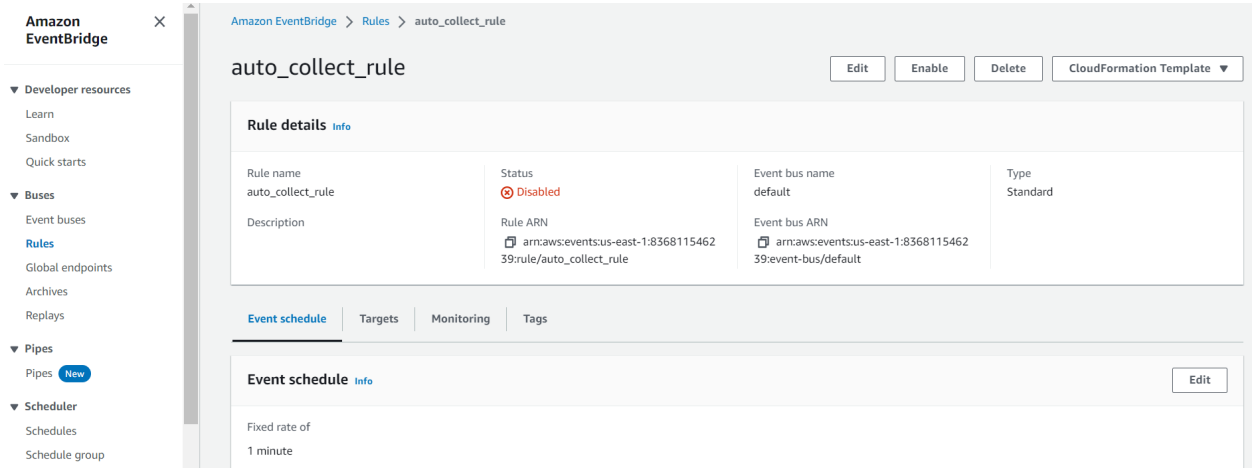
Project Title: Designing an Automatic Data Collection and Storage System with AWS Lambda

Technologies: AWS Lambda, Amazon RDS, CloudWatch

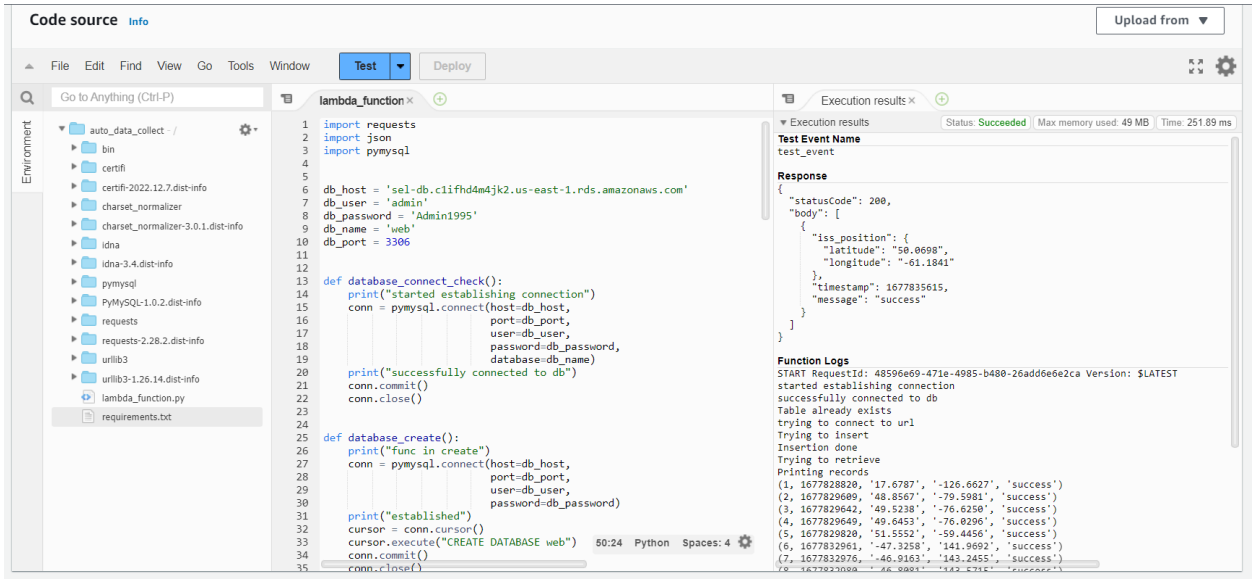
Requirement Setup

1. Creating an Event

Initially configured in **Disabled** state

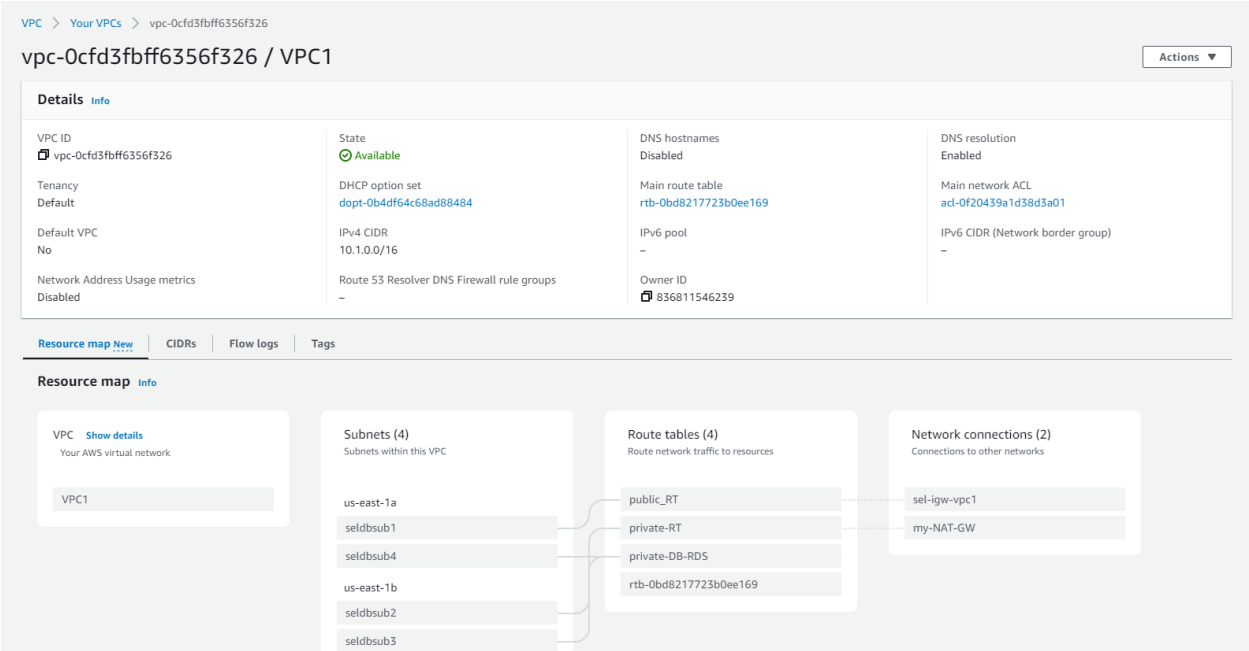


2. Creating a Lambda function with its dependencies



3. Creating an RDS instance and the required networking interfaces to connect to lambda

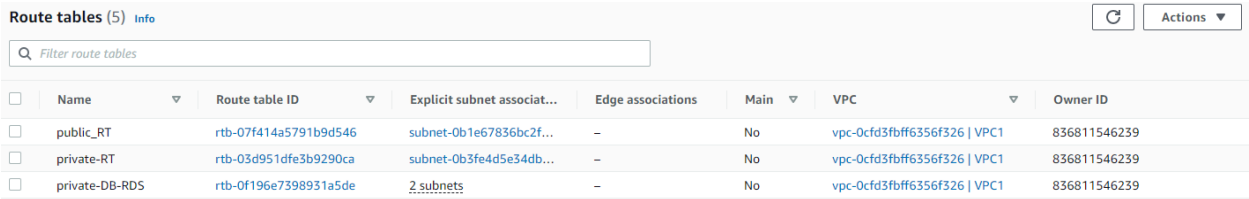
Creating a VPC and the required public and private subnets



Subnets Created

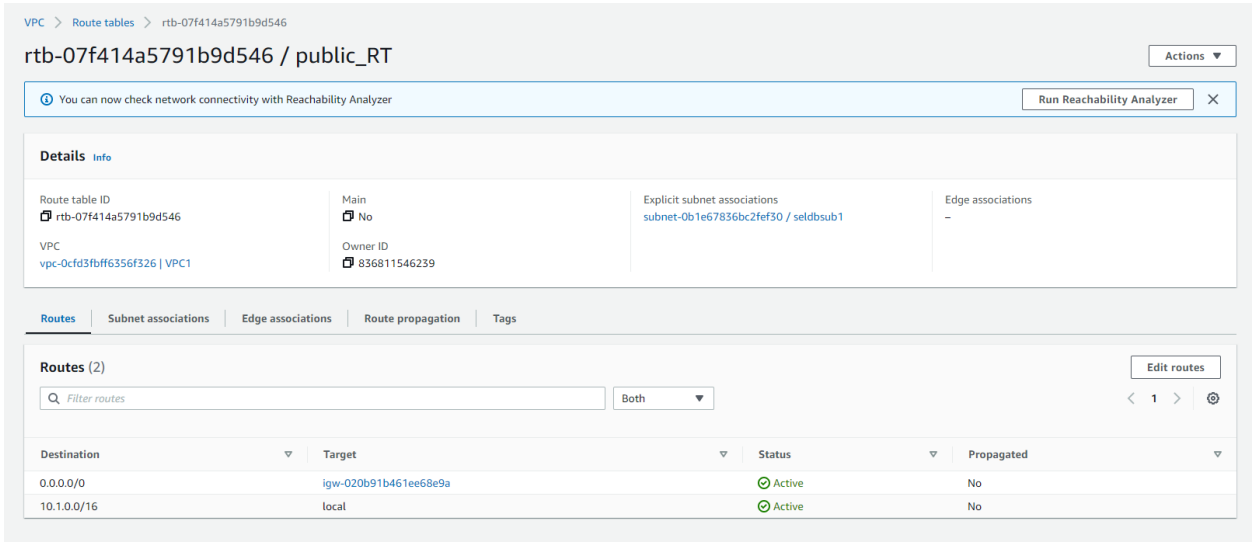
seldbsub2	subnet-0b3fe4d5e34dba24a	Available	vpc-0cfd3fbff6356f326 | VPC1	10.1.2.0/24	–	250	us-east-1b	use1-az2
seldbsub3	subnet-00bac814ac1428571	Available	vpc-0cfd3fbff6356f326 | VPC1	10.1.3.0/24	–	250	us-east-1b	use1-az2
seldbsub4	subnet-01de742fa8bc789d4	Available	vpc-0cfd3fbff6356f326 | VPC1	10.1.4.0/24	–	250	us-east-1a	use1-az1
seldbsub1	subnet-0b1e67836bc2fef30	Available	vpc-0cfd3fbff6356f326 | VPC1	10.1.1.0/24	–	250	us-east-1a	use1-az1

Route Tables Created

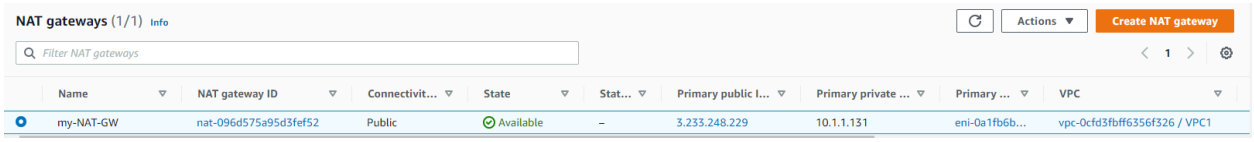


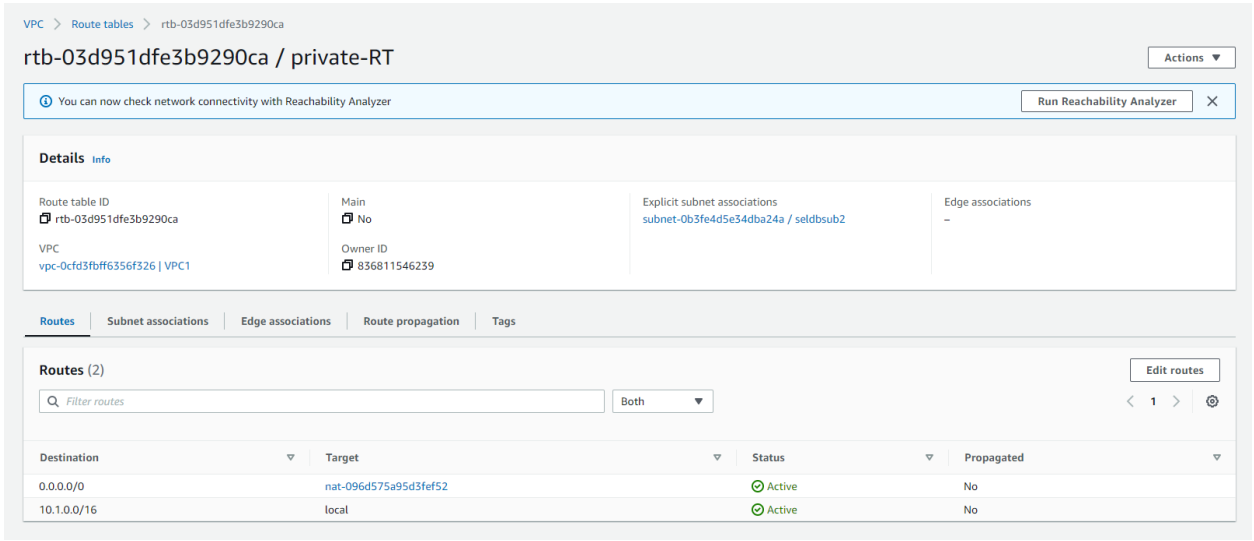
Public Route Table mapped with Internet Gateway

sel-igw-vpc1	igw-020b91b461ee68e9a	Attached	vpc-0cfd3fbff6356f326 | VPC1	836811546239

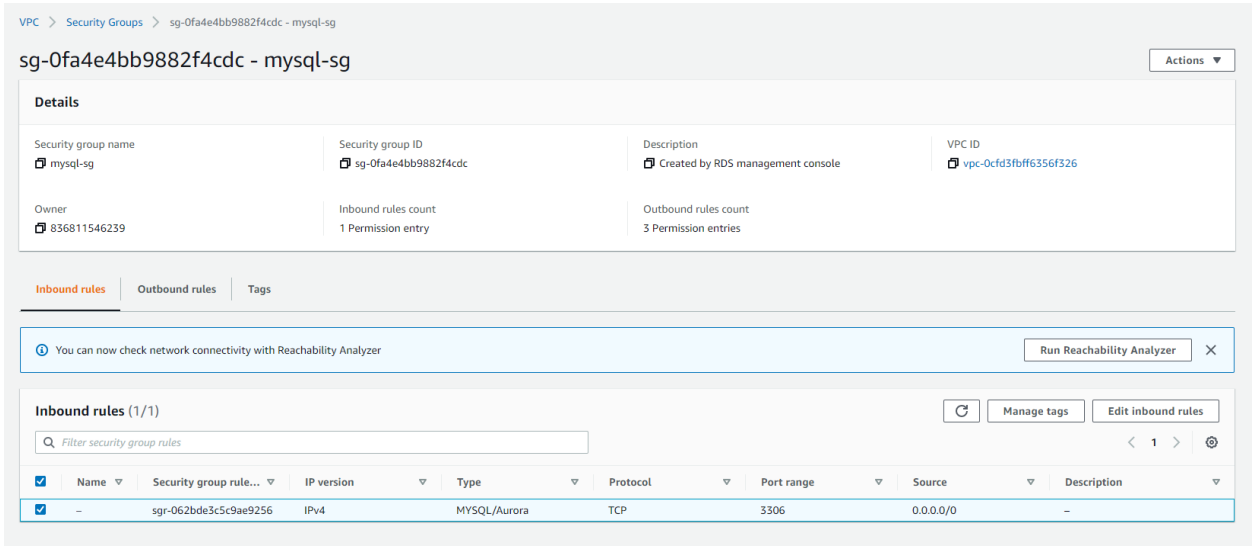


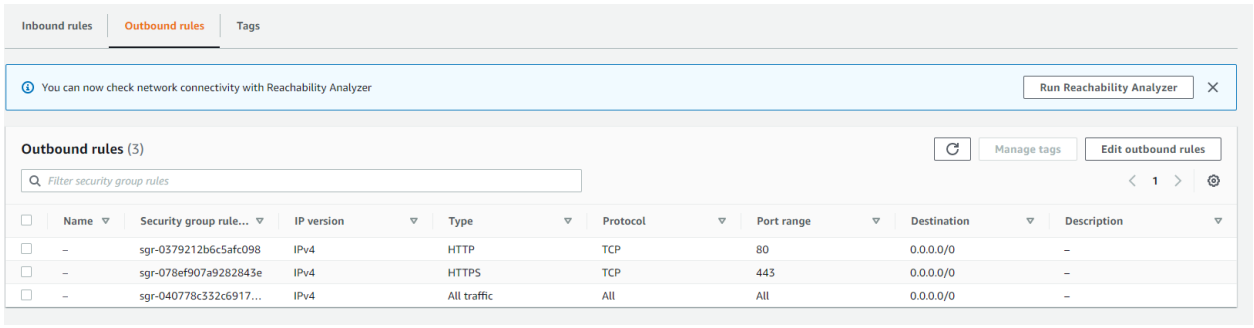
Private Route Table mapped with NAT Gateway



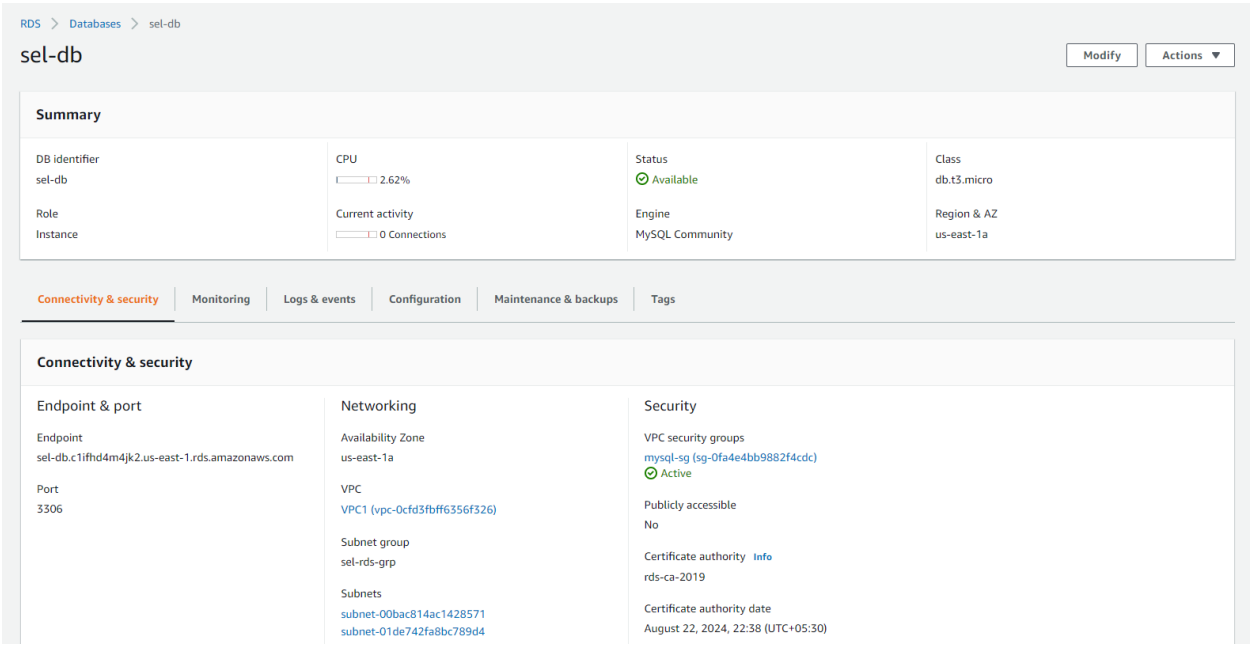


Creating Security groups and assigning Inbound and Outbound rules

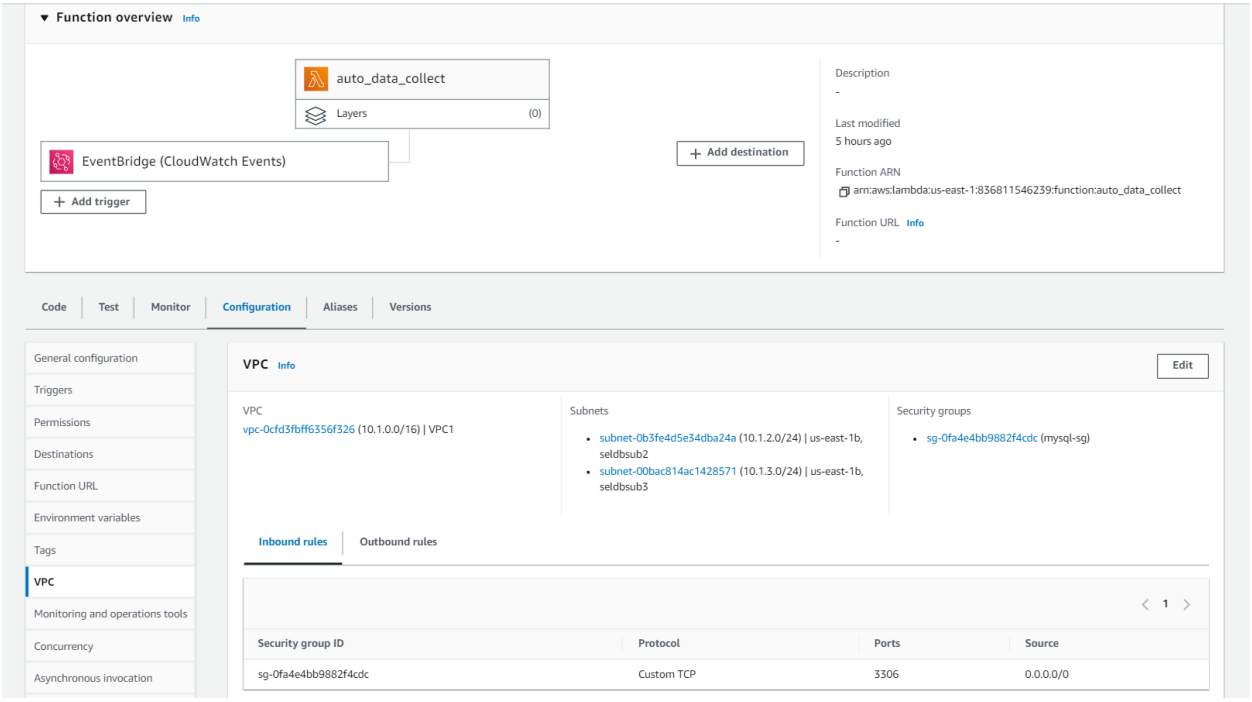


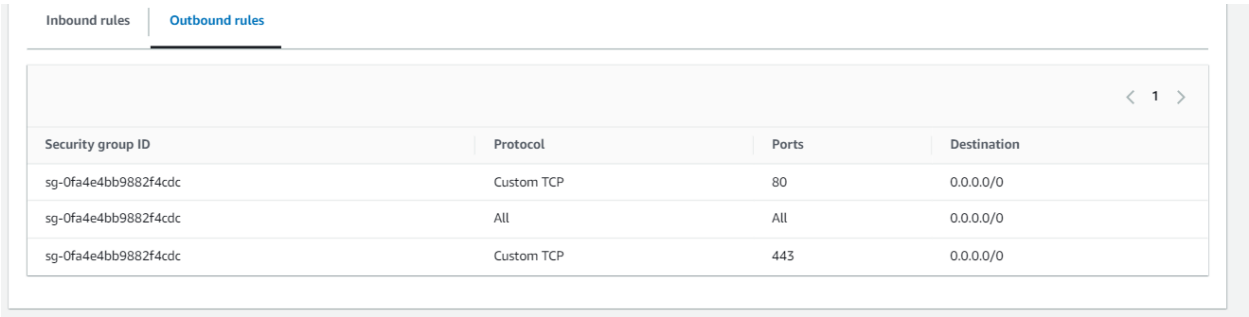


RDS Instance associated with the created VPC



4. Created VPC is configured in the lambda function to create connectivity between Lambda function and RDS instance.



