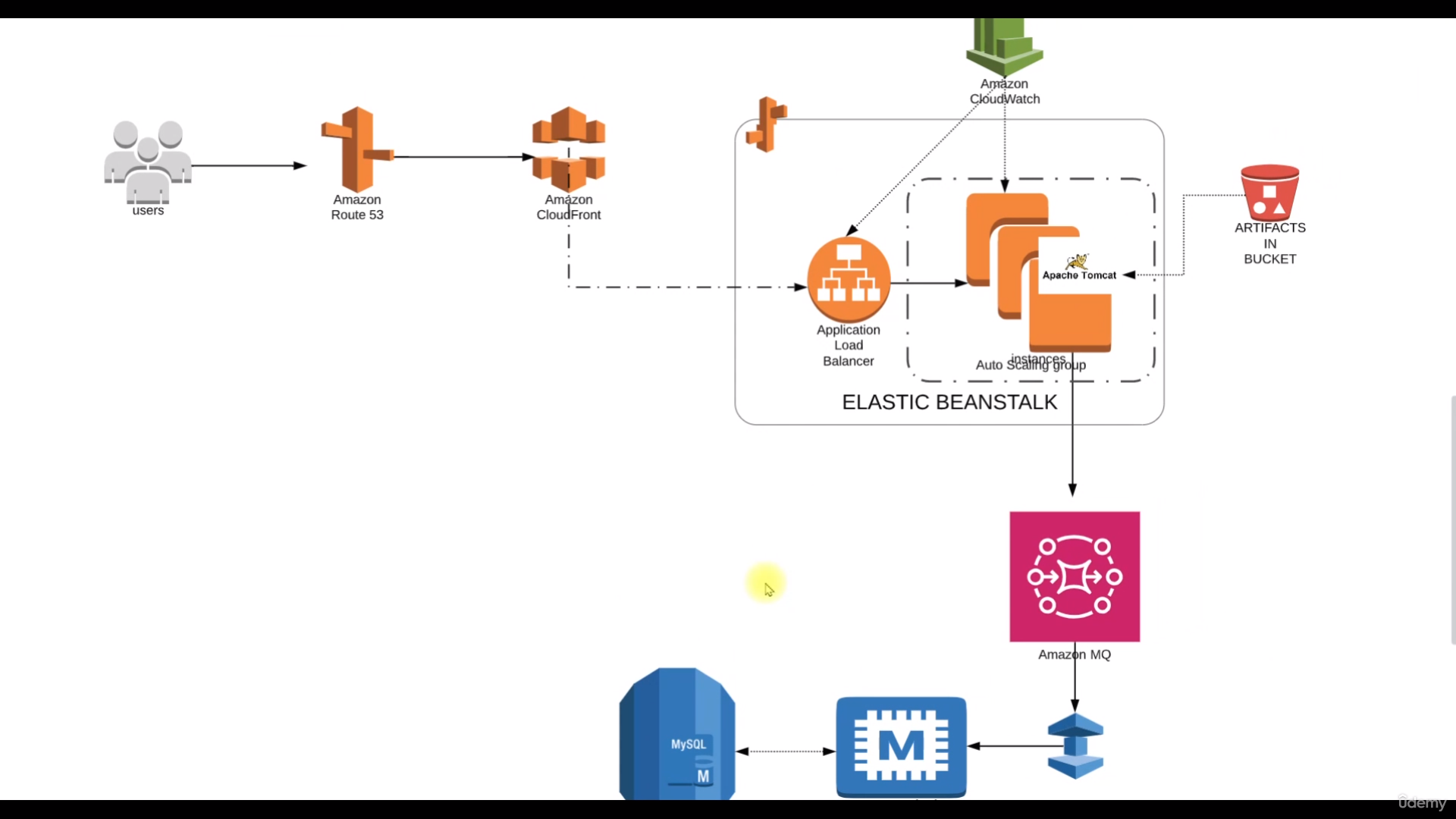
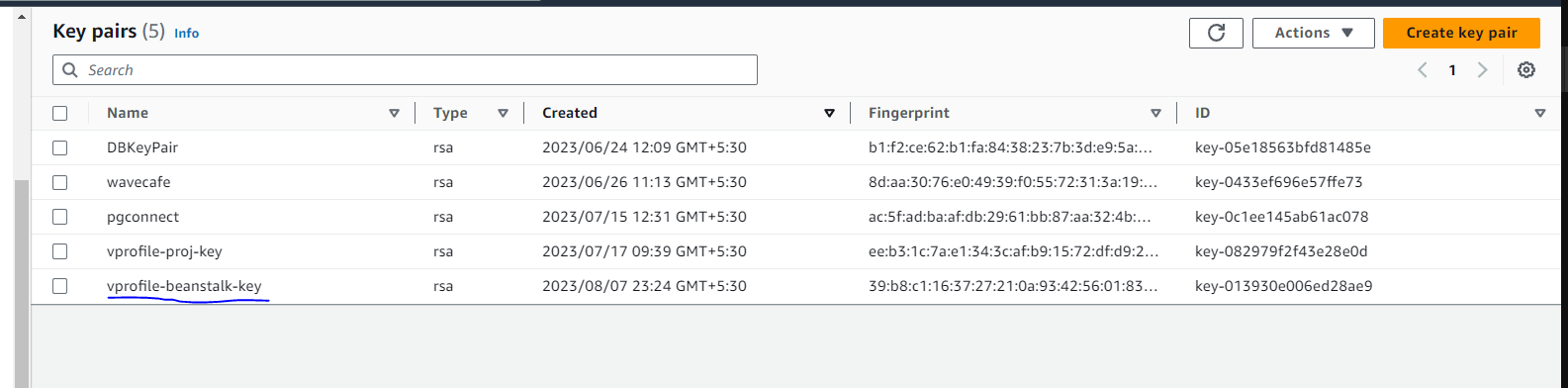
**Vprofile App on AWS Services (PAAS & SAAS)**

Architecture:

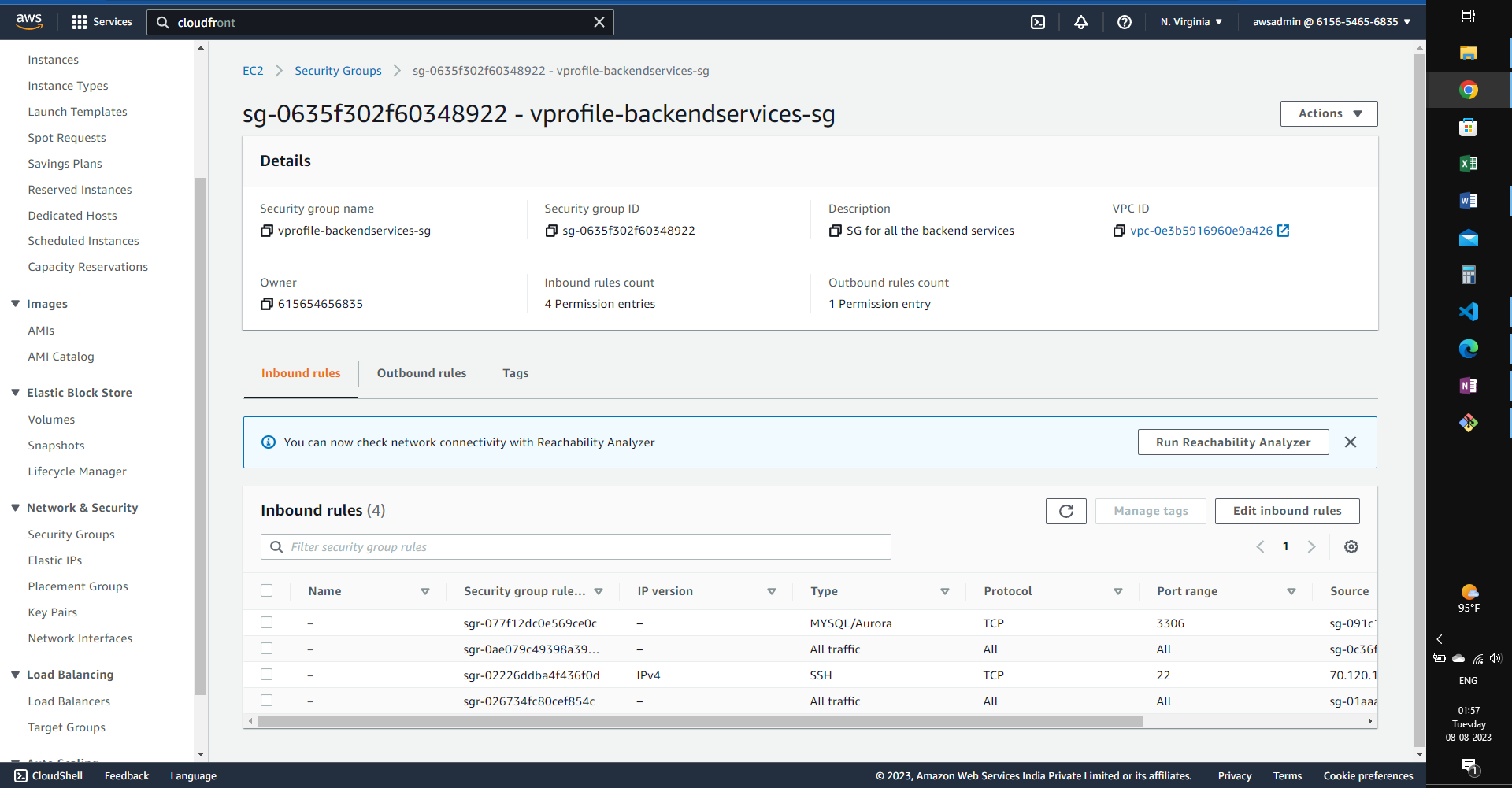


1. Creating Key Pairs:



Downloaded the key in pem format. This key will be used to login to temporary instances which are provisioned for configuration set up in the services.

