on “Associate”.

EC2 > Elastic IP addresses > 3.111.194.159 > Associate Elastic IP address

Associate Elastic IP address


Choose the instance or network interface to associate to this Elastic IP address (3.111.194.159)

Elastic IP address: 3.111.194.159

Resource type
Choose the type of resource with which to associate the Elastic IP address.

☒ Instance

☐ Network interface

 If you associate an Elastic IP address with an instance that already has an Elastic IP address associated, the previously associated Elastic IP address will be disassociated, but the address will still be allocated to your account. [Learn more](#)

If no private IP address is specified, the Elastic IP address will be associated with the primary private IP address.

Instance

Private IP address
The private IP address with which to associate the Elastic IP address.

Reassociation
Specify whether the Elastic IP address can be reassociated with a different resource if it already associated with a resource.

☒ Allow this Elastic IP address to be reassociated

Step 10: Elastic IP address is associated successfully.






✔ Elastic IP address associated successfully.
Elastic IP address 3.111.194.159 has been associated with instance i-0ae9da0fc7679076d

Step 11: Now open the instance. In Public IPv4 address, we can see the elastic IP address.

EC2 > Instances > i-0ae9da0fc7679076d

Instance summary for i-0ae9da0fc7679076d (MyEC2server) [Info](#)

Updated less than a minute ago

Instance ID  i-0ae9da0fc7679076d (MyEC2server)	Public IPv4 address  3.111.194.159 open address	Private IPv4 addresses  172.31.2.231
IPv6 address -	Instance state  Running	Public IPv4 DNS  ec2-3-111-194-159.ap-south-1.compute.amazonaws.com open address

Step 12: Now again stop the instance and restart it.

EC2 > Instances > i-0ae9da0fc7679076d

Instance summary for i-0ae9da0fc7679076d (MyEC2server) [Info](#)

Updated less than a minute ago

[Refresh](#) [Connect](#) [Instance state ▼](#) [Actions ▼](#)

Instance ID i-0ae9da0fc7679076d (MyEC2server)	Public IPv4 address 3.111.194.159 open address	Private IPv4 addresses 172.31.2.231
IPv6 address -	Instance state Running	Public IPv4 DNS ec2-3-111-194-159.ap-south-1.compute.amazonaws.com open address

We can see the address does not change. It's the same elastic IP address.

Thus, we have successfully created an elastic IP address for our instance.