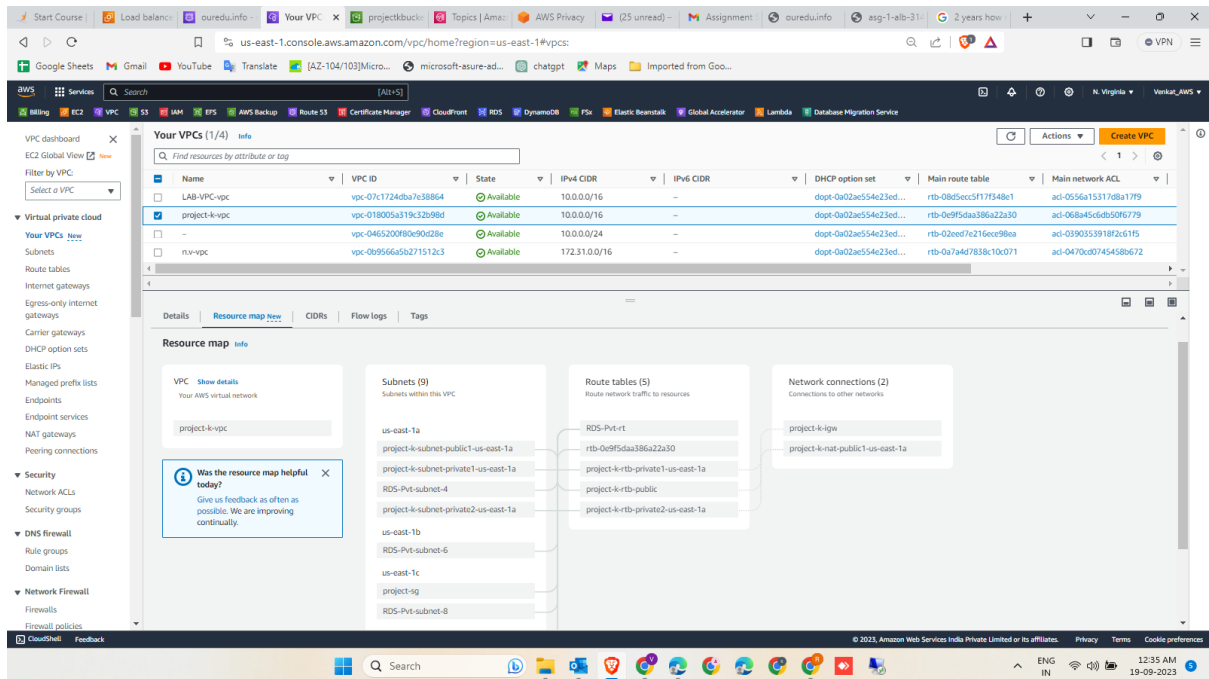
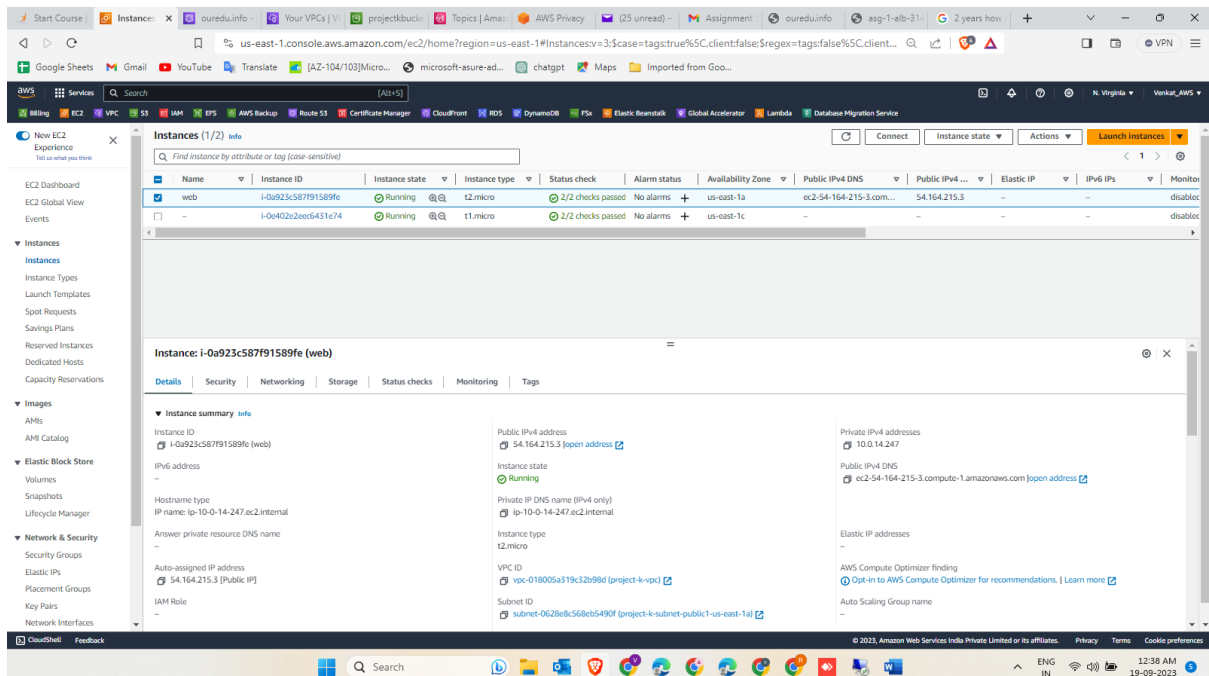