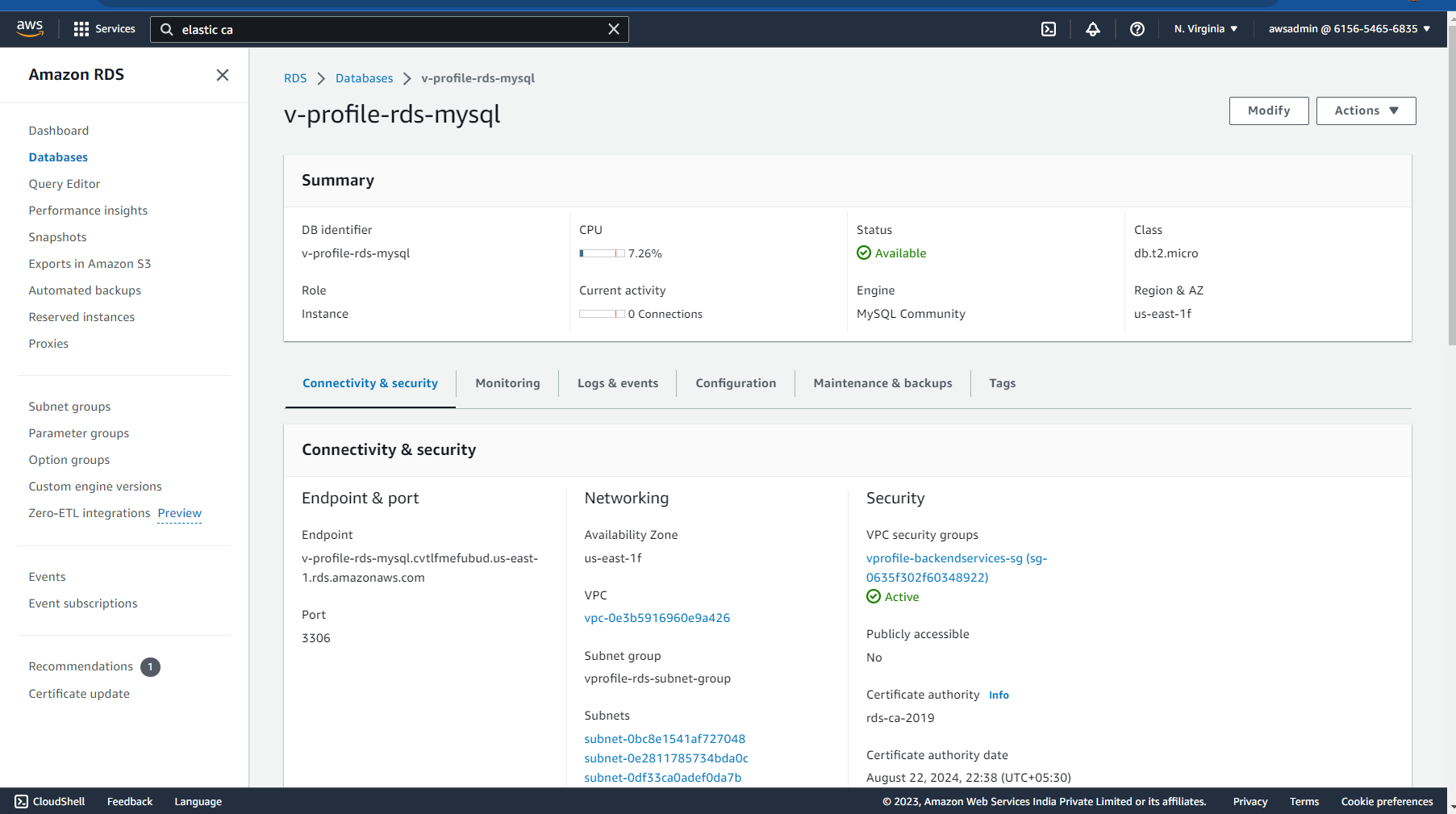
2. Security Group:

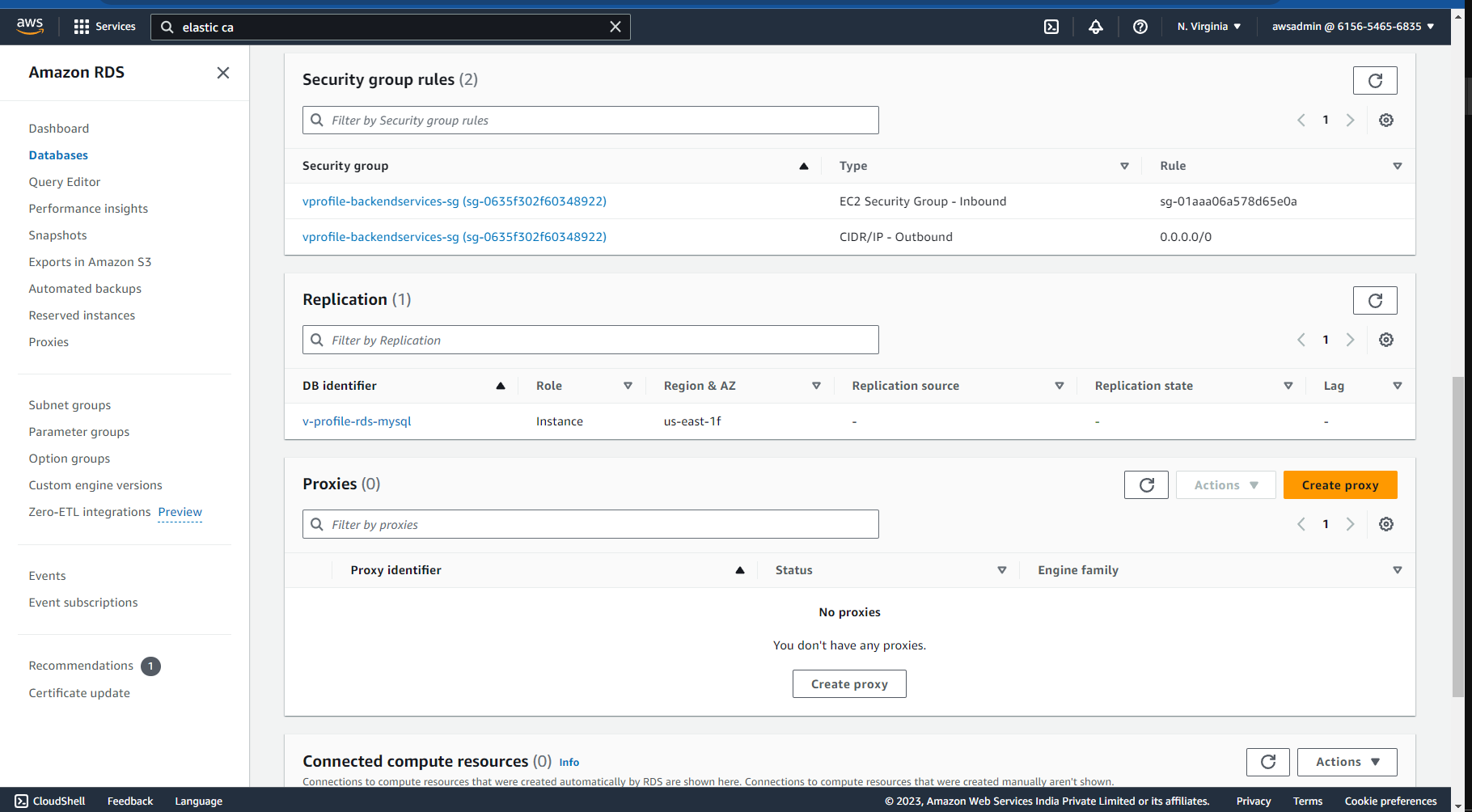


Creating a security group for backend services which are Amazon MQ (Rabbit MQ), Elasticache (Memcached), and RDS (MySQL DB).

