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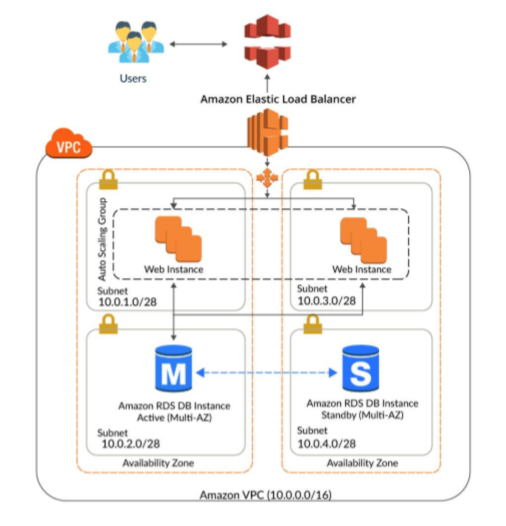
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# **PHP Project**

## Architecture



## Steps

Create below infrastructure

**AWS account and credentials**

1. AWS account
2. Key pair for AWS account
3. Enable Budget to receive notification

**Networking resources**

1. VPC
2. Internet gateway
3. VPC with IG attached to main router table -public route table
4. Subnets: 2 Public Subnets for Elastic Load Balancer and Auto scaling web server group, 2 - Private subnet with Nat gateway got RDS
5. Nat gateway
6. Private Route table

**Database**

1. RDS

**Appserver**

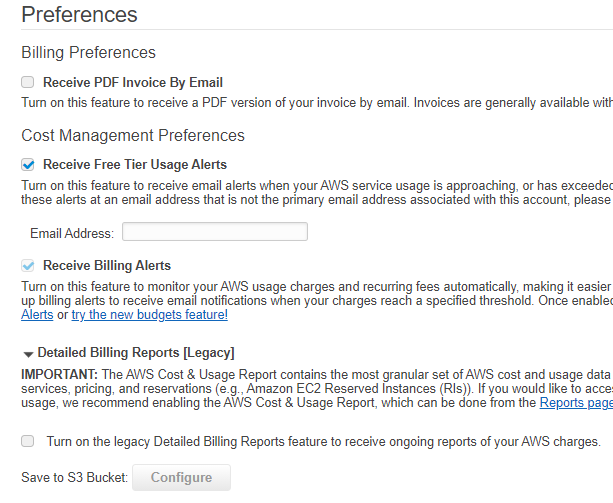
1. EC2
2. Launch Configuration
3. Autoscaling group – ELB, Target Group and SNS are automatically created.
4. ELB
5. Target group
6. SNS
7. Cloud Front

**Note**: Delete all resources as soon as your work is over. Remember to delete EBS or storage and RDS snapshots.

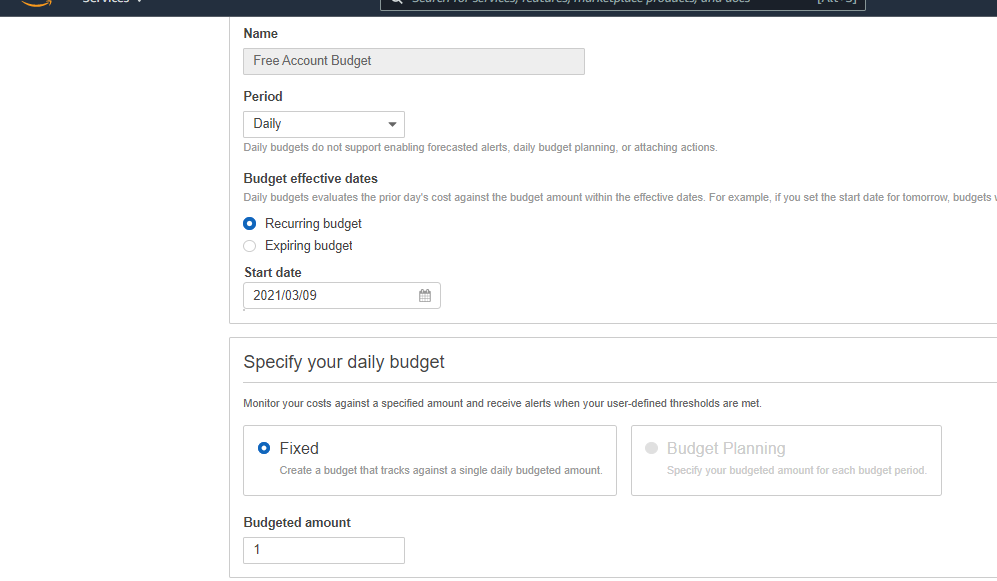
## Account and Billing

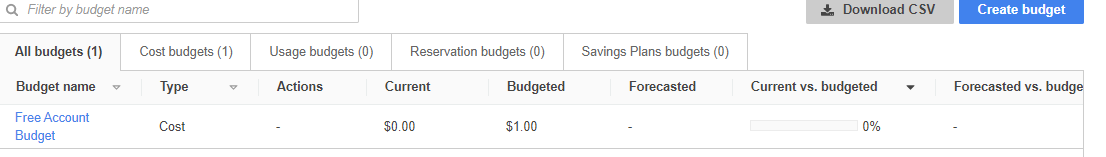
<https://console.aws.amazon.com/billing/home#/bills?year=2021&month=3>