# AWS Capstone Project

## 1. Created VPC.

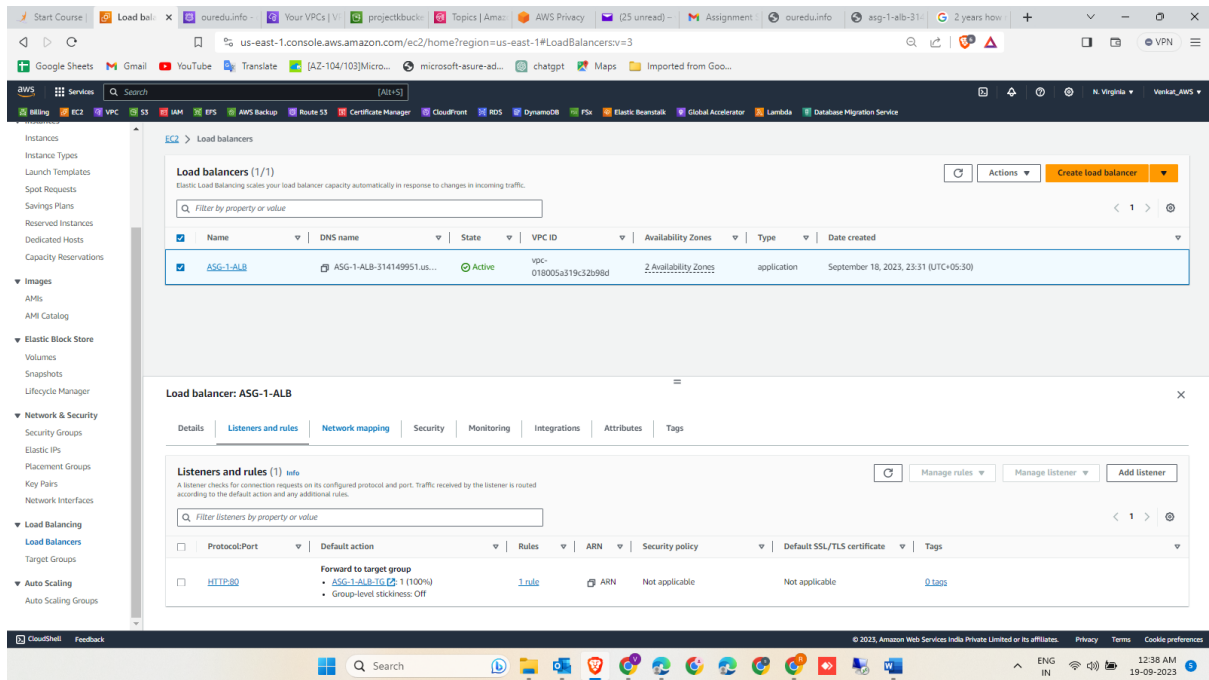


## 2. Launched an EC2 Instance.

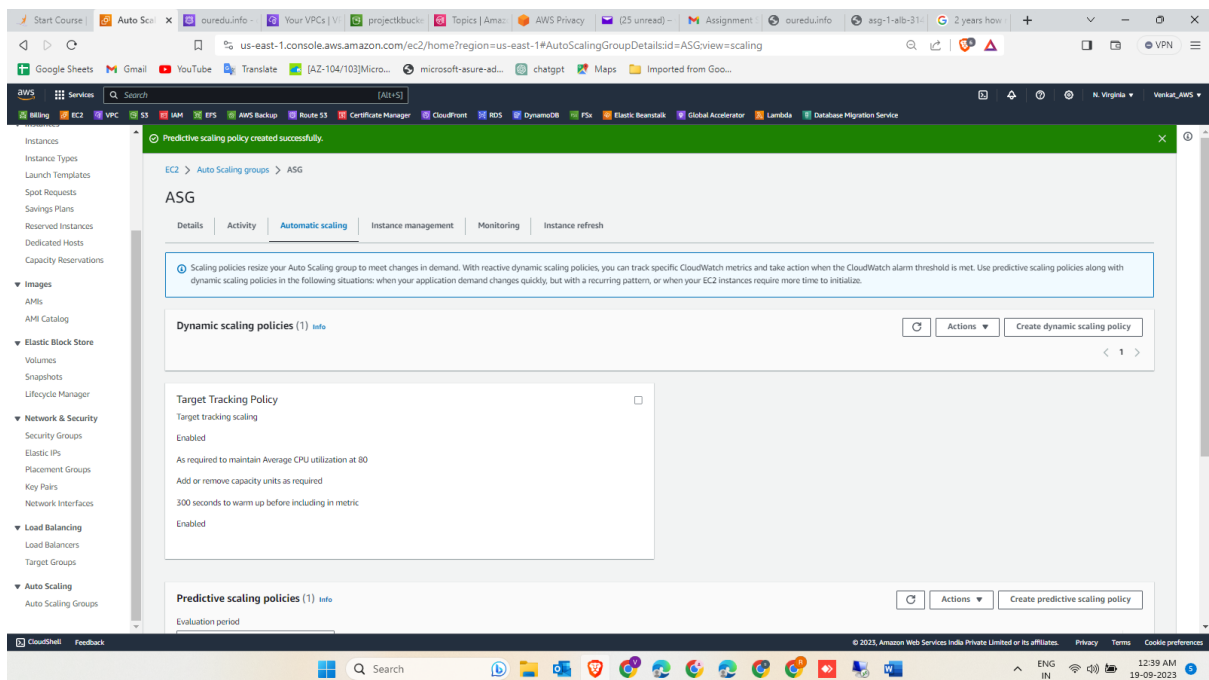


# AWS Capstone Project

3. Created a load balancer to