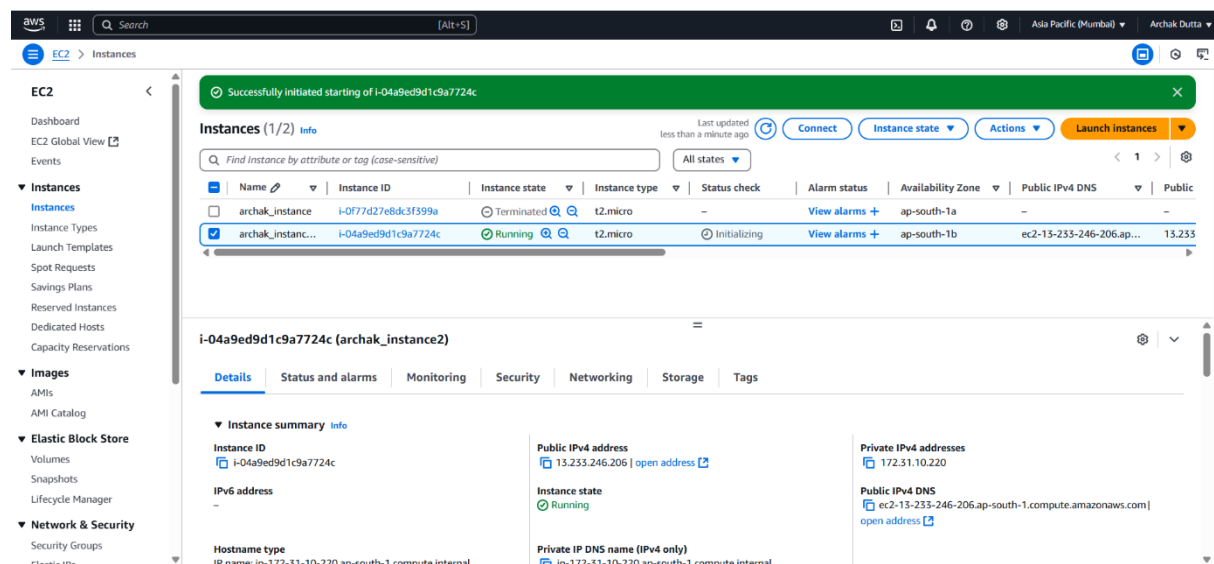
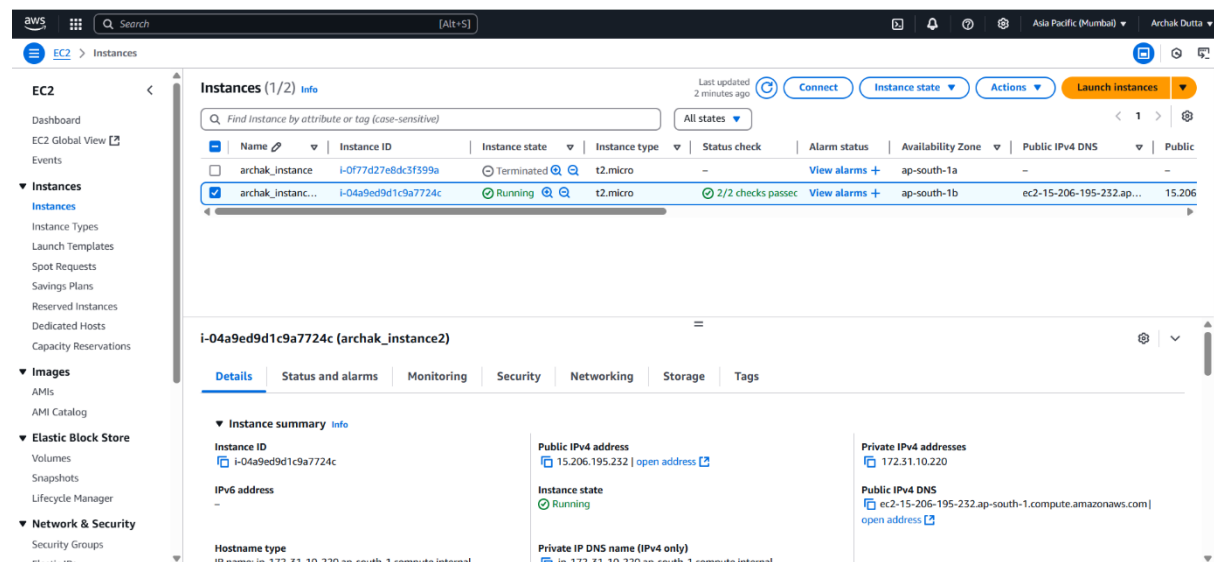


