Assignment : 14

Title : Create an Elastic IP for an instance.

Step 1: Create an EC2 instance as we've created before.


```
#!/bin/bash
apt-get update
apt-get upgrade
apt-get install -y nginx
systemctl start nginx
systemctl enable nginx
apt-get install -y git
curl -sL https://deb.nodesource.com/setup_18.x | sudo -E bash -
apt-get install -y nodejs
git clone https://github.com          _aws.git
c            aws
npm install
node index.js
```

Success
Successfully initiated launch of instance (i-0cf4255a187c8ad14)

Step 2: Go to instance and Restart (stop and then start again) the created instance.

Step 3: Go to Elastic IPs and click on Allocate IP to create an Elastic IP and Associate it.

EC2 > Elastic IP addresses > Allocate Elastic IP address

Allocate Elastic IP address Info

Elastic IP address settings Info

Public IPv4 address pool

○ Amazon's pool of IPv4 addresses

○ Public IPv4 address that you bring to your AWS account with BYOIP. (option disabled because no pools found) Learn more

○ Customer-owned pool of IPv4 addresses created from your on-premises network for use with an Outpost. (option disabled because no customer owned pools found) Learn more

○ Allocate using an IPv4 IPAM pool (option disabled because no public IPv4 IPAM pools with AWS service as EC2 were found)

Network border group Info

🔍 ap-south-1 ✕

EC2

Dashboard
EC2 Global View
Events
▼ Instances
Instances
Instance Types
Launch Templates
Spot Requests

✓ **Elastic IP address allocated successfully.**
Elastic IP address 3.109.136.158

(Associate this Elastic IP address) ✕

Elastic IP addresses (1)

🔍 Find resources by attribute or tag

[Actions ▼] [**Allocate Elastic IP address**]

Public IPv4 address : 3.109.136.158 ✕   (Clear filters)

☐	Name ▽	Allocated IPv4 addr... ▽	Type ▽	Allocation ID ▽	Revers
☐	–	3.109.136.158	Public IP	eipalloc-0680d9481cc977267	–

EC2 > Elastic IP addresses > 3.109.136.158

EC2

Dashboard
EC2 Global View
Events
▼ Instances
Instances
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances
Dedicated Hosts
Capacity Reservations

3.109.136.158

[Actions ▼] [**Associate Elastic IP address**]

Summary

Allocated IPv4 address 3.109.136.158	**Type** Public IP	**Allocation ID** eipalloc-0680d9481cc977267	**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		

EC2 > Elastic IP addresses > 3.109.136.158 > Associate Elastic IP address

Associate Elastic IP address

Choose the instance or network interface to associate to this Elastic IP address (3.109.136.158)

Elastic IP address: 3.109.136.158

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

🔍 i-0cf4255a187c8ad14 ✕ ↻

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

🔍 172.31.10.116 ✕

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

Step 4: Check the Instance IP has been changed as same as the newly created Elastic IP.

So, we've successfully Created an Elastic IP for an instance.

At last Delete(Disassociate > Release) the Elastic IP and the created instance.