distribute traffic to the front-end UI servers.

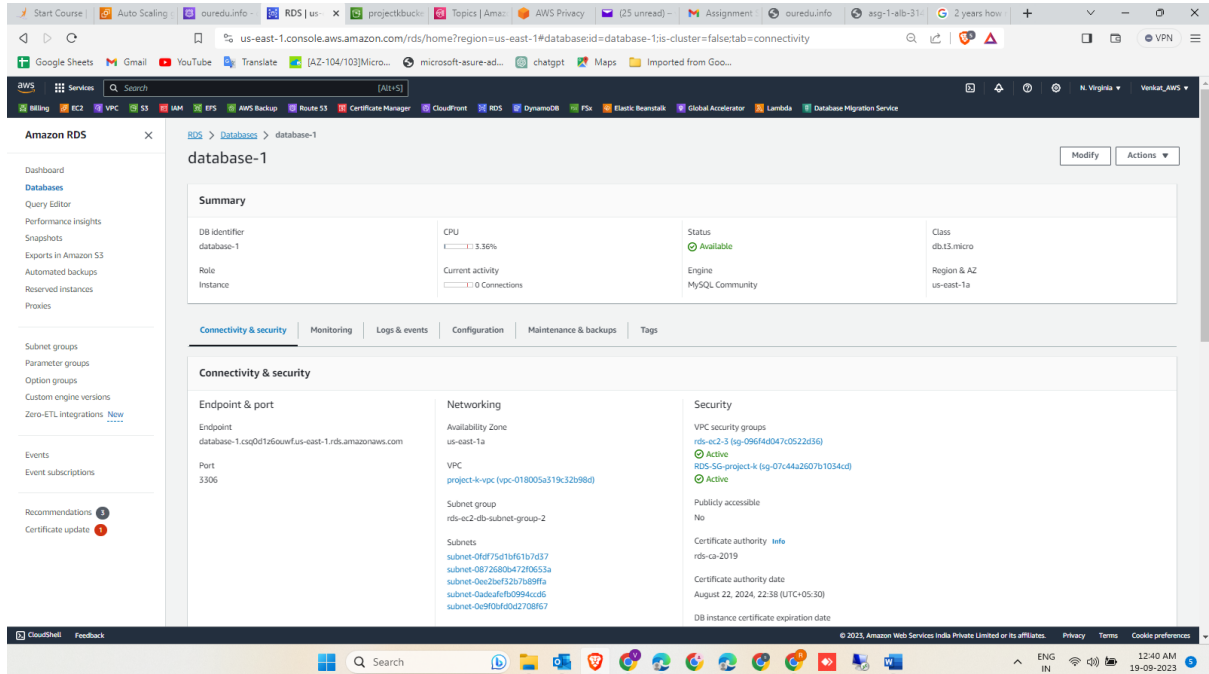


4. Auto scaling group has created. Configured scaling policies to scale the Auto Scaling groups up or down based on demand.