# 3. RDS

Creating an RDS for MySQL with the following configurations:

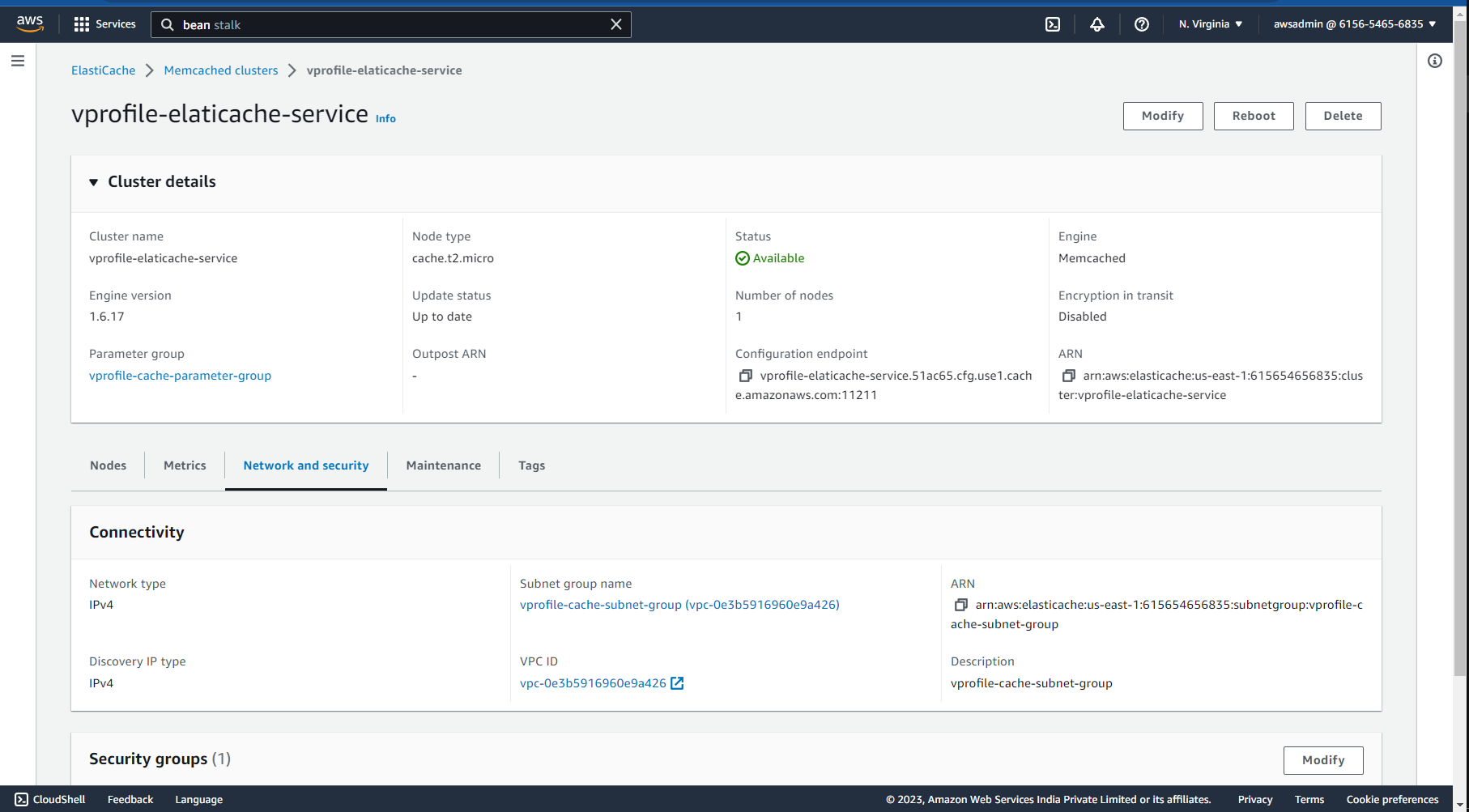


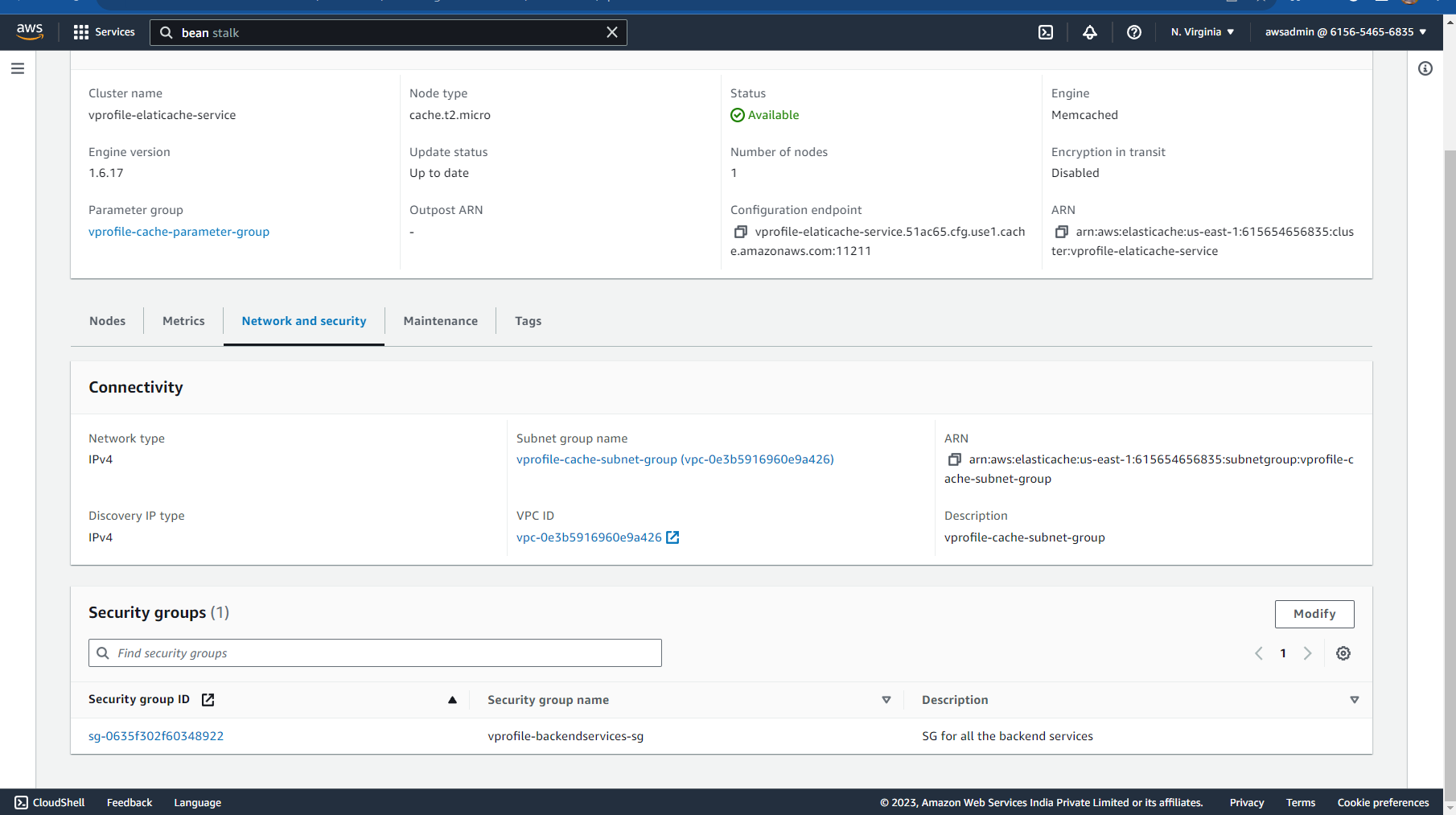


Creating this RDS instance in backend services security group to enable communication between the services and the application.

