

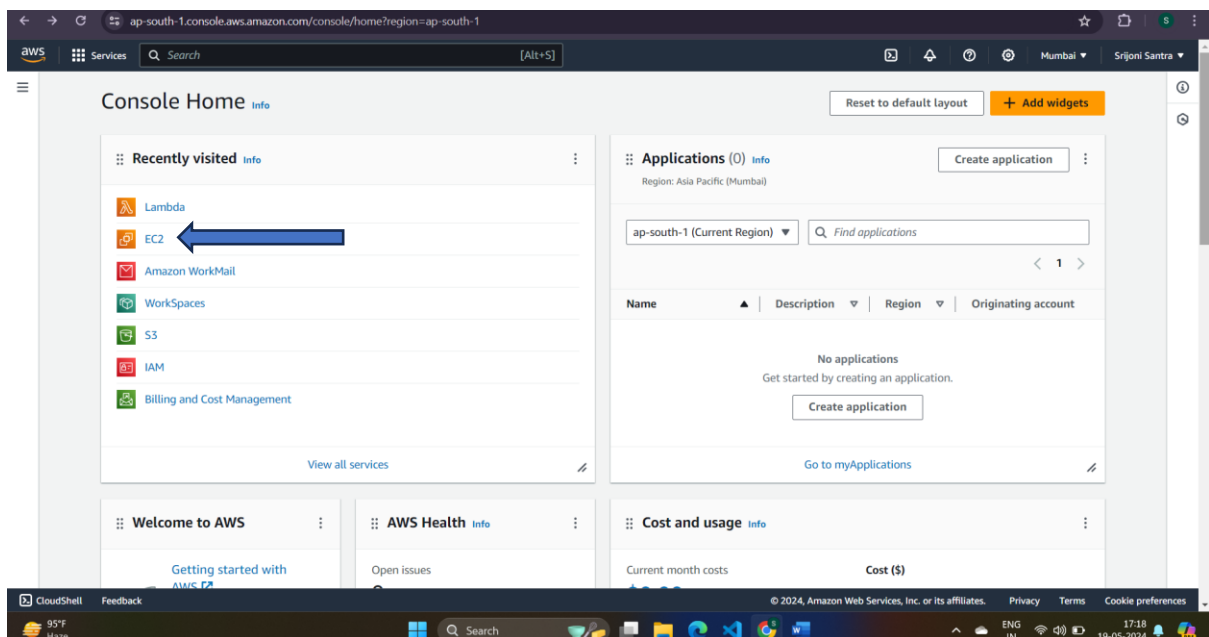
Assignment-14

Problem Statement: Create an Elastic IP for an instance.

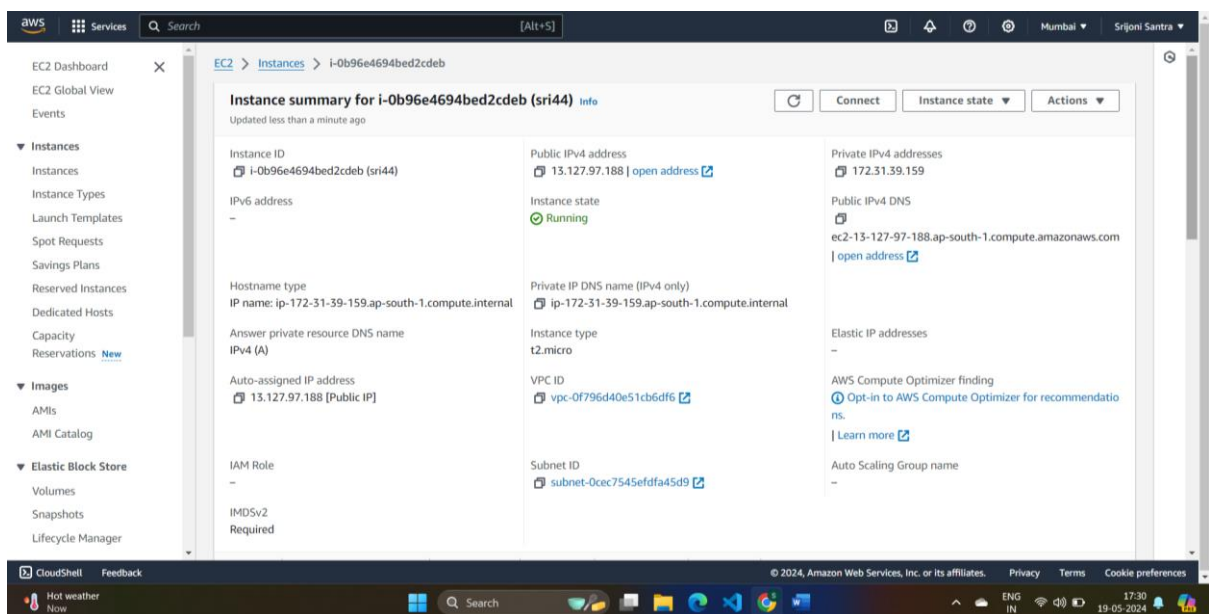
Purpose: The purpose of an Elastic IP address is to provide a static public IP that can be easily reassigned to different instances, ensuring consistent connectivity and simplifying instance management and failover in cloud environments.

Steps & Procedure

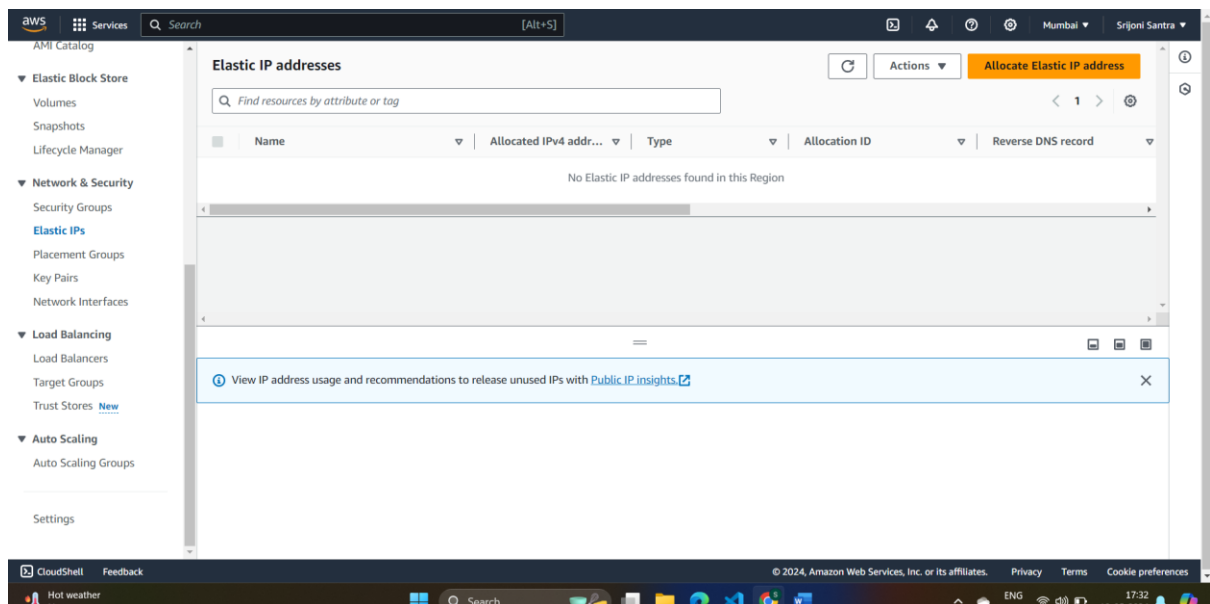
Step 1: Login to the console and click on EC2.



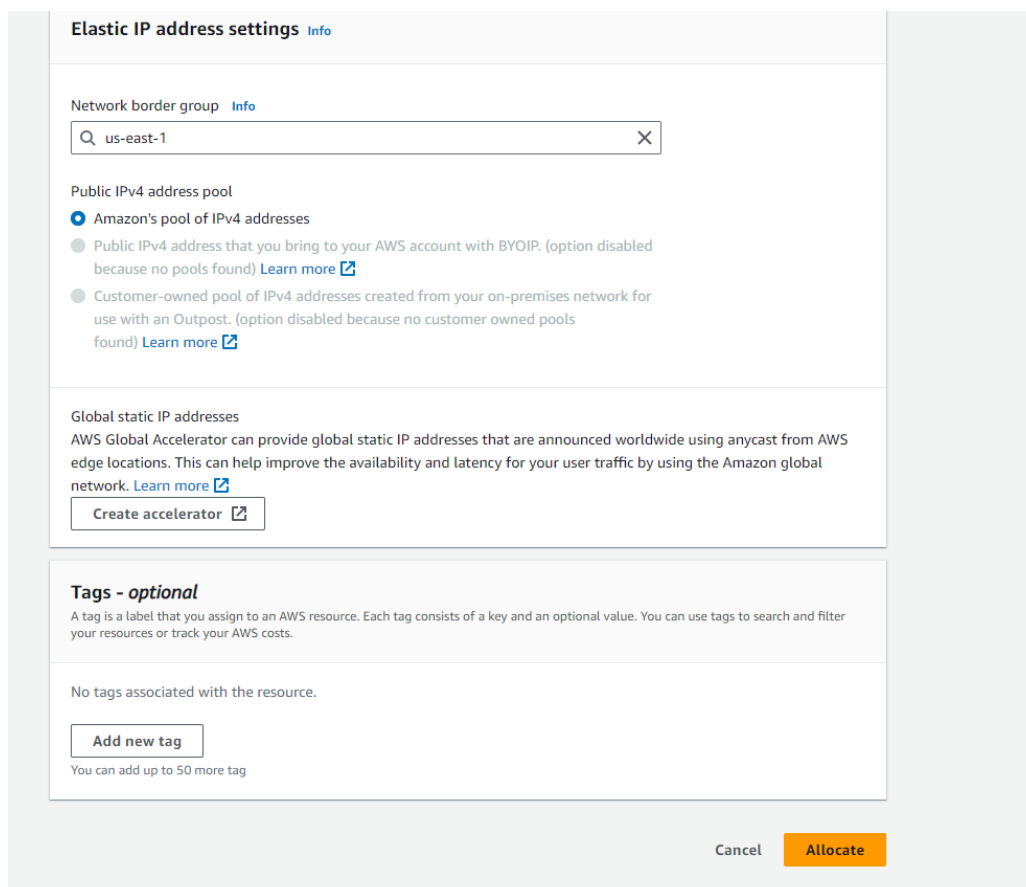
Step 2: Create an instance in EC2



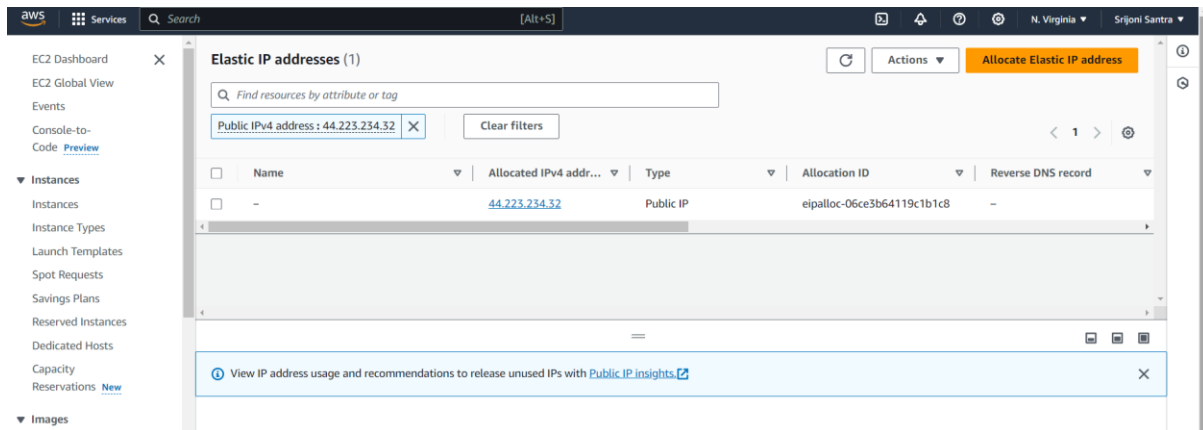
Step 3: Click on “Elastic Ips” under the “Network & Security”, then click on “Allocate Elastic IP address”



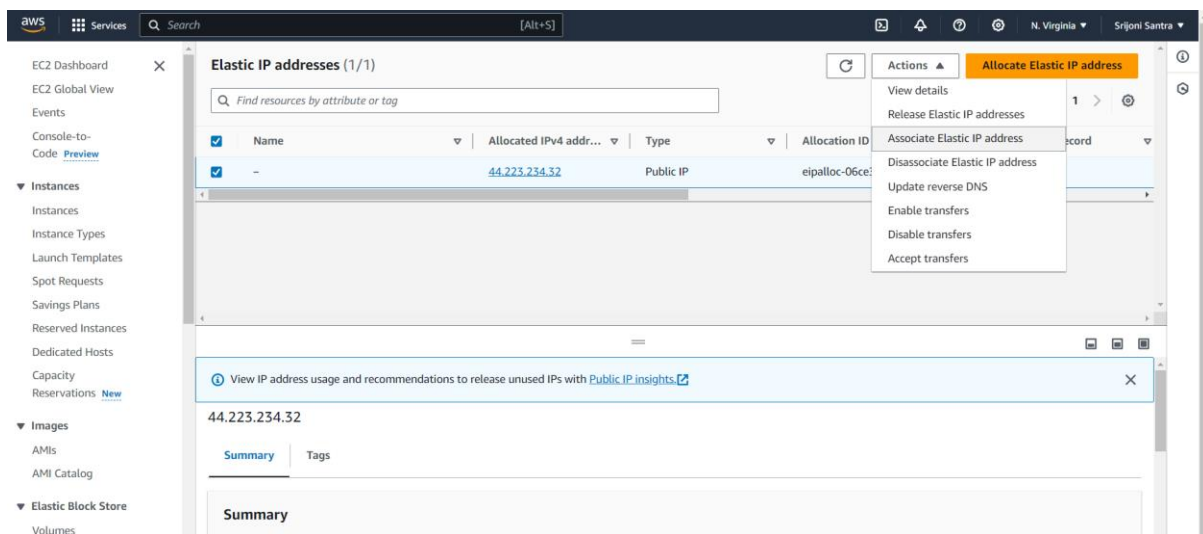
Step 4: After that click on “Allocate” button.



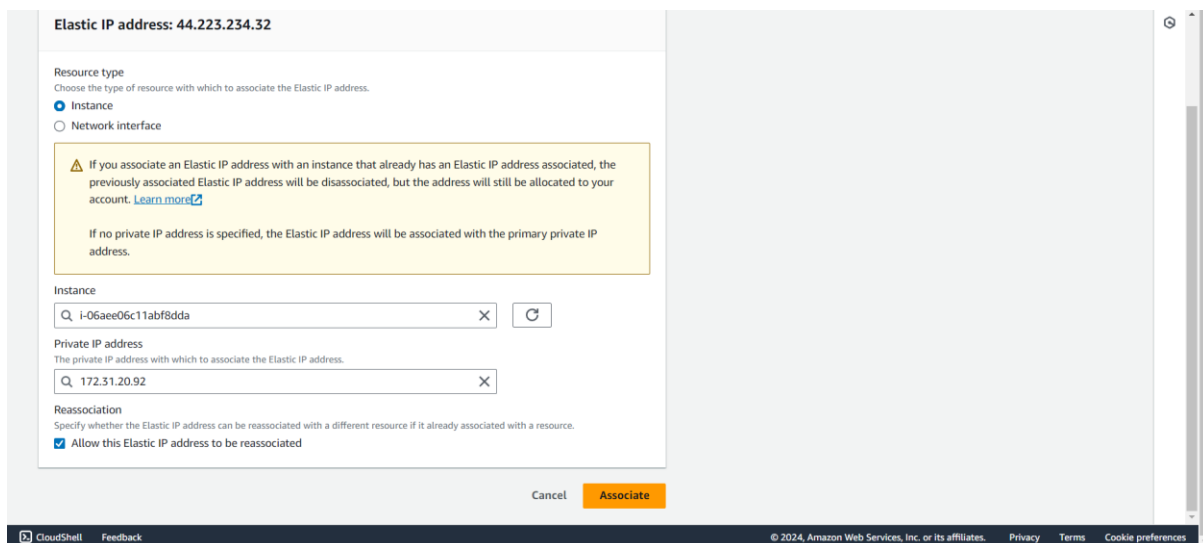
Step 5: Elastic IP address is created successfully.



Step 6: Select the IP address and click on the “Associate Elastic IP Adress”



Step 7: Choose the “instance” & “private IP address” and click on the “Associate” button



Step 8: Now the Elastic IP address is associated successfully.

The screenshot shows the AWS Management Console interface. A green notification banner at the top states: "Elastic IP address associated successfully. Elastic IP address 44.223.234.32 has been associated with instance i-06aee06c11abf8dda". The main content area displays the Elastic IP address 44.223.234.32. Below it, a "Summary" table provides details about the Elastic IP.

| Summary | | | |
|---|--|---|------------------------------------|
| Allocated IPv4 address 44.223.234.32 | Type Public IP | Allocation ID eipalloc-06ce3b64119c1b1c8 | Reverse DNS record - |
| Association ID eipassoc-001105117c9770735 | Scope VPC | Associated instance ID i-06aee06c11abf8dda | Private IP address 172.31.20.92 |
| Network interface ID eni-09701782933342df8 | Network interface owner account ID 654654408461 | Public DNS ec2-44-223-234-32.compute-1.amazonaws.com | NAT Gateway ID - |
| Address pool Amazon | Network border group us-east-1 | | |

Below the summary table, there is a "Tags(0)" section with a "Manage tags" button. The left sidebar shows the navigation menu with categories like Instances, Images, and Elastic Block Store. The top navigation bar includes the AWS logo, search bar, and user information.

Step 9: Now if we check the Instance Public IPv4 address, we can see that it is same as the Elastic IP address.

The screenshot shows the AWS Management Console interface displaying the "Instance summary" for instance i-06aee06c11abf8dda (sri44). The instance is in a "Running" state. The summary table lists various attributes of the instance, including its IP addresses and configuration details.

| Instance summary for i-06aee06c11abf8dda (sri44) info | | |
|--|---|--|
| Instance ID i-06aee06c11abf8dda (sri44) | Public IPv4 address 44.223.234.32 open address | Private IPv4 addresses 172.31.20.92 |
| IPv6 address - | Instance state Running | Public IPv4 DNS ec2-44-223-234-32.compute-1.amazonaws.com open address |
| Hostname type IP name: ip-172-31-20-92.ec2.internal | Private IP DNS name (IPv4 only) ip-172-31-20-92.ec2.internal | Elastic IP addresses 44.223.234.32 [Public IP] |
| Answer private resource DNS name IPv4 (A) | Instance type t2.micro | AWS Compute Optimizer finding Opt-in to AWS Compute Optimizer for recommendations. Learn more |
| Auto-assigned IP address - | VPC ID vpc-082a7c07f04e79efd3f3 | Auto Scaling Group name - |
| IAM Role - | Subnet ID subnet-04c87f04e79efd3f3 | |
| IMDSv2 Required | | |

Below the summary table, there are tabs for "Details", "Status and alarms", "Monitoring", "Security", "Networking", "Storage", and "Tags". The left sidebar shows the navigation menu. The top navigation bar includes the AWS logo, search bar, and user information.