# Capstone Project

**Name – Vigneshwara Bhat**

## DateBase Migration

**Client Organisation – *Urban Sloth Food Delivery***

*Highlights of the Organisation*

UrbanSloth is an up and coming unicorn in food delivery apps in India due to their ML engines being able to predict on time delivery of food and service quality they were able to penetrate the Indian market in an almost no time. Right now UrbanSloth holds the 3rd position among the top online food delivery apps in India. With the plan in place to expand their presence amongst other market in South Asia with global launch planned for coming years.

Headed by Aryan Sethi graduate of UOP IT department along with his infrastructure team headed by Damini Pushkar who has been key person in designing infrastructure for hosting the application on the third party rented infrastructure, recently due to unexpected increase in the load on their application team has started exploring the options to migrate their application to the Public Cloud. Damini has been tasked with setting up the POC (Proof of Concept) to convince the management that their application is suitable for the cloud and any application can be easily migrated on the cloud without losing any data.

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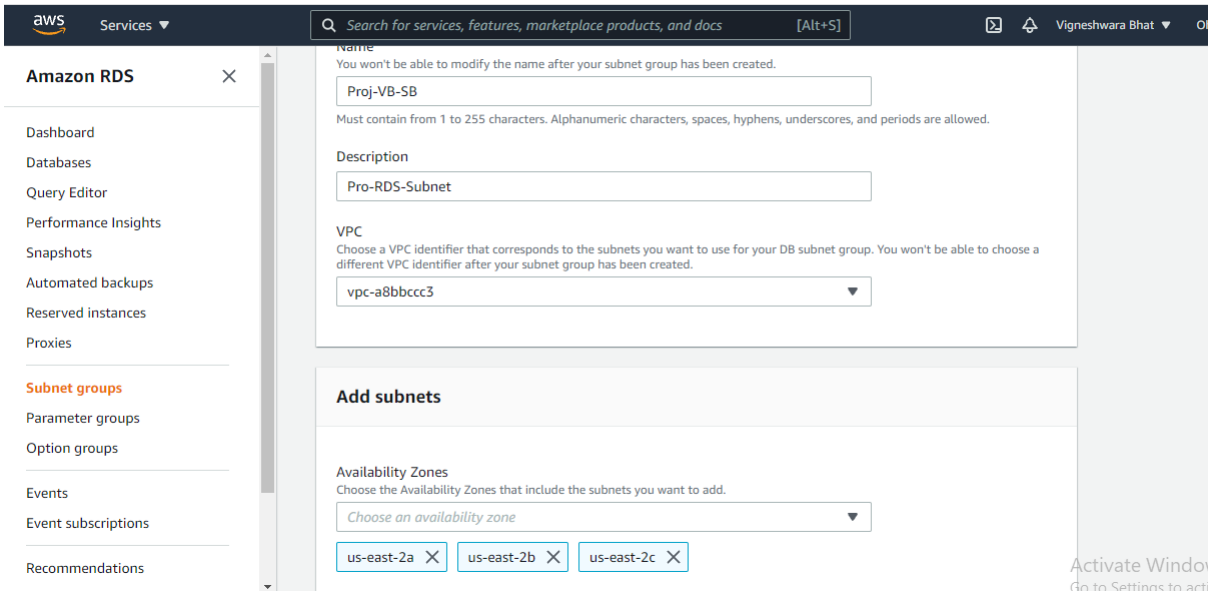
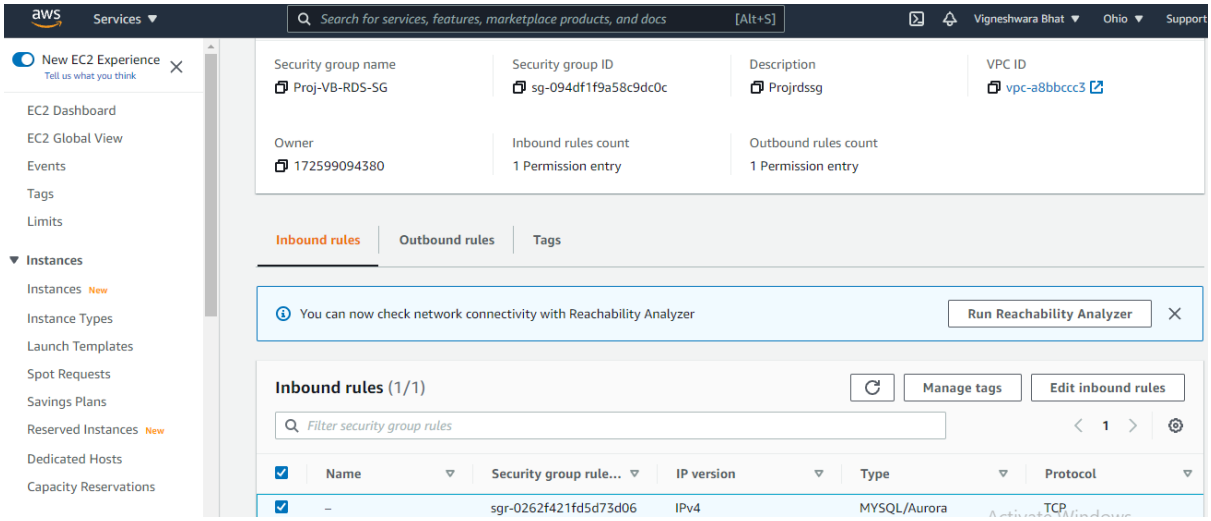
## Steps:

# Task 1:

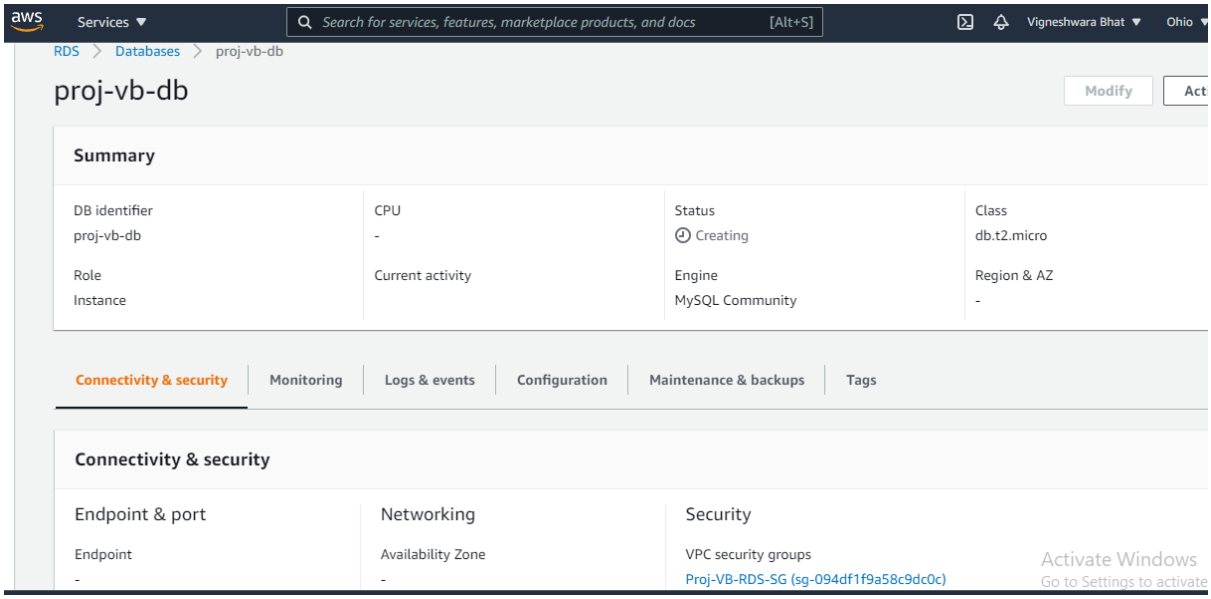
Creating Subnet group for RDS .



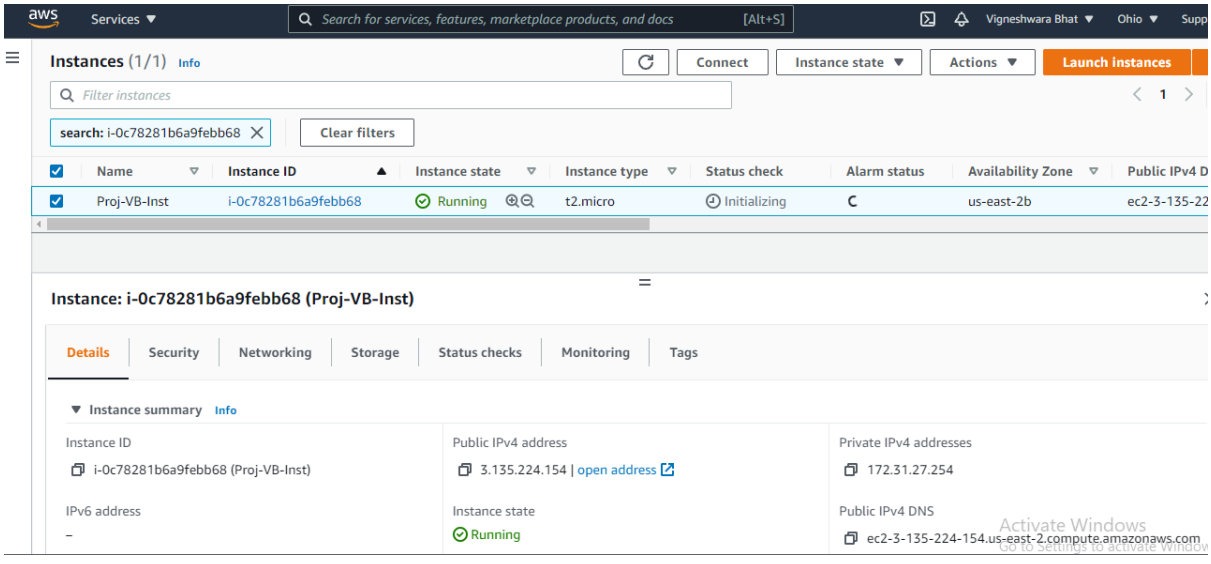

Creating Security Group :



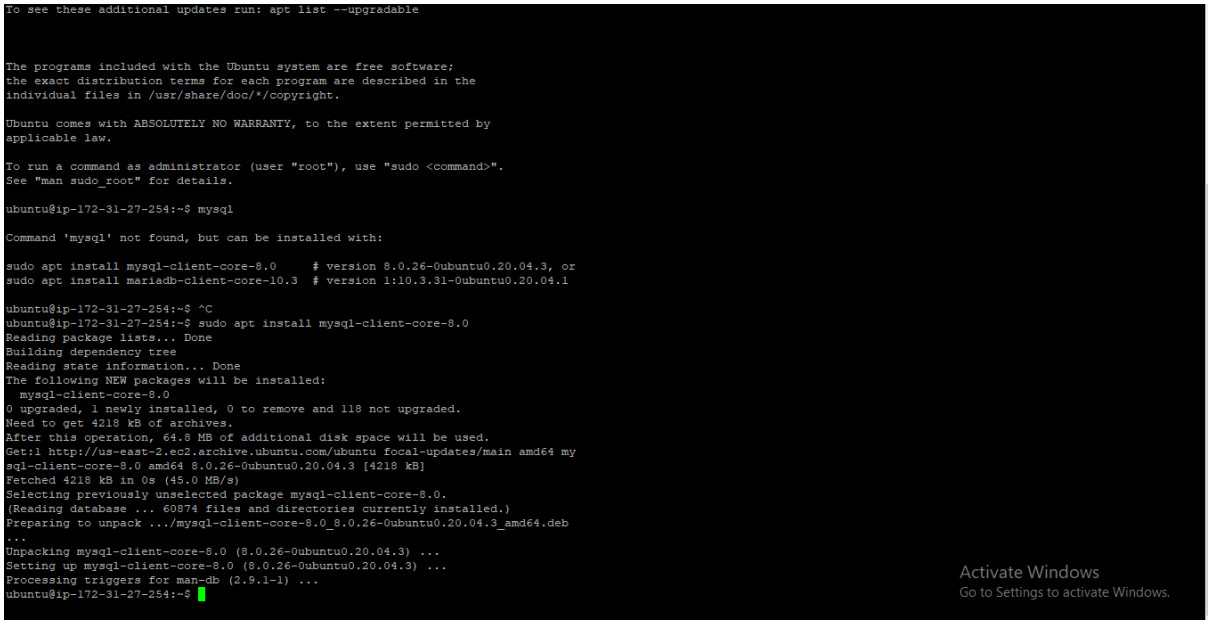
Creating RDS database :




Creating Instance :

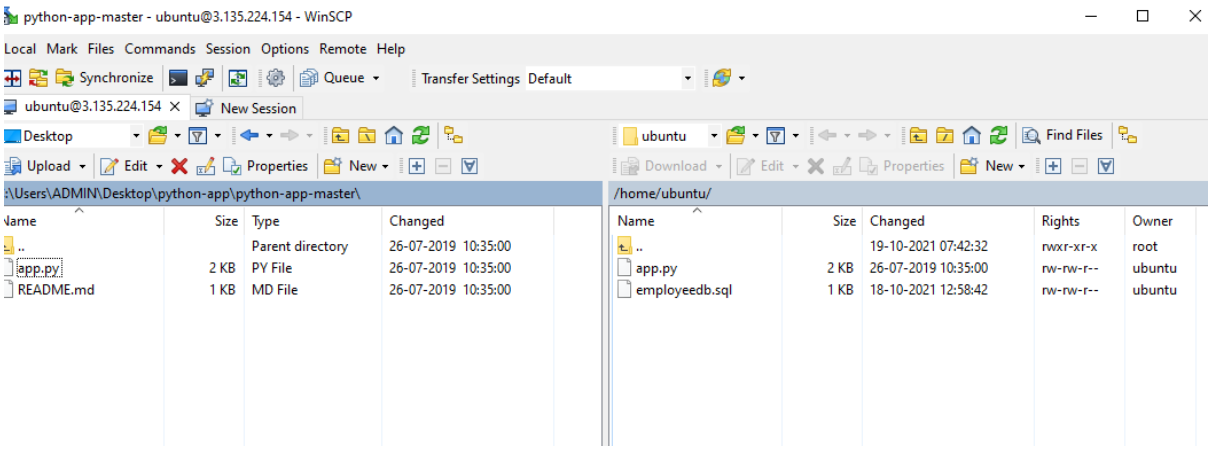


MySQL installation :




Connecting RDS MySQL Database to Ubuntu instance :


Coping data from local to Ubuntu instance :



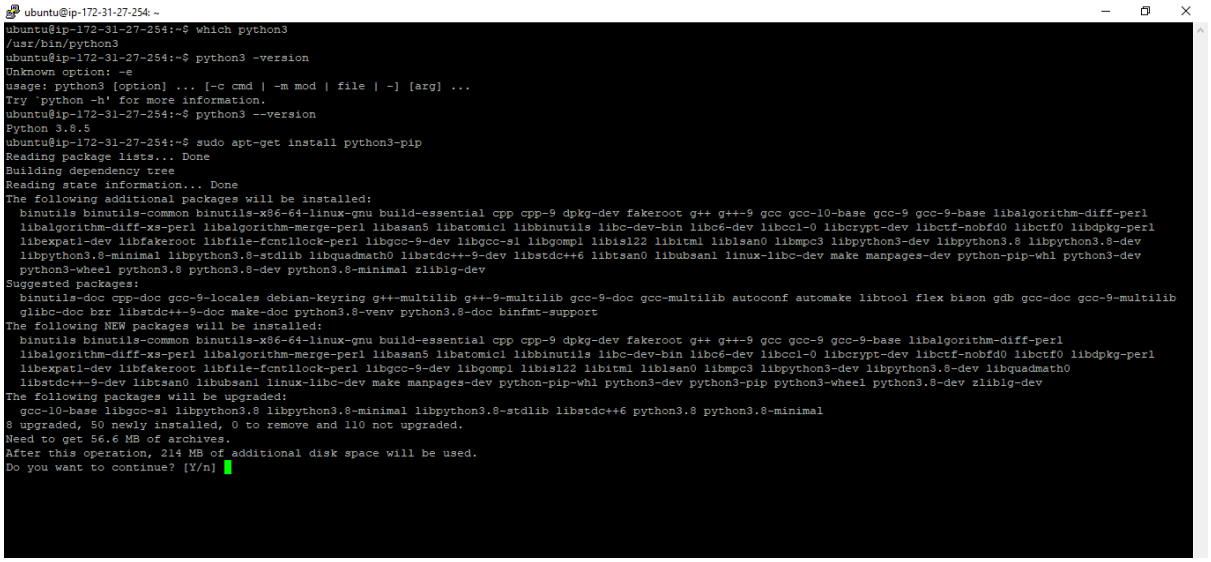

Adding Employee_db folder as source for MySQL database .

```
mysql> show databases;
+--------------------+
| Database           |
+--------------------+
| information_schema |
| mysql              |
| performance_schema |
| sys                |
+--------------------+
4 rows in set (0.00 sec)

mysql> source employeedb.sql
Query OK, 1 row affected (0.01 sec)

Database changed
Query OK, 0 rows affected, 1 warning (0.00 sec)

Query OK, 0 rows affected (0.02 sec)

Query OK, 22 rows affected (0.00 sec)
Records: 22  Duplicates: 0  Warnings: 0

mysql> show databases;
+--------------------+
| Database           |
+--------------------+
| employee_db        |
| information_schema |
| mysql              |
| performance_schema |
| sys                |
+--------------------+
5 rows in set (0.00 sec)

mysql> show tables from employee_db
    ->
    -> ^C

^C
mysql> show tables from employee_db;
+-----------------------+
| Tables_in_employee_db |
```

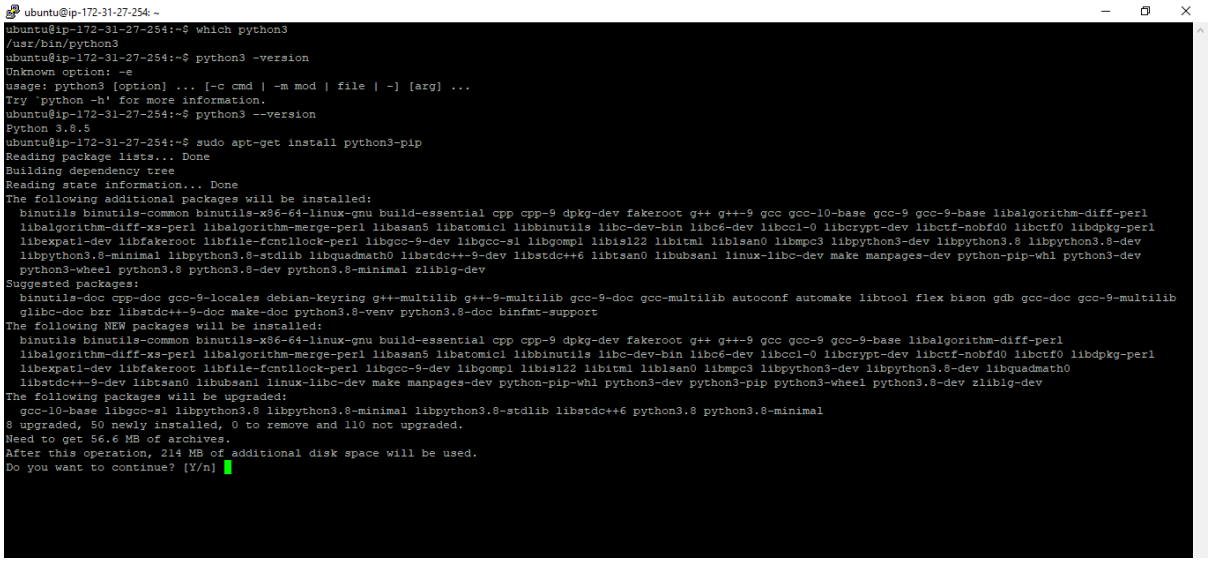
ubuntu@ip-172-31-27-254: ~

```
mysql> show tables from employee_db;
+-----------------------+
| Tables_in_employee_db |
+-----------------------+
| employees             |
+-----------------------+
1 row in set (0.01 sec)

mysql>
mysql>
mysql> select *from employees
    -> ^C

^C
mysql> select *from employees;
+-------------------+
| name              |
+-------------------+
| Murphy Diane      |
| Firrelli Jeff     |
| Patterson William |
| Bondur Gerard     |
| Bow Anthony       |
| Jennings Leslie   |
| Thompson Leslie   |
| Firrelli Julie    |
| Patterson Steve   |
| Tseng Foon Yue    |
| Vanauf George     |
| Bondur Loui       |
| Hernandez Gerard  |
| Castillo Pamela   |
| Bott Larry        |
| Jones Barry       |
| Fixter Andy       |
| Marsh Peter       |
| King Tom          |
| Nishi Mami        |
| Kato Yoshimi      |
| Gerard Martin     |
+-------------------+
22 rows in set (0.00 sec)
```

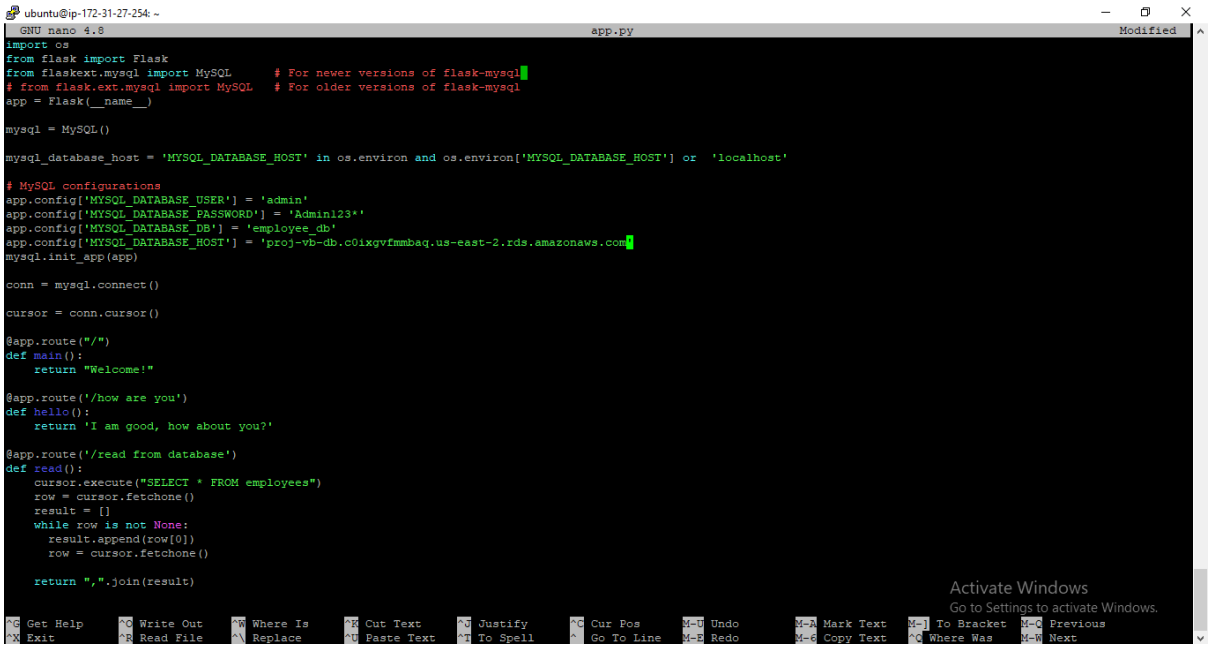
Installing Python in Ubuntu instance .




Installing pip and flask :

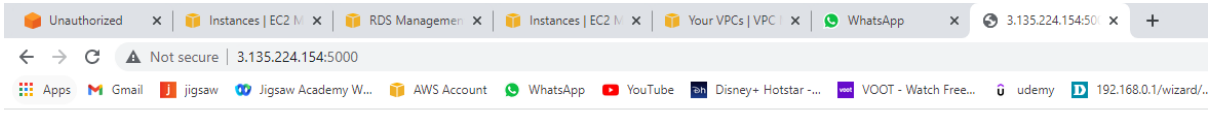


Editing App.py :

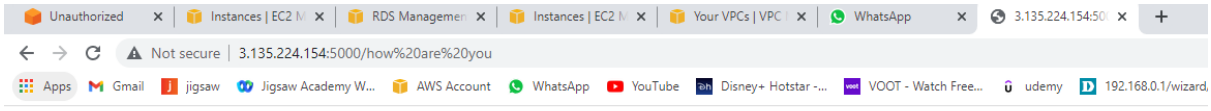



Running Flask app as host :

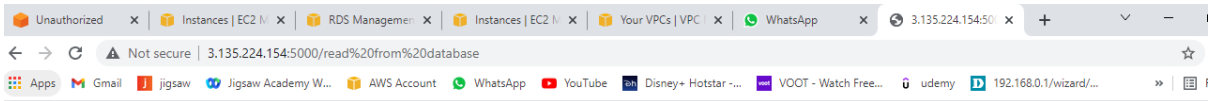
Output of Task 1 :




Welcome!



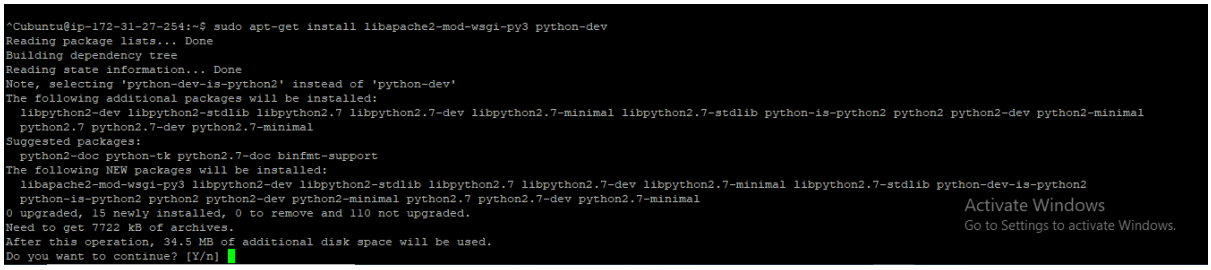

I am good, how about you?



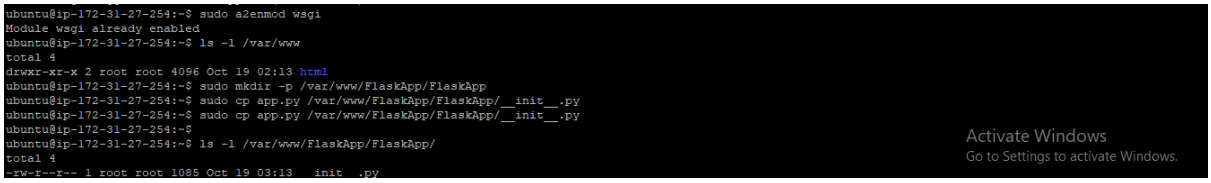

Murphy Diane,Firrelli Jeff,Patterson William,Bondur Gerard,Bow Anthony,Jennings Leslie,Thompson Leslie,Firrelli Julie,Patterson Steve,Tseng Foon Yue,Vanauf George,Bondur Loui,Hernandez Gerard,Castillo Pamela,Bott Larry,Jones Barry,Fixter Andy,Marsh Peter,King Tom,Nishi Mami,Kato Yoshimi,Gerard Martin

# Task 2:

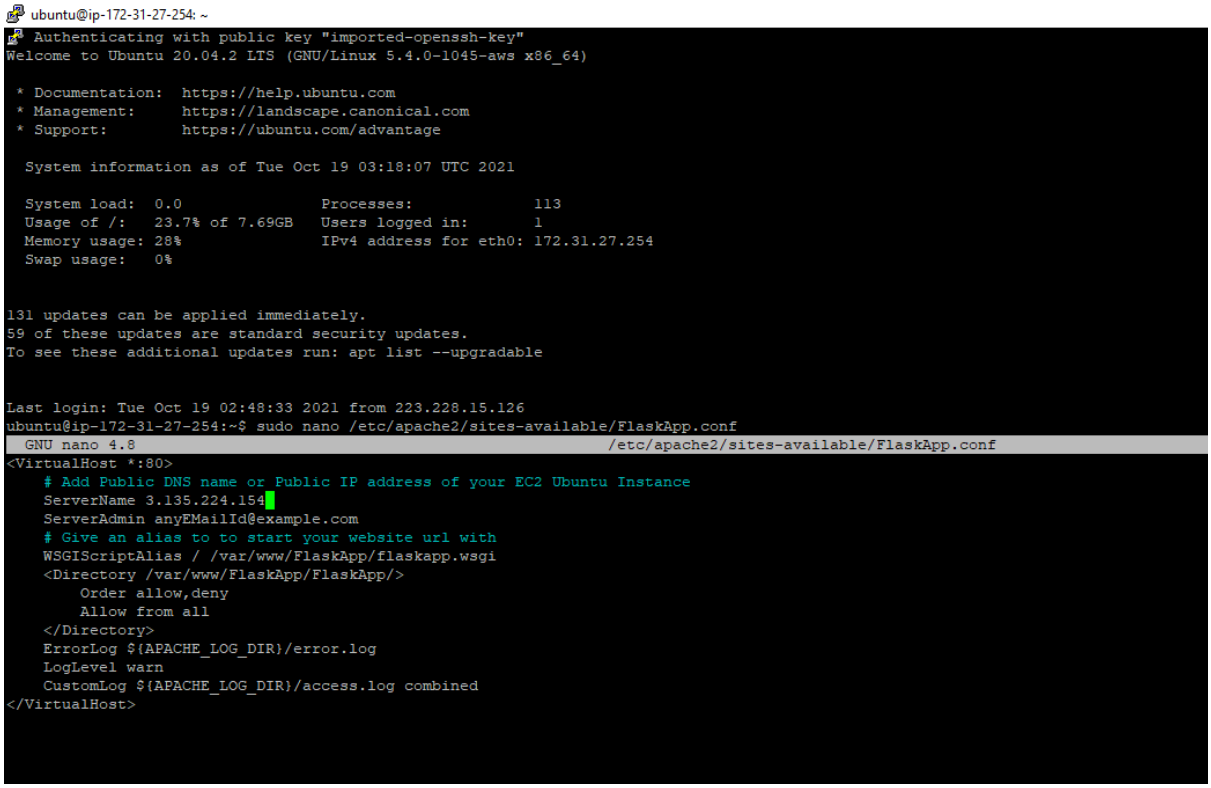
## Creating WSGI :



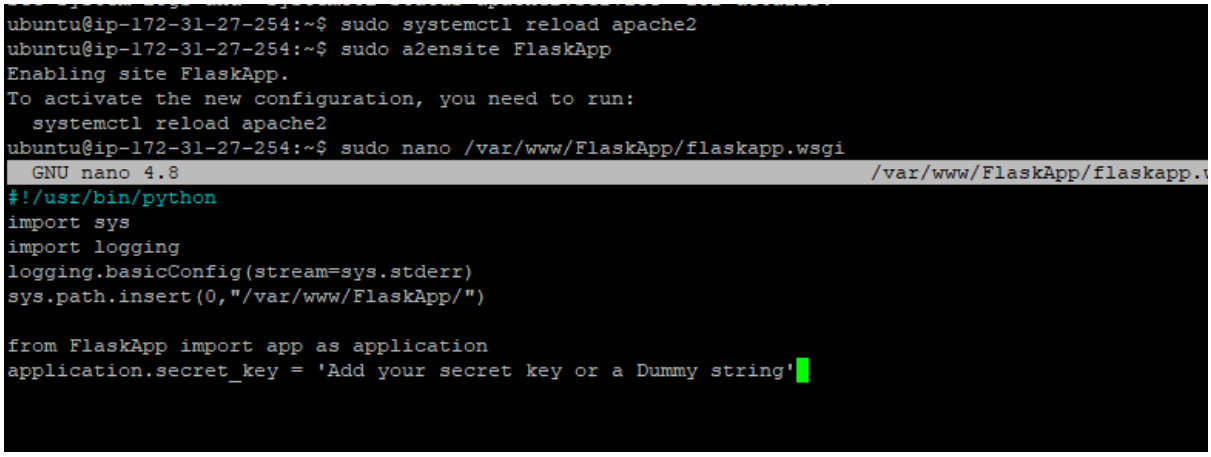

## Creating directory and coping App.py :



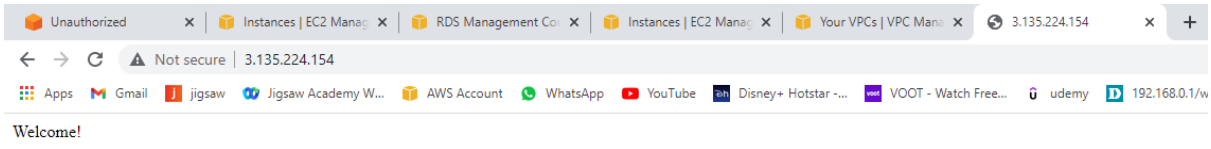
Creating Configuration file :

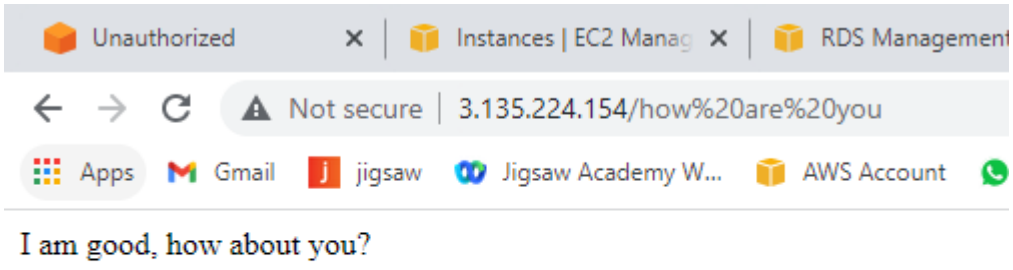


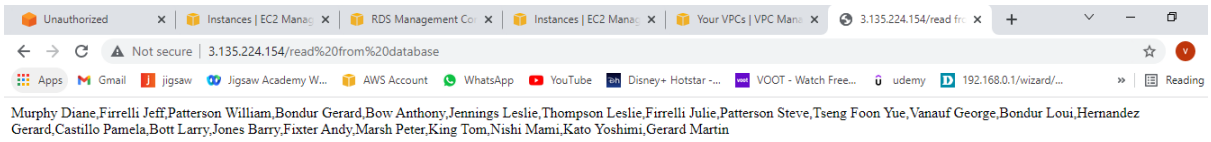

Creating WSGI :



Output of Task 2:

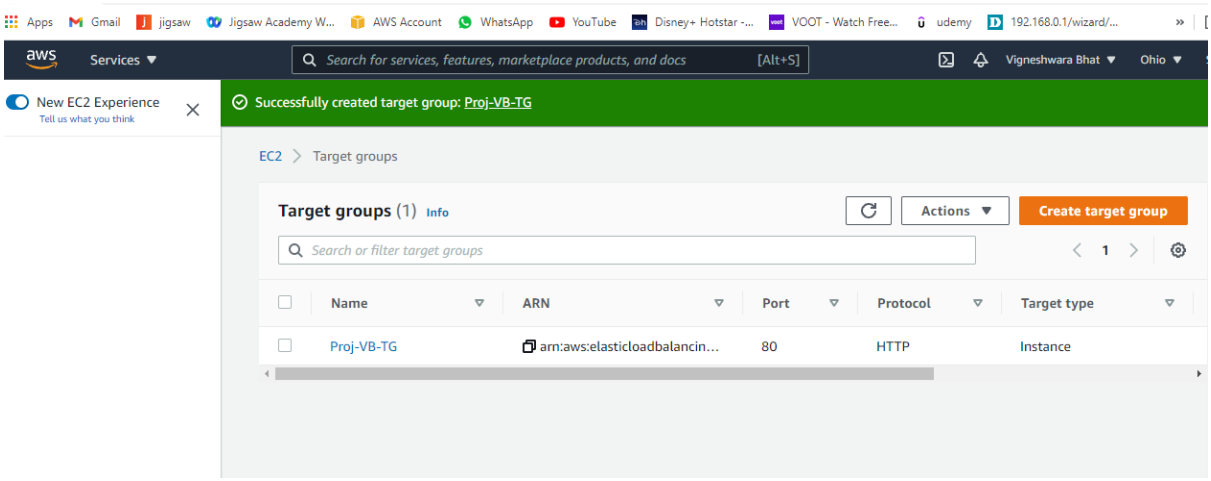


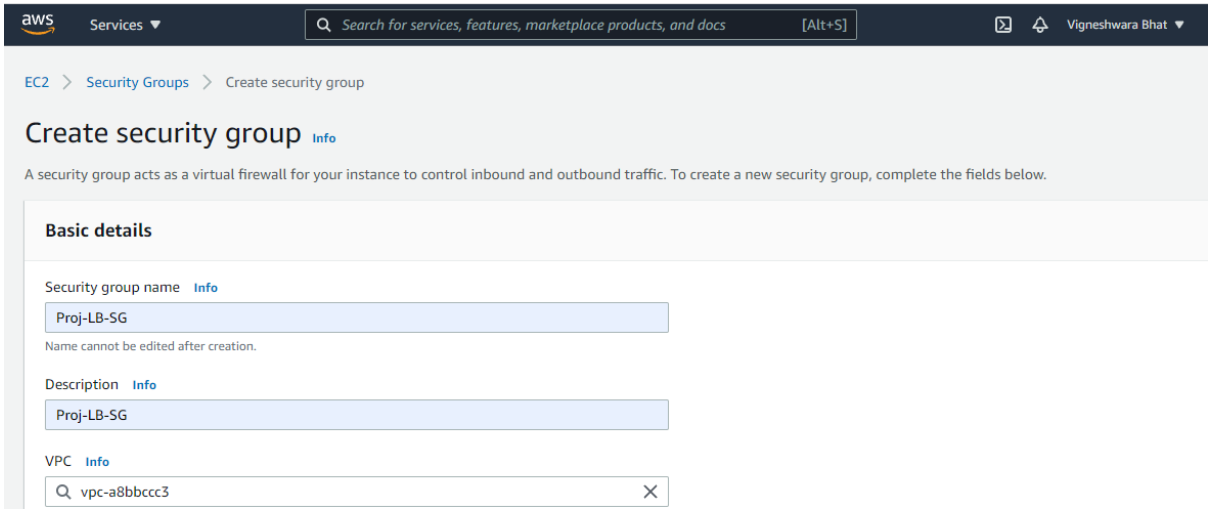



# Task 3:

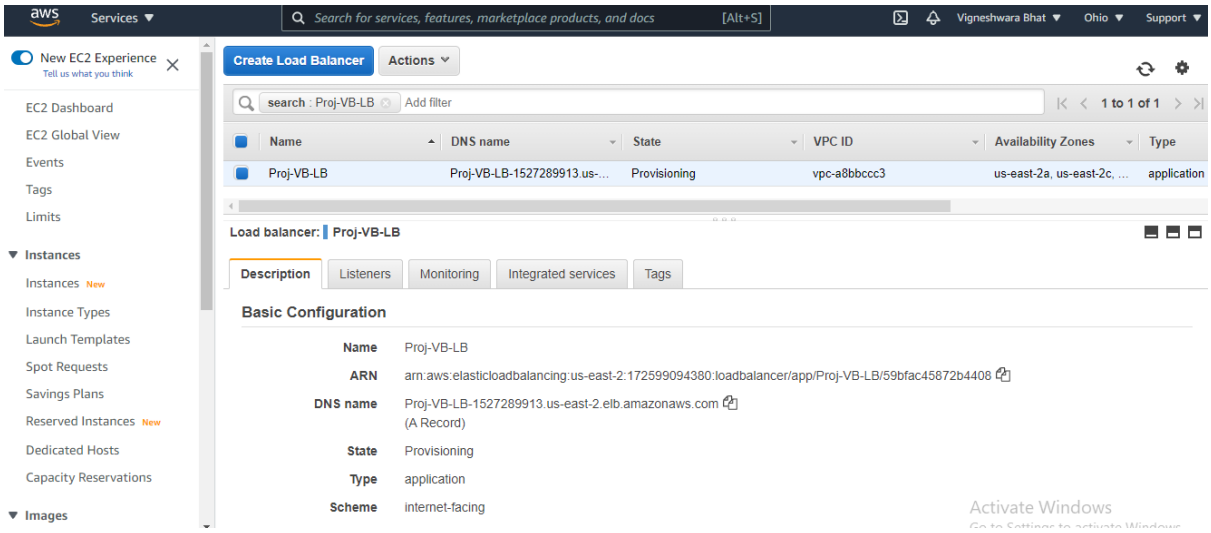
## Creating Target group :



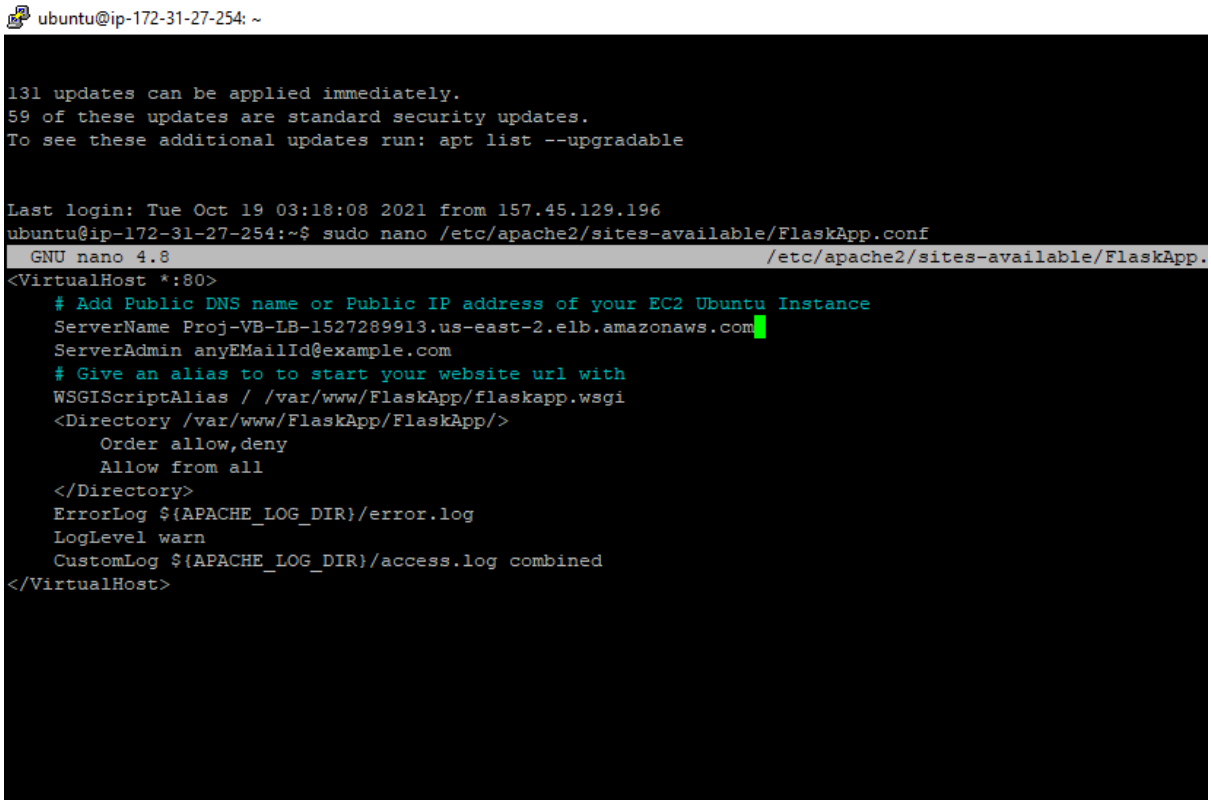

## Creating Security Group :



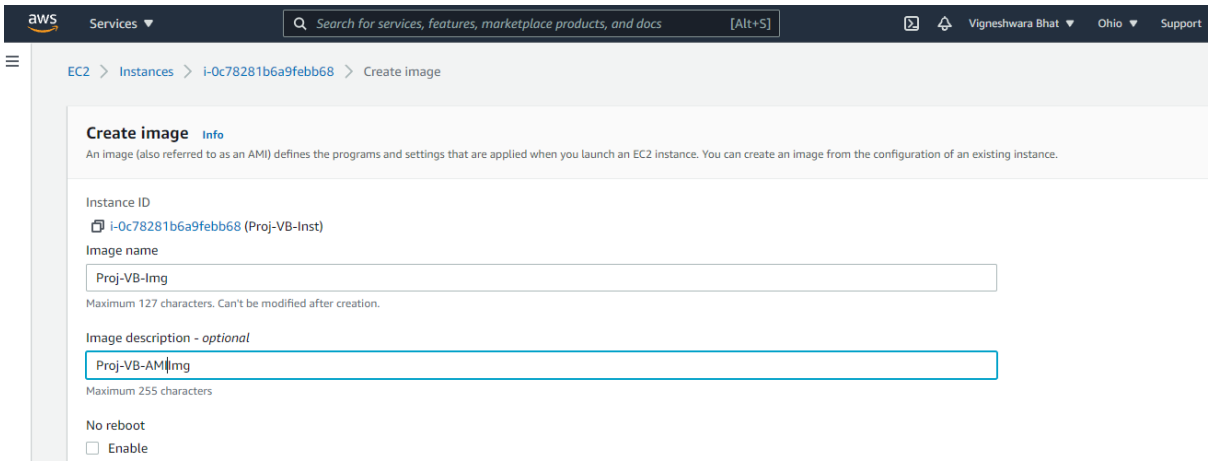
Creating Application Load Balancer :



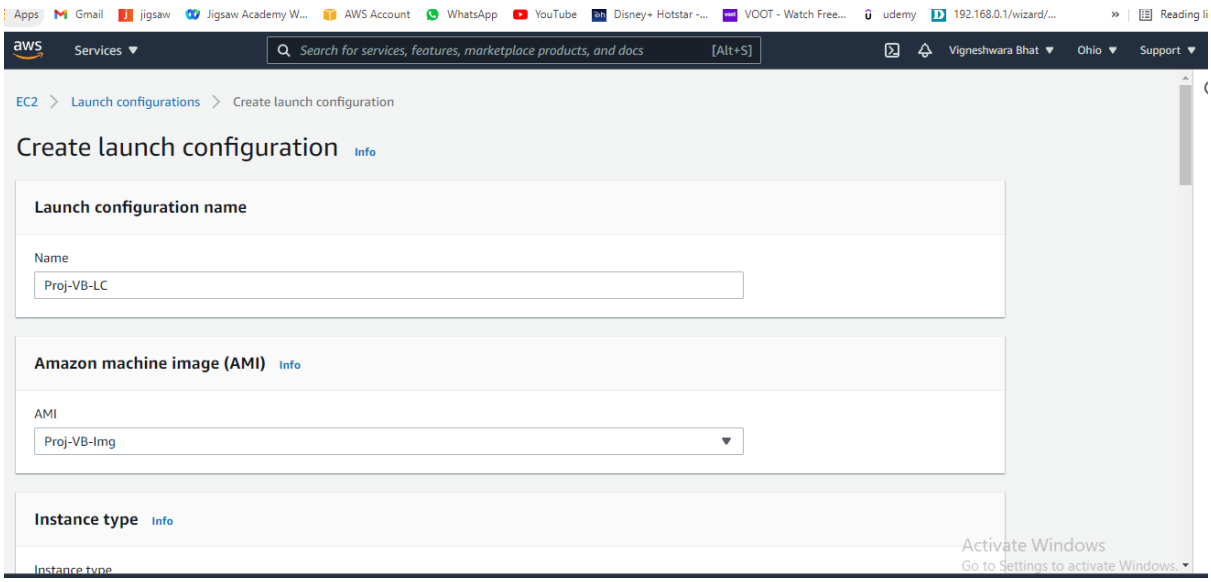

Editing DNS name in WSGI conf. file in Ubuntu instance :

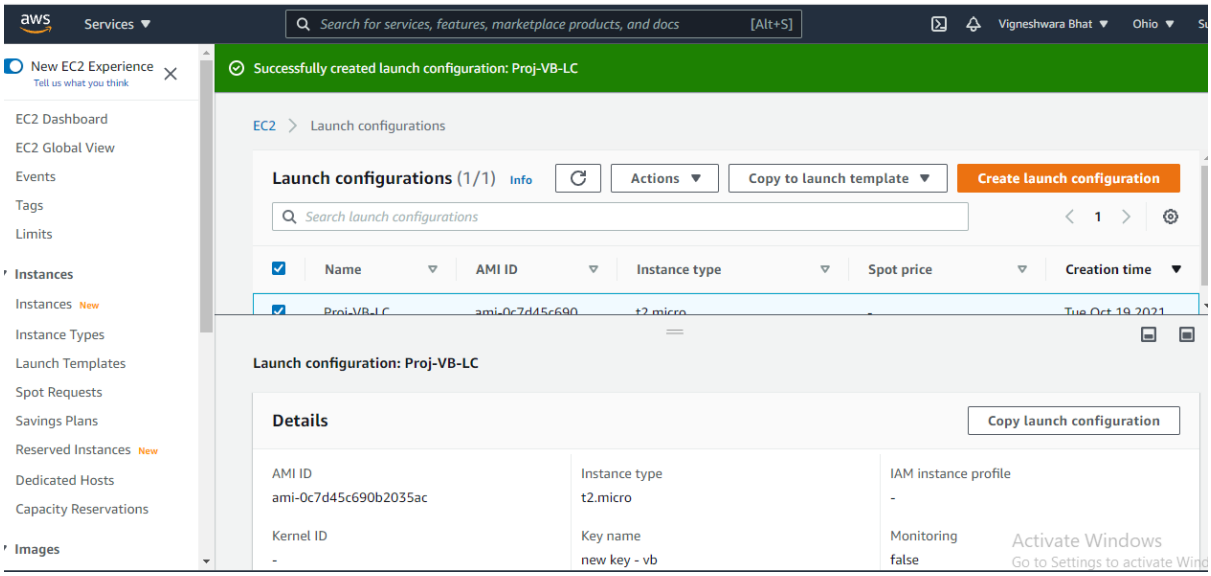


Creating AMI of Ubuntu instance :