# 4. Elasticache

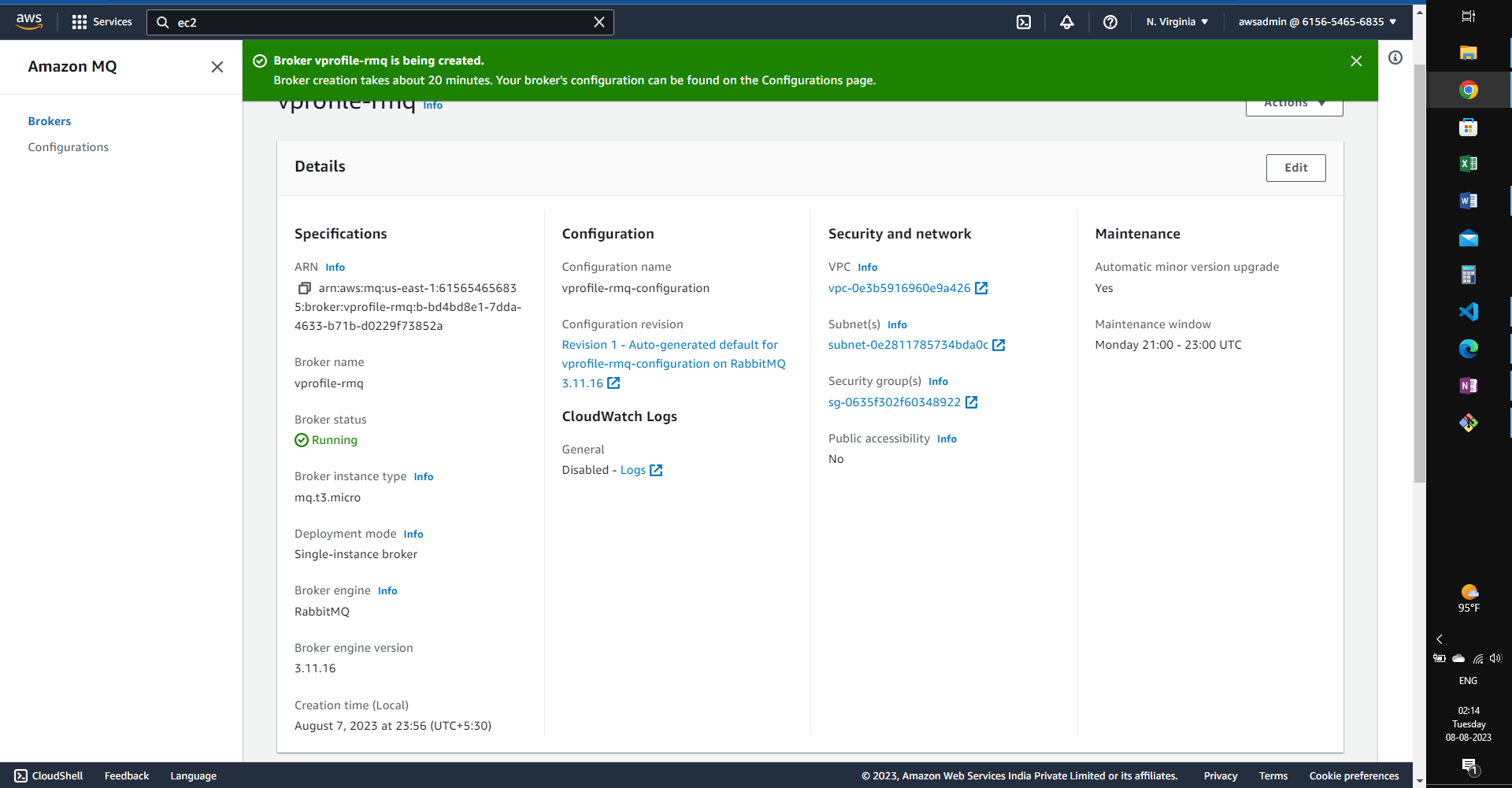
Using Elasticache for Memcached functionalities:





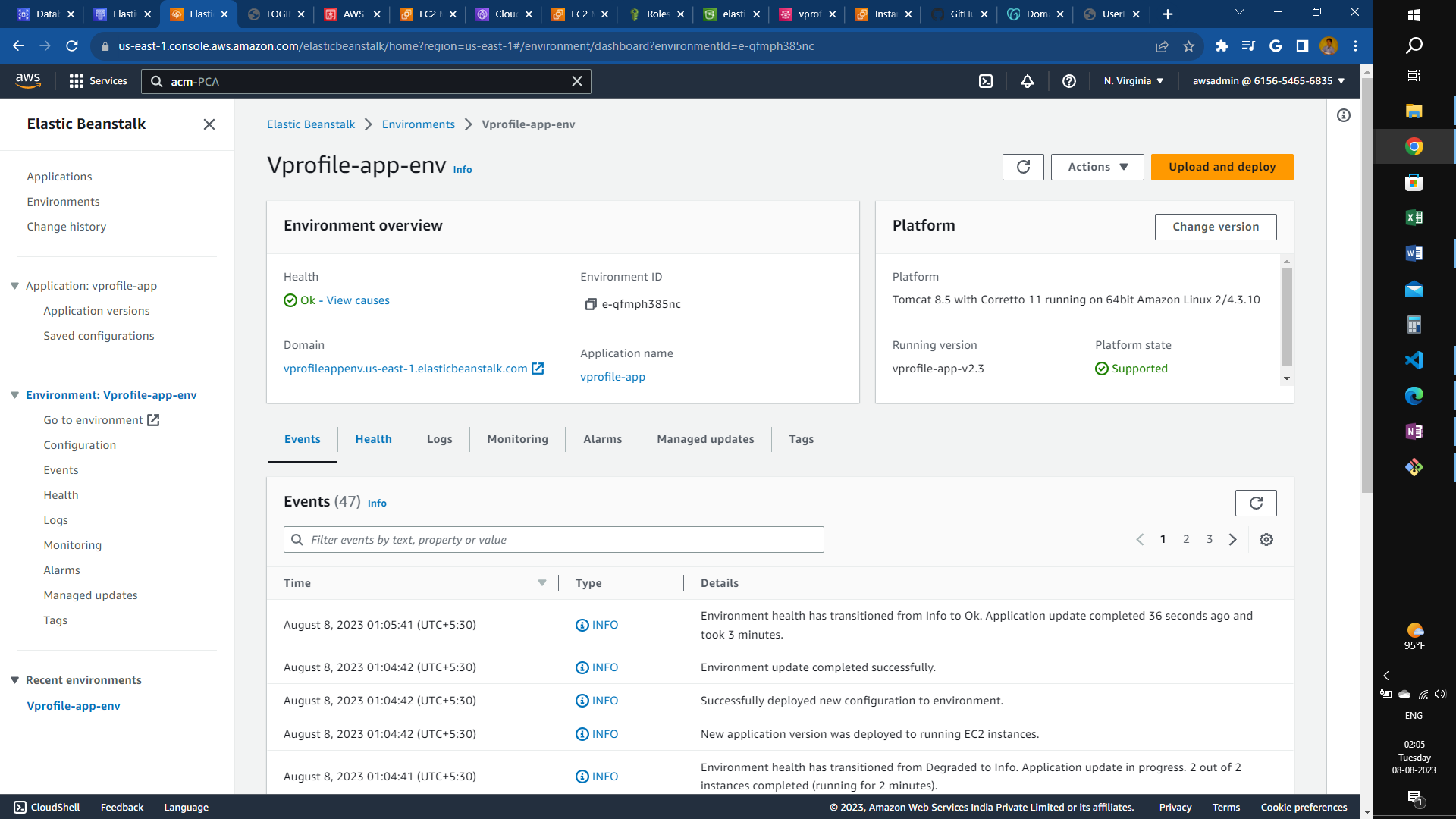
Creating this in the same backend services security group.