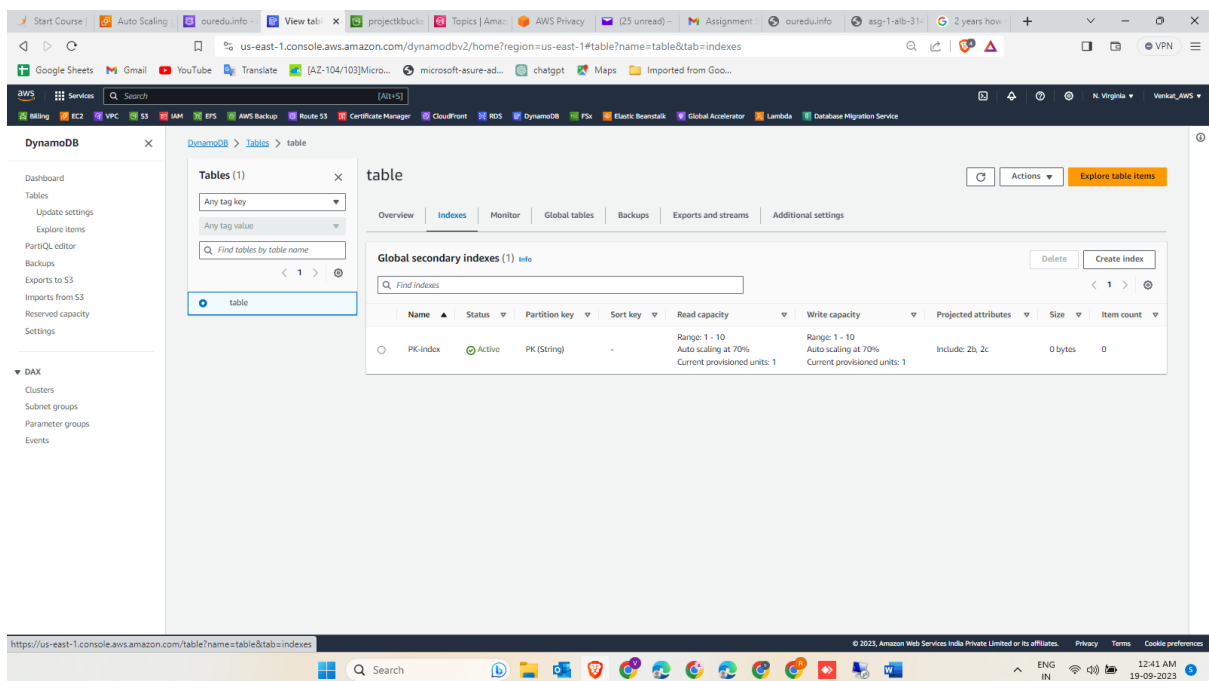


# AWS Capstone Project

5. RDS has been created. RDS DB instance to store transactional data.

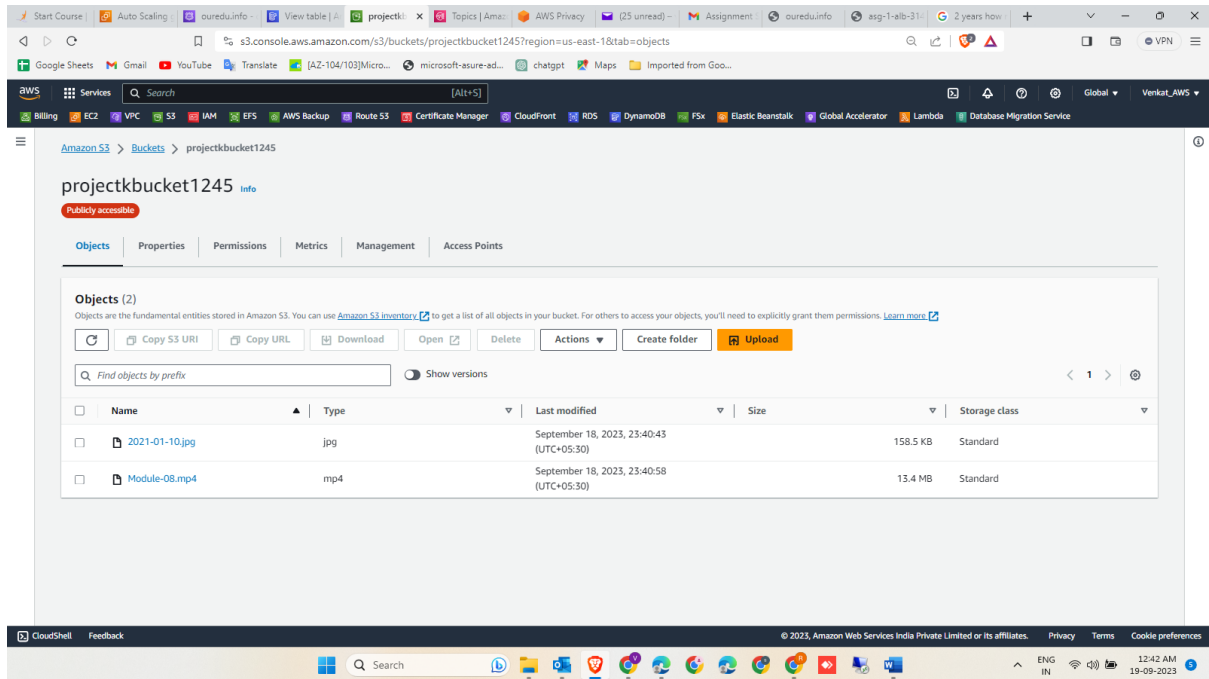


