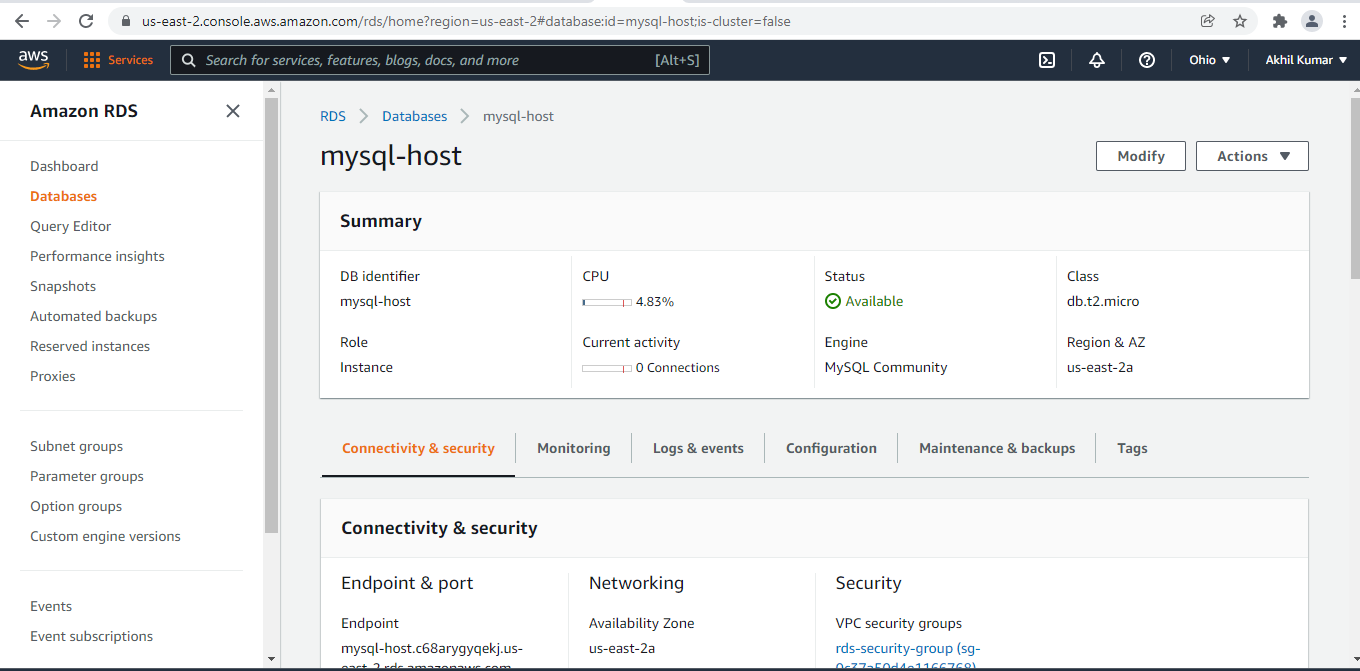
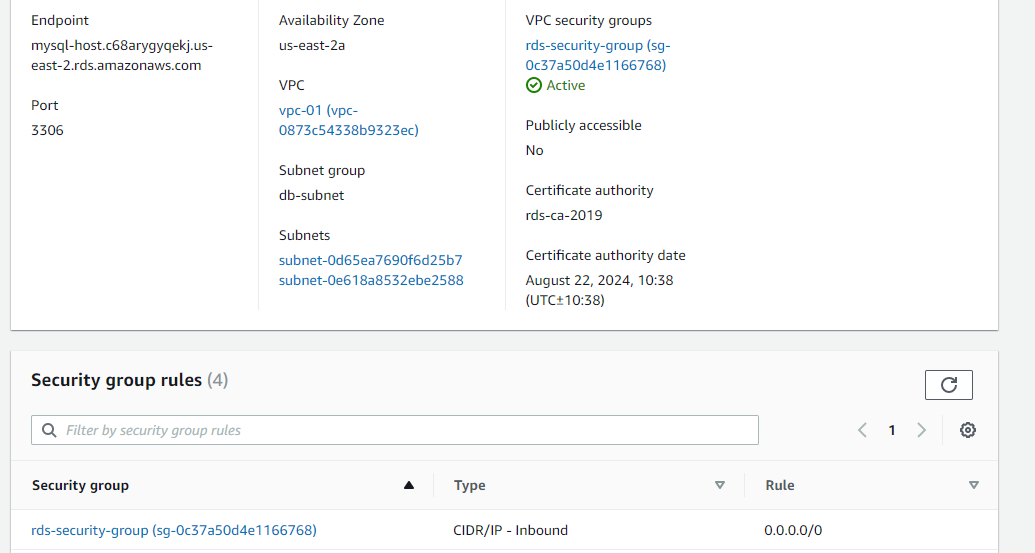
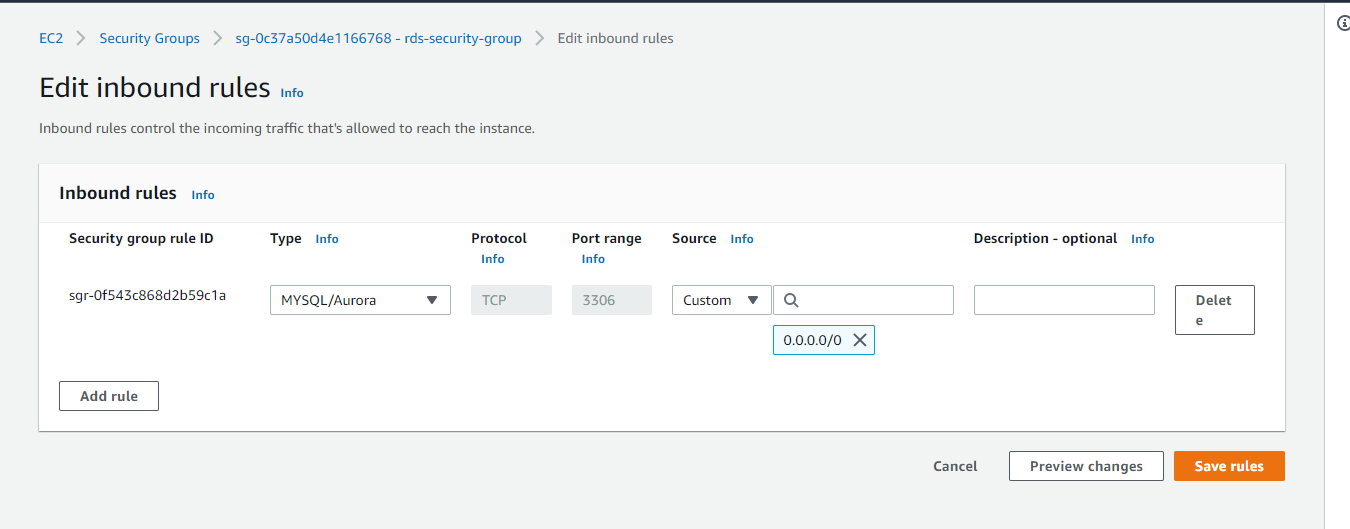
RDS instance :