# 5. Amazon MQ

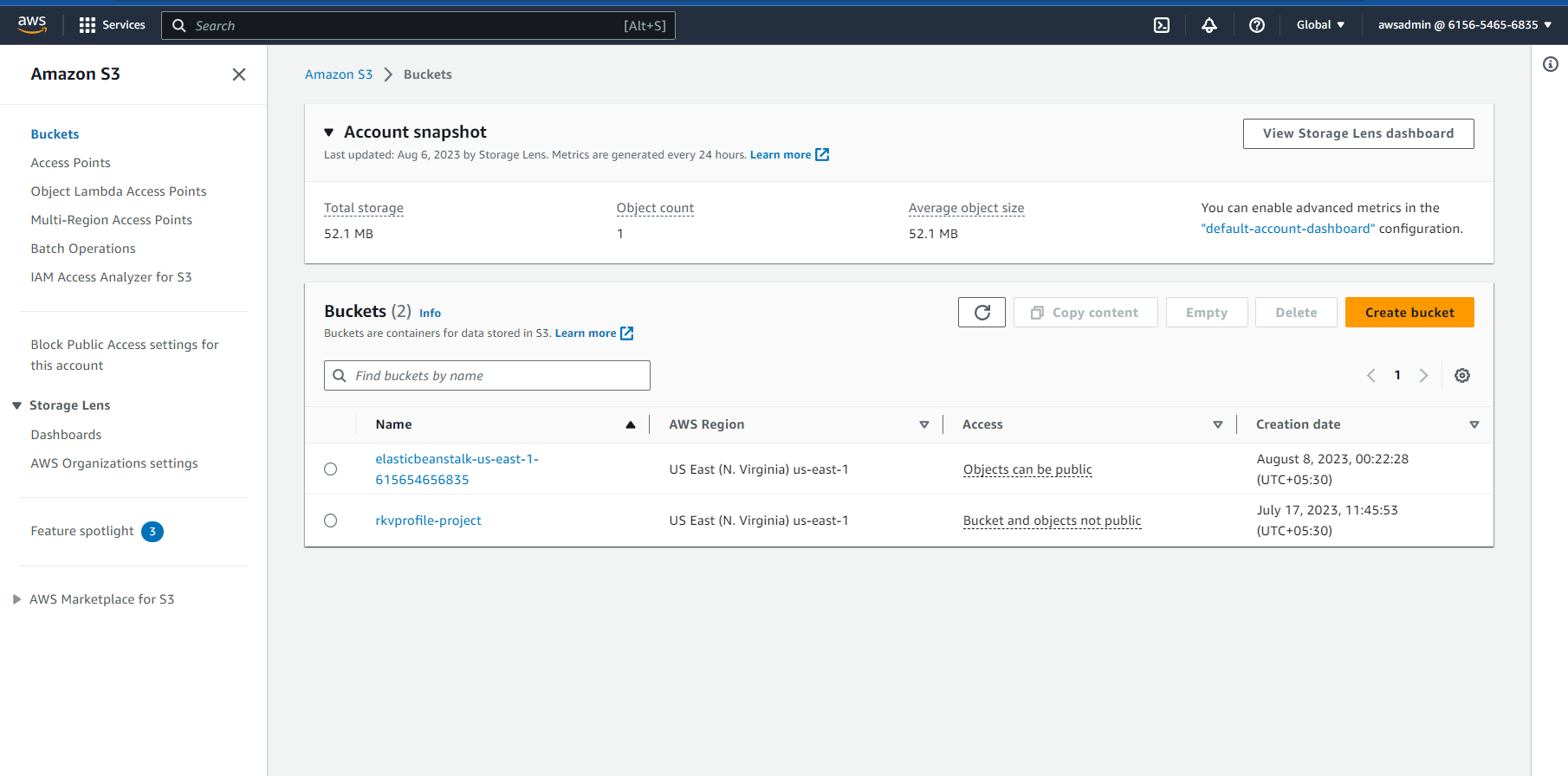


6. Using Elastic Beanstalk:

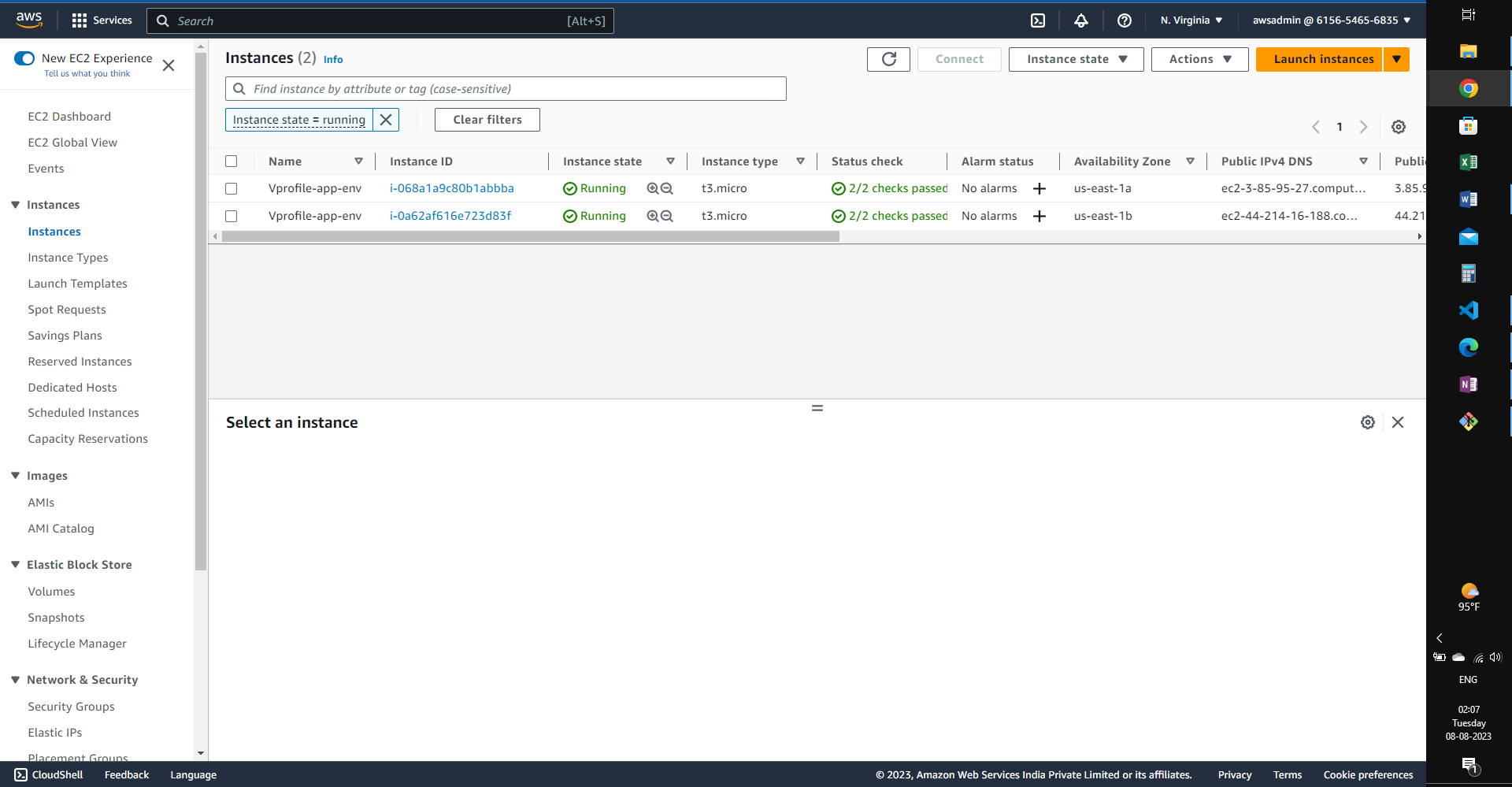
Deploying the application in beanstalk:



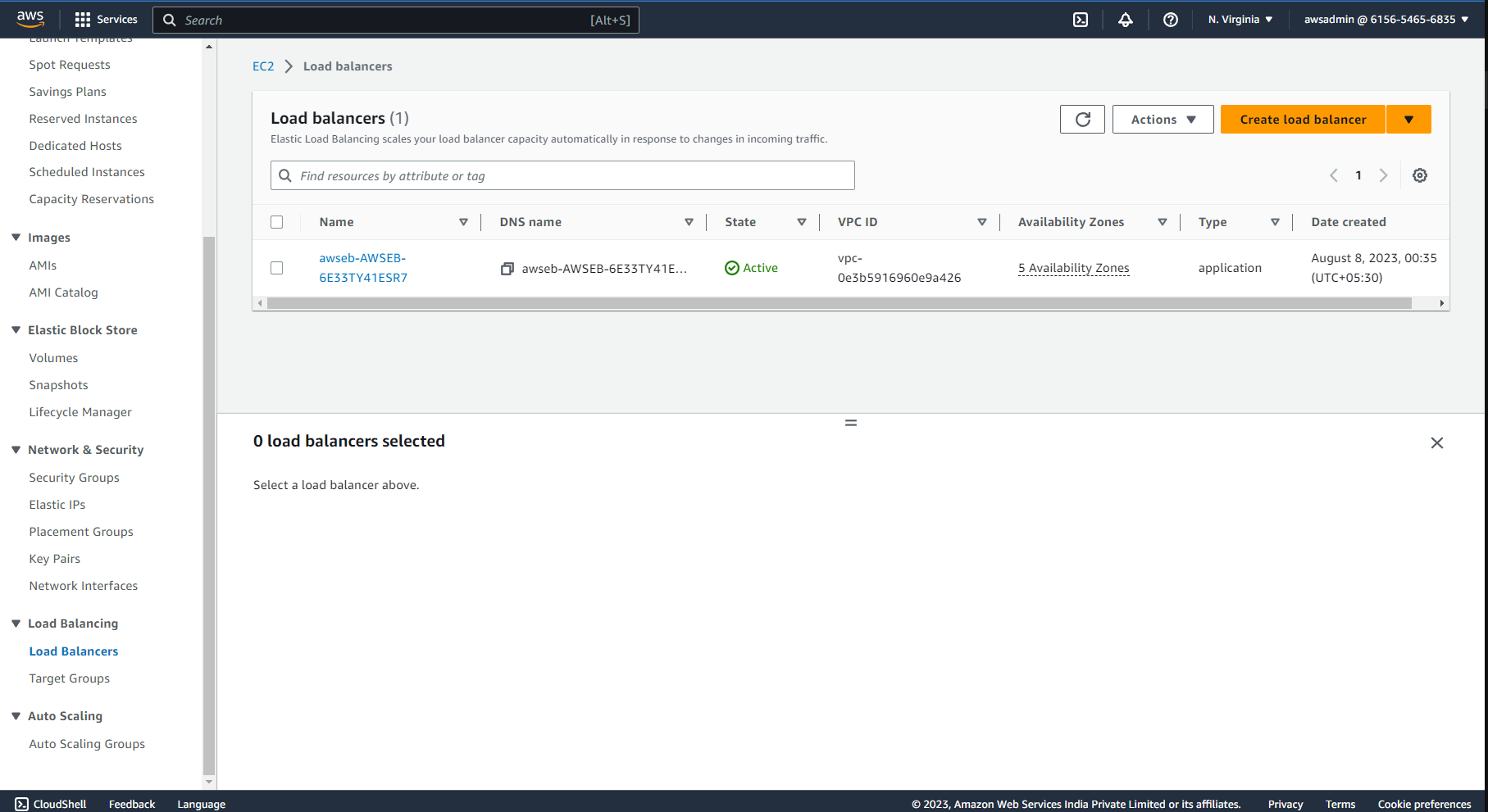
S3 bucket created by Beanstalk:



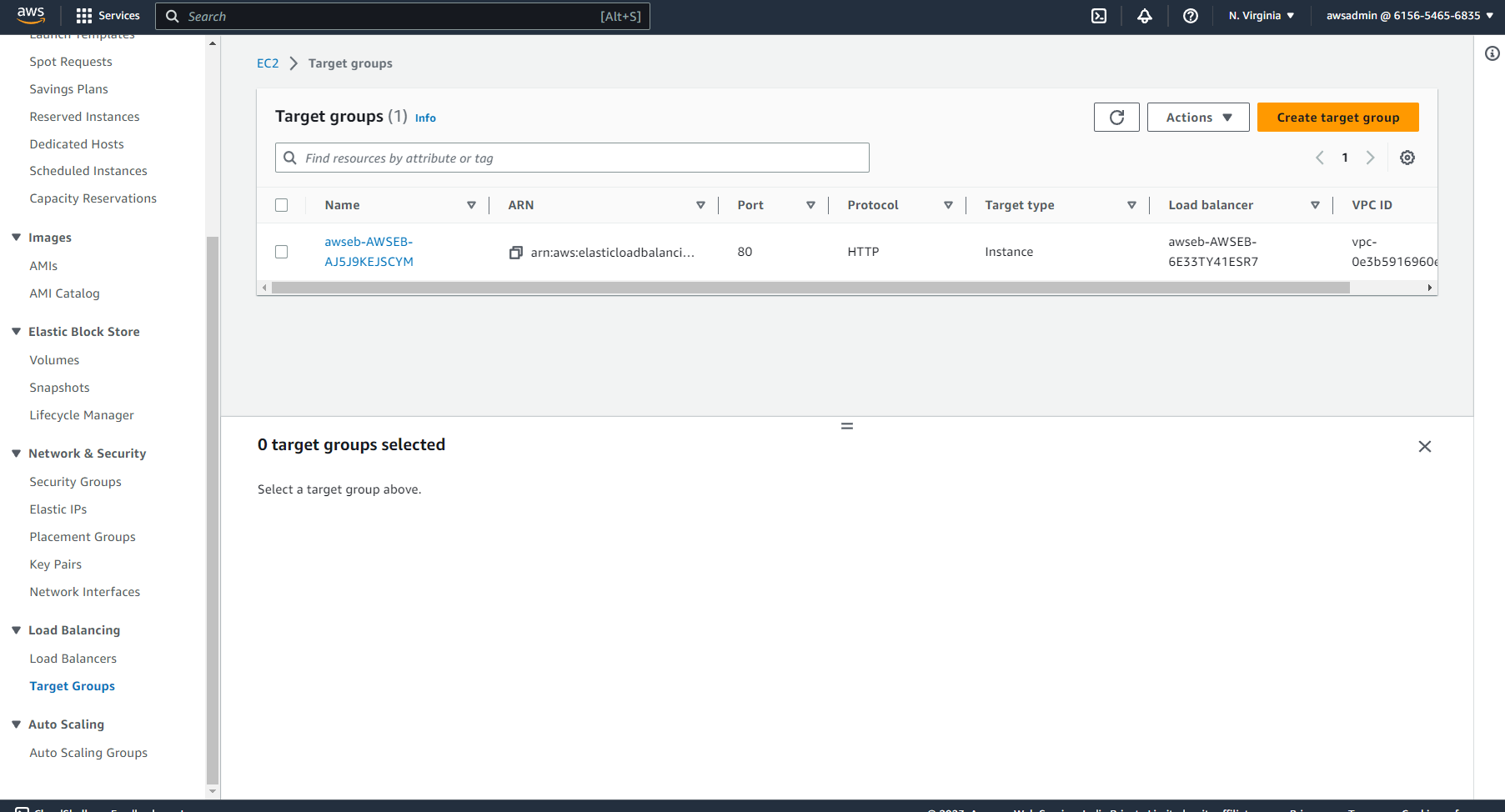
EC2 Instances created by beanstalk:



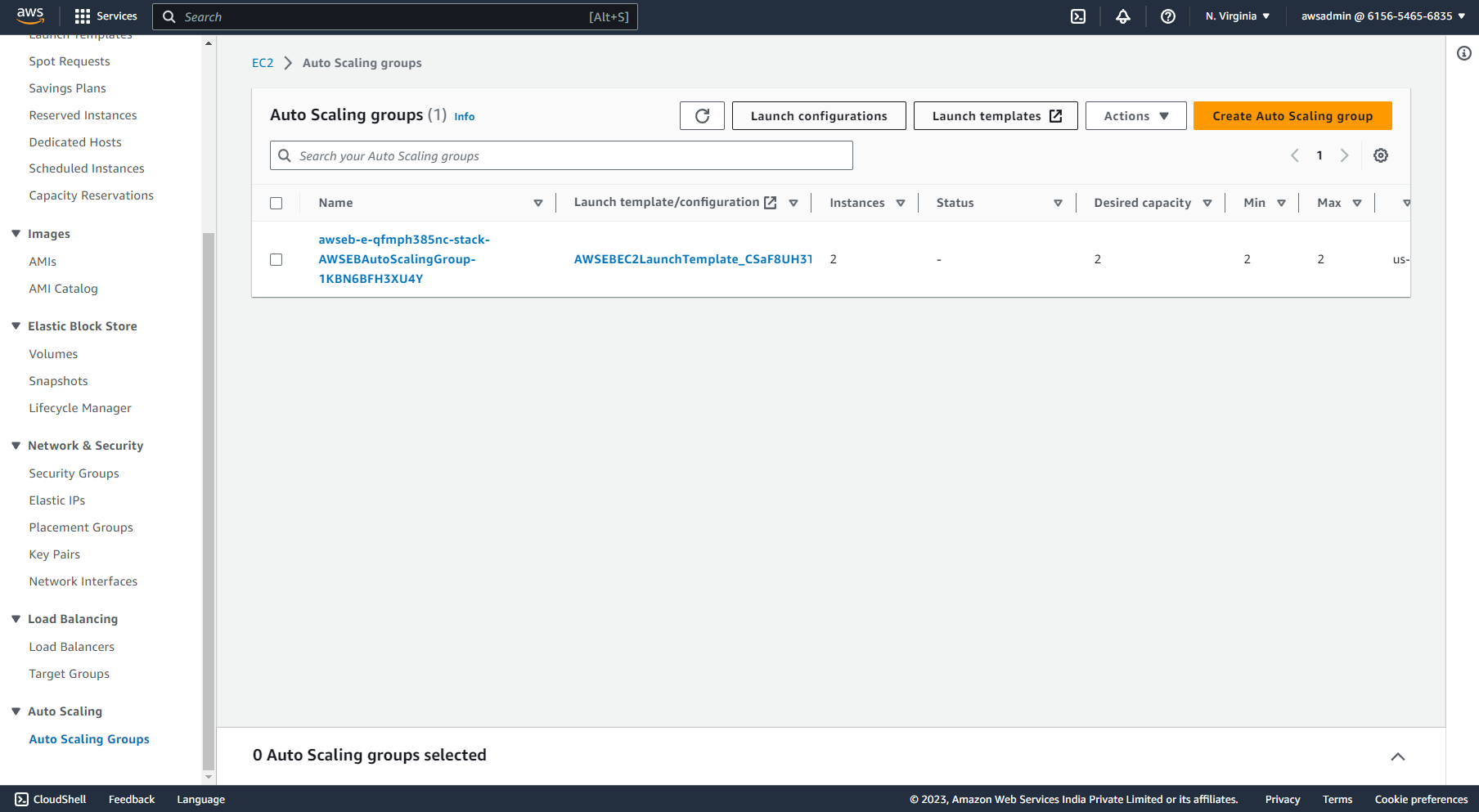
Load Balancer created by Beanstalk:



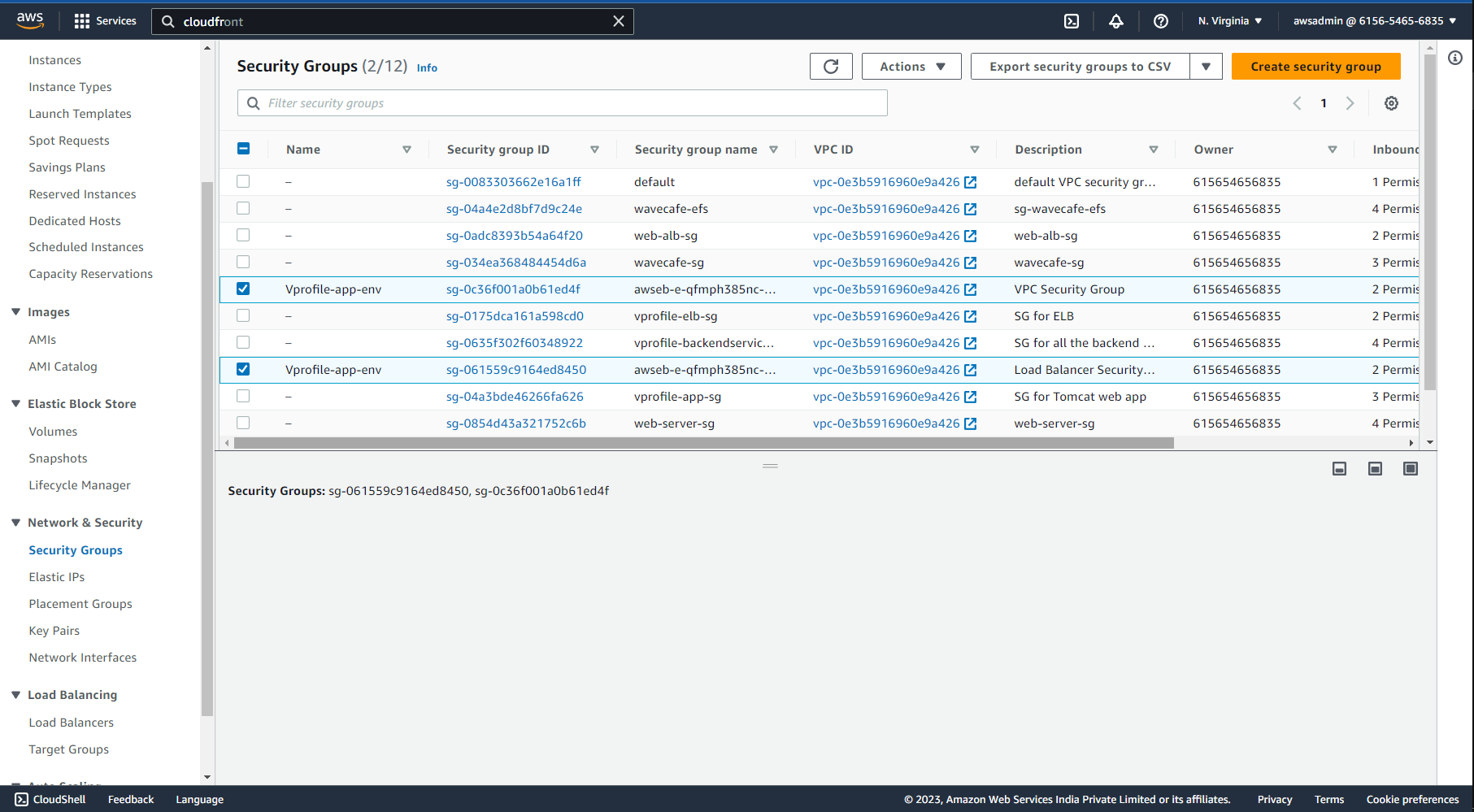
Target groups created by Beanstalk:



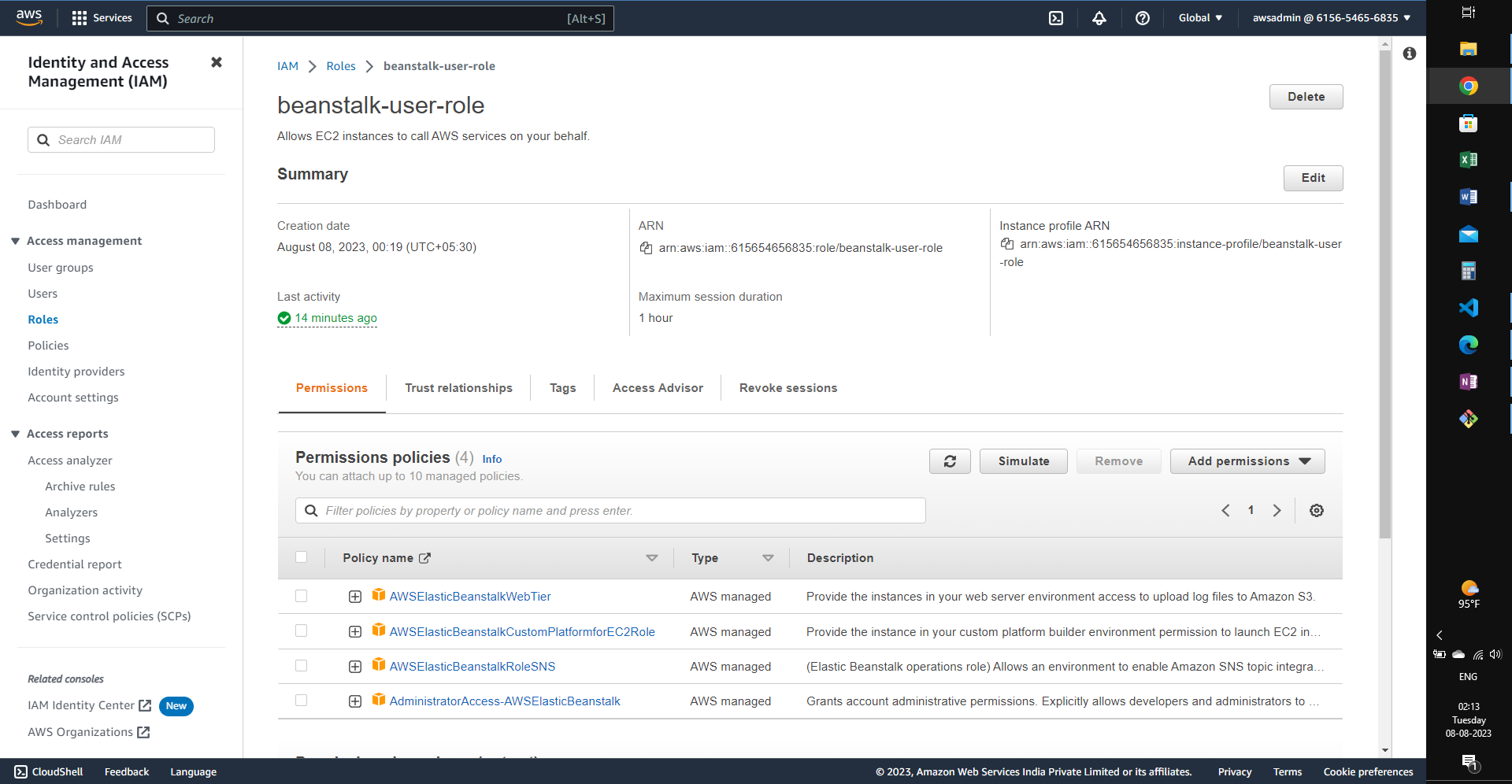
Autoscaling group created by beanstalk:



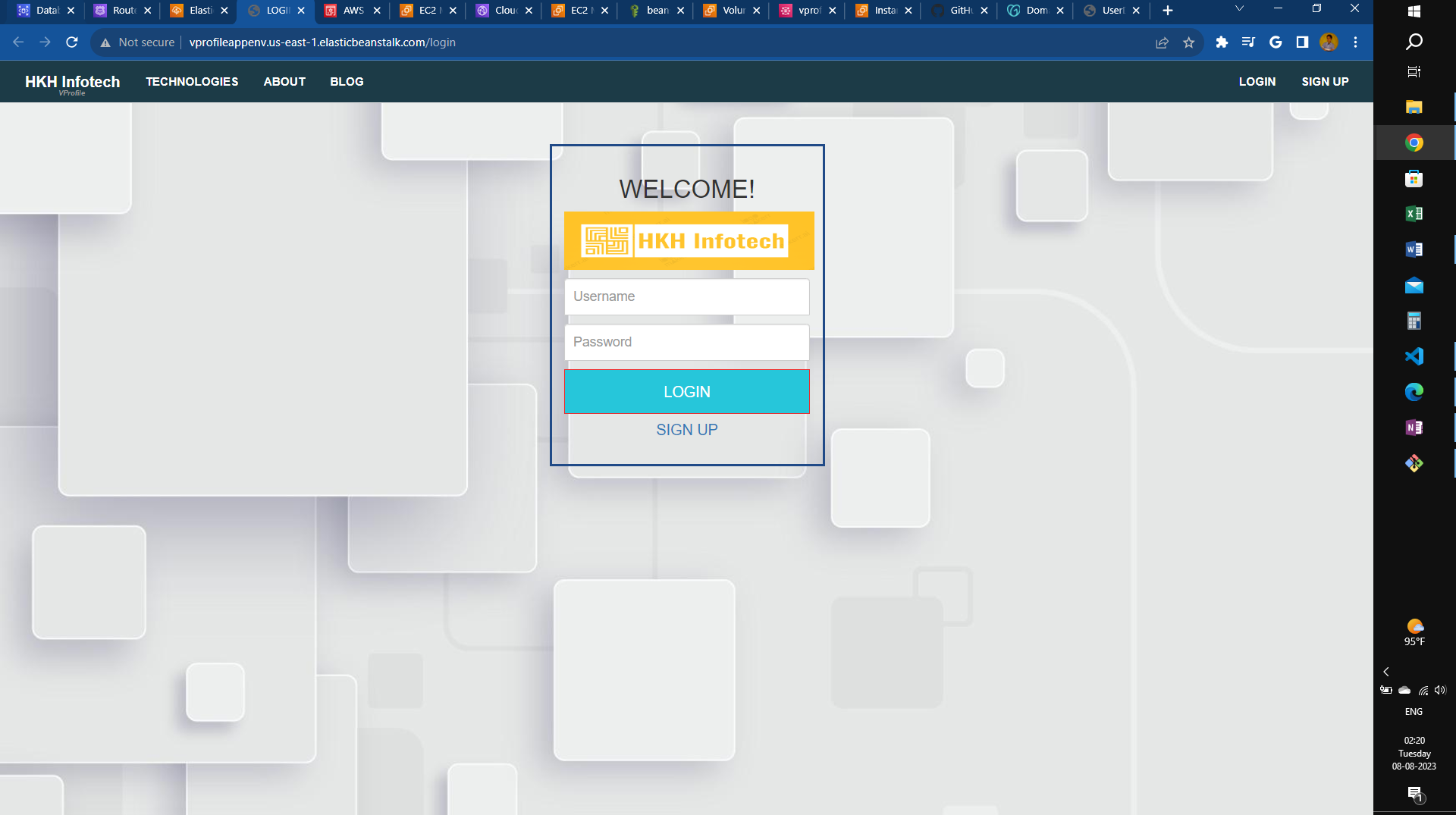
Security groups created by Load Balancer:



Additional IAM Role for Beanstalk:



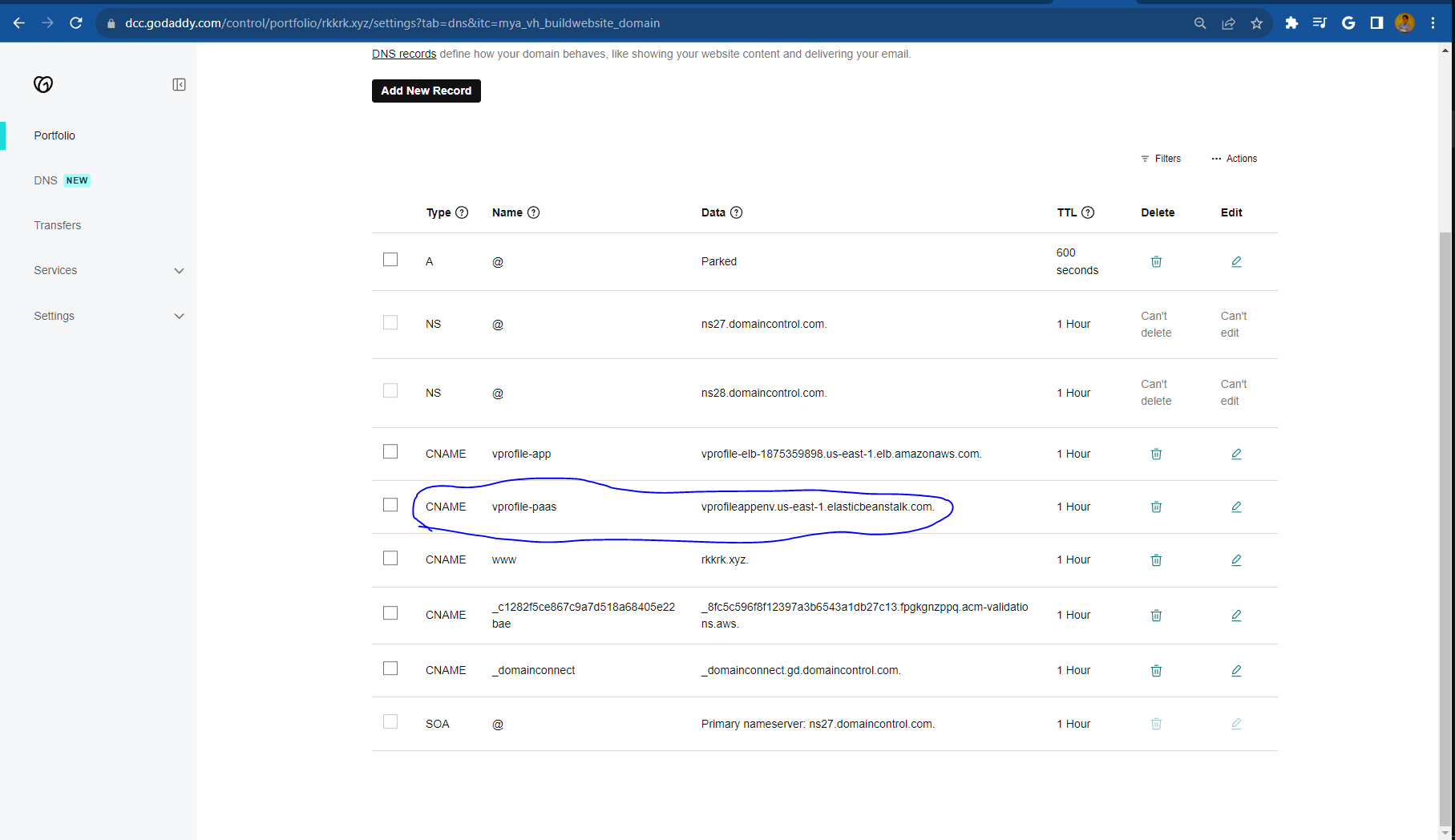
Application Deployed through Beanstalk:



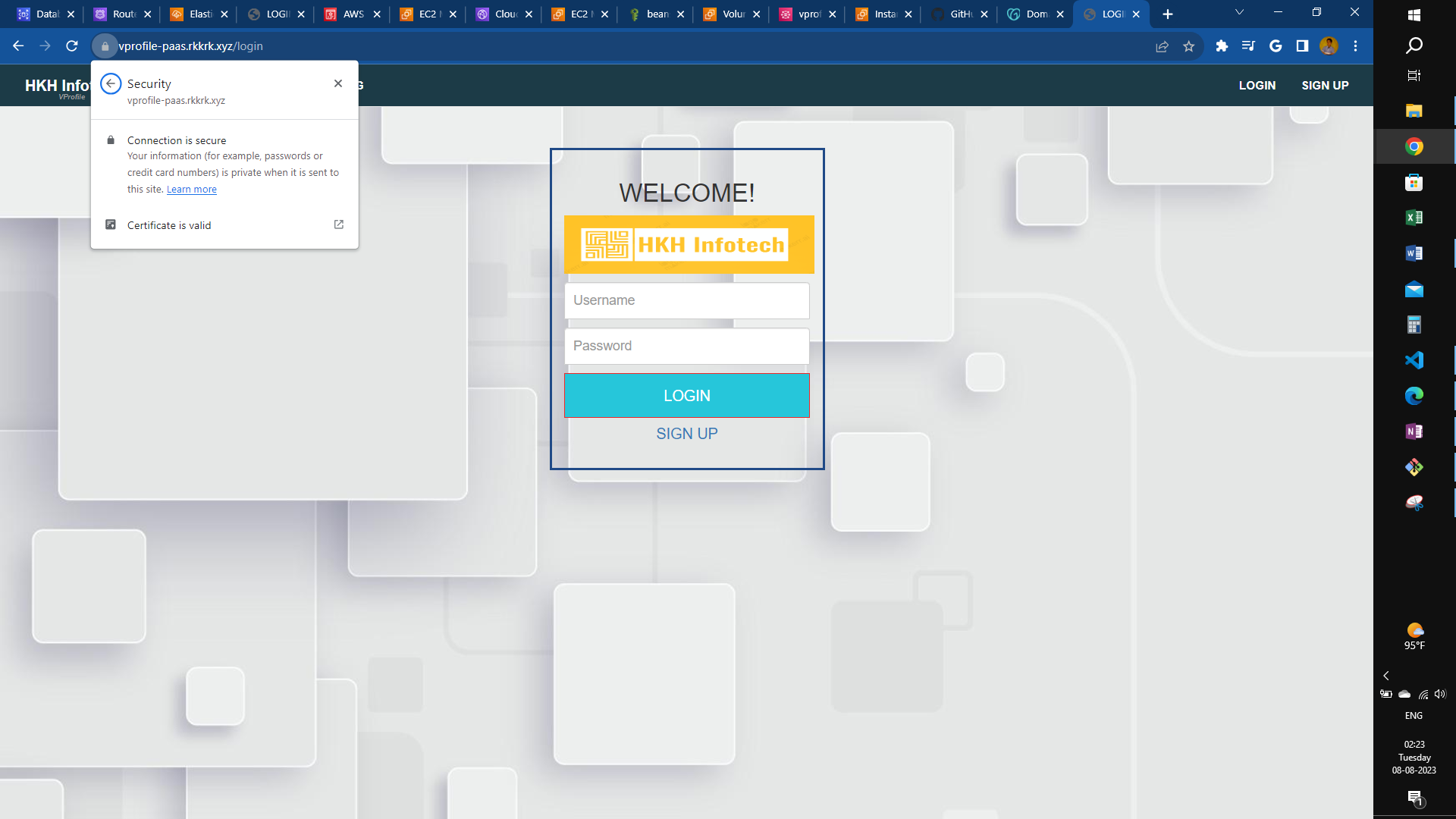
Note the SSL security missing for the application.

# 7. GoDaddy record creation for the domain

Creating a CNAME record for the Beanstalk URL:



Secure Application:



# 8. Cloudfront distribution for the application:

