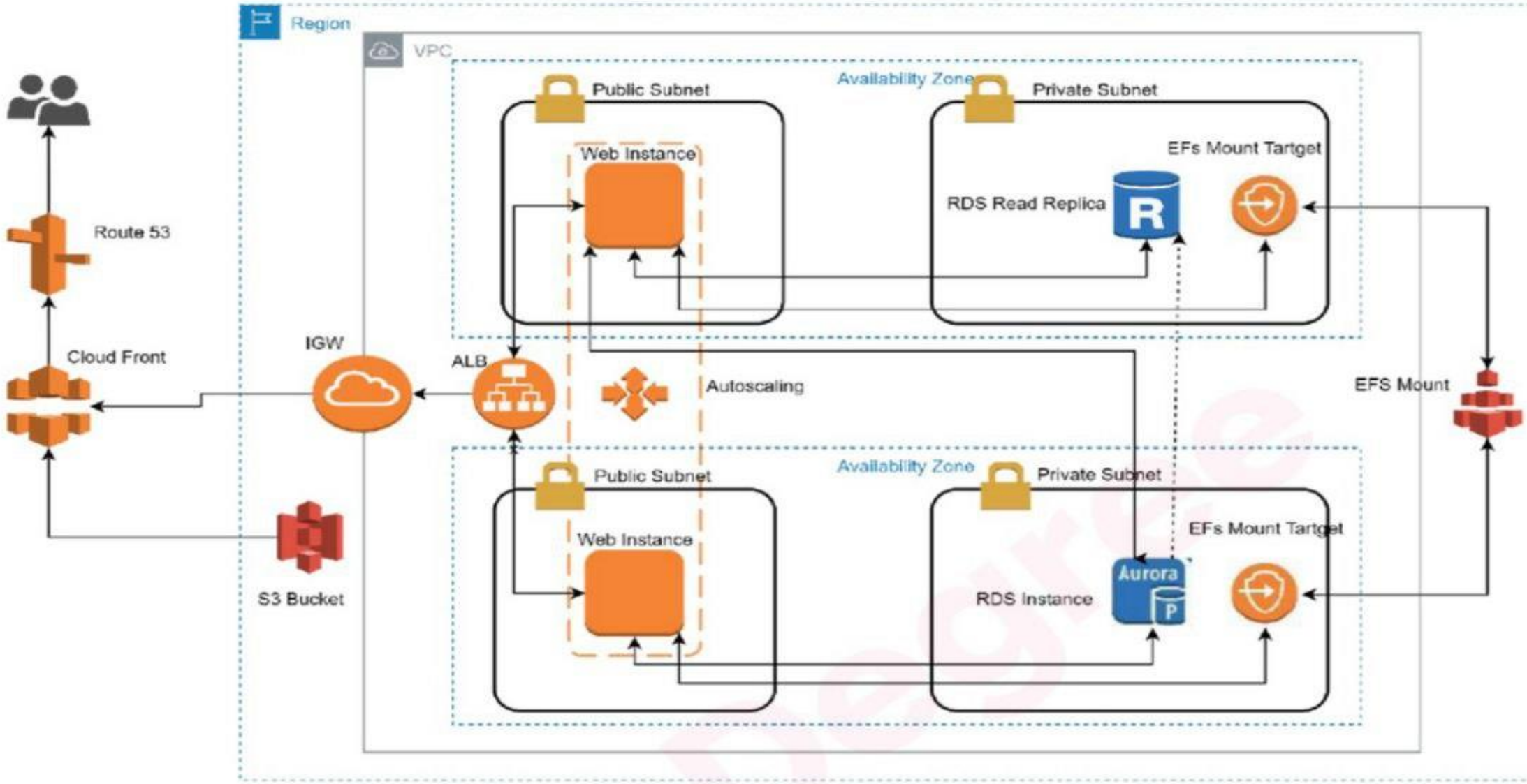
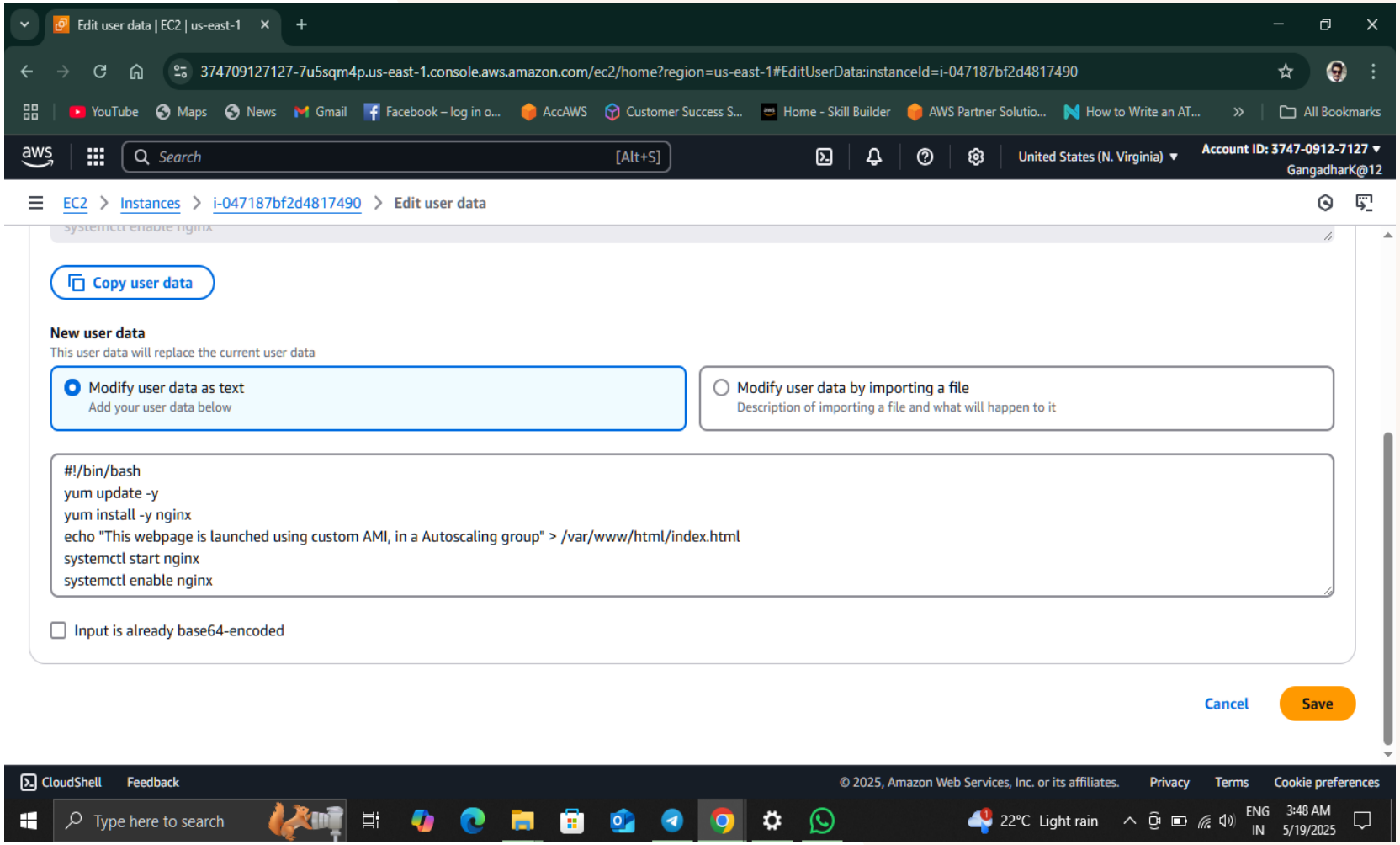
AWS

Assignment Week 4

AWS Cloud architecture diagram by - MicroDegree

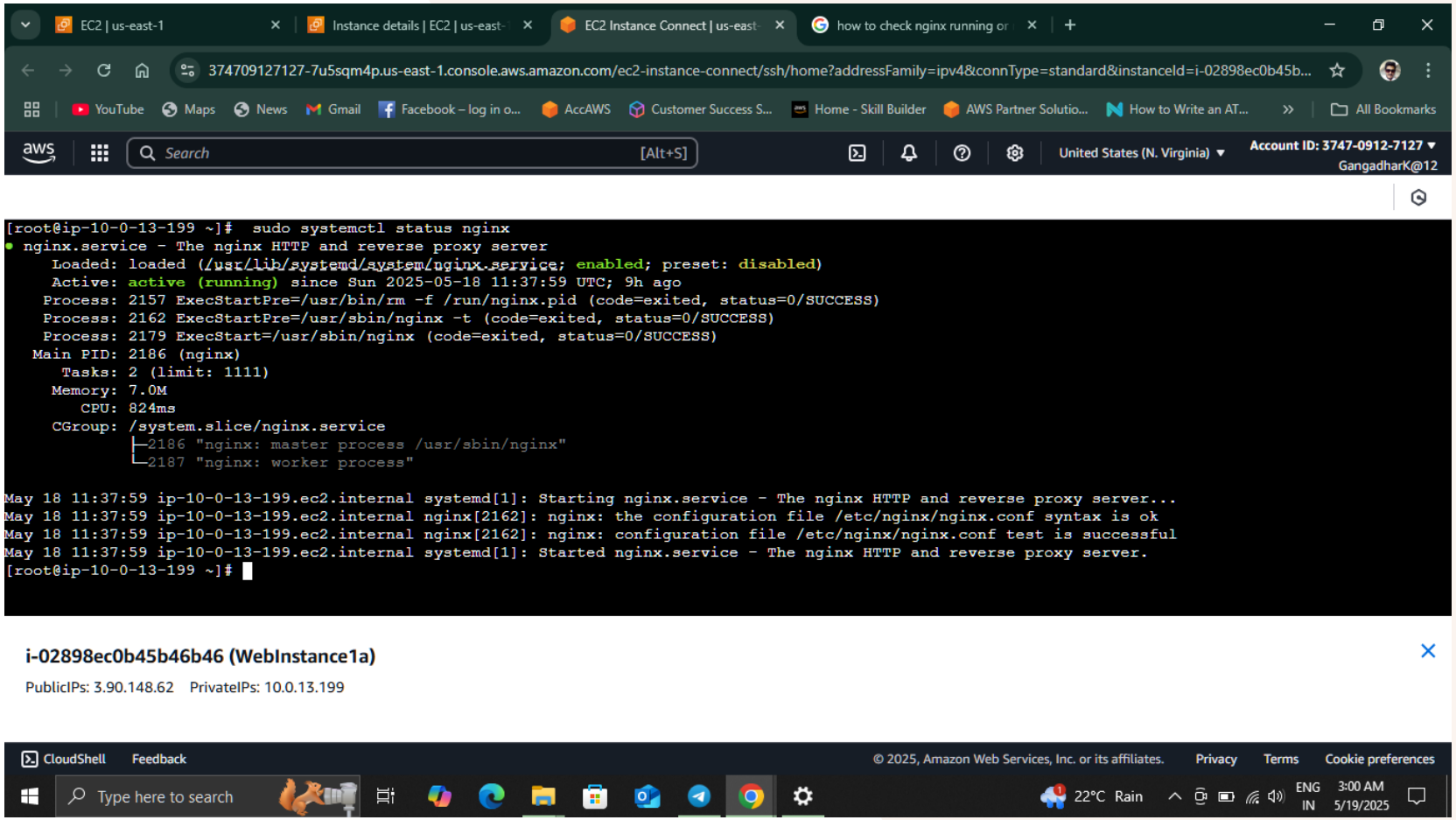


Clue * - Cutom AMI should contain nginx and a custom index.html stating " This webpage is launched using custom AMI, in a Autoscaling group".



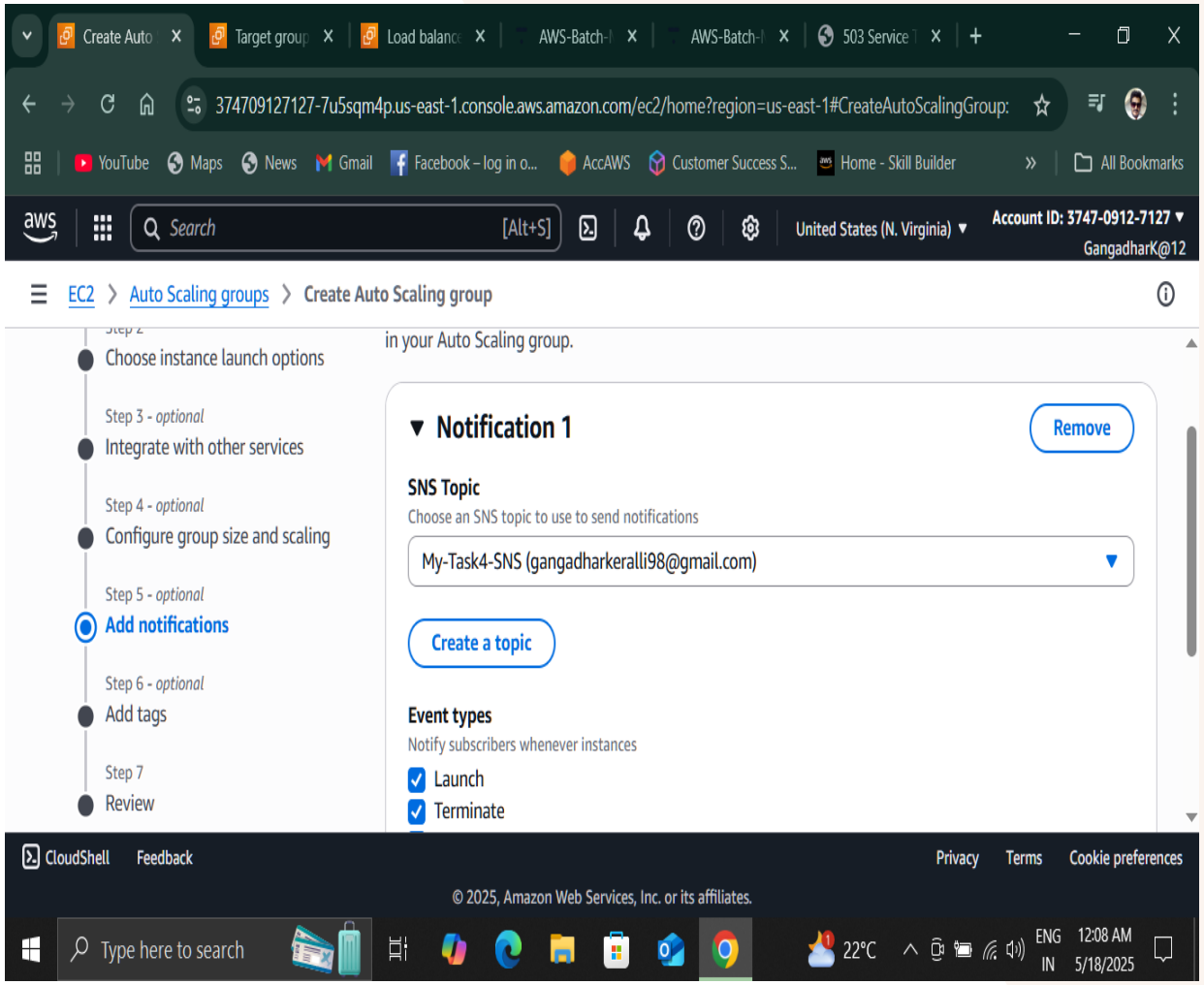
EC2 User data

Clue * - Cutom AMI should contain nginx and a custom index.html stating " This webpage is launched using custom AMI, in a Autoscaling group".

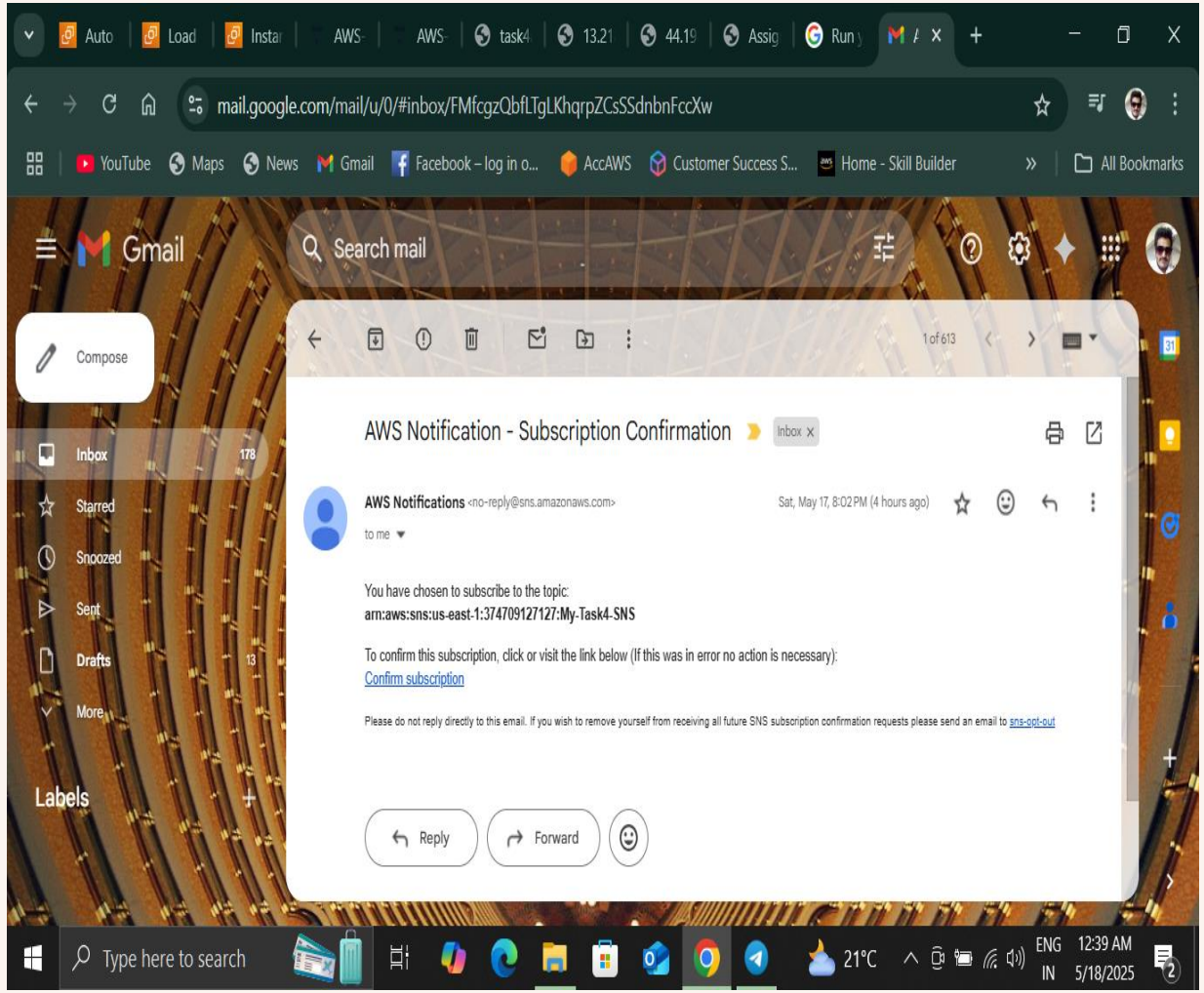


Nginx is running

Clue ** - SNS notifications.

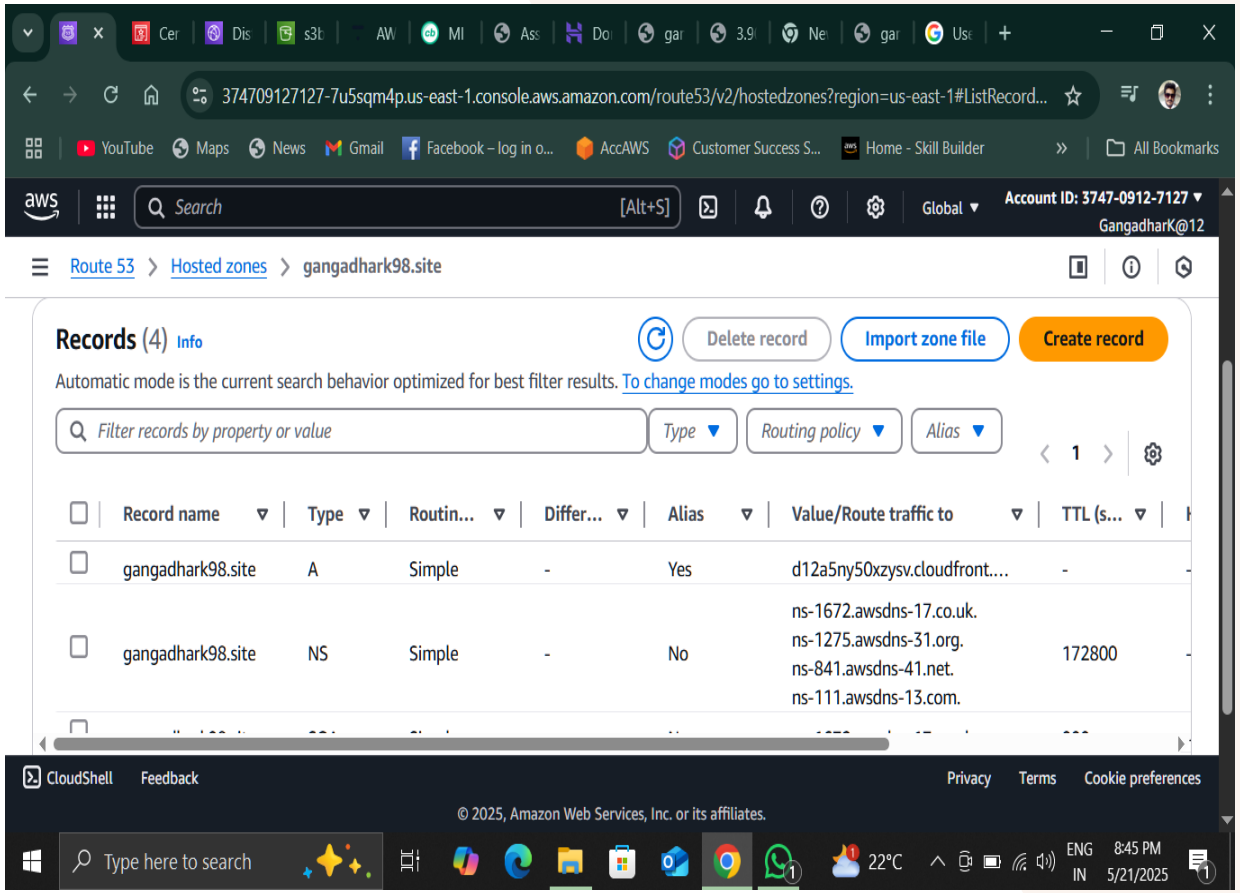


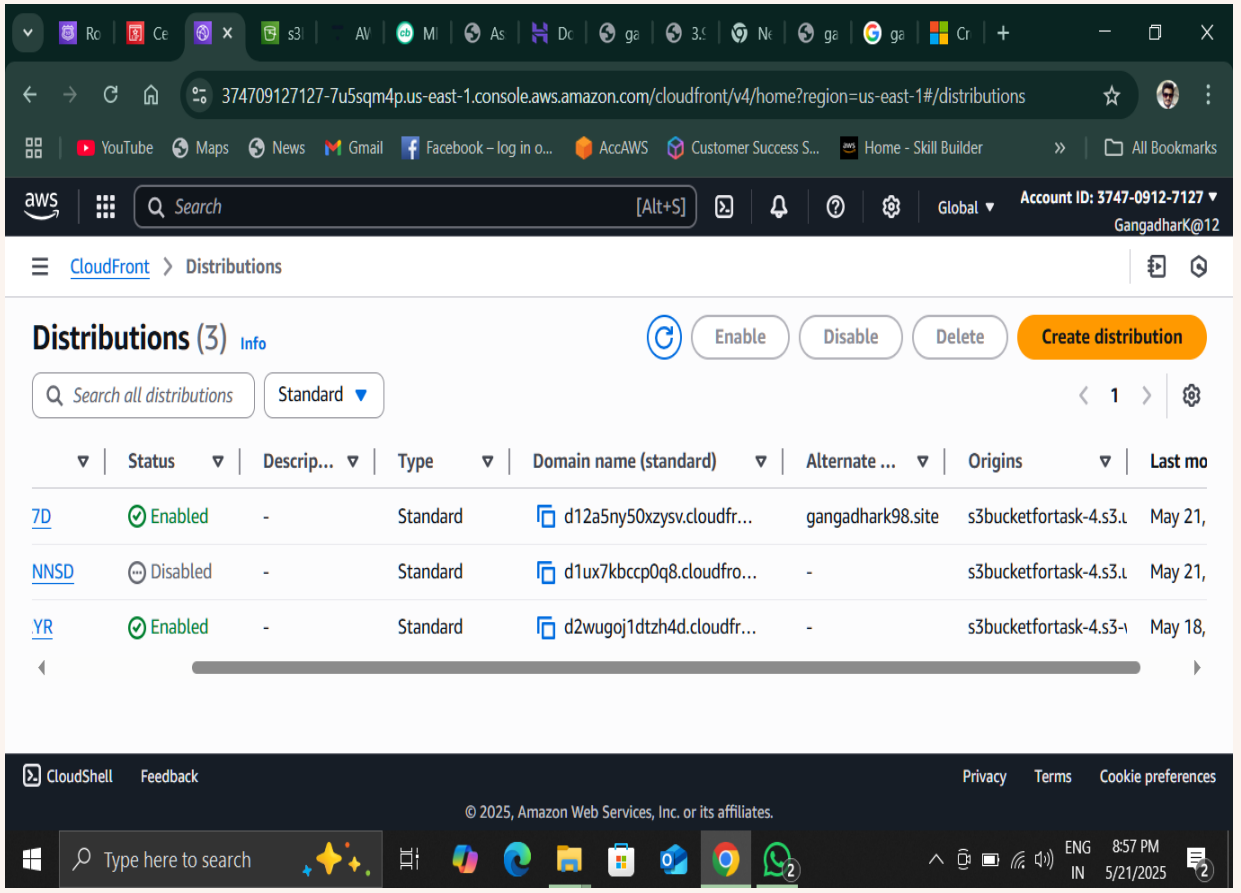
SNS topic created



Received notification

Step 1 - Use Amazon Route53 to connect Domain Name and use Amazon CloudFront to deliver static and dynamic content.

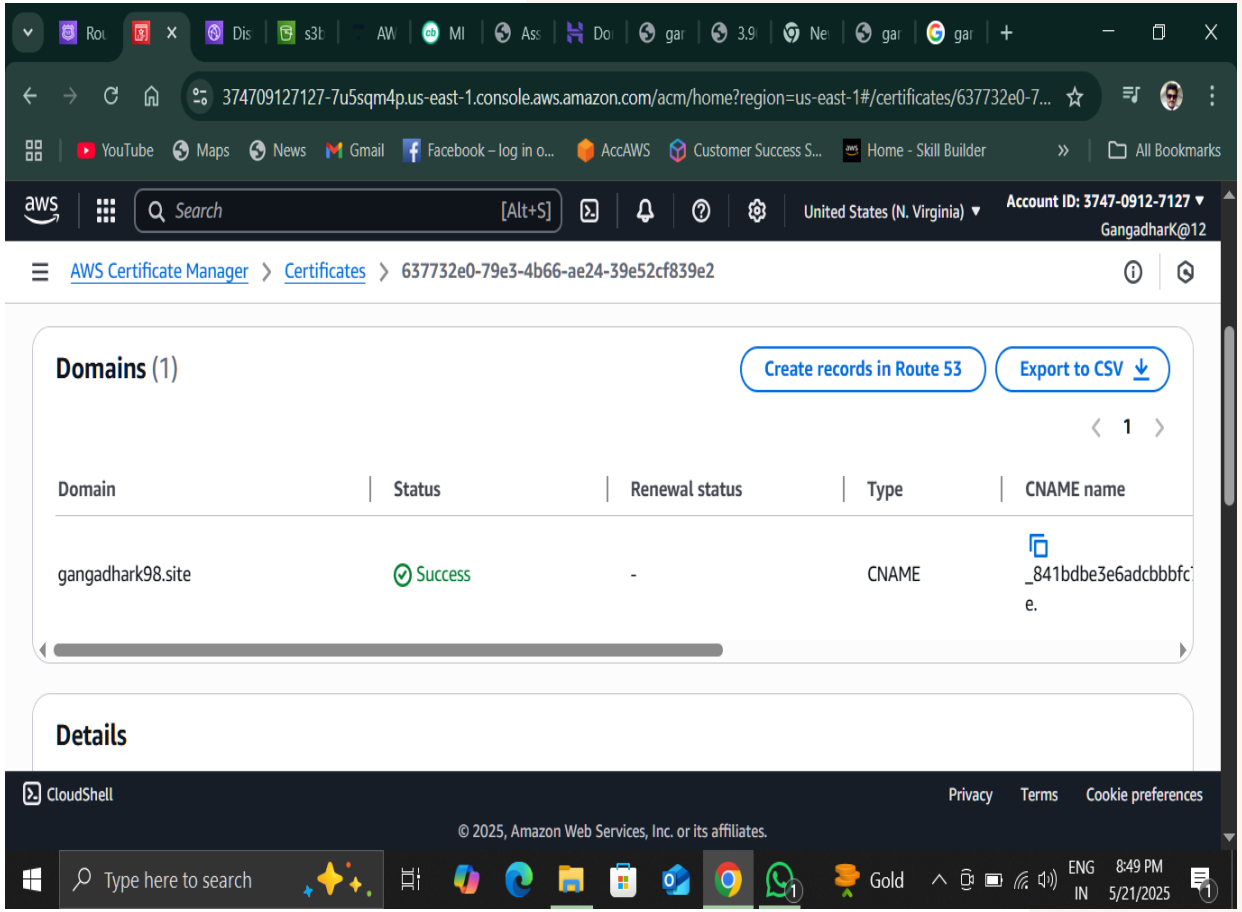




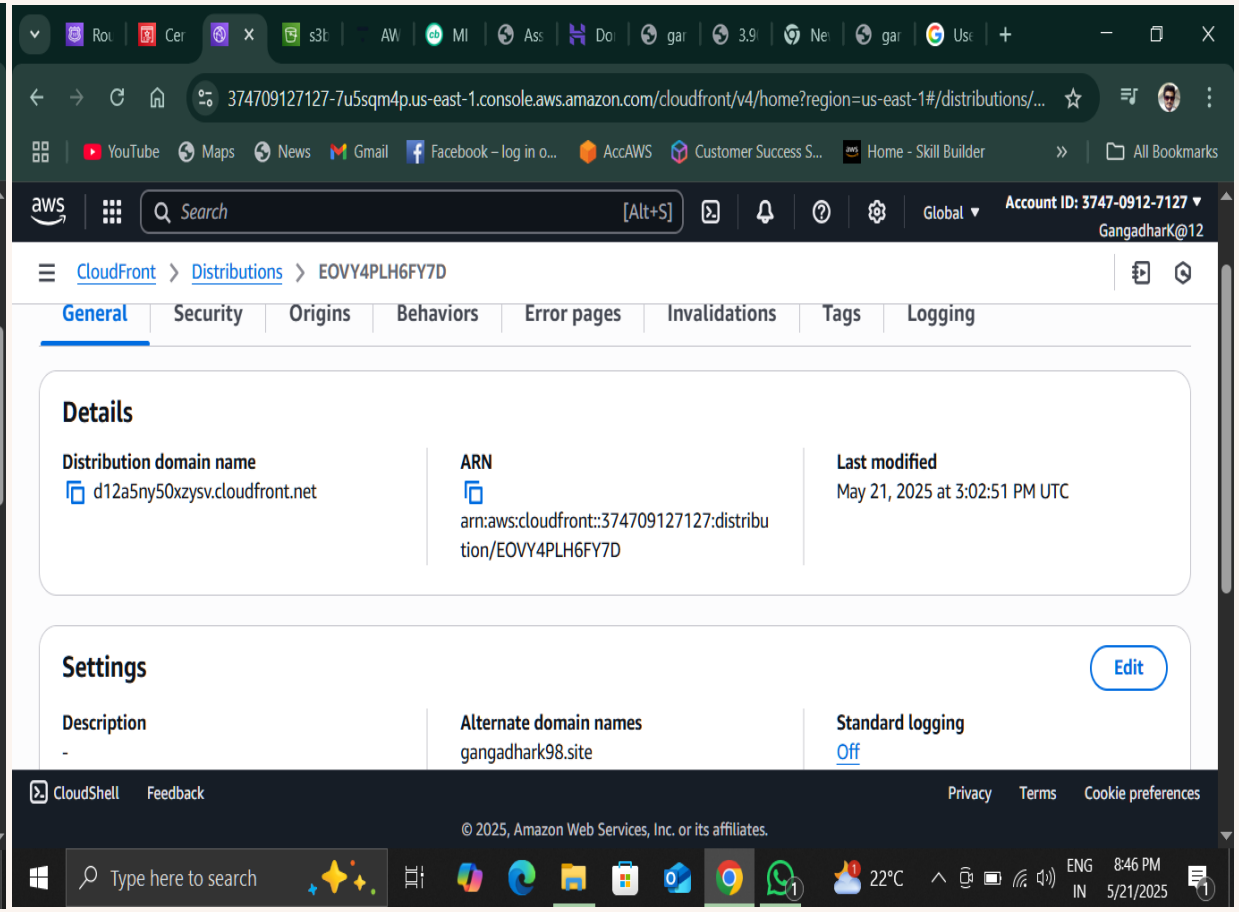
Hosted zone & Record created

CloudFront distribution created & Origins mapped from S3

Step 1 - Use Amazon Route53 to connect Domain Name and use Amazon CloudFront to deliver static and dynamic content.

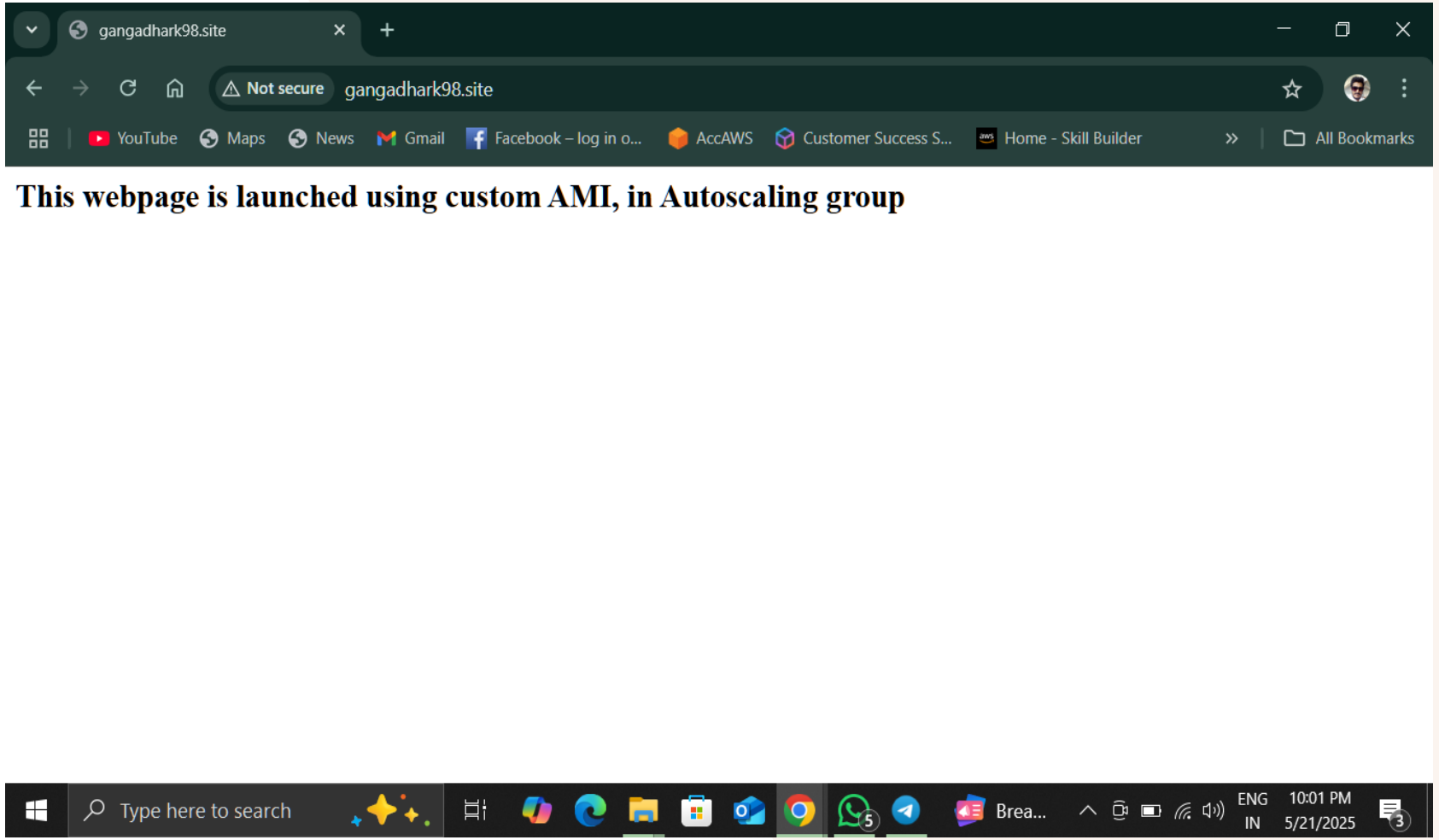


SSL certificate



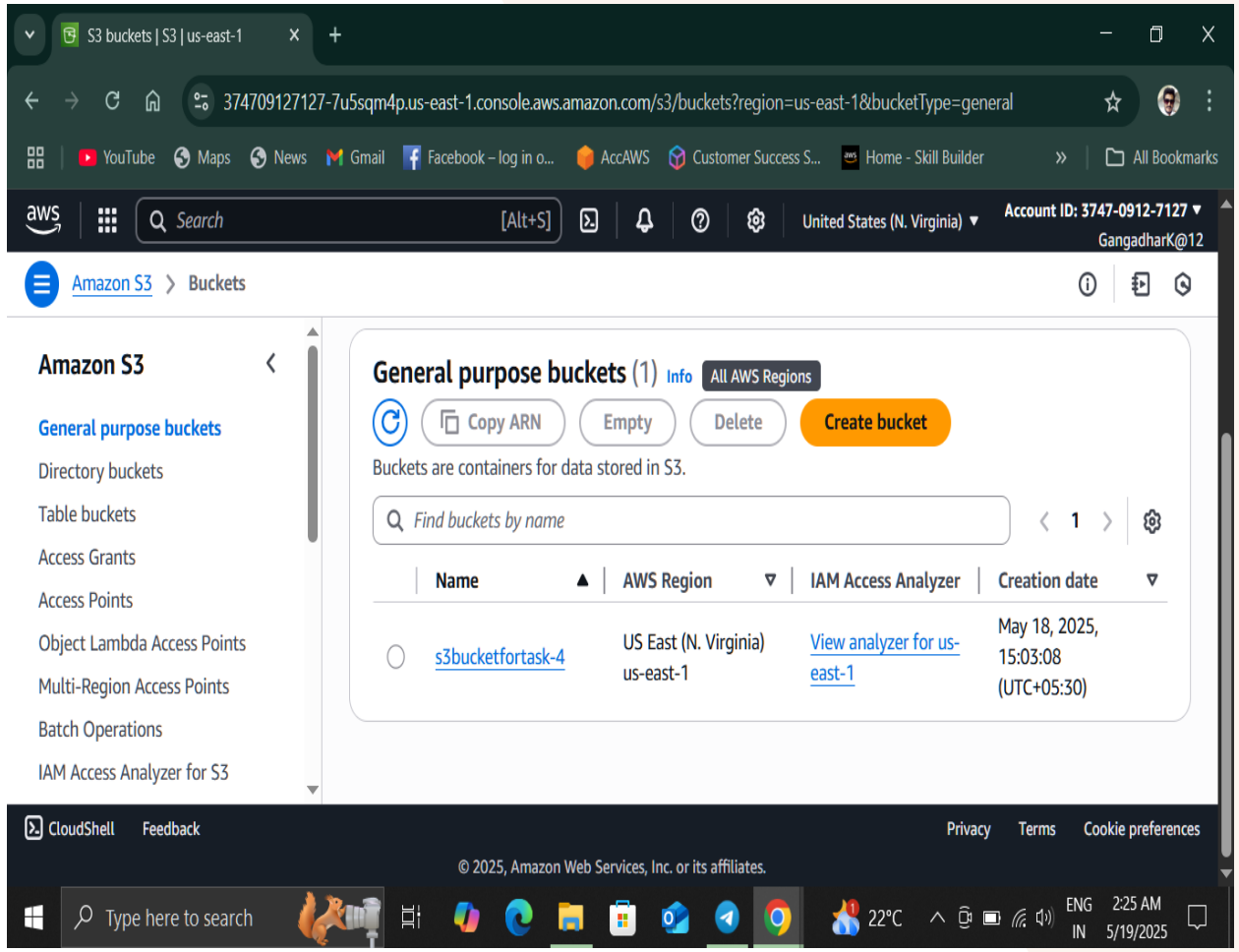
Deployment done in the CloudFront distribution

Step 1 - Use Amazon Route53 to connect Domain Name and use Amazon CloudFront to deliver static and dynamic content.

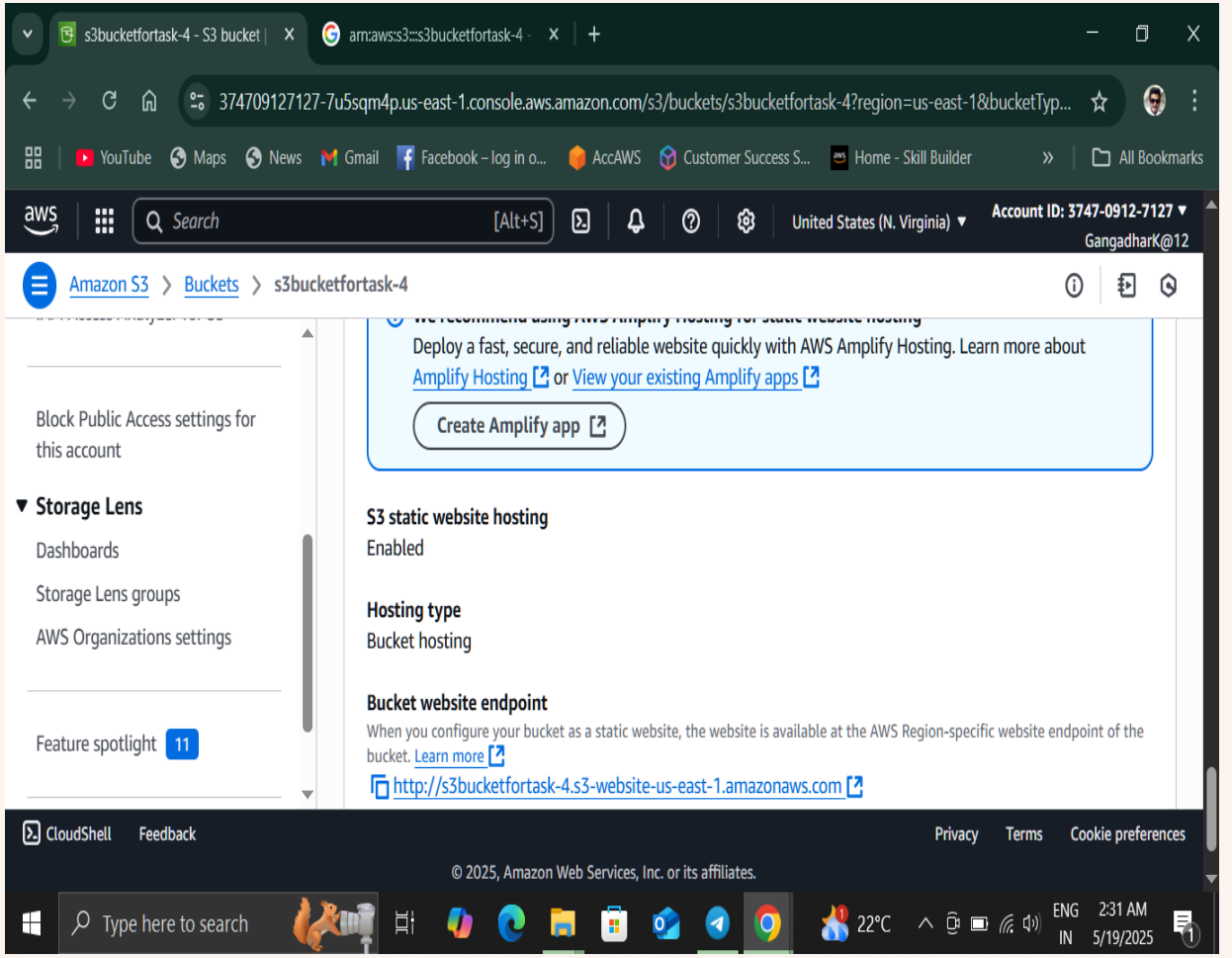


Finally Accessed with my Domain Name

Step 2 - Used Amazon S3 to store the static web connect.

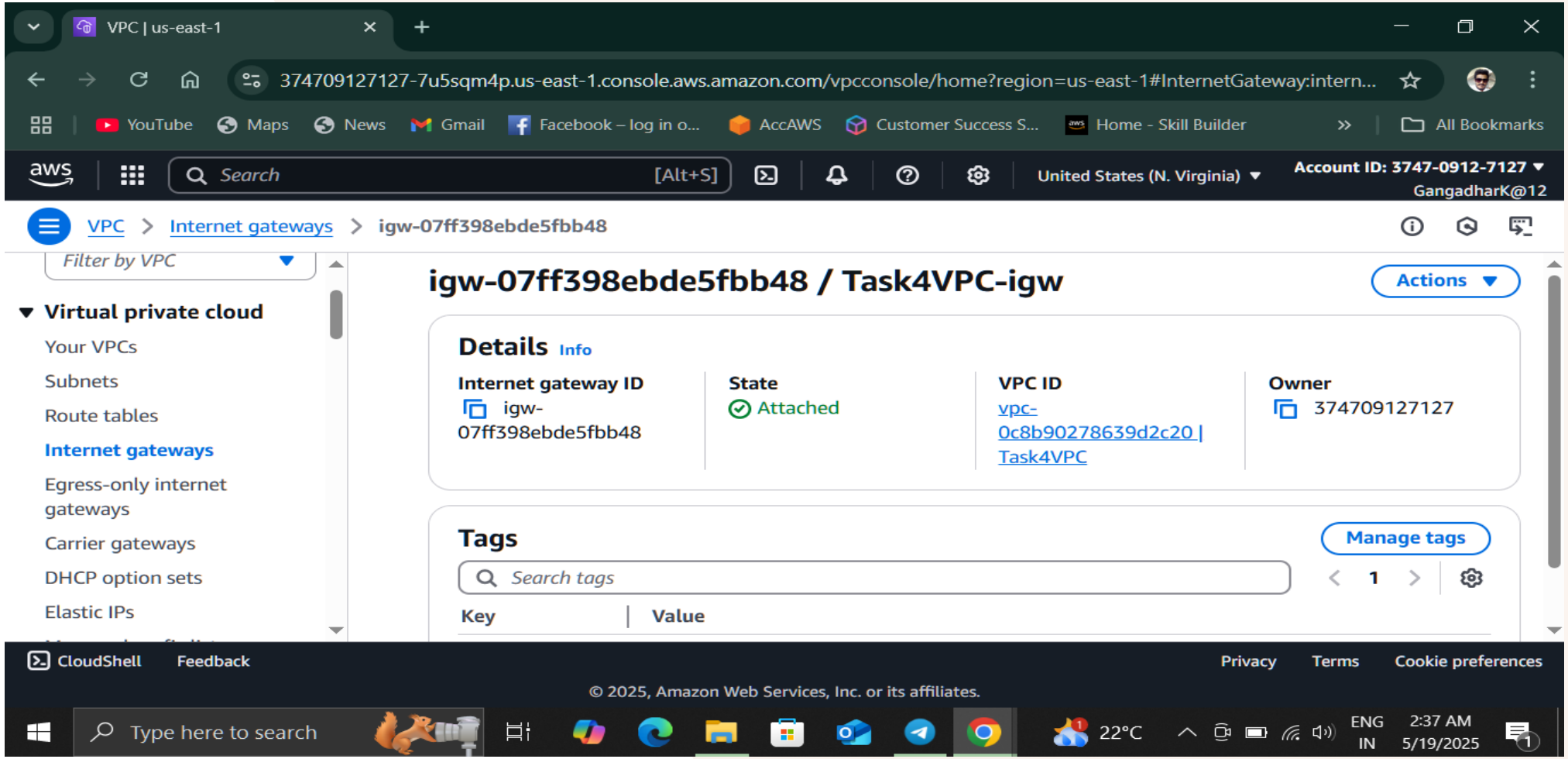


S3 Bucket created

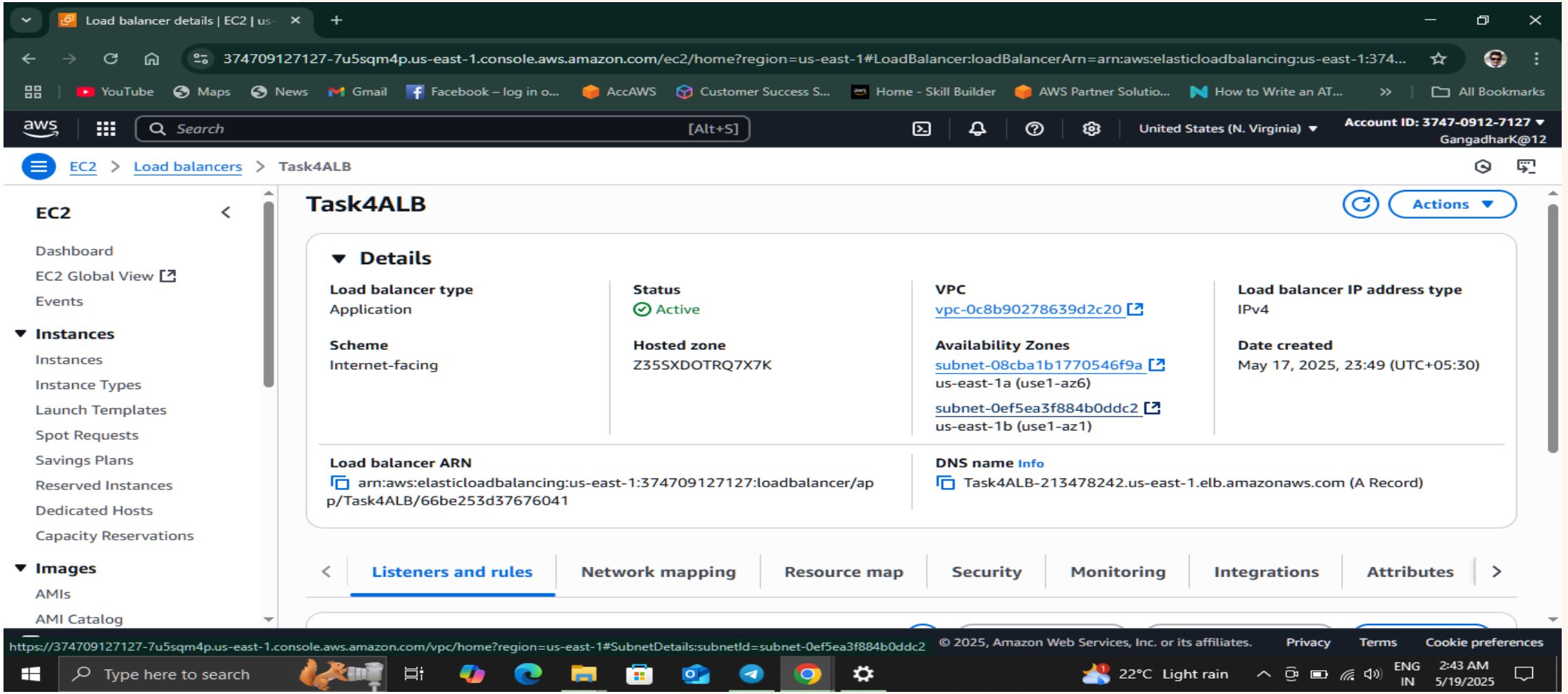


S3 static website hosting enabled

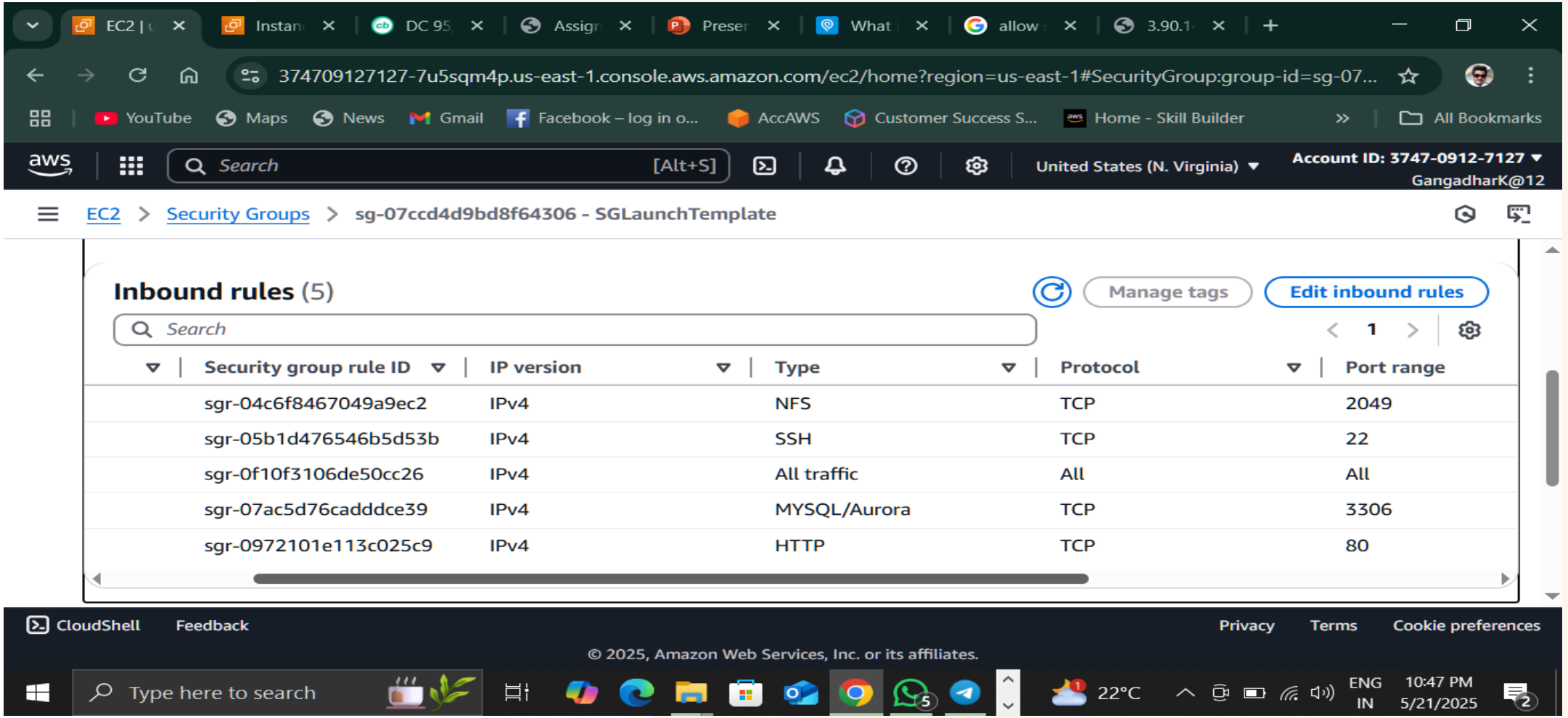
Step 3 - Internet Gateway is attached to VPC.



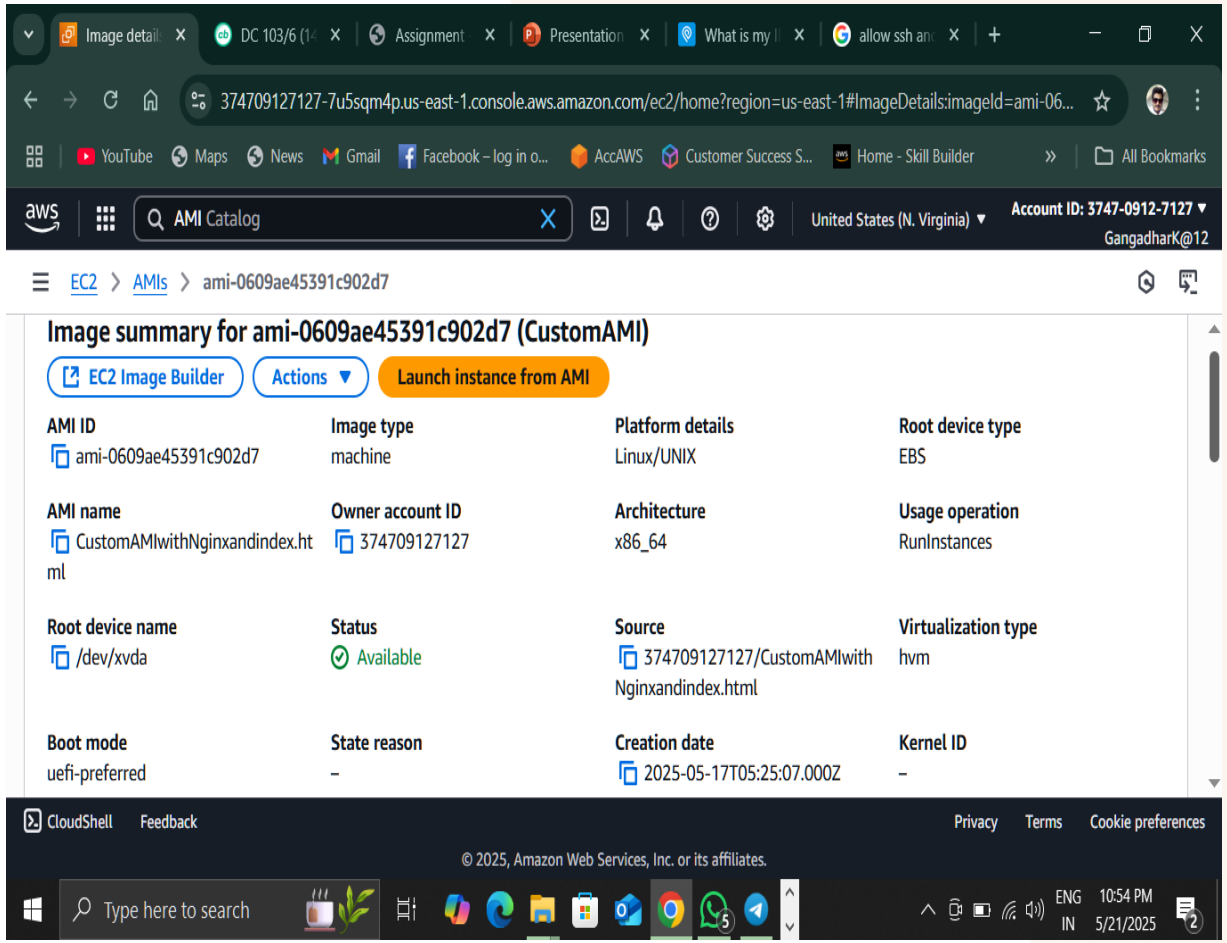
Step 4 - ALB is used to distribute the web traffic across the ASG of EC2 instances in multiple AZ's.



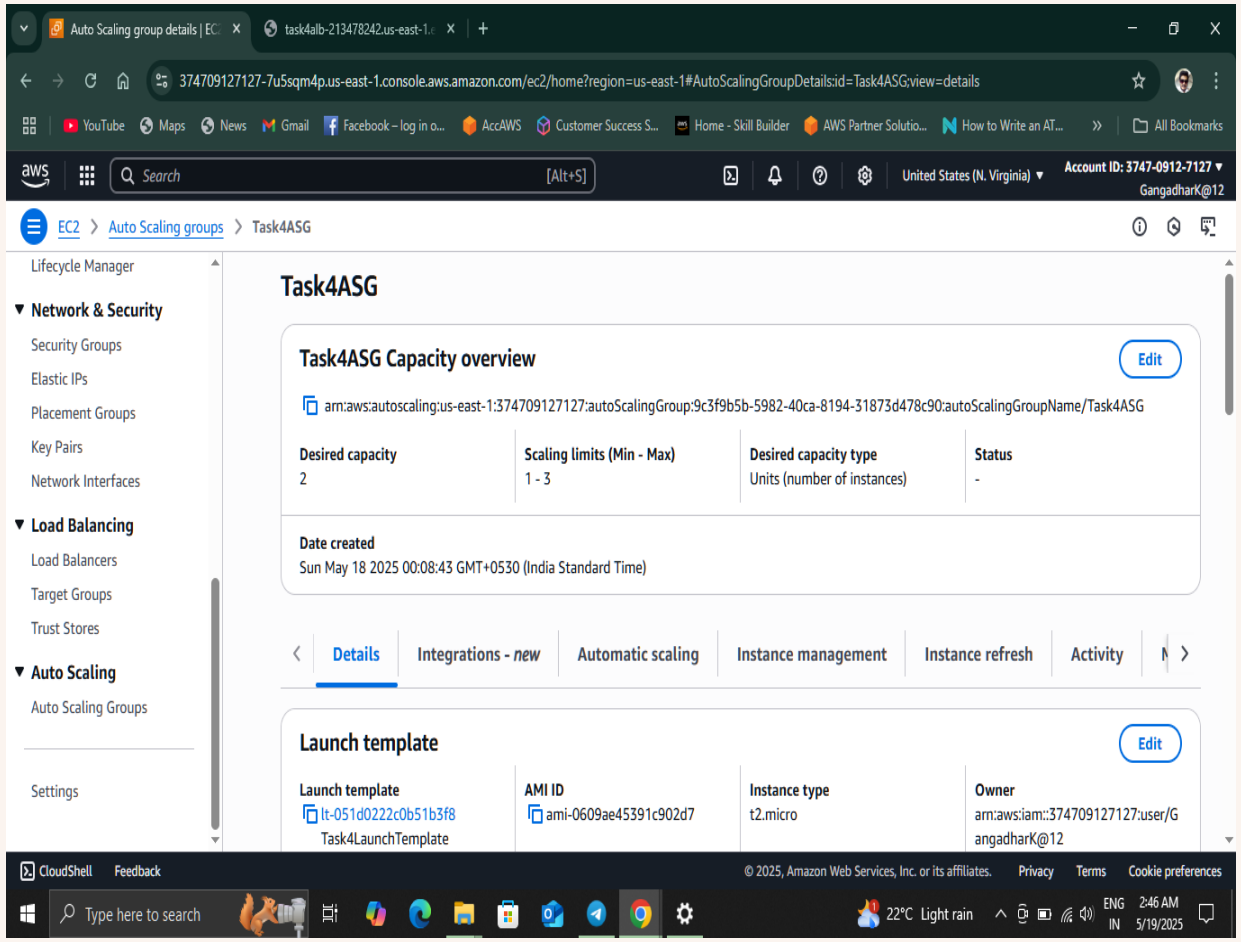
Step 5 - Allow SSH and db connection to your own laptop ip with security group for web instances.(This will act as Bastion server for itself. Allow http port 80 for all.)



Step 6 - Run your website using an ASG of EC2 instances using custom AMI (nginx & index.html).

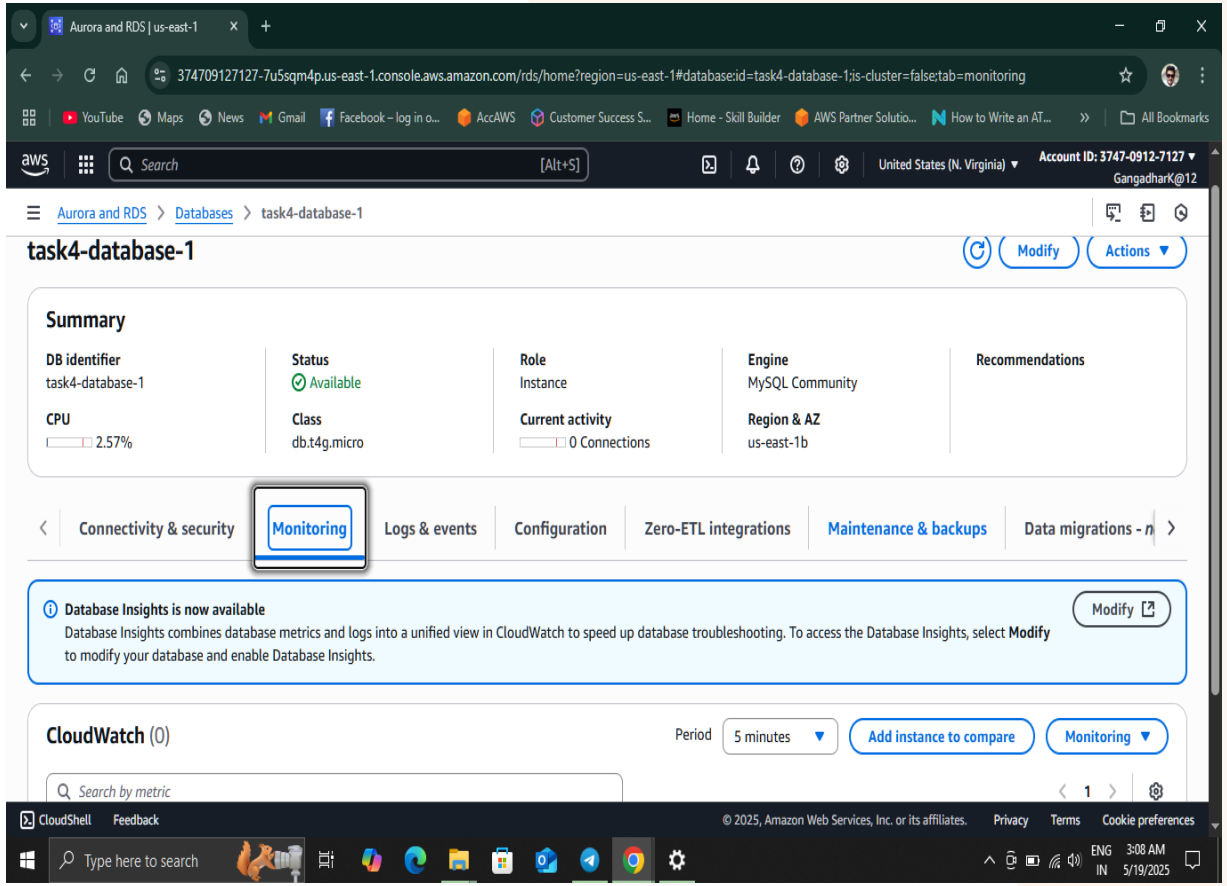


Custom AMI

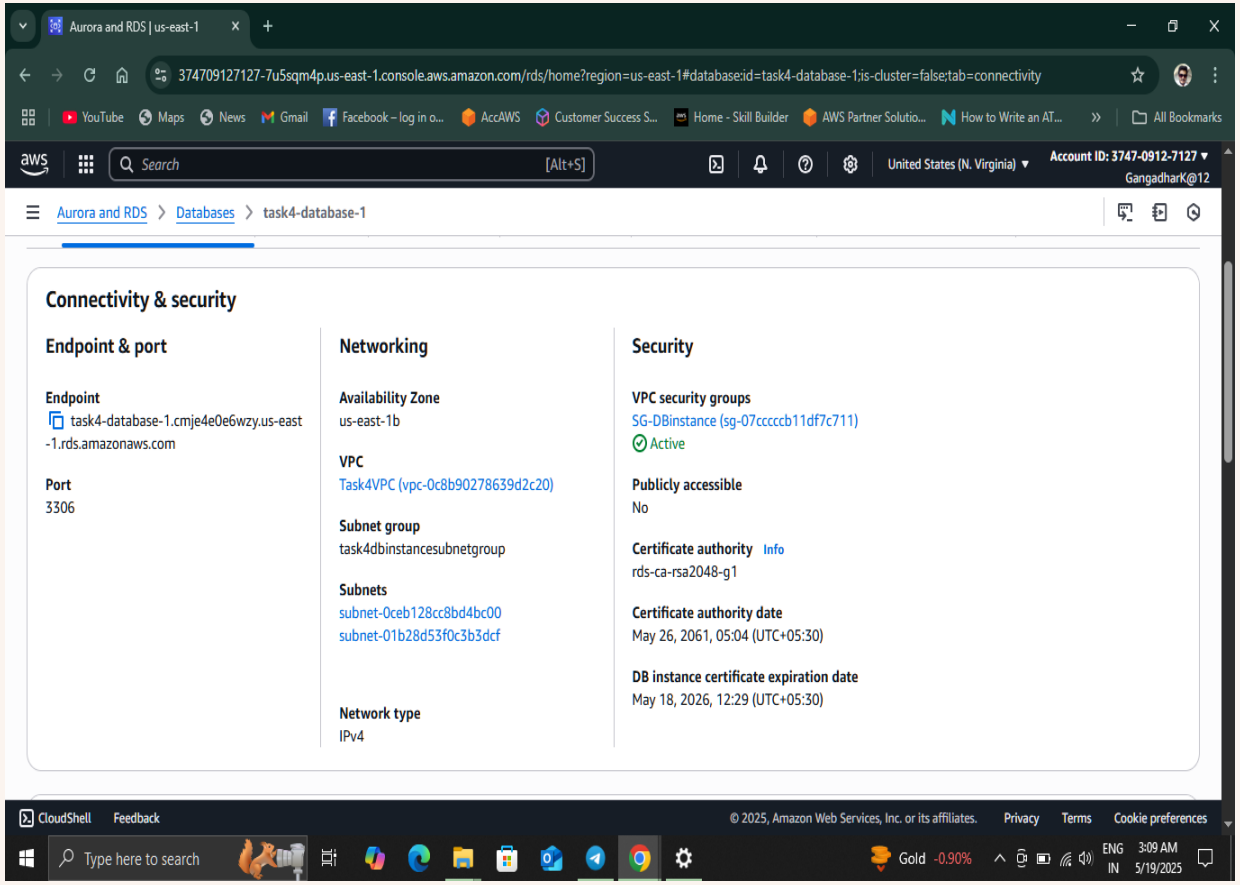


Launch template & ASG created

Step 8 - Run your database layer in amazon RDS with aurora or MySQL to simplify your database administration.

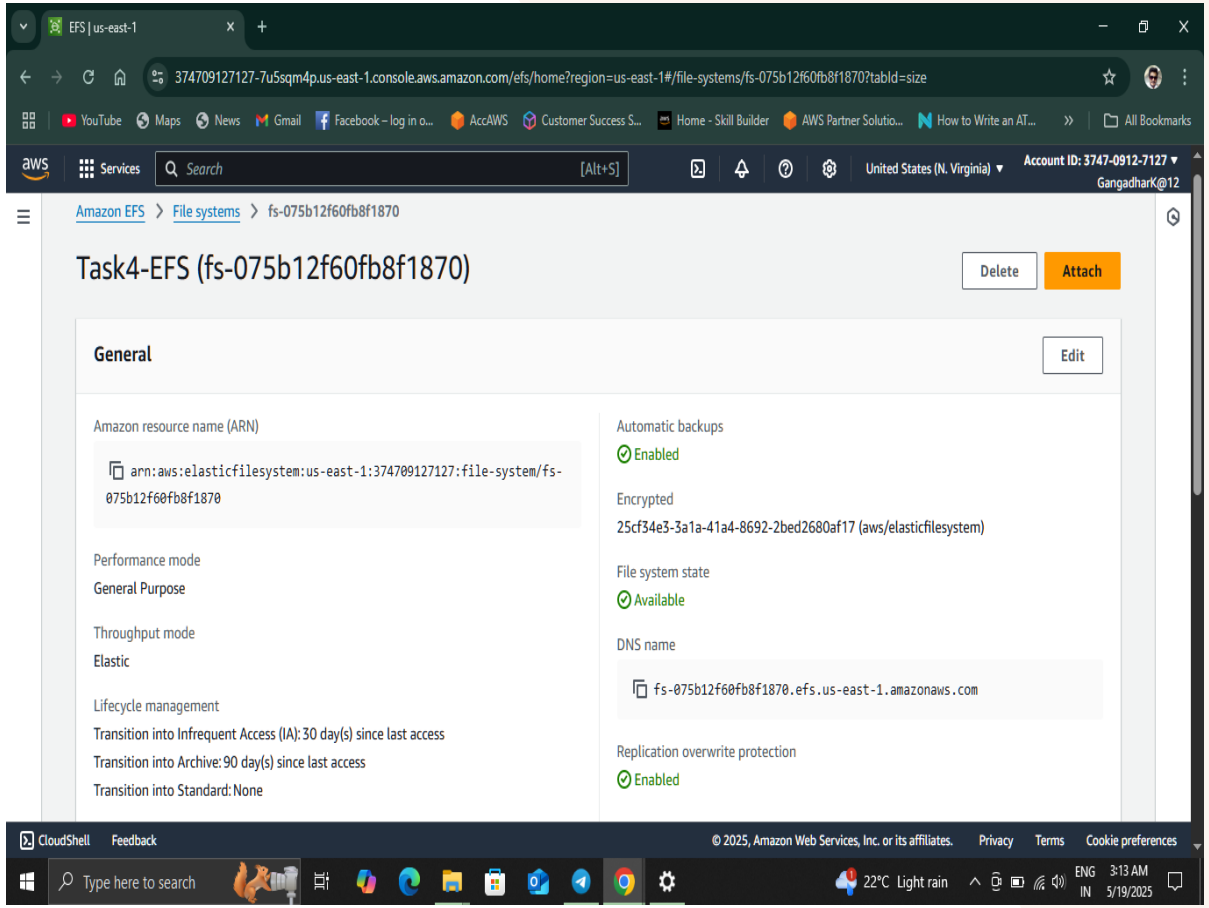


RDS database using MySQL

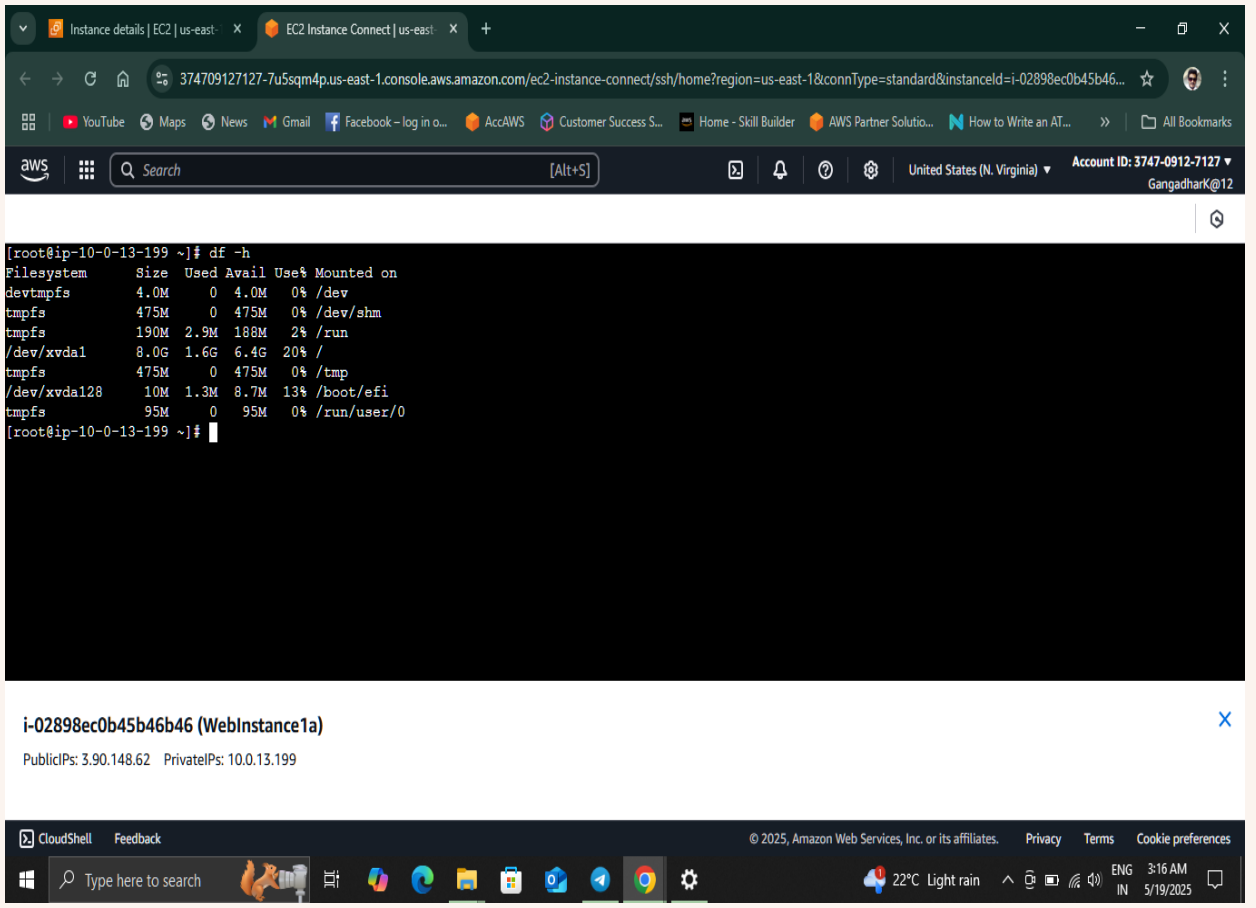


RDS connected VPC

Step 9 - After creating Amazon EFS system, create mount targets, mount the file system on your web amazon EC2 instances in each AZ in your VPC.

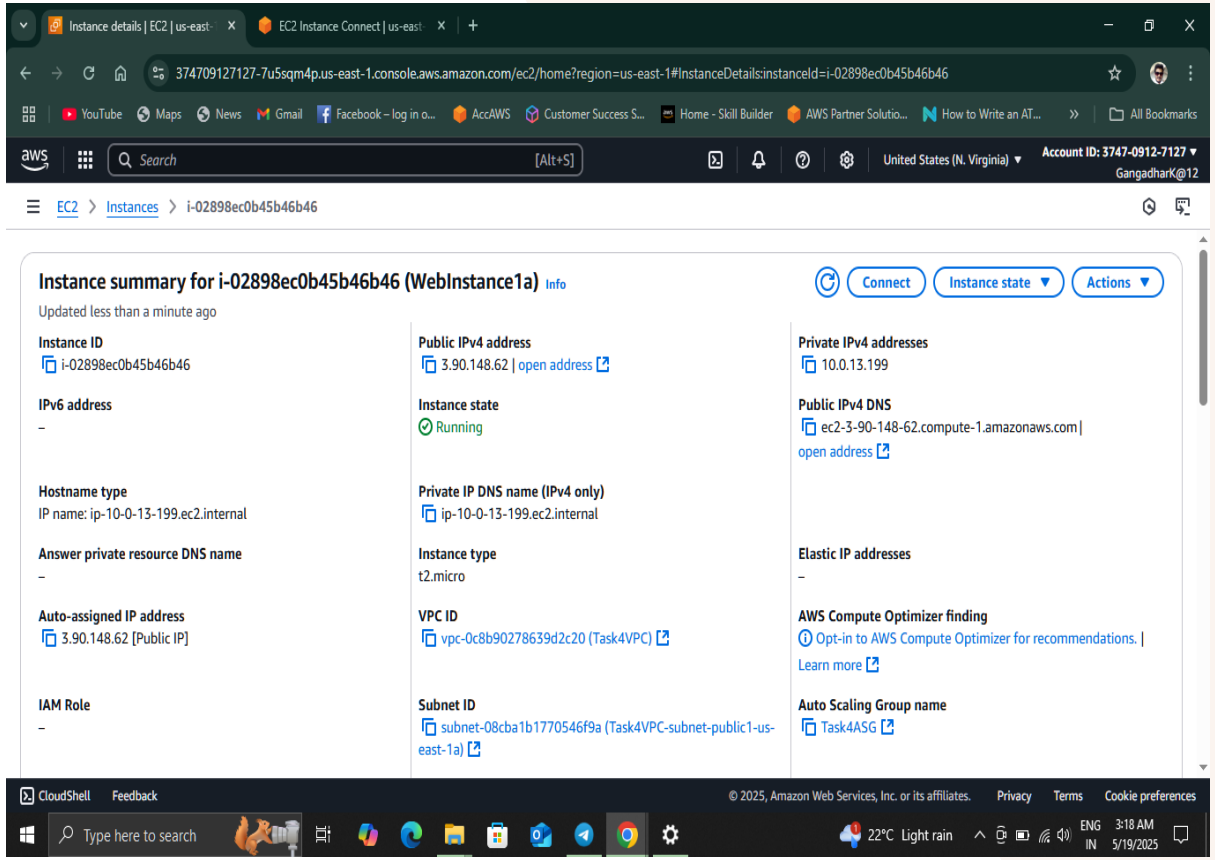


EFS created

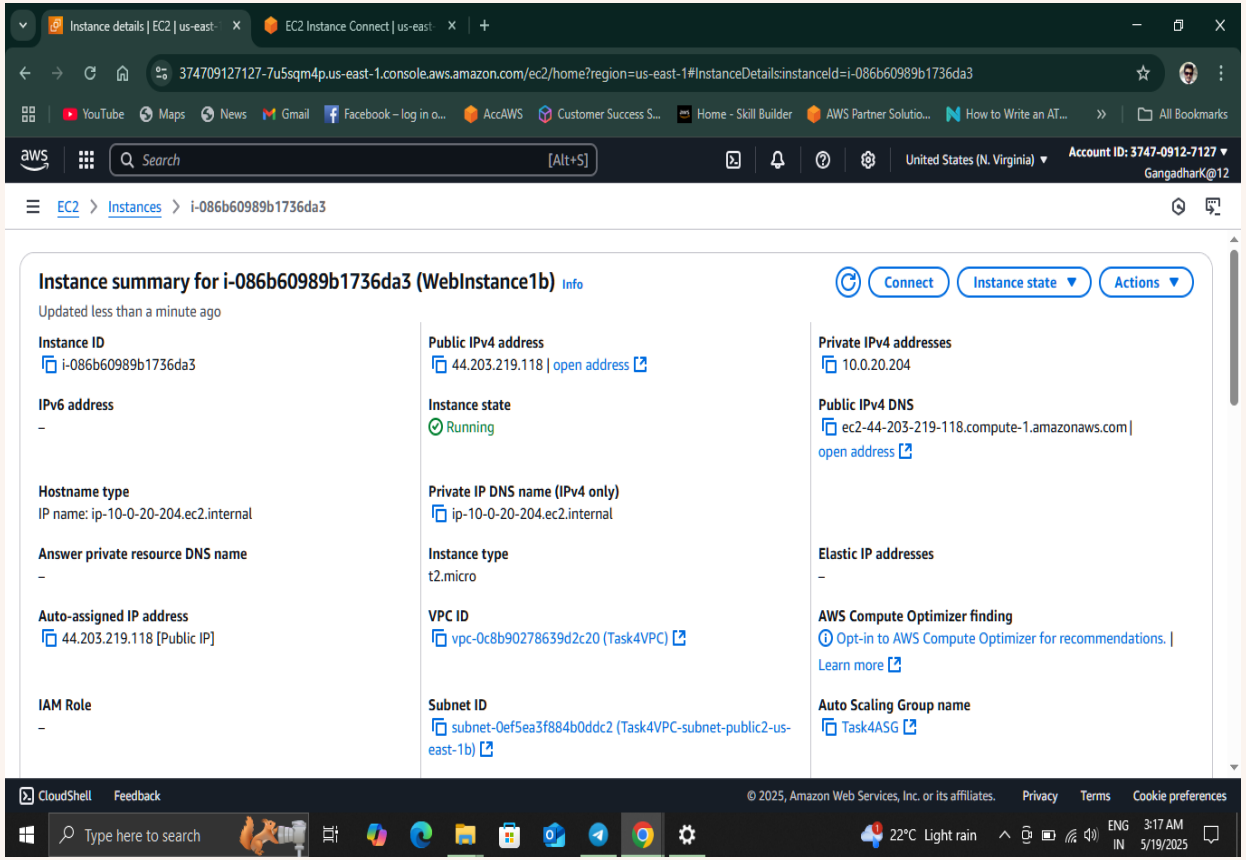


EFS mounted (df –h)

Step 10 - Use Amazon EFS Drupal instances to access your shared, unstructured Nginx data such as XML, Config, CSS & Plugins etc.

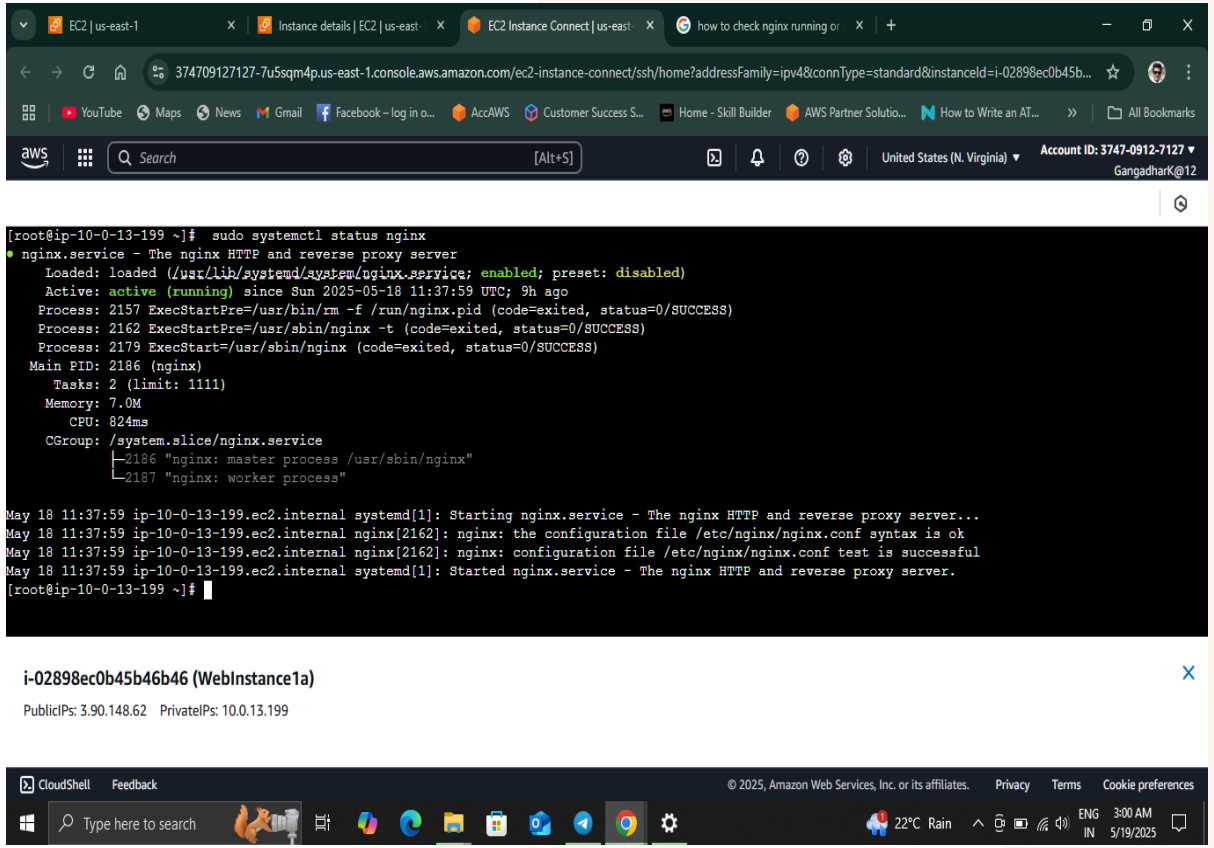


WebInstance 1a

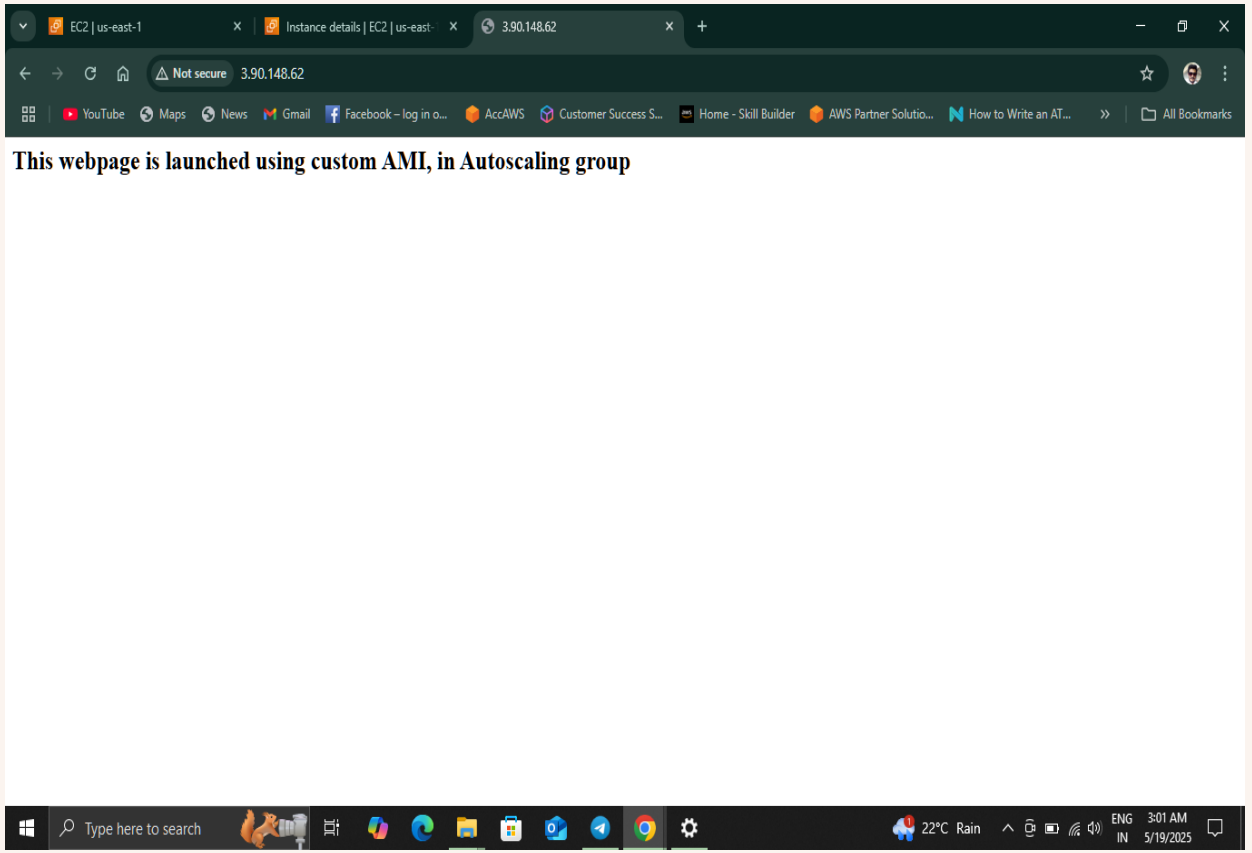


WebInstance 1b

Step 10 - Use Amazon EFS Drupal instances to access your shared, unstructured Nginx data such as XML, Config, CSS & Plugins etc.



Nginx is Running



Public IPA Accessed

Regards

Gangadhar K