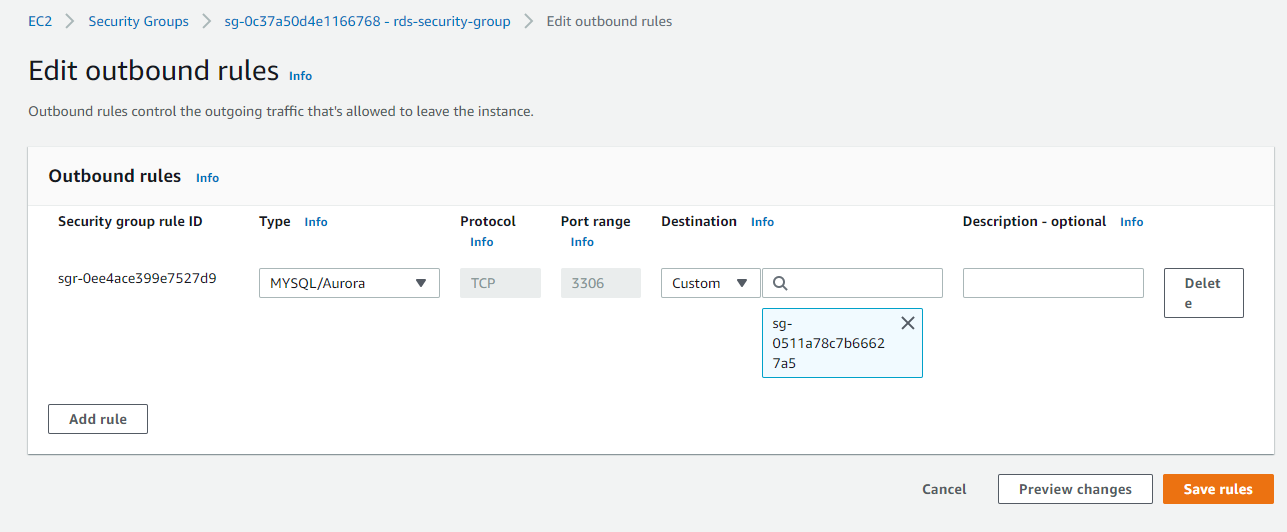
Private :



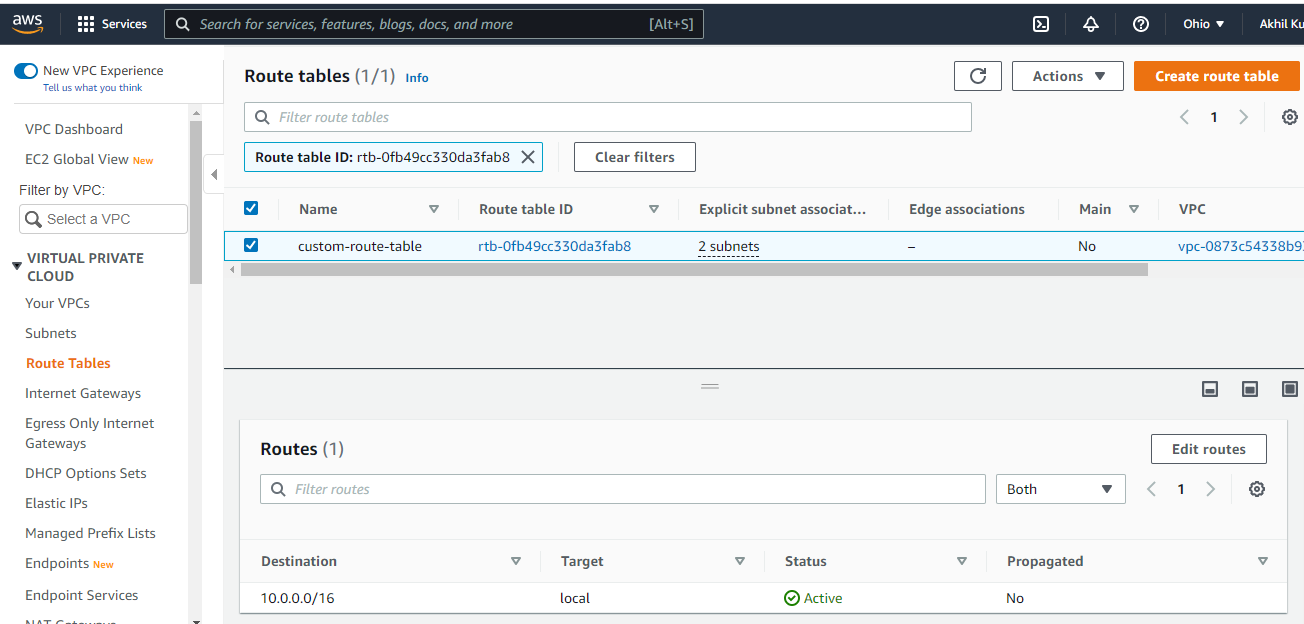
RDS security group inbound rules :



RDS security group outbound rules :

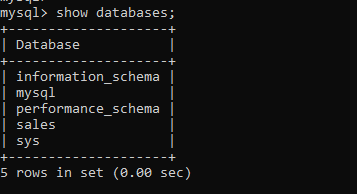


RDS subnet route table don’t have IG or NAT :

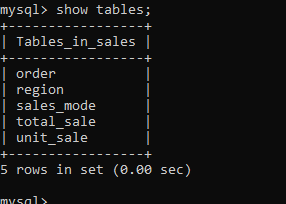


Structured the csv sales schema into 5 different tables :

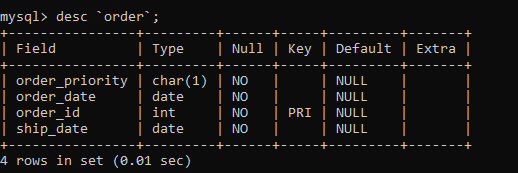
Sales database :

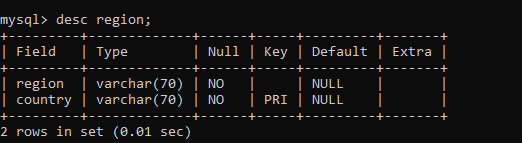


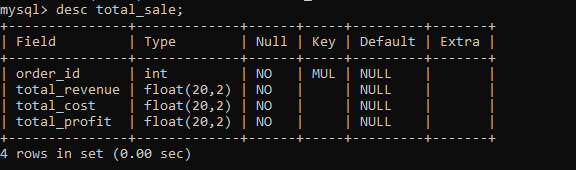
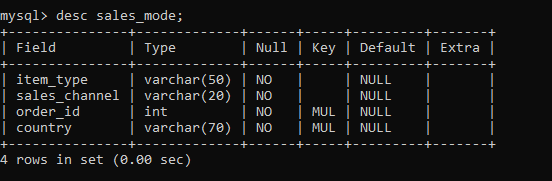
Tables :

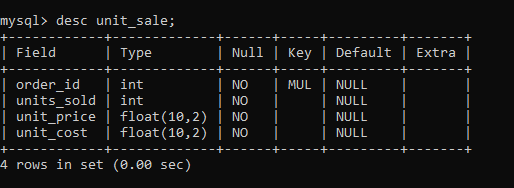


Describing each table:

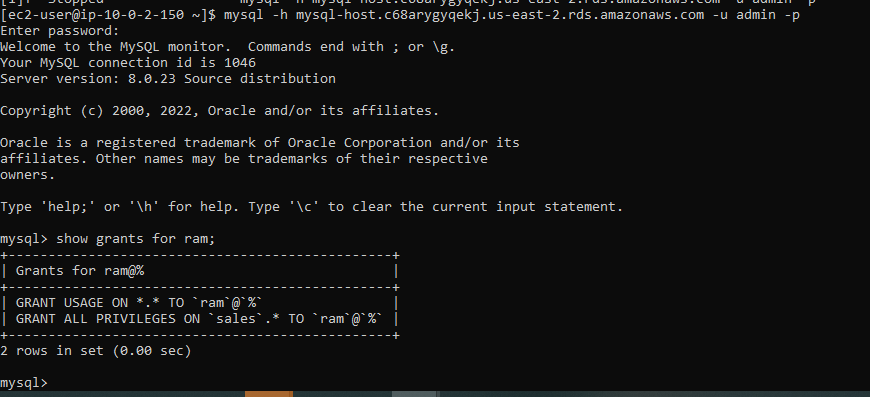




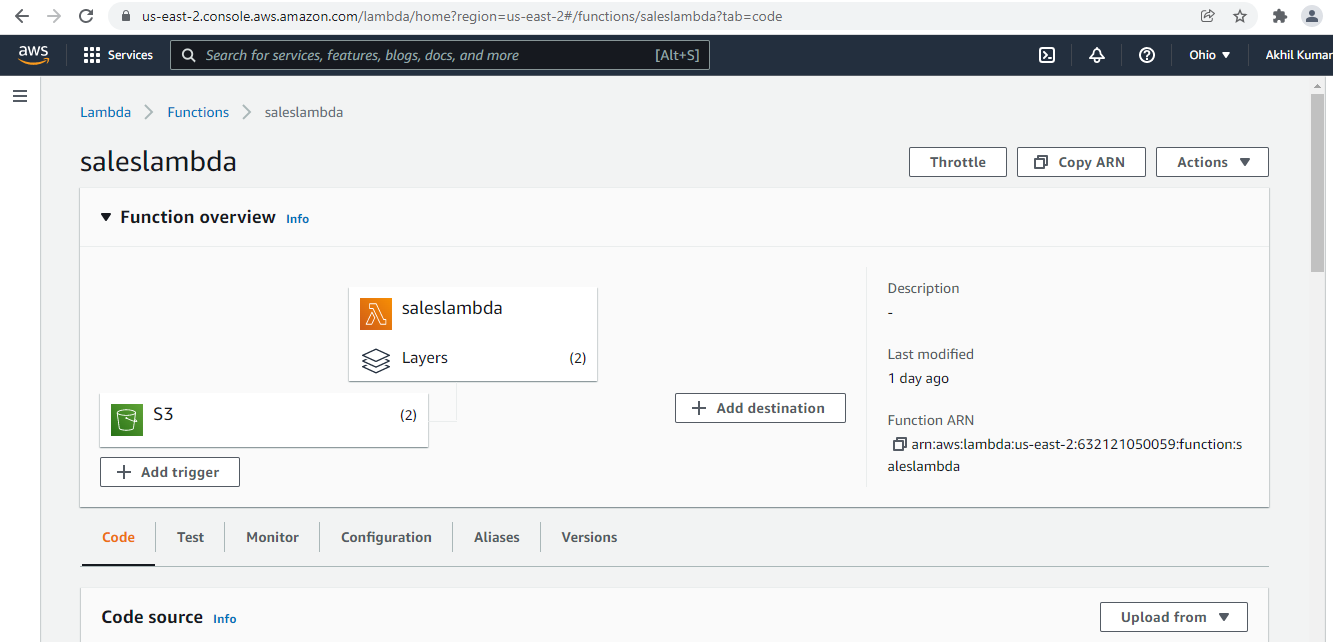




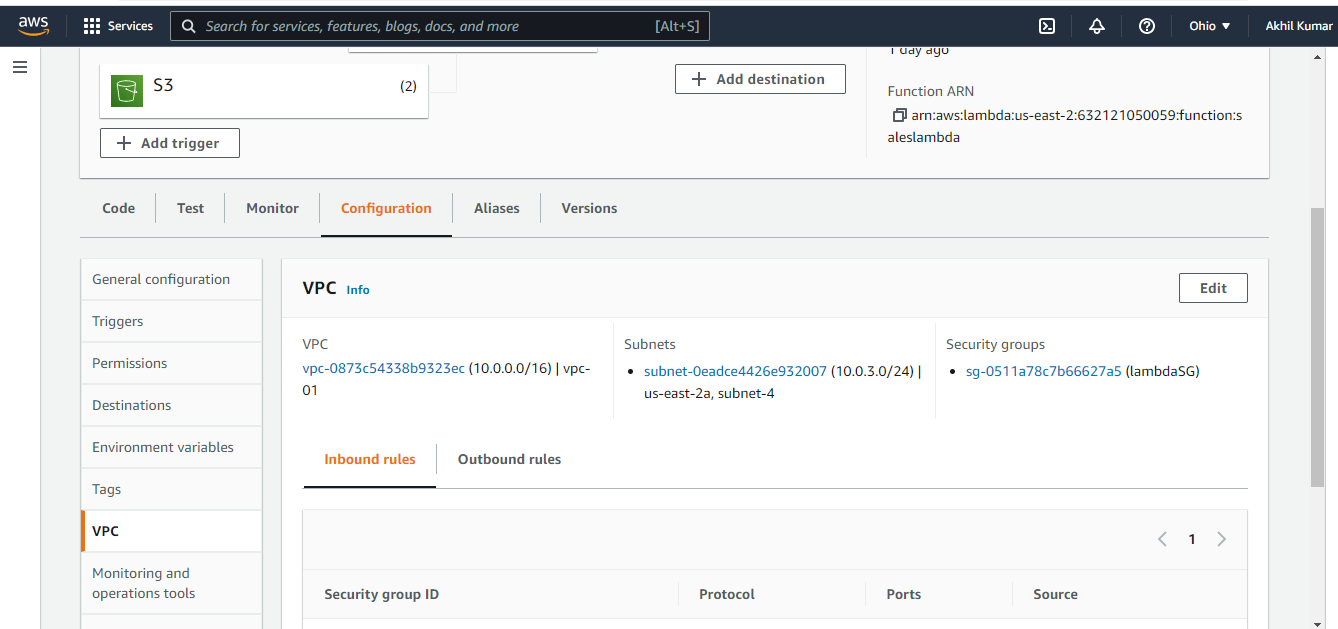
Created user to access only the sales database :



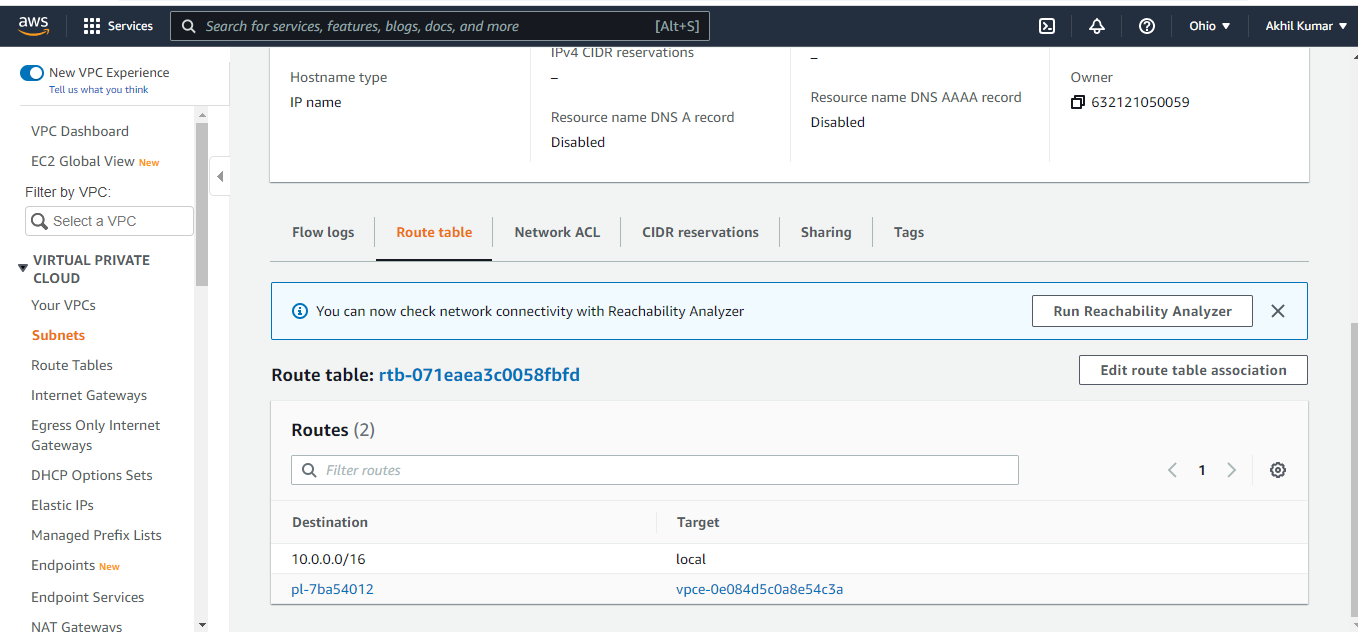
lambda function to read the S3 file and insert into Tables :



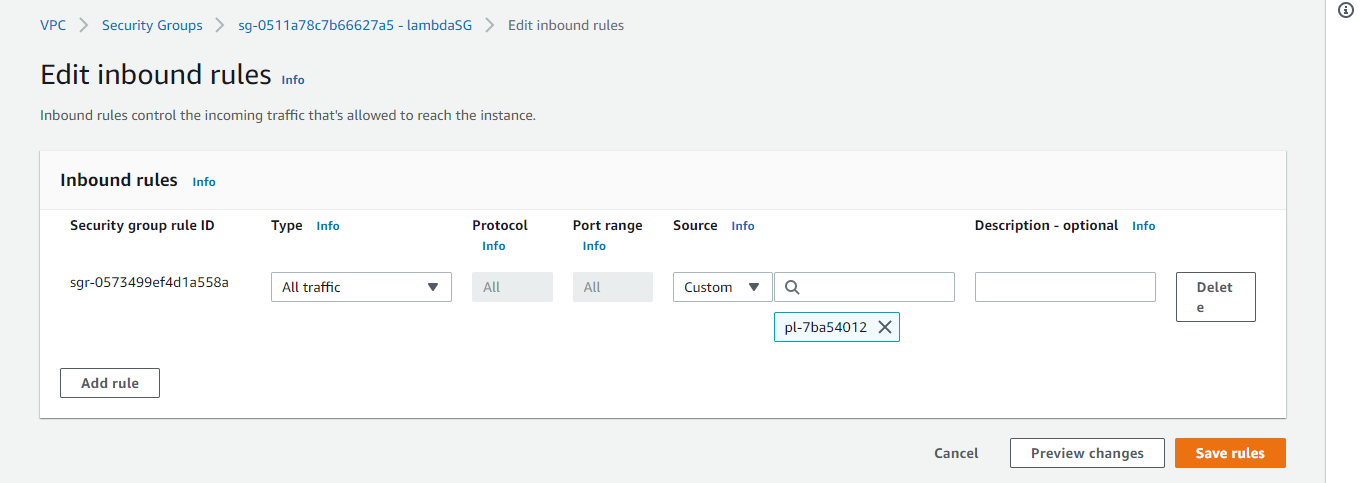
Network configuration of lambda :



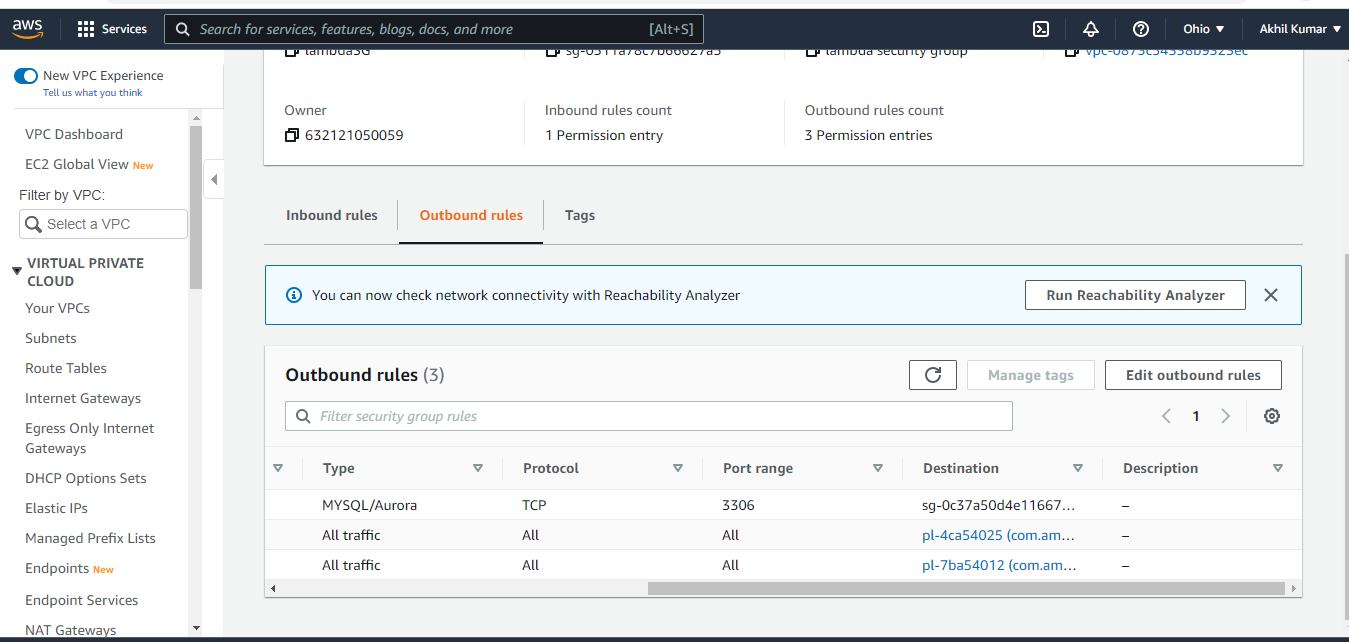
Subnet (private):



Security Group :



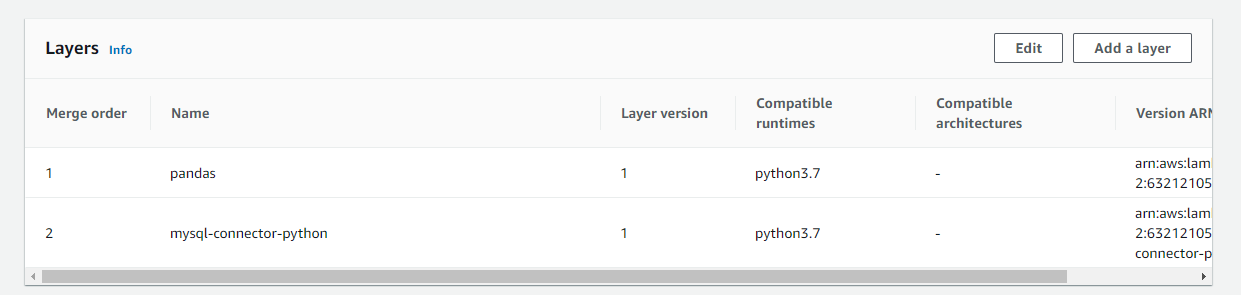
Outbound rules:



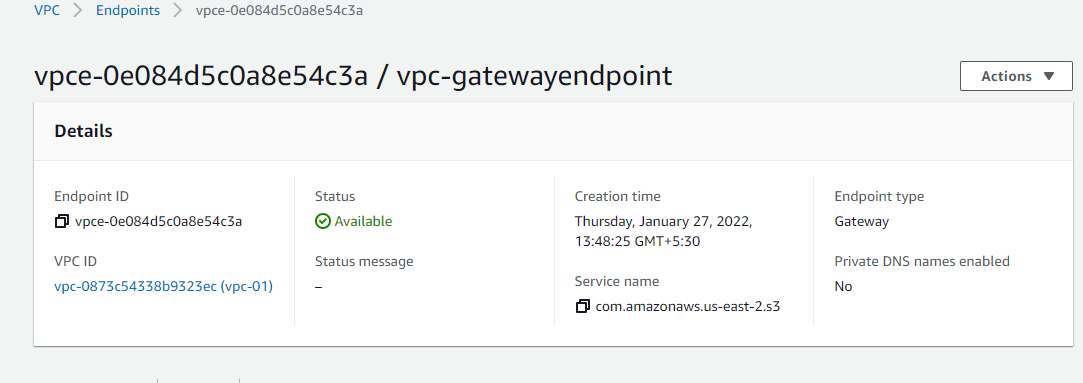
Added 2 layers :

Pandas : to deal with csv data

Mysql-connector-python : to insert into tables

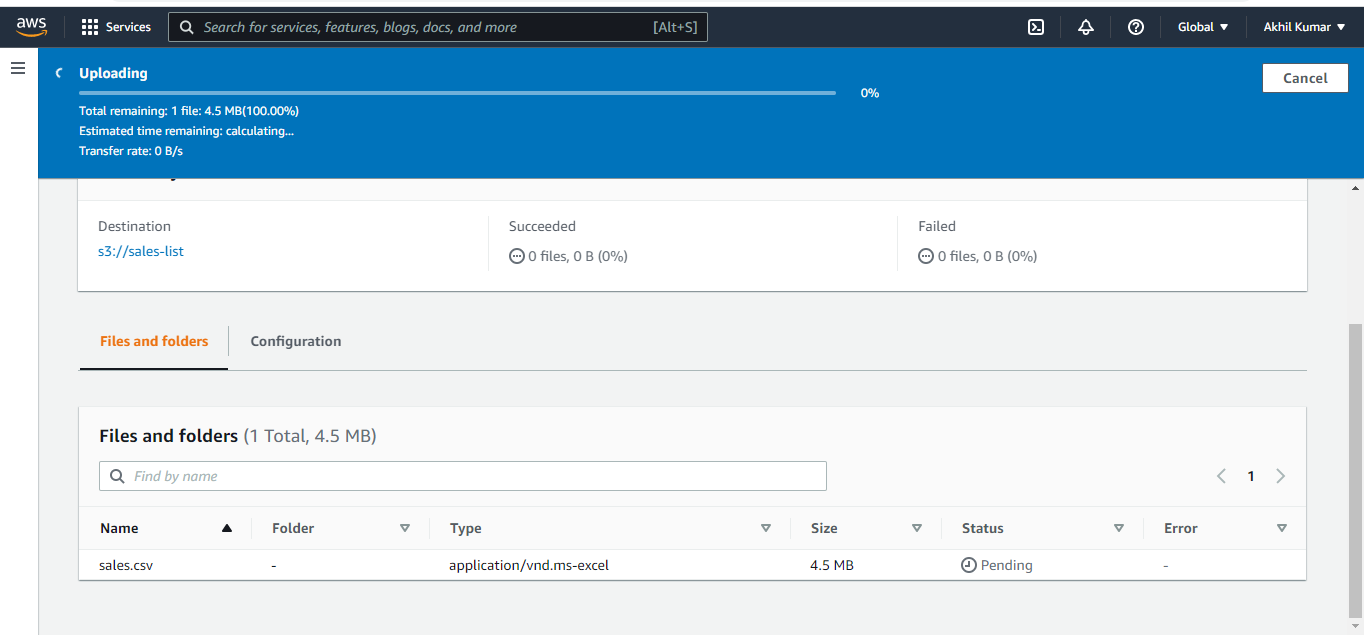


VPC endpoint is needed to access S3 :

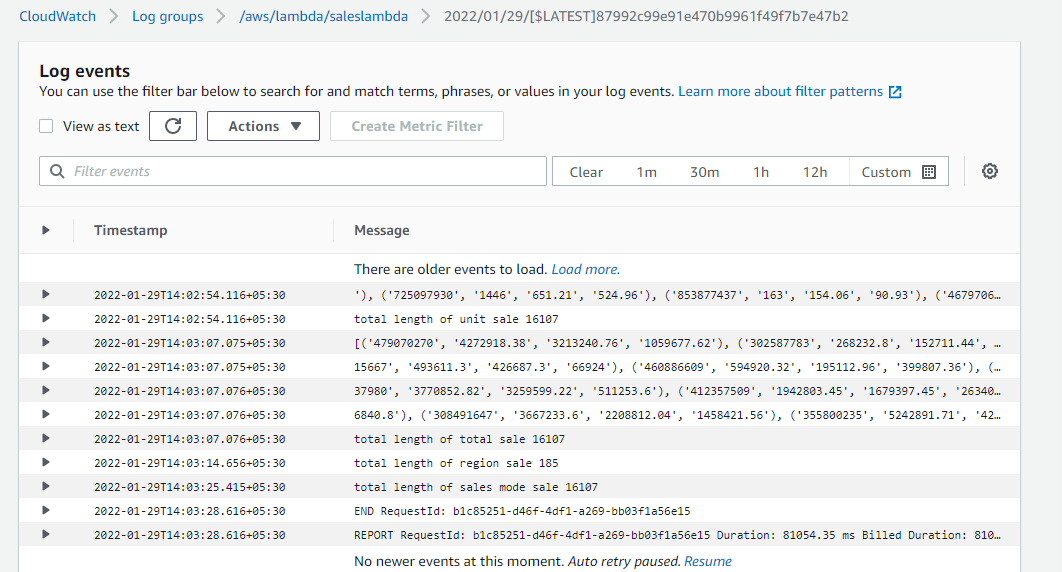


Test :

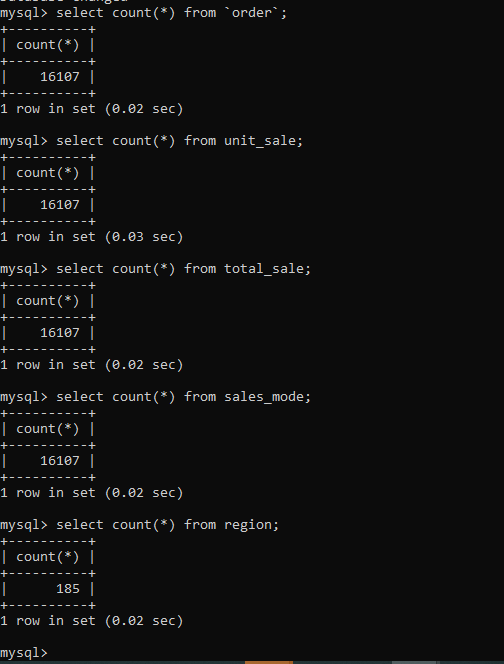
Uploading the sales file :