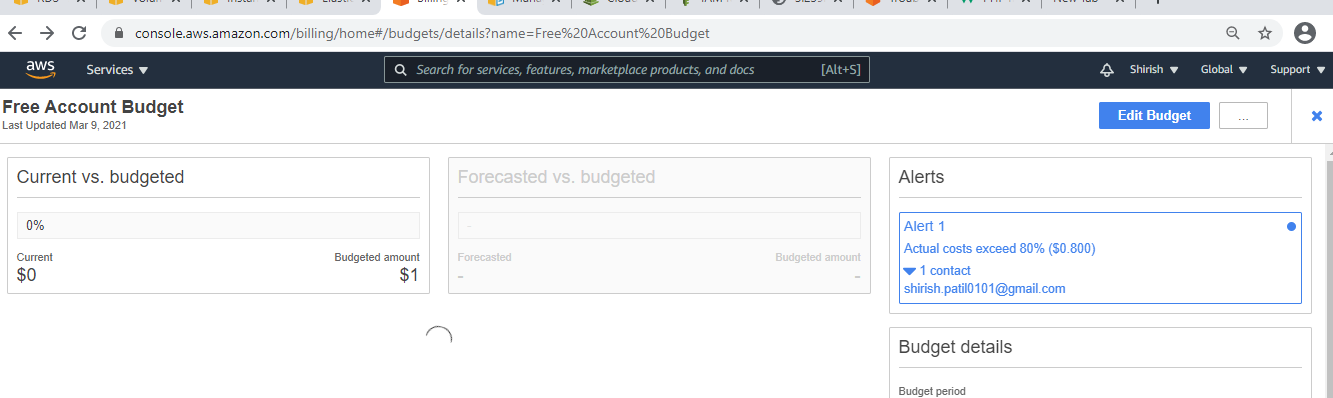
### Billing Preference



### Budget Alerts

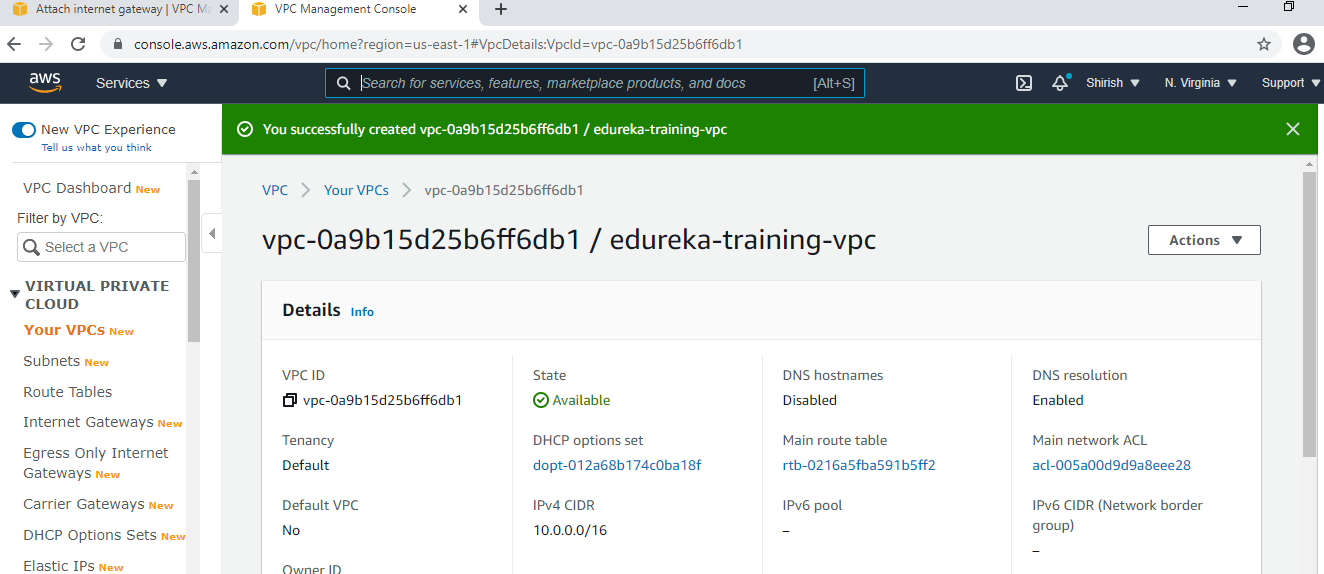




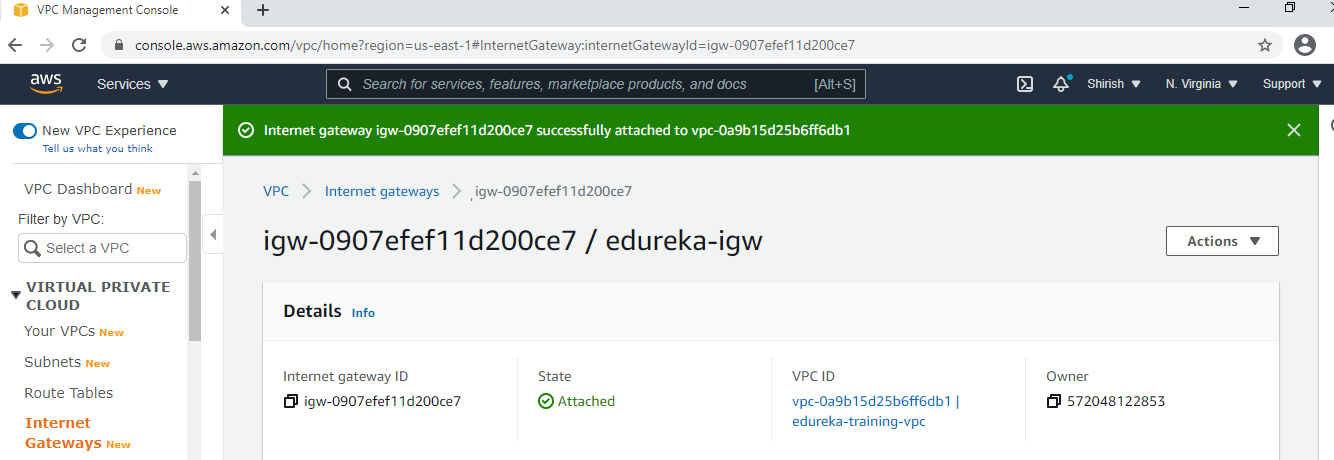