6. Dynamo DB created. It will store metadata information about videos and photos.

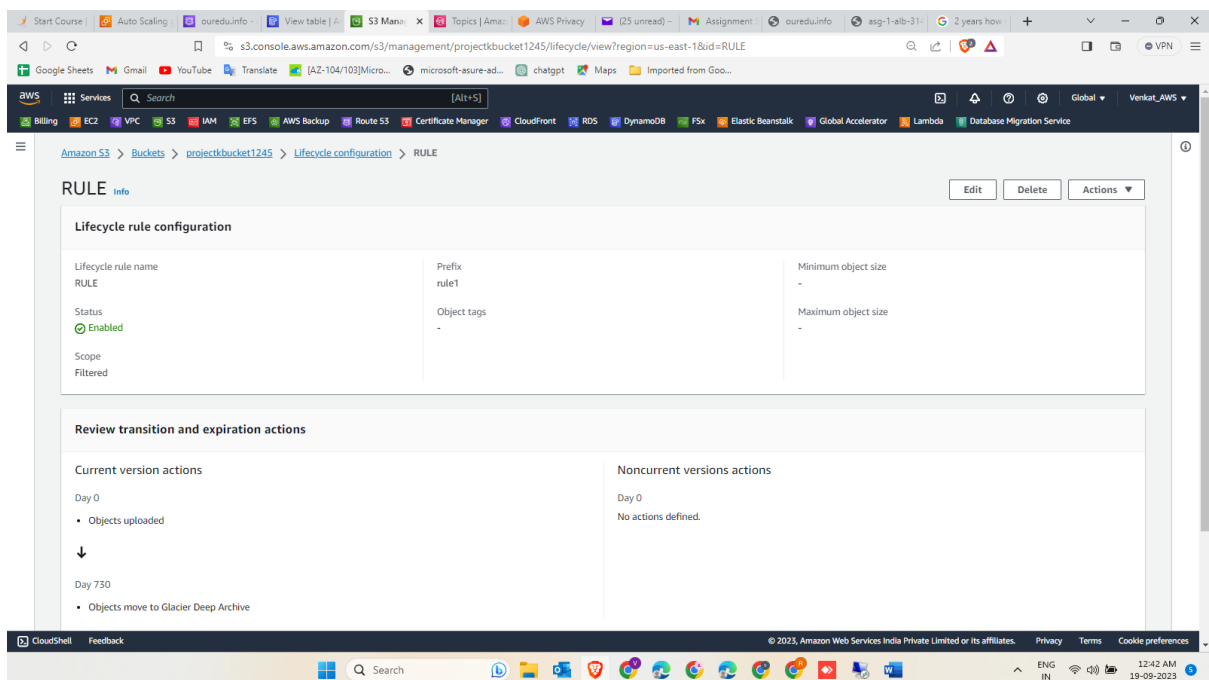


# AWS Capstone Project

7. S3 will store photos and videos.

