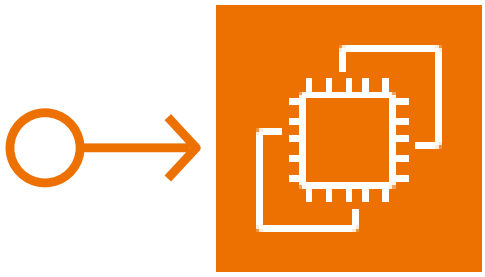
AWS Solution Architect Training with
AWS Cloud Practitioner Global Certification Training

Trainer: Aravindraj.G- Nminds Academy

Configure Elastic IP Address to Windows Web Server in AWS



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Objective

An Elastic IP (EIP) in AWS is a static, public IP address designed for dynamic cloud computing. It is associated with your AWS account and can be quickly associated or disassociated with any EC2 instance in your account. This feature is particularly useful when you need to maintain a consistent IP address for your resources, even when you stop and start EC2 instances.

Common Use Cases for Elastic IP:

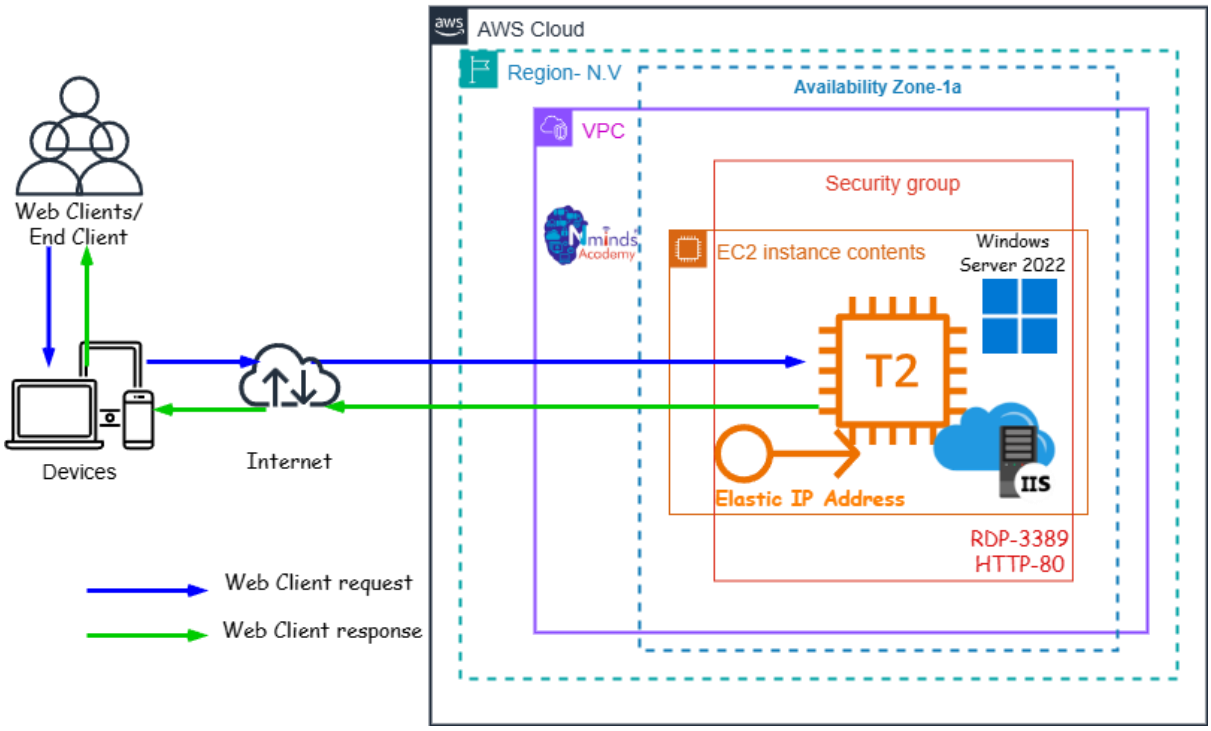
1. Highly Available Applications:
    - If you're running a service that requires high availability, you can use Elastic IPs to quickly reassign a static IP to a new instance if your primary instance fails, ensuring minimal downtime.
2. Web Servers:
    - If you host a website and need to ensure the IP address remains the same even if the underlying EC2 instance is restarted, an Elastic IP helps maintain this consistency.
3. Disaster Recovery:
    - Elastic IPs are useful for disaster recovery scenarios. If one instance goes down, you can quickly associate the EIP with a backup instance to ensure services are still accessible.