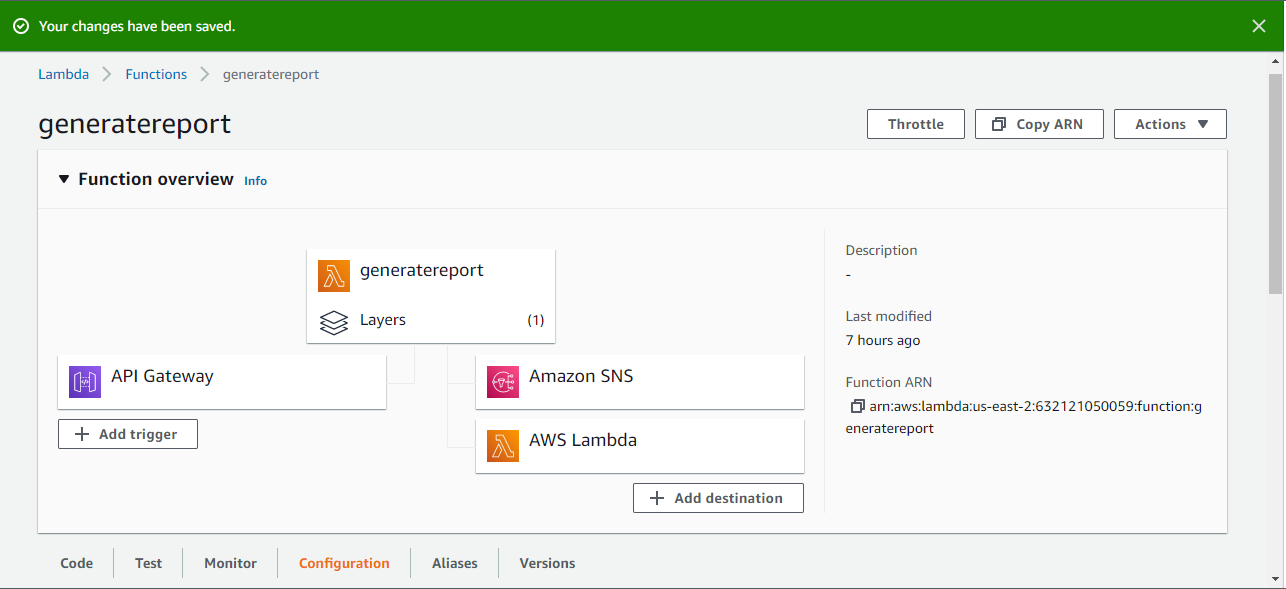
Lambda triggered and Logs :



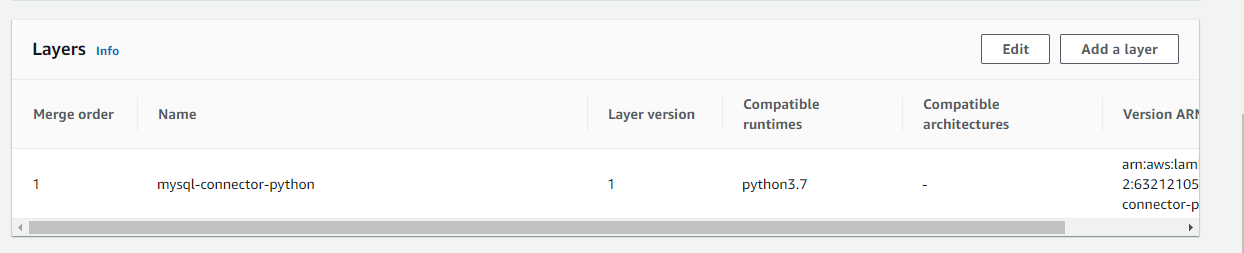
Loaded into table :



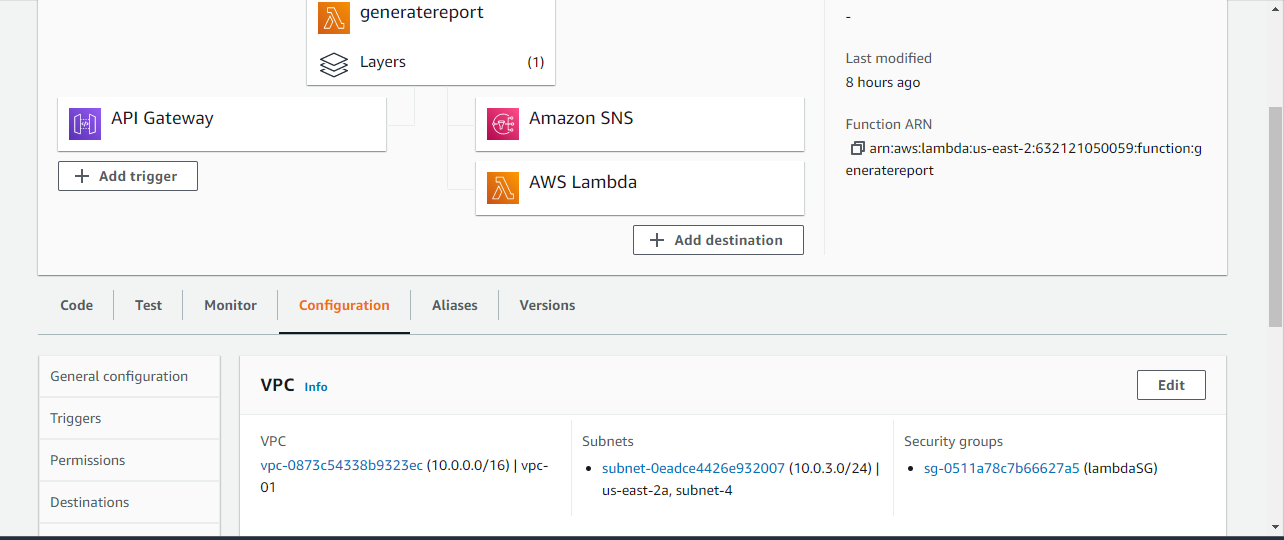
Generating report lambda :



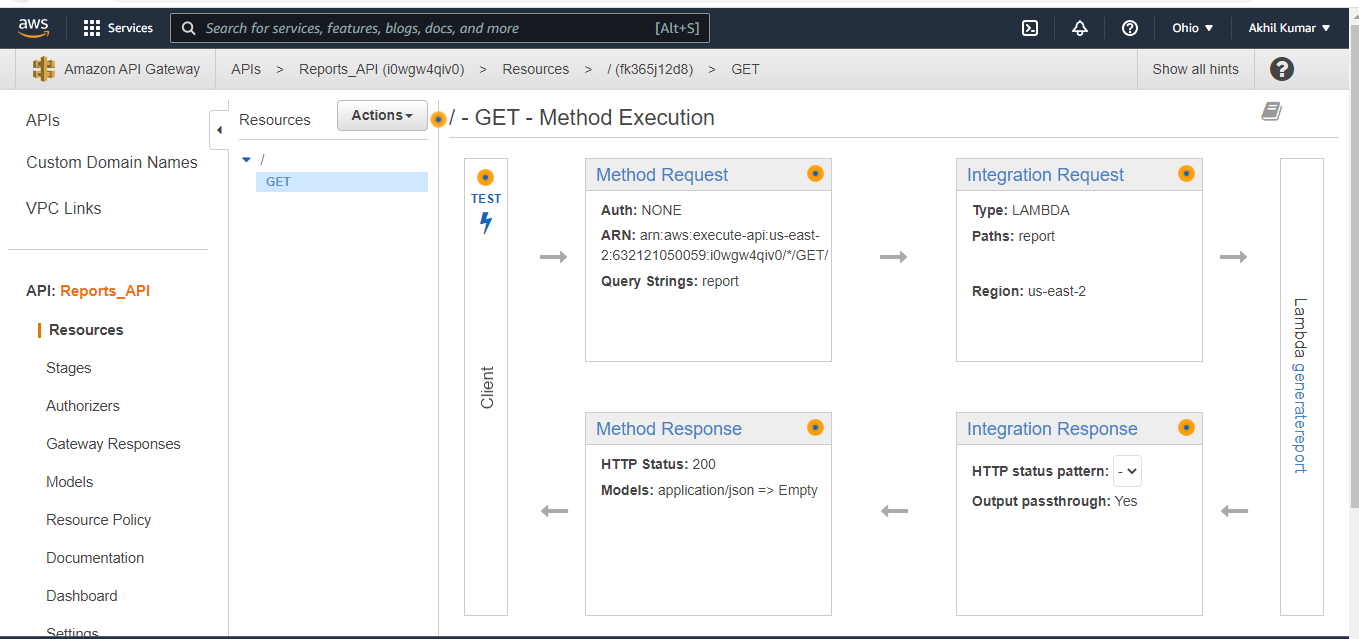
Added one layer :



VPC,subnet and security group is same as above lambda :

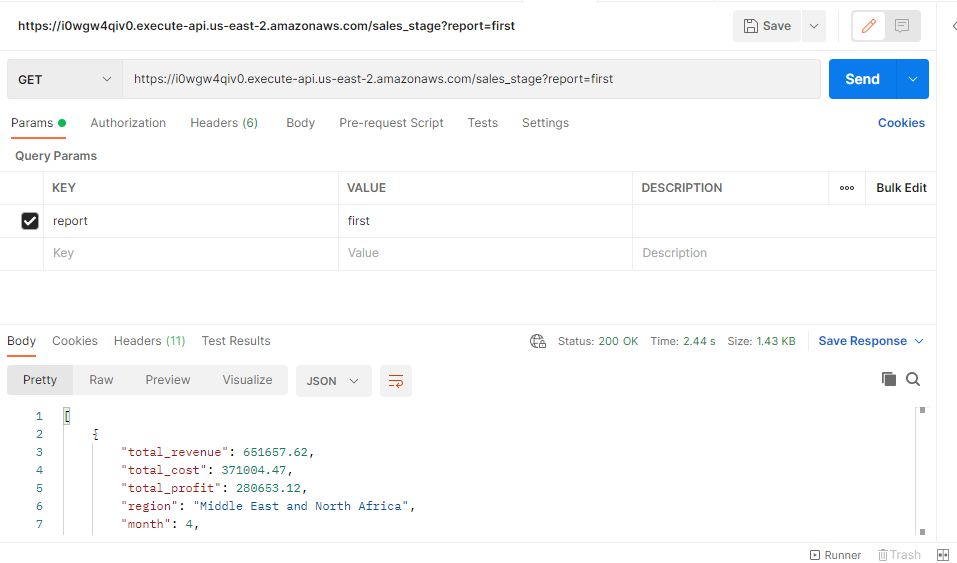


Created an API gateway :

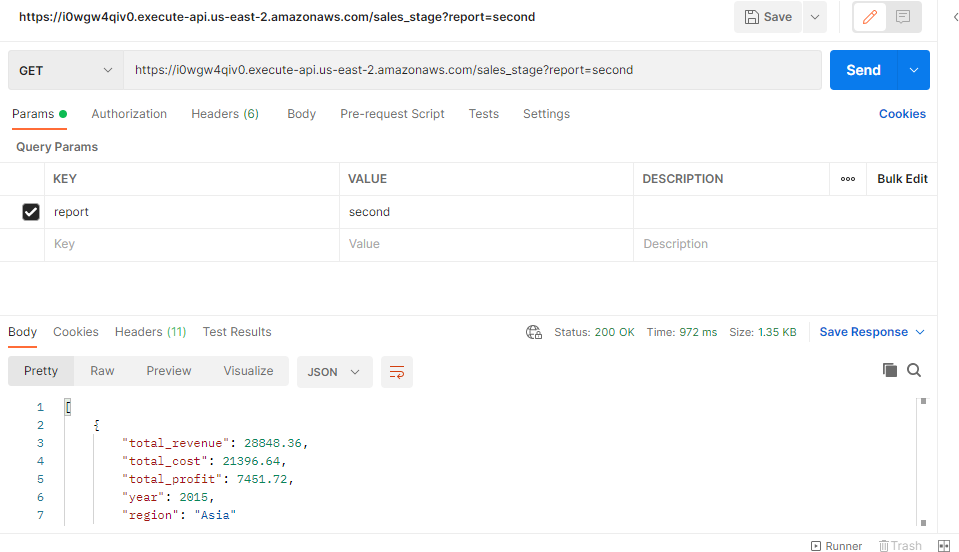


Test :

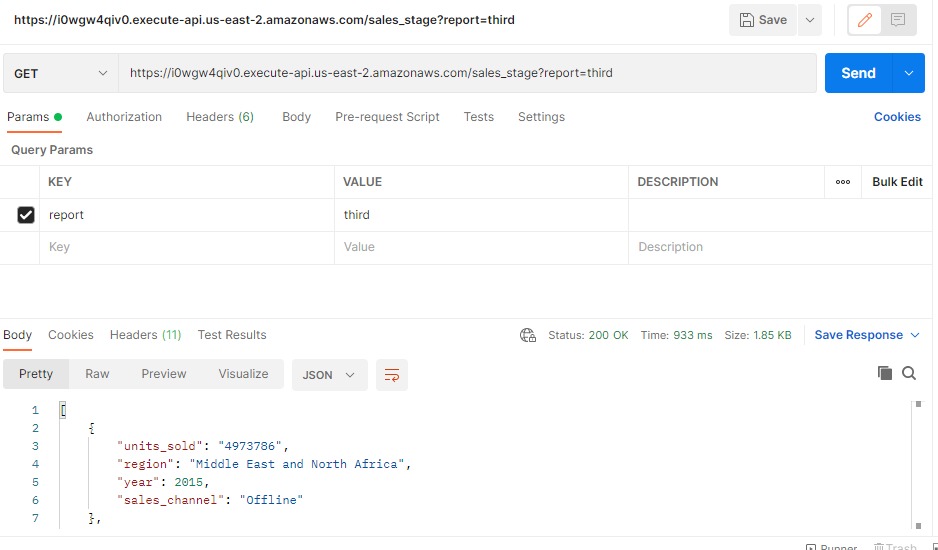
First report :



Second report :

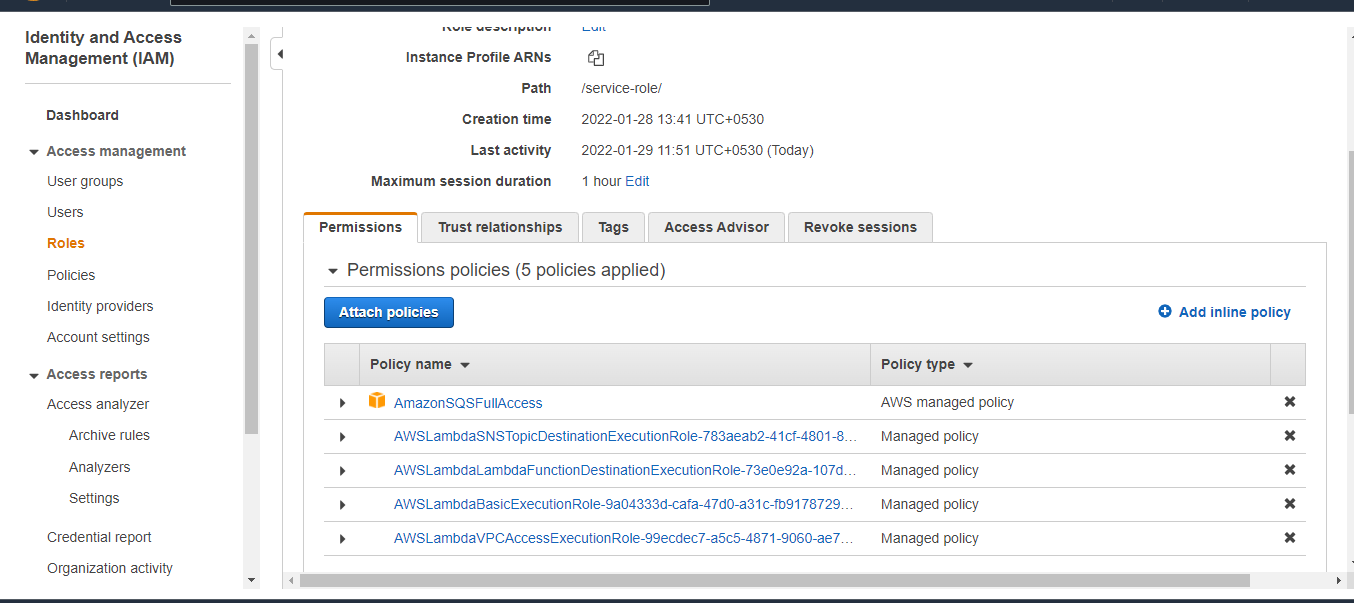


Third report :

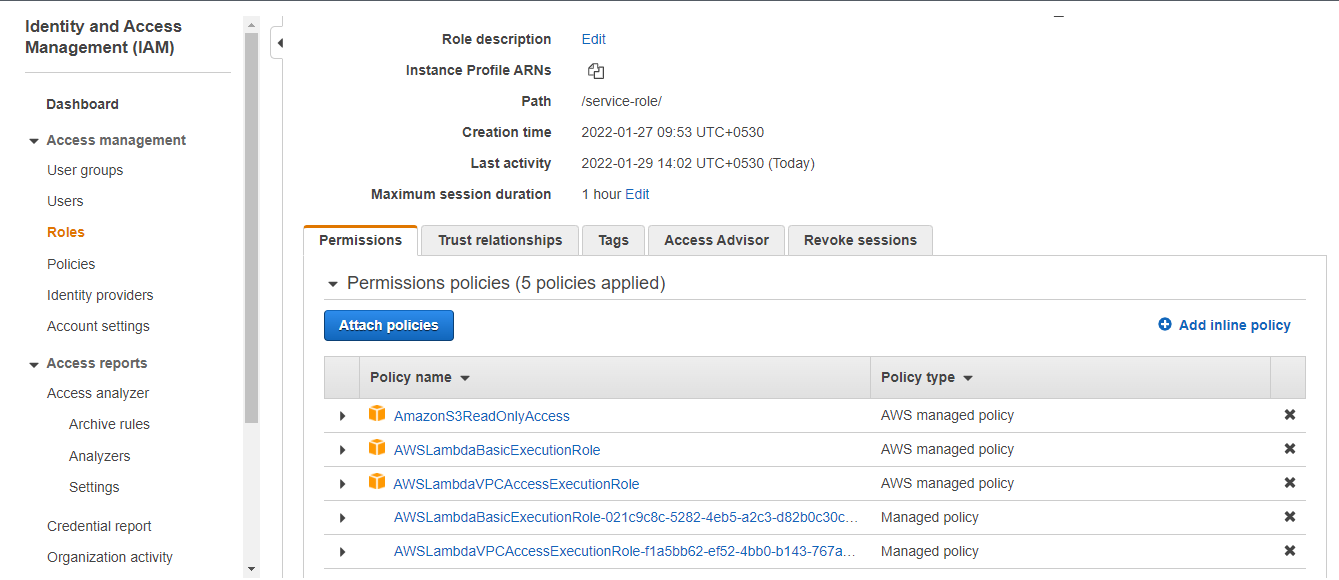


IAM roles for lambda :

Generate report lambda role permission :



Insert sales lambda role permissions :

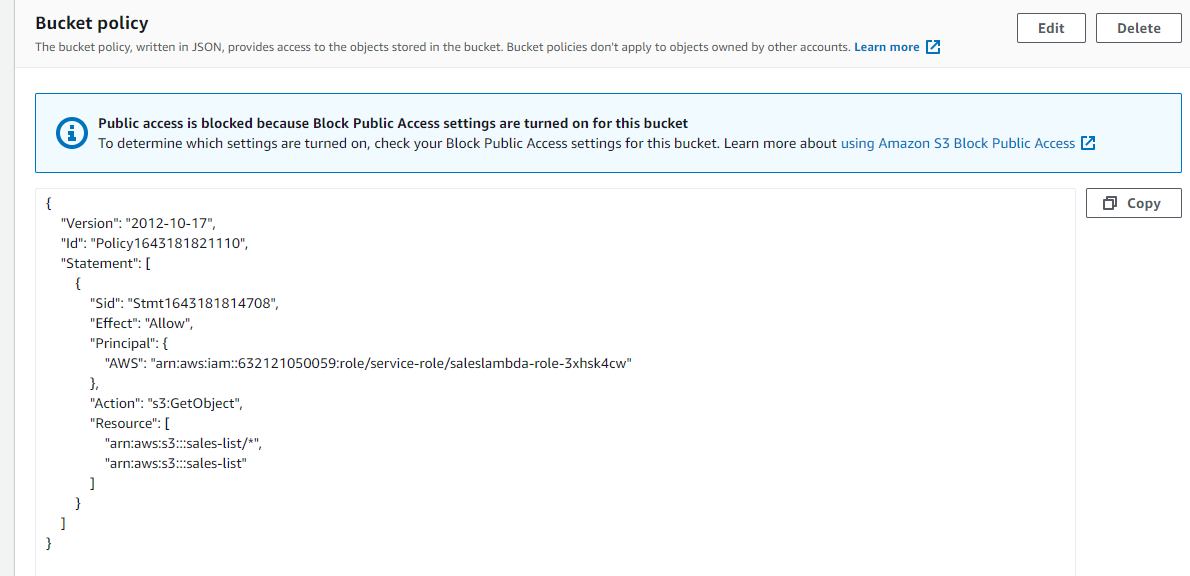


S3 bucket policy :

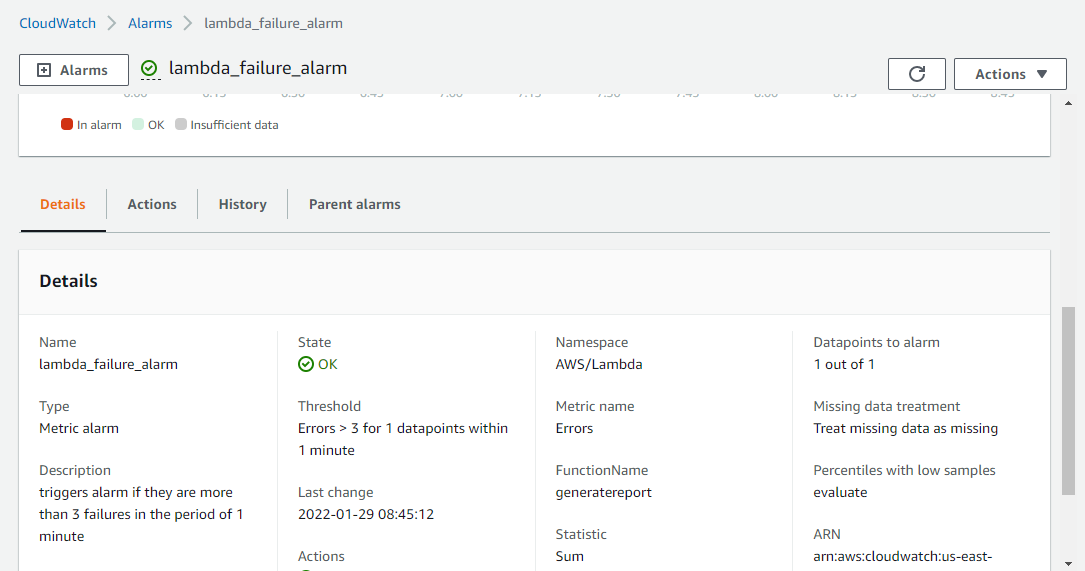
Blocked public access :



Policy :



Cloud watch alarm : (creates alarm in case of 3 failures in the span of 1 minute)



Sent an email when the threshold crossed :