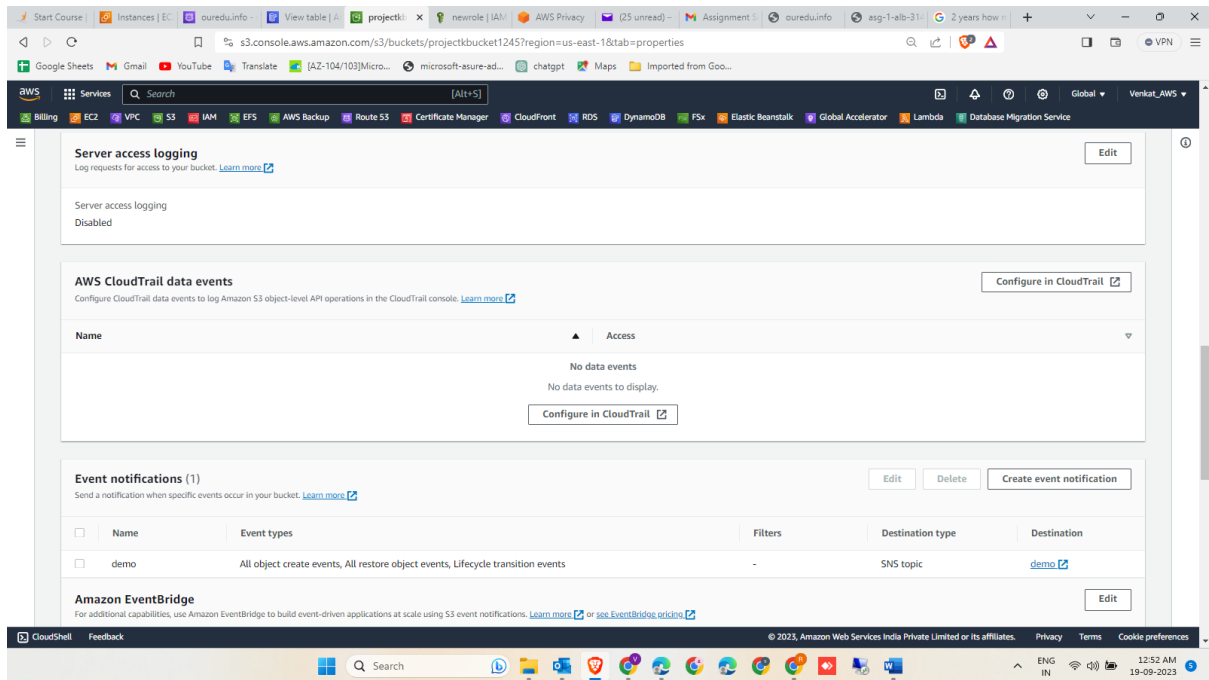


8. S3 lifecycle policies to archive photos and videos older than 2 years to Glacier.

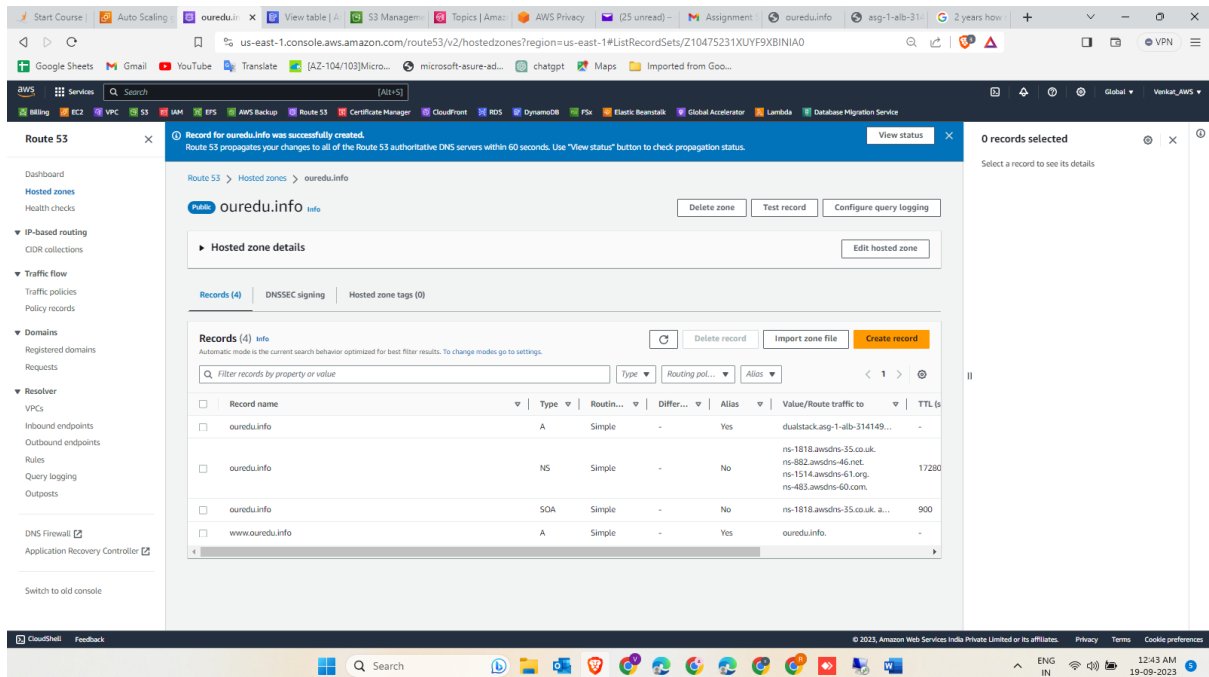


# AWS Capstone Project

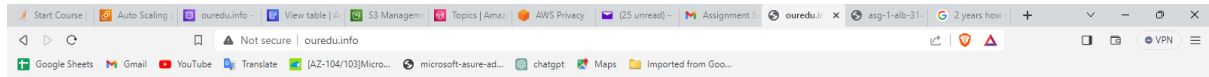
9. Used SNS to send email notifications to customers when they upload a photo or video.



10. Created a Route 53 record to pointed to the load balancer's DNS name.



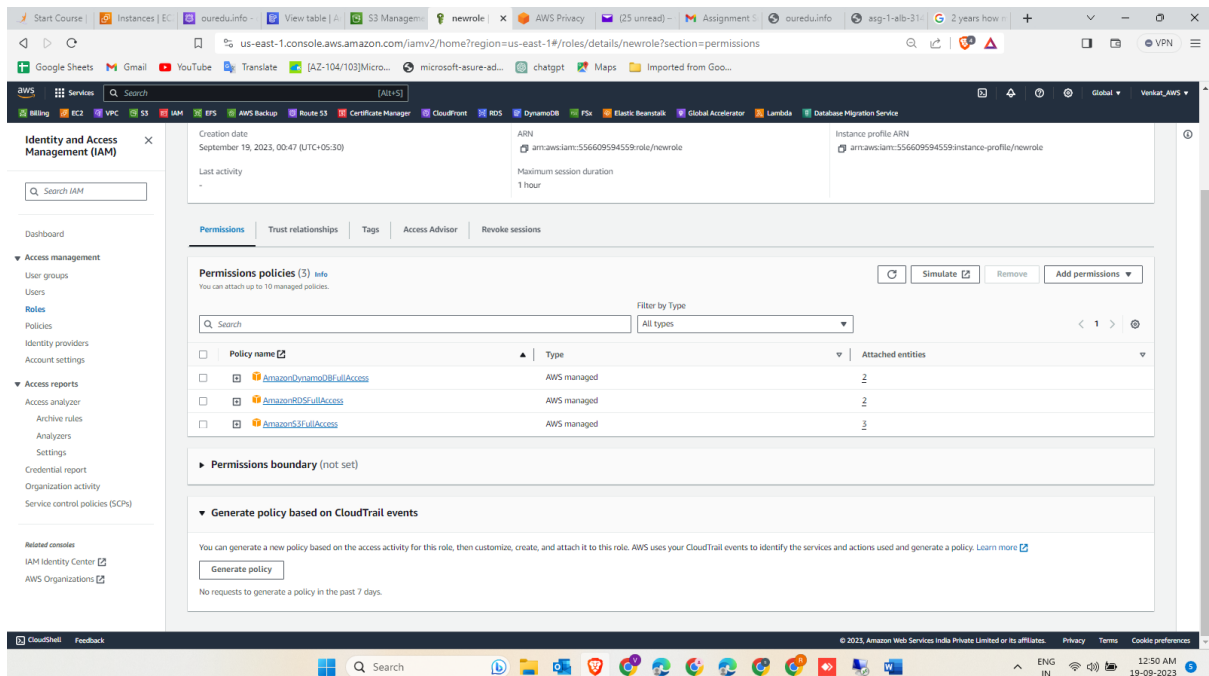
# AWS Capstone Project



It works!



11. Granted IAM users and roles the permissions they need to perform their tasks.



# AWS Capstone Project

12. Used an ElastiCache cluster to cache frequently accessed data from the RDS DB instance.

The screenshot displays the AWS Management Console interface for an Amazon ElastiCache Redis cluster. The top navigation bar shows the AWS logo and various service icons. The left sidebar contains the 'Amazon ElastiCache' menu with options like Dashboard, Resources, Redis clusters, Global datastores, Memcached clusters, Reserved nodes, Backups, Configurations, Subnet groups, Parameter groups, User management, and User group management. The main content area is titled 'Cluster details' and shows the following information:

Property	Value
Cluster name	redis
Description	Easy created demo cluster on 2023-09-18T18:54:45.610Z
Node type	cache.t4g.micro
Status	Available
Engine	Redis
Engine version	7.0.7
Global datastores	-
Global datastore role	-
Update status	Up to date
Cluster mode	Enabled
Shards	1
Number of nodes	1
Data tiering	Disabled
Multi-AZ	Disabled
Auto-failover	Enabled
Encryption in transit	Disabled
Configuration endpoint	redis.2fac58.clustercfg.us-east-1.cache.amazonaws.com:6379
Encryption at rest	Enabled
Parameter group	default.redis7.cluster-on
Data migration	No active migrations
Primary endpoint	-
Reader endpoint	-
ARN	arn:aws:elasticache:us-east-1:556609594559:cluster/redis-0001

Below the cluster details, there is a 'Shards and nodes' section. It shows a table with the following data:

Name	Type	Nodes per shard	Slots/keyspaces	Zone	Status	ARN	Parameter group status	Endpoint
redis-0001	Shard	1	0-16383	-	Available	-	-	-
redis-0001-001	Node	-	-	us-east-1b	Available	arn:aws:elasticache:us-east-1:556609594559:cluster/redis-0001-001	In-sync	redis-0001-001.2fac58.0

The bottom of the screenshot shows the Windows taskbar with various application icons and the system clock indicating 01:14 AM on 19-09-2023.