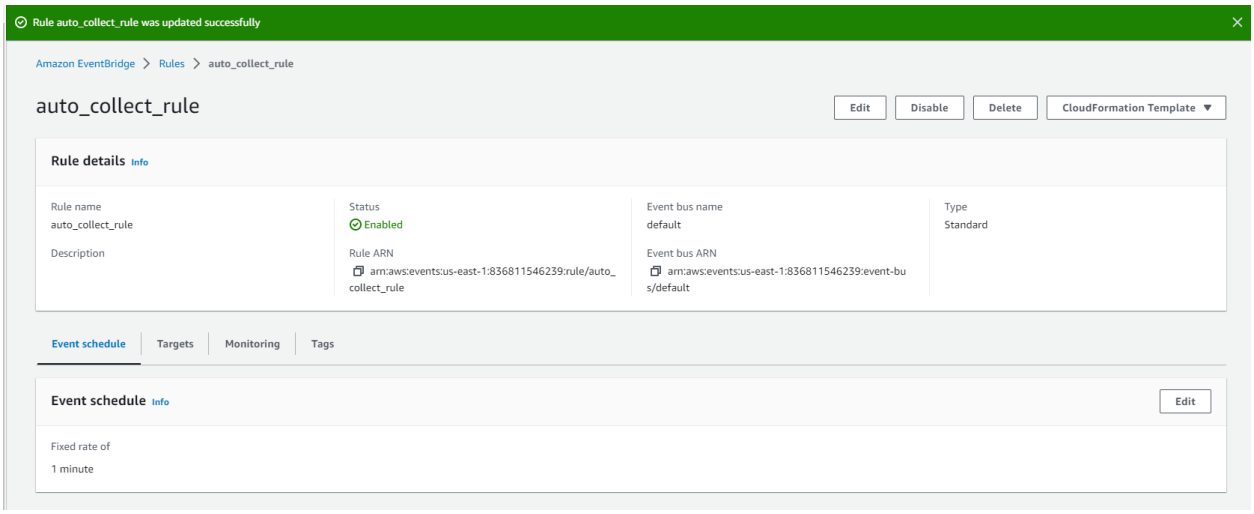


5. Trigger the test deployment from Lambda to check the connectivity and deployment check.

6. Enable the Amazon Event Bridge Disabled to Enable state and can watch the logs in the CloudWatch.

Note: Event rule is configured for every 1 minute.

Rule in **Enabled** state



7. Continuous logs will be captured in the CloudWatch