## Network resources

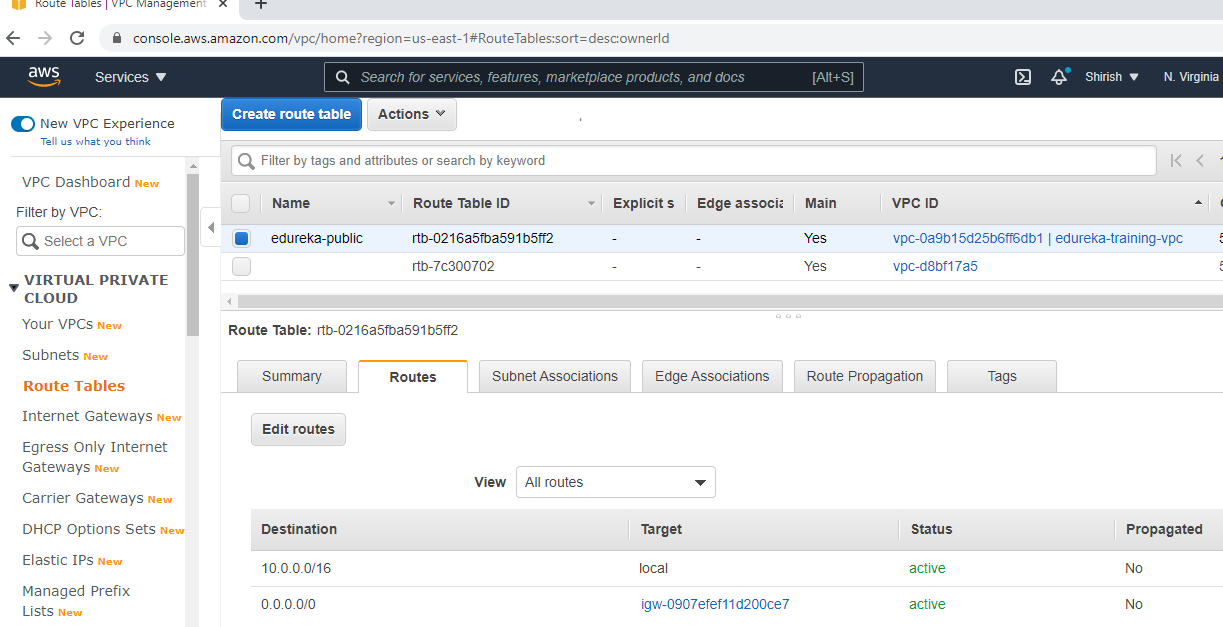
### VPC



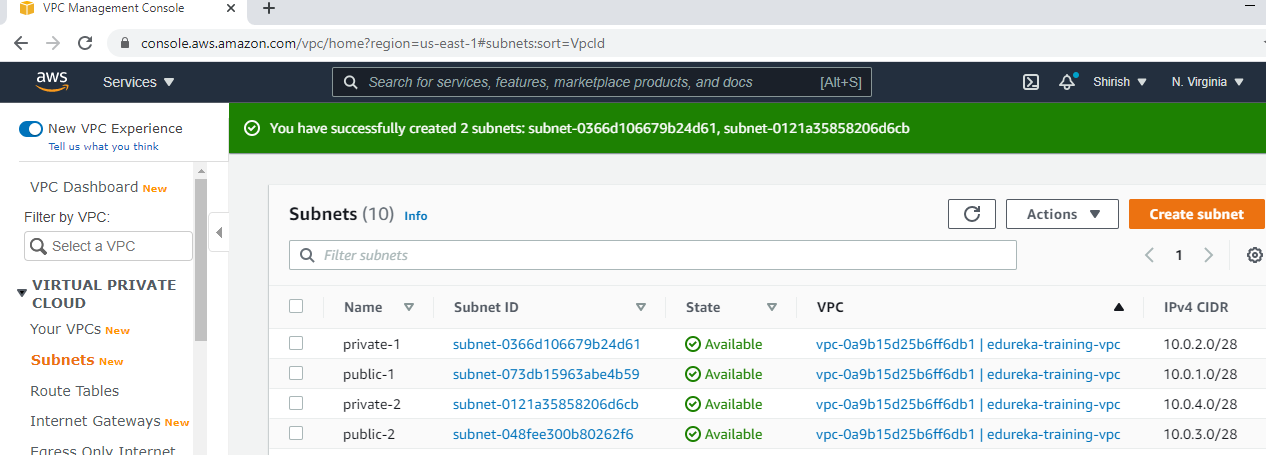
### Internet Gateway



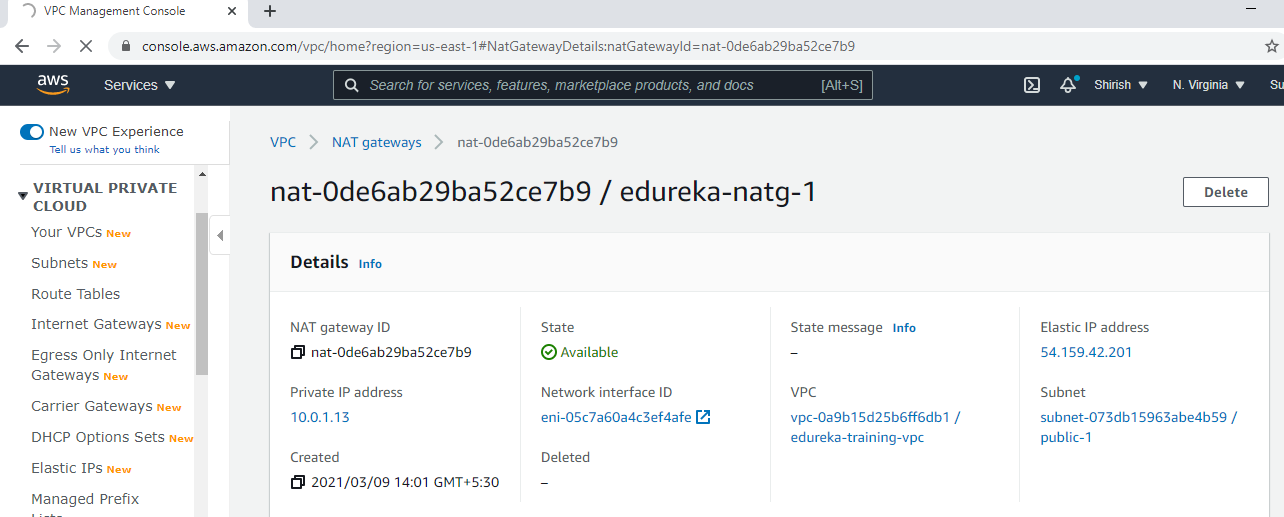
### VPC Main Router Table -Public Route table

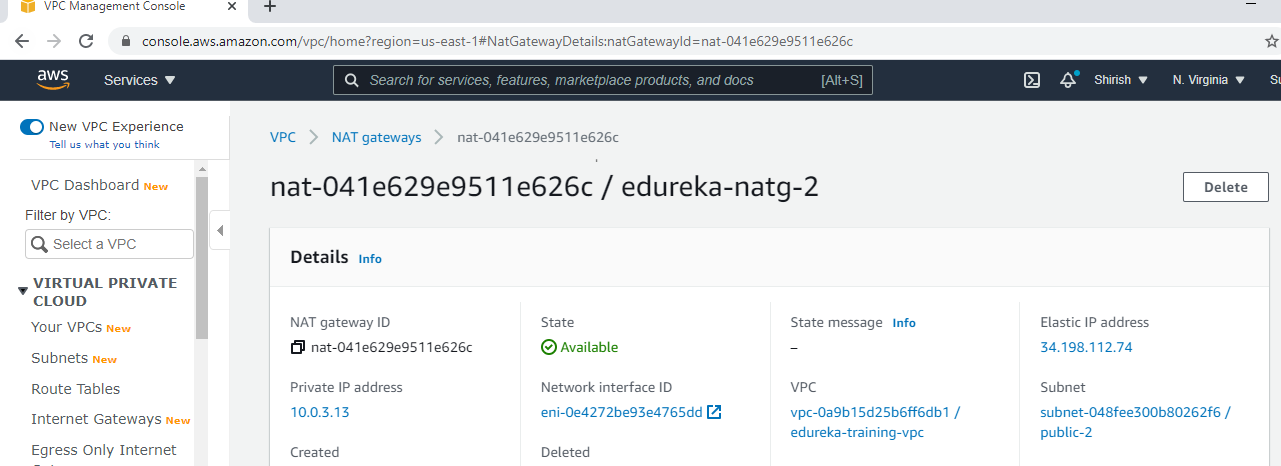


### Subnets 2 Public and 2 Private

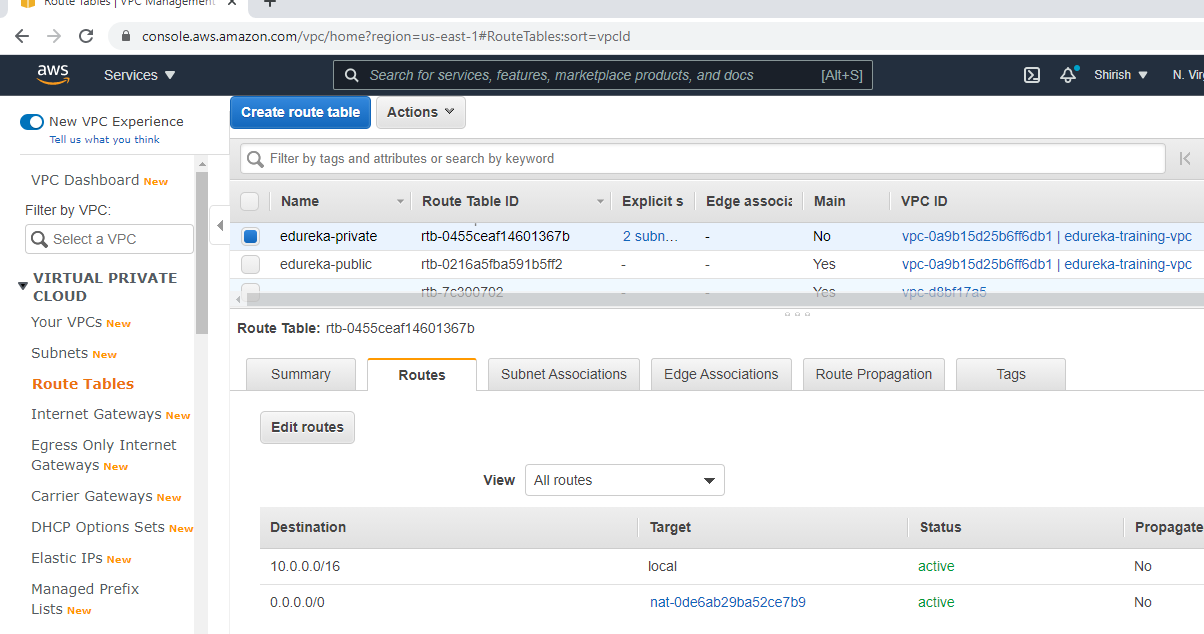


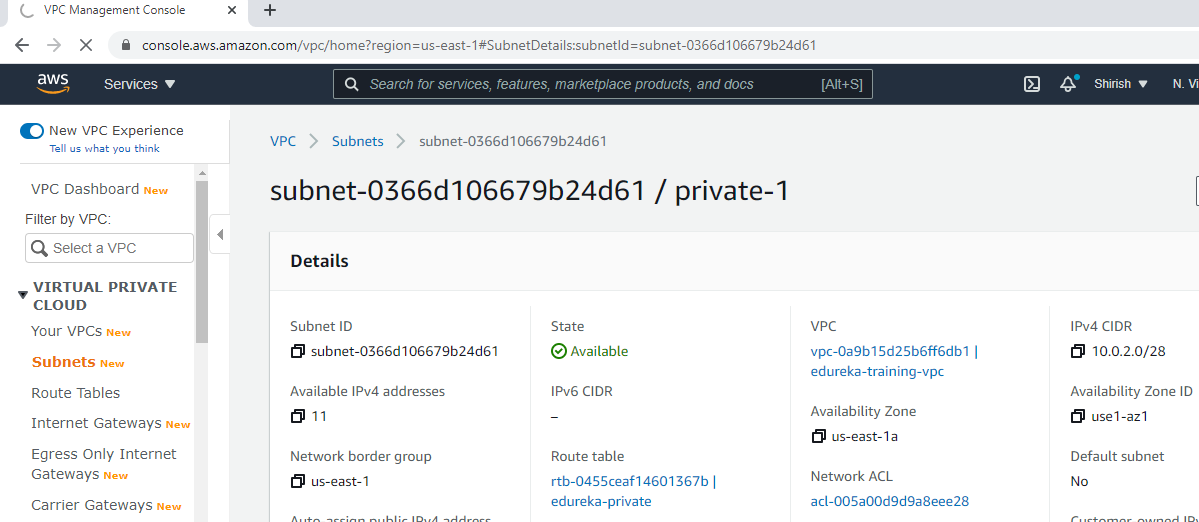
### Nat Gateways -2 in 2 public subnets





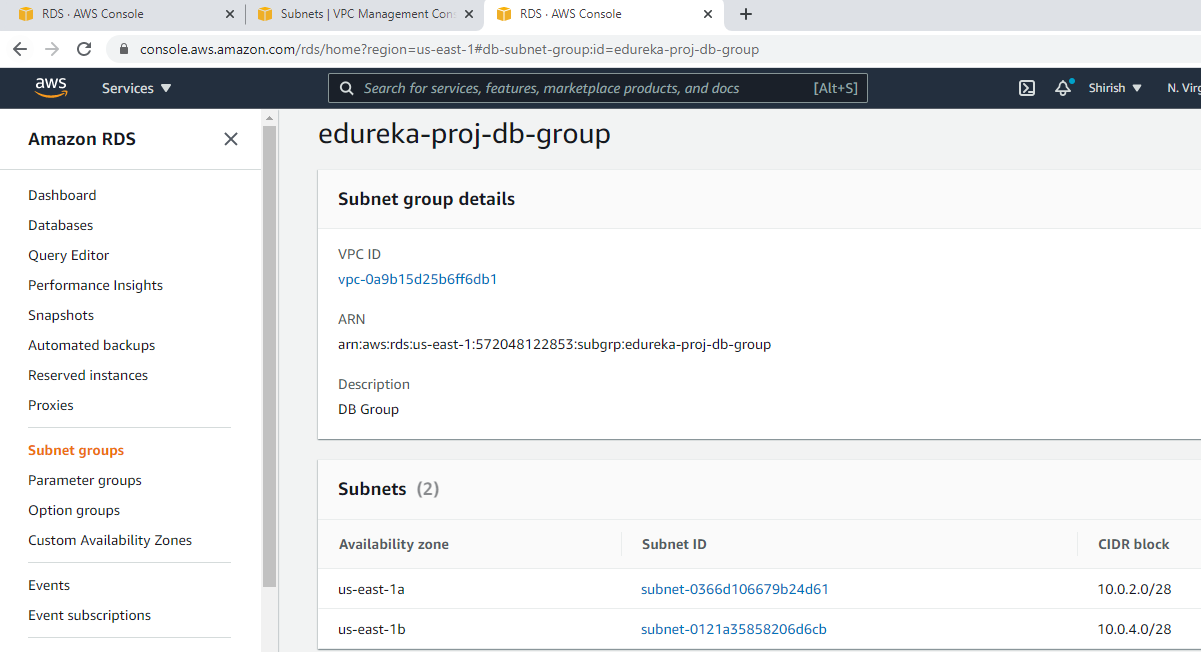
### Private routing table



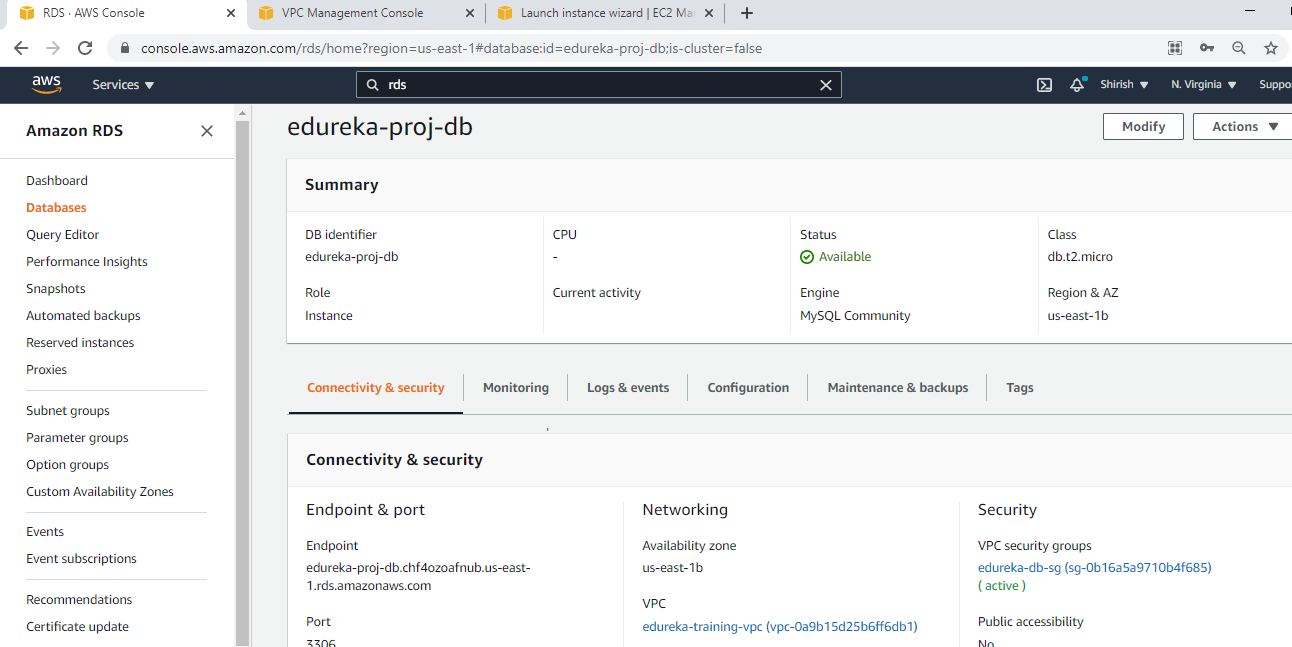


## Database

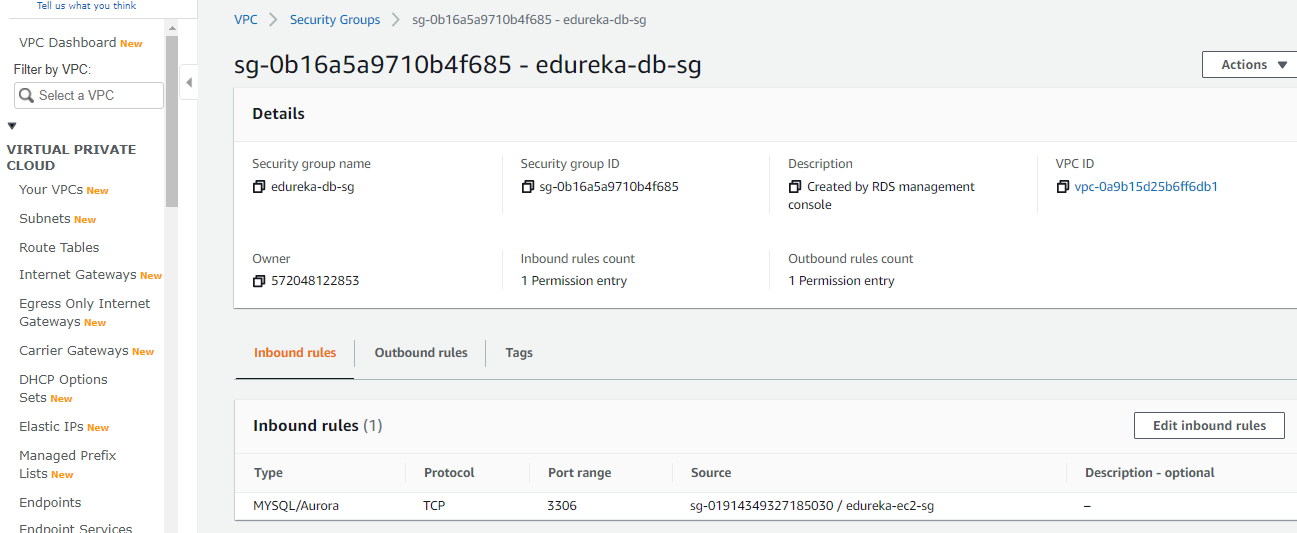
### DB Subnet Group



### DB Instance

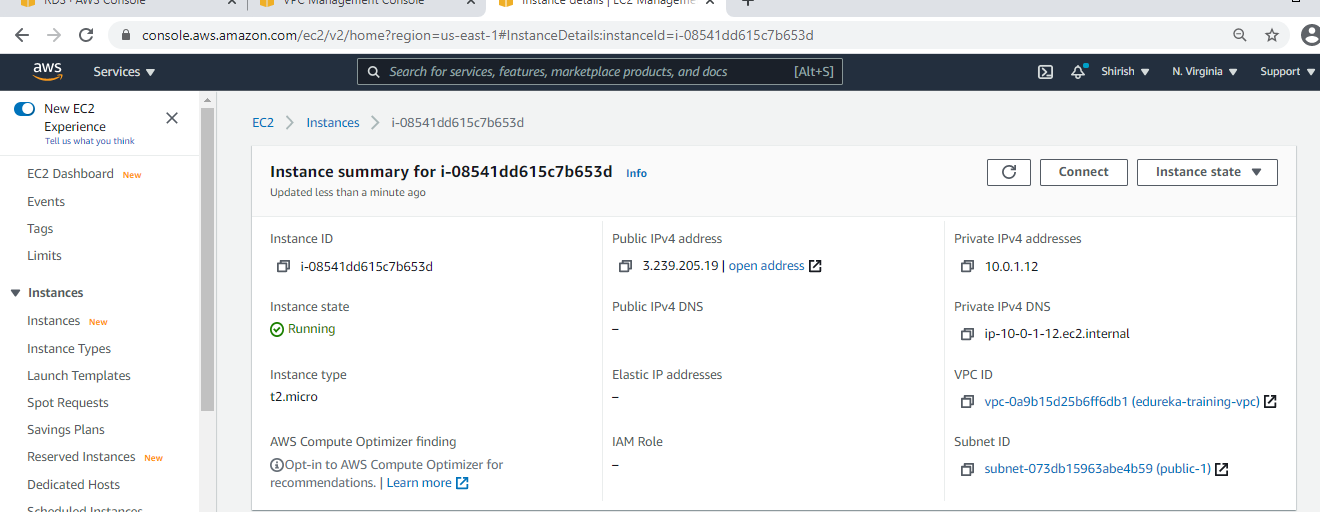


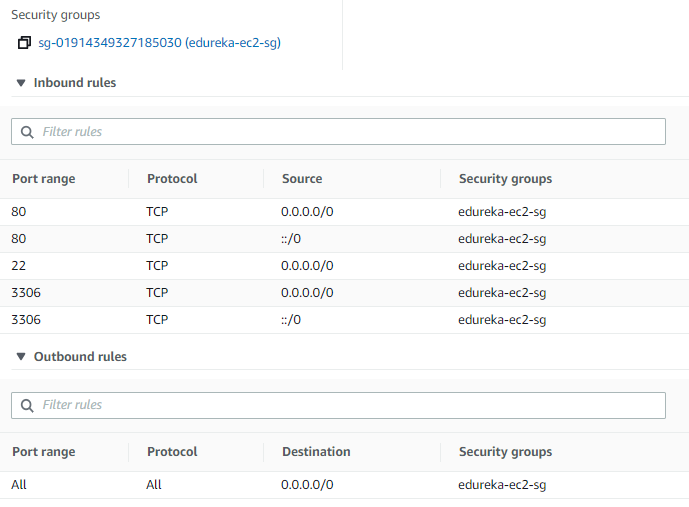
### DB Security Group



## Appserver

### EC2





### EC2 Instance

sudo yum install httpd

sudo systemctl start httpd.service

sudo systemctl enable httpd.service

sudo yum install php php-mysql

sudo yum remove php php-mysql

sudo amazon-linux-extras install php7.2

sudo systemctl restart httpd.service

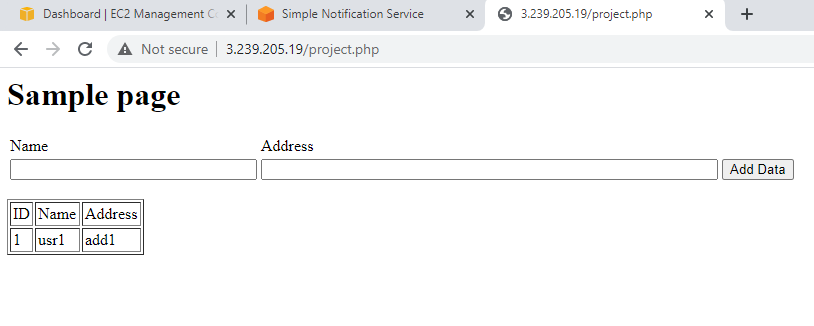
sudo su

cd /var/www

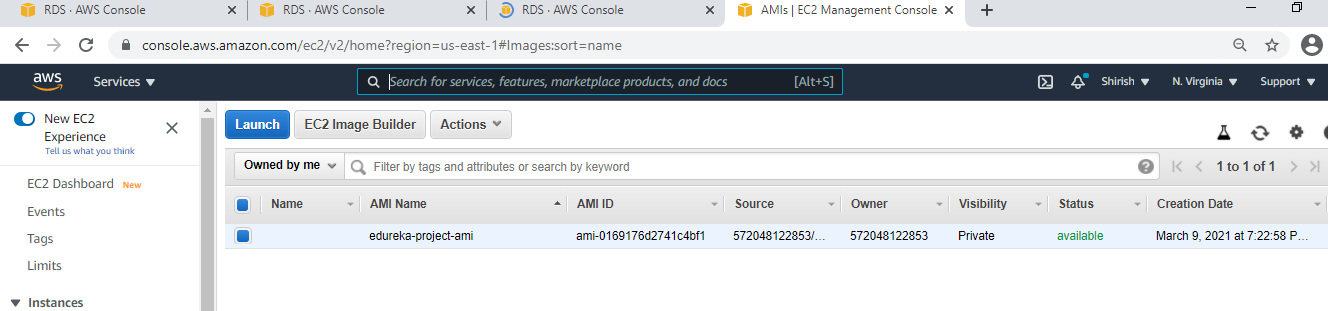
mkdir inc

cd inc

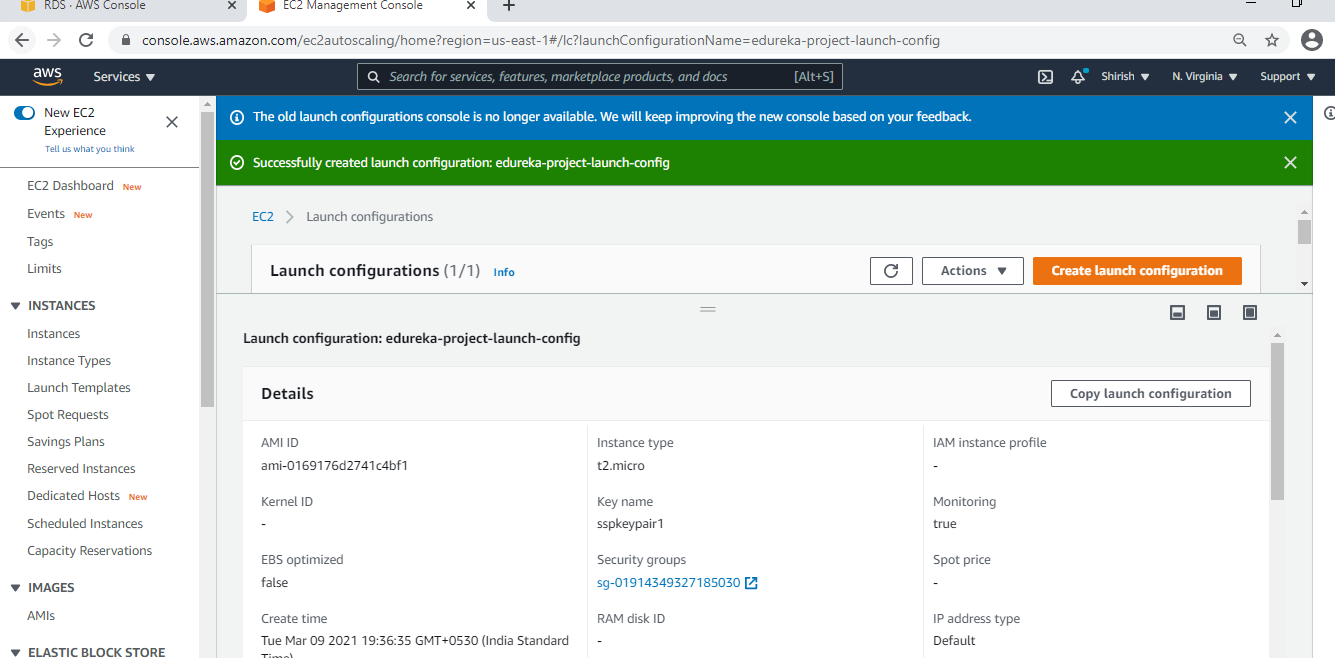
touch dbinfo.inc



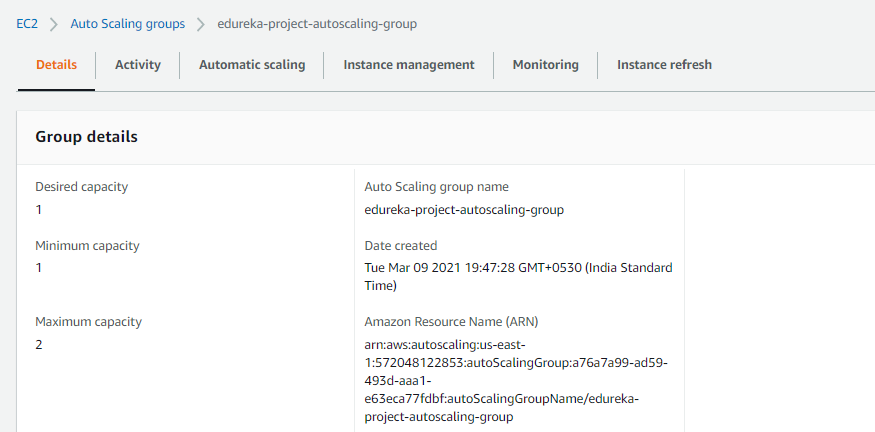
### EC2 AMI Image

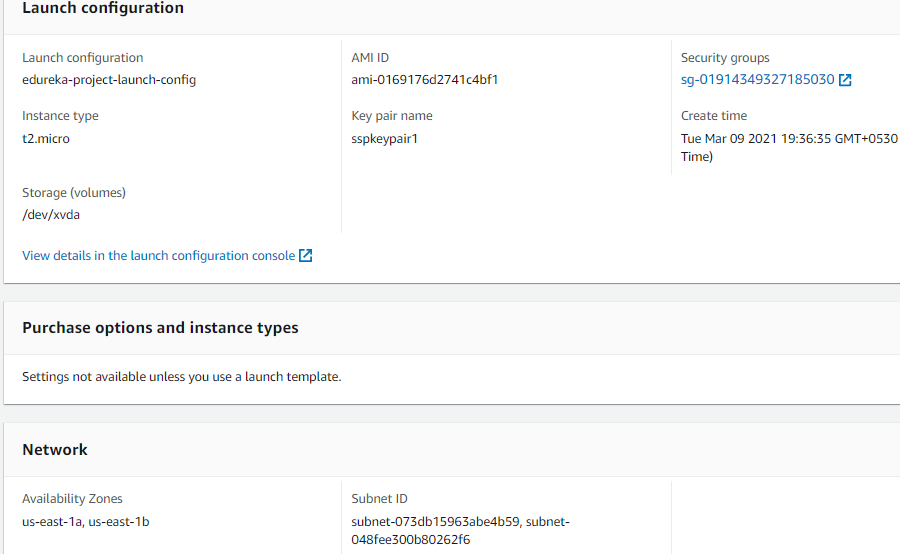


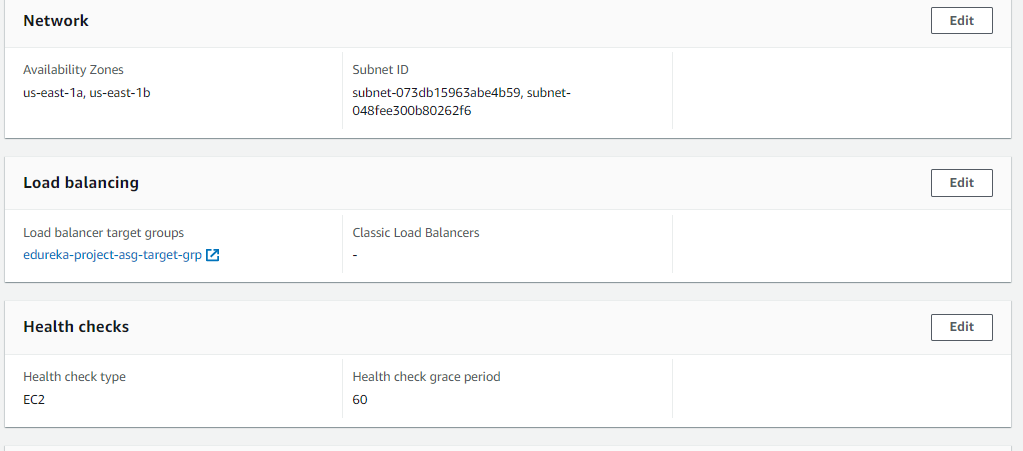
### Launch Config



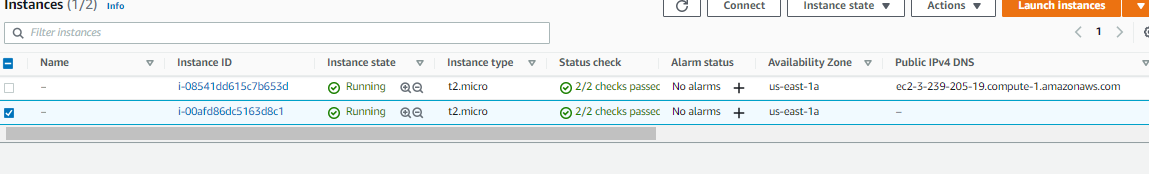
### Autoscaling Group – ELB, TARGET GROUP/CW Alarm, SNS



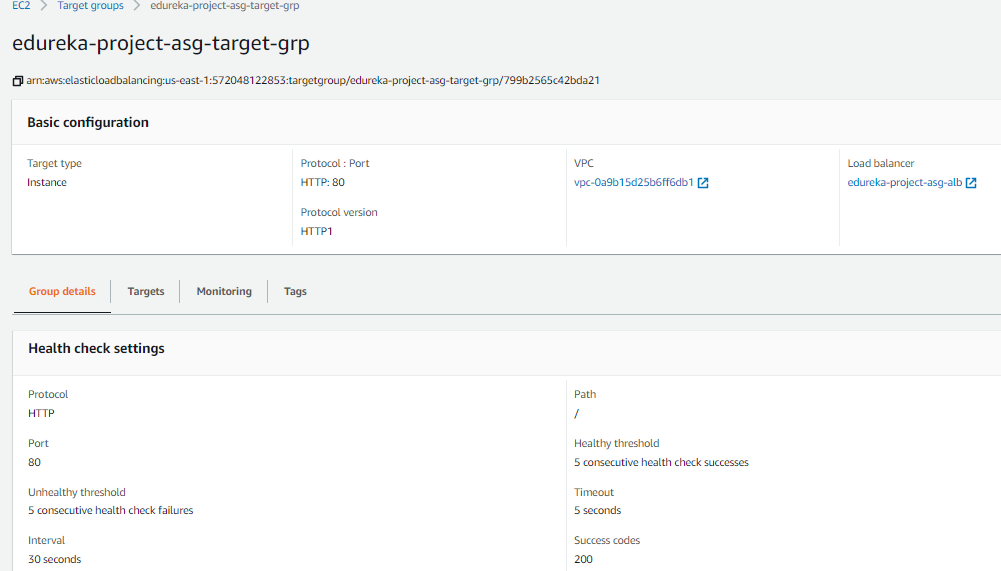




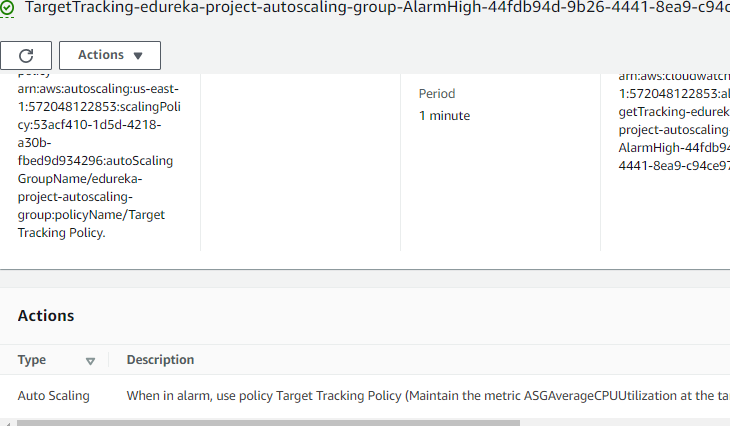
Two instances- one is original other is created by ASG



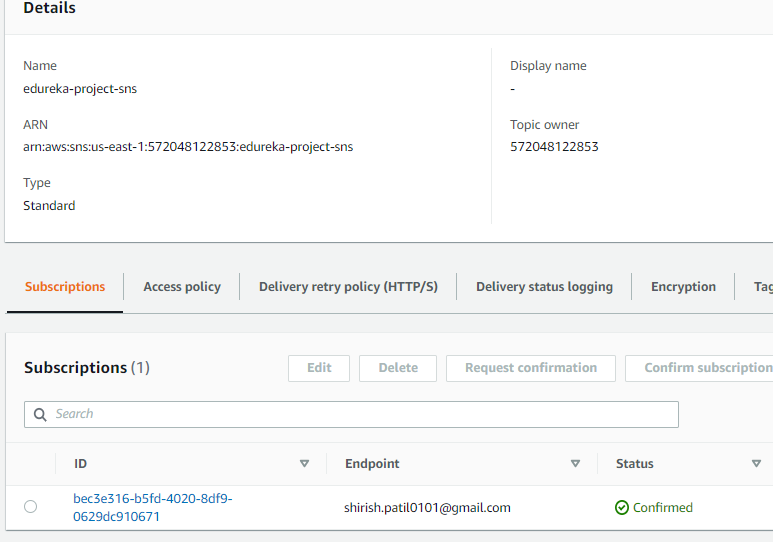
### Autoscaling Group – Target Group



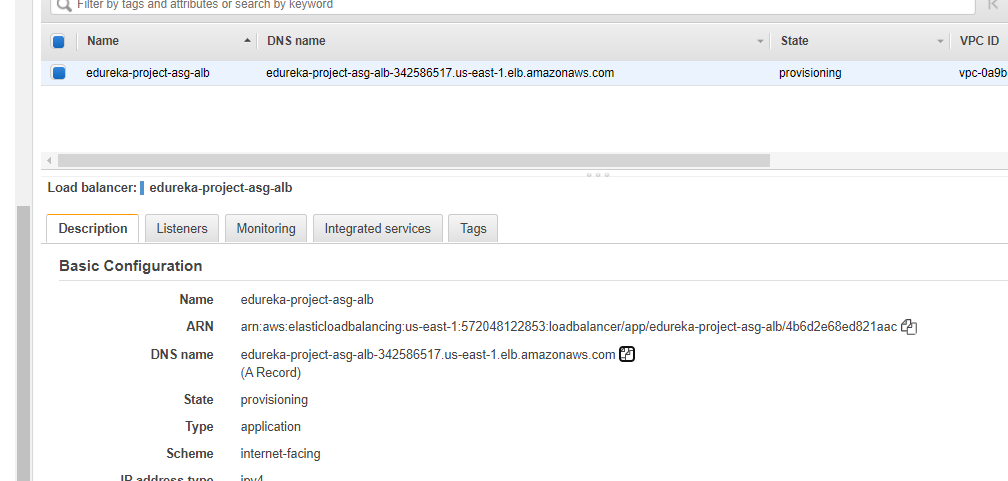
### Autoscaling Group – TARGET GROUP/CW Alarm

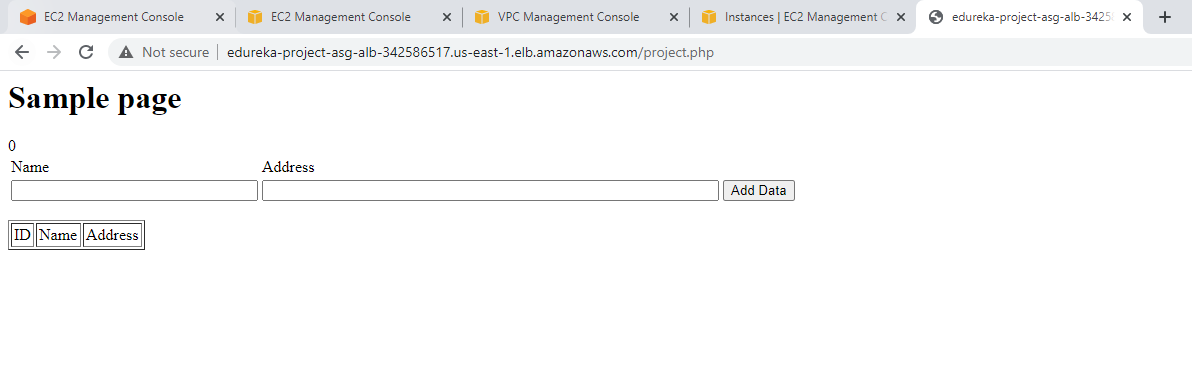


### Autoscaling Group –SNS



### Autoscaling Group – ELB





### CDN