Assignment No: 14

Problem statement: Create an Elastic IP for an instance.

Solution: To create an Elastic IP the steps are-

1. At first we launch an instance on EC2 and check the public IPv4 address. After sometime if we stop the instance and start it again, we will notice that the public IPv4 address will keep on changing.



2. Now to stop the IPv4 address from changing, we need to allocate elastic IP address to the instance. To do this we select elastic IP from EC2 window and select it. Then we select Amazon's pool of IPv4 addresses and click on Allocate option.

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](#)

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](#)

3.Next we click on **associate Elastic IP address** , select **resource type** as instance, provide the required **Instance** and the **Private IP address**. Now click on associate to associate the instance with the elastic IP.

Associate Elastic IP address [Info](#)

Choose the instance or network interface to associate to this Elastic IP address (13.201.153.149)

Elastic IP address: 13.201.153.149

Resource type

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

☒ Instance

☐ Network interface

Warning: 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

[Cancel](#) [Associate](#)

4.Now if we check the public IPv4 address of the instance before and after stopping and restarting the instance we will find that the IP will remain the same.

Instances (1/1) [Info](#)

Last updated less than a minute ago

[Connect](#) [Instance state](#) [Actions](#) [Launch instances](#)

<input checked="" type="checkbox"/>	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public
<input checked="" type="checkbox"/>	archak_instanc...	i-04a9ed9d1c9a7724c	Running	t2.micro	2/2 checks passed	View alarms +	ap-south-1b	ec2-13-201-153-149.ap...	13.201

i-04a9ed9d1c9a7724c (archak_instance2)

[Details](#) [Status and alarms](#) [Monitoring](#) [Security](#) [Networking](#) [Storage](#) [Tags](#)

Instance summary [Info](#)

Instance ID i-04a9ed9d1c9a7724c	Public IPv4 address 13.201.153.149 open address	Private IPv4 addresses 172.31.10.220
IPv6 address -	Instance state Running	Public IPv4 DNS ec2-13-201-153-149.ap-south-1.compute.amazonaws.com open address
Hostname type -	Private DNS name (IPv4 only) -	

AWS [Alt+S] Search [AWS Logo] [User Avatar]

EC2 > Instances

Dashboard

Events

Instances

Instances (1/1) Info

Last updated less than a minute ago

Find Instance by attribute or tag (case-sensitive) All states

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public
archak_instance2	i-04a9ed9d1c9a7724c	Running	t2.micro	2/2 checks passed	View alarms +	ap-south-1b	ec2-13-201-153-149.ap...	13.201

i-04a9ed9d1c9a7724c (archak_instance2)

Details Status and alarms Monitoring Security Networking Storage Tags

Instance summary Info

Instance ID
i-04a9ed9d1c9a7724c

IPv6 address
-

Hostname type
IP name: ip-172-31-10-220.ap-south-1.compute.internal

Public IPv4 address
13.201.153.149 | open address

Private IPv4 addresses
172.31.10.220

Instance state
Running

Public IPv4 DNS
ec2-13-201-153-149.ap-south-1.compute.amazonaws.com | open address

Private IP DNS name (IPv4 only)
ip-172-31-10-220.ap-south-1.compute.internal