Best Practices:

- Use Elastic IPs only when necessary: Since they come with associated costs when unused, it's a good practice to release EIPs that are no longer required.
- Move IPs during instance failure: Instead of keeping an EIP permanently attached, use it as a failover method, reassociating it to a new instance when needed.
- Monitor EIP Usage: Periodically review your usage to ensure you're not paying for unnecessary Elastic IP addresses.

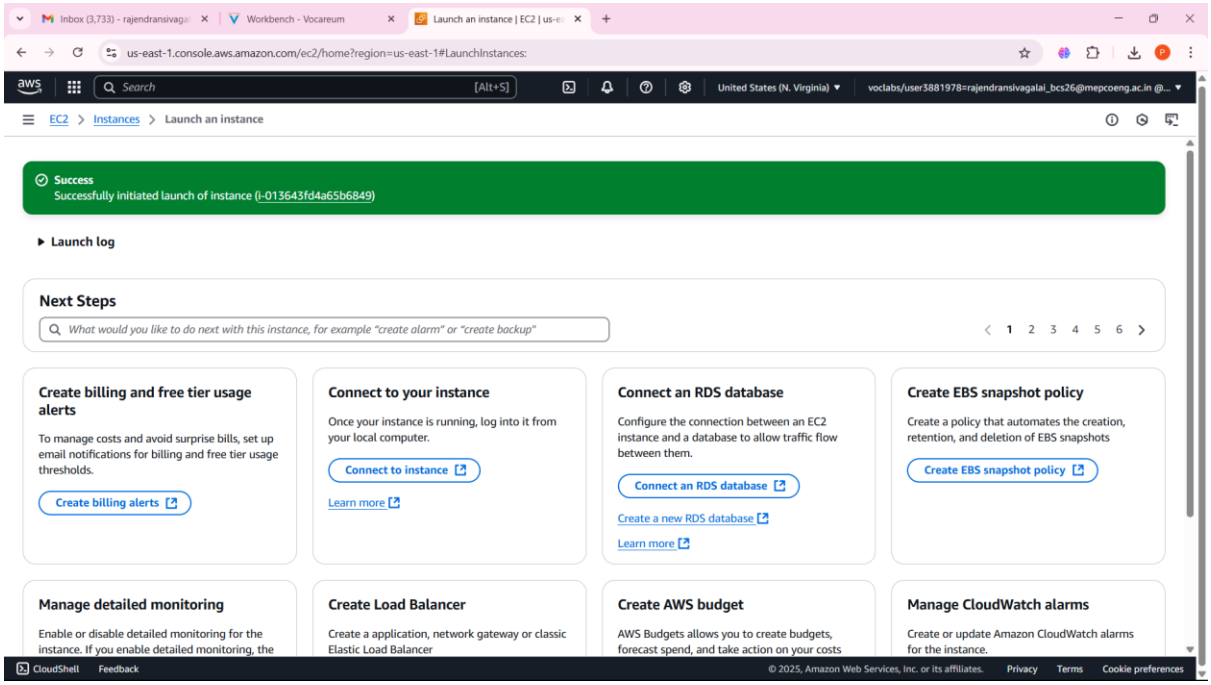
Topology

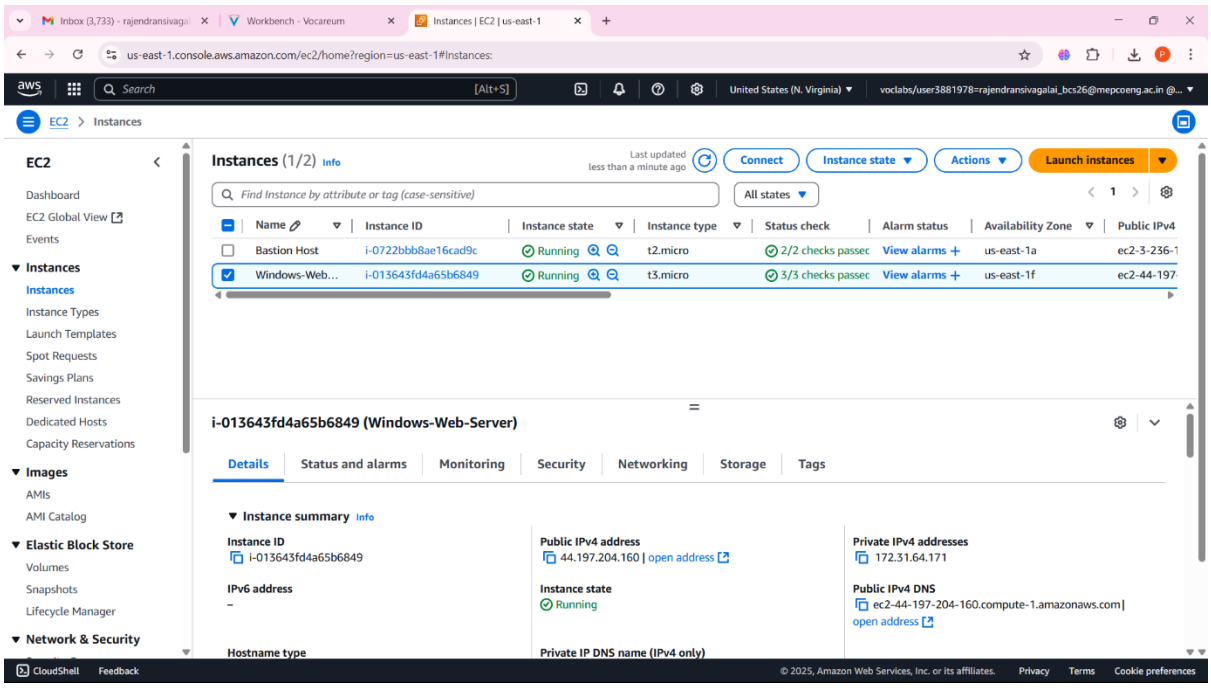
How to Configure the Elastic IP Address to Windows Web Server with AWS EC2



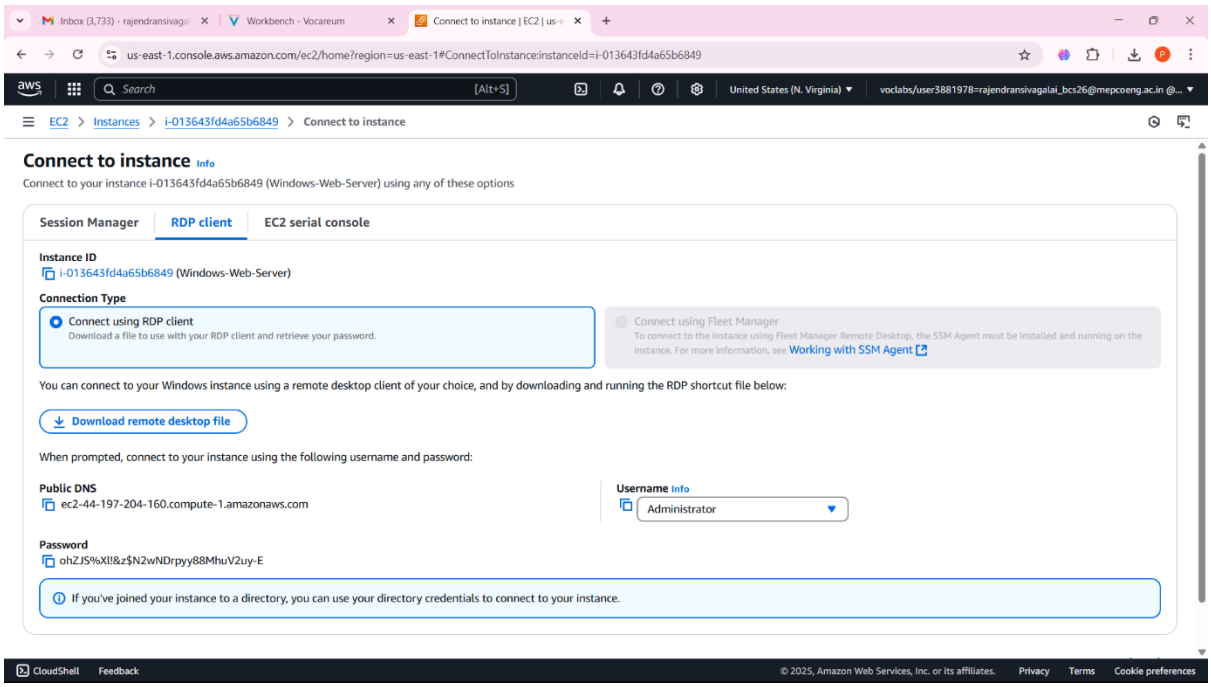
Execution Tasks:

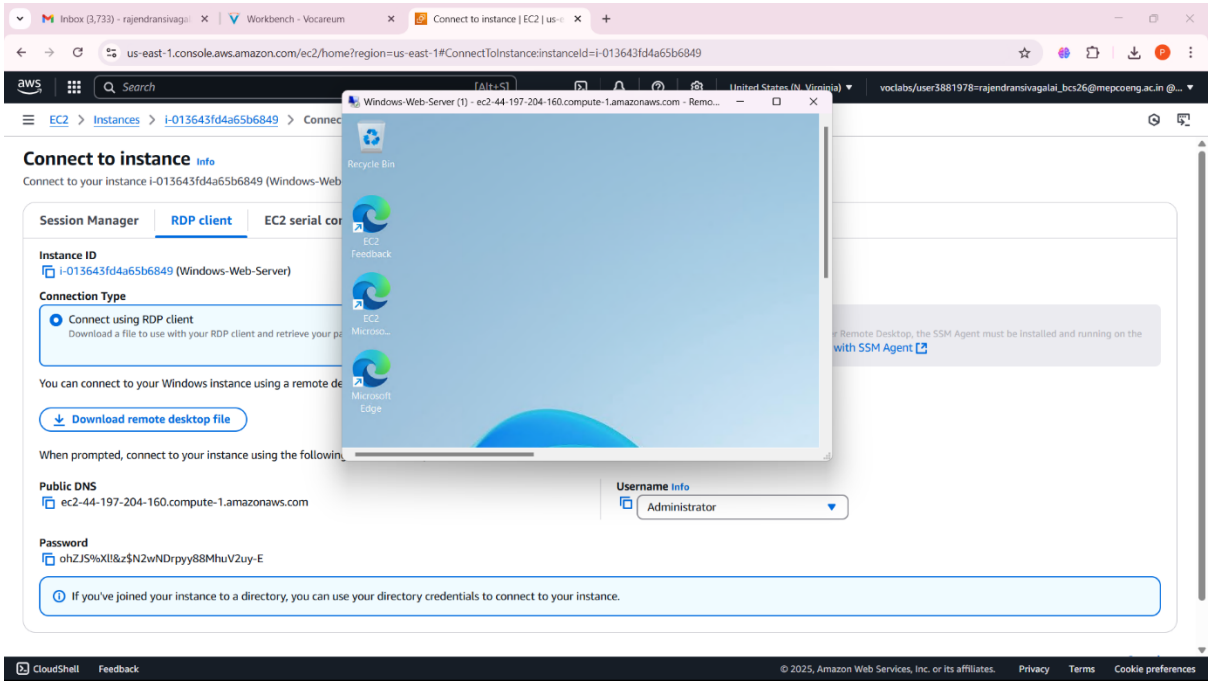
Step 1: Launch a Windows EC2 Instance

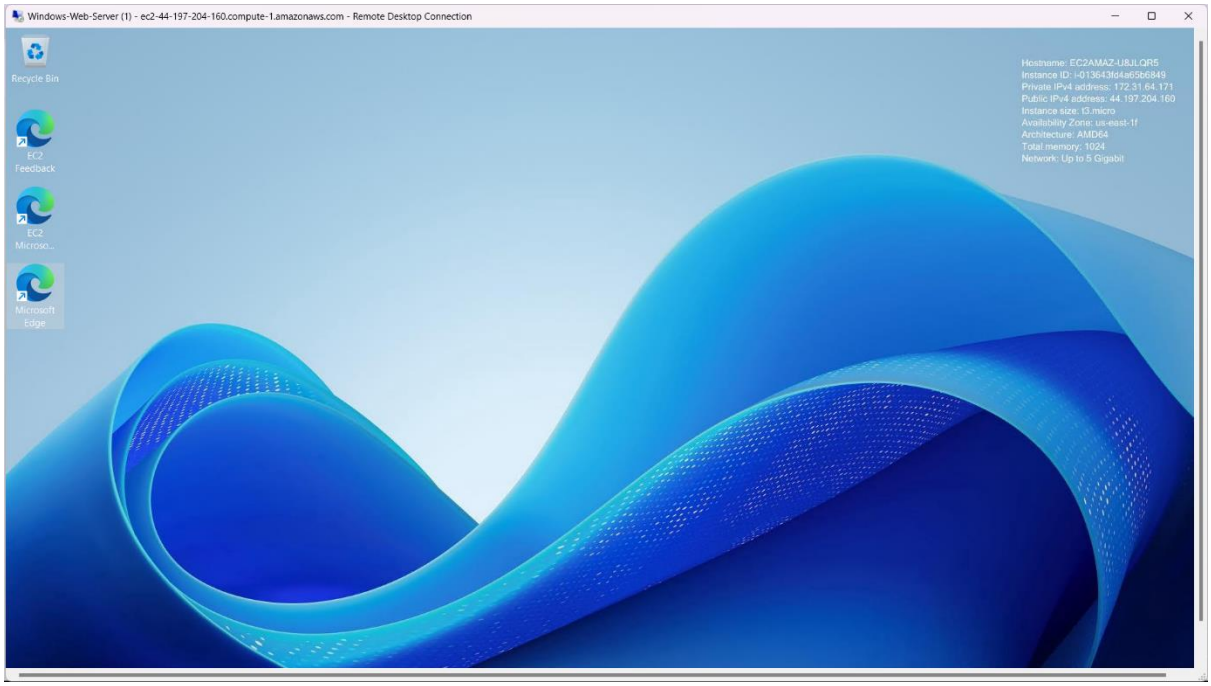




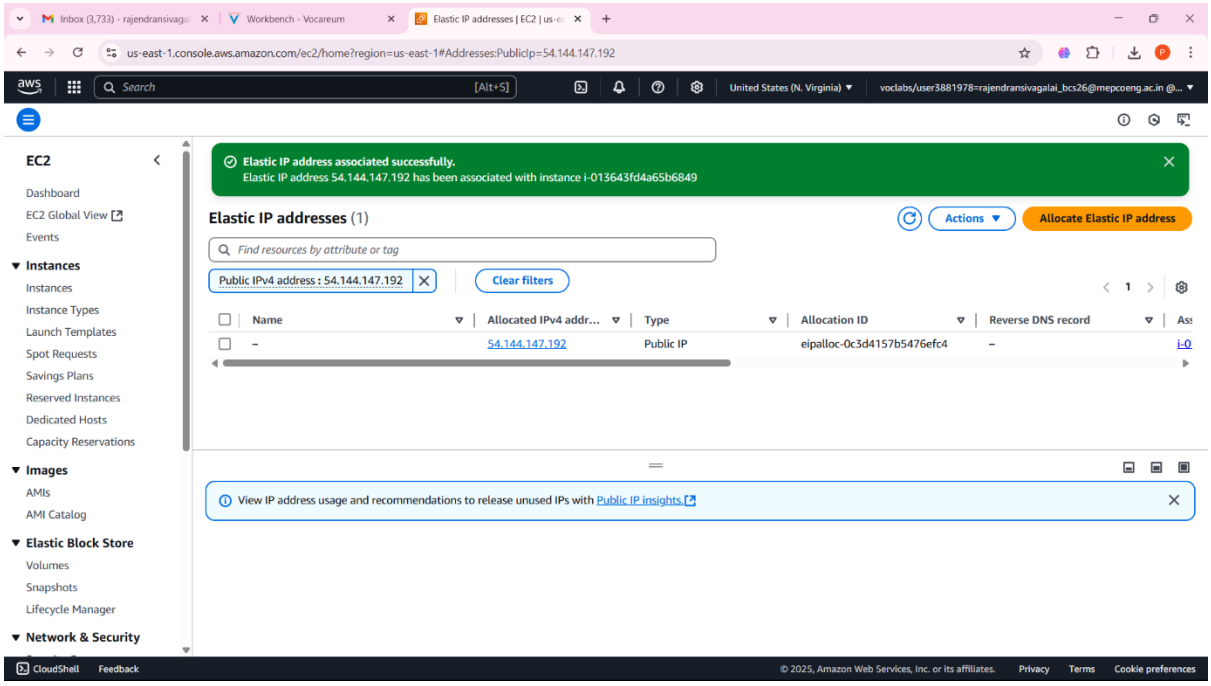
Step 2: Install IIS (Web Server) on the Windows Instance



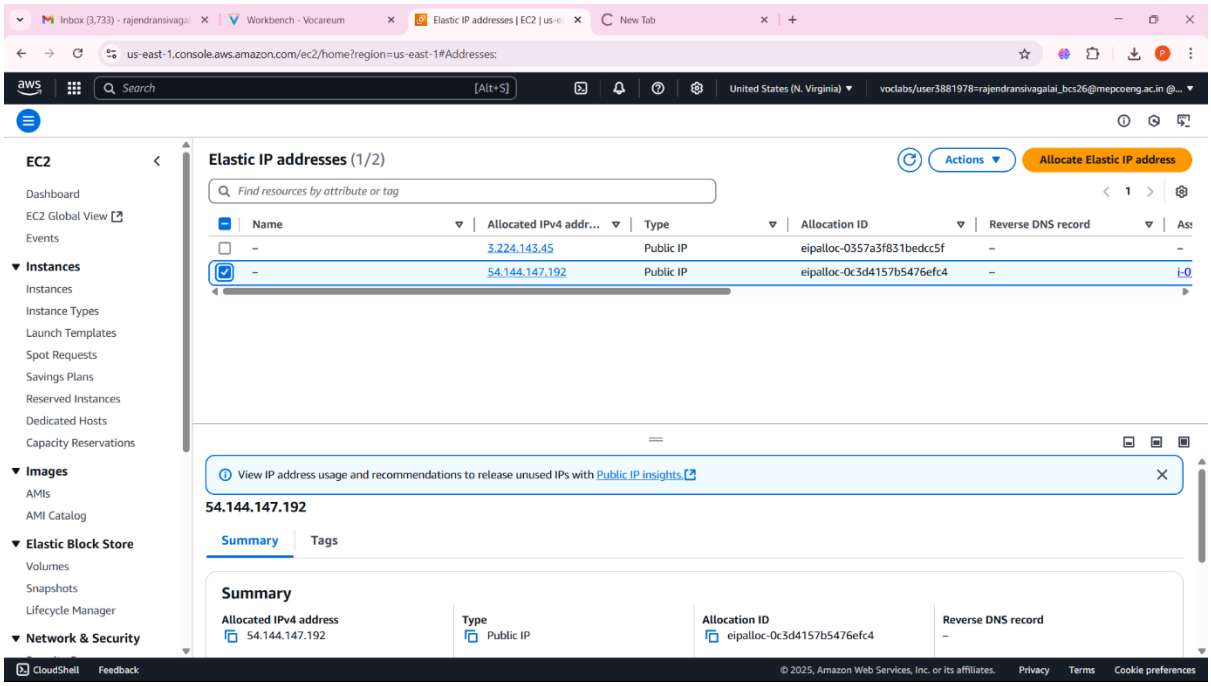


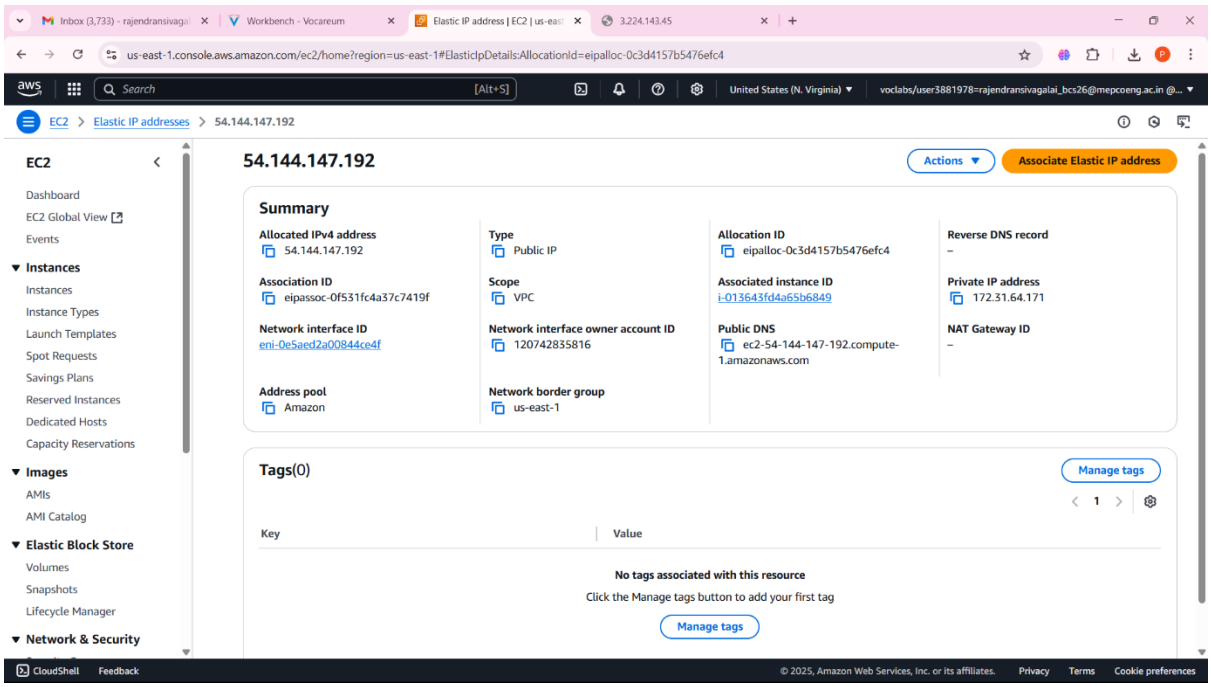


Step 3; Allocate an Elastic IP Address



Step 4: Associate the Elastic IP with the EC2 Instance


Elastic IP addresses (1/2)
Actions
Allocate Elastic IP address
Find resources by attribute or tag
Name
Allocated IPv4 addr...
Type
Allocation ID
Reverse DNS record
3.224.143.45
Public IP
eipalloc-0357a3f831bedcc5f
54.144.147.192
Public IP
eipalloc-0c3d4157b5476efc4
View IP address usage and recommendations to release unused IPs with Public IP insights
54.144.147.192
Summary
Tags
Allocated IPv4 address
54.144.147.192
Type
Public IP
Allocation ID
eipalloc-0c3d4157b5476efc4
Reverse DNS record


54.144.147.192
Actions
Associate Elastic IP address
Summary
Allocated IPv4 address
54.144.147.192
Type
Public IP
Allocation ID
eipalloc-0c3d4157b5476efc4
Reverse DNS record
Association ID
eipassoc-0f531fc4a37c7419f
Scope
VPC
Associated instance ID
i-013643fd4a65b6849
Private IP address
172.31.64.171
Network interface ID
eni-0e5aed2a00844ce4f
Network interface owner account ID
120742835816
Public DNS
ec2-54-144-147-192.compute-1.amazonaws.com
NAT Gateway ID
Address pool
Amazon
Network border group
us-east-1
Tags(0)
Manage tags
Key
Value
No tags associated with this resource
Click the Manage tags button to add your first tag
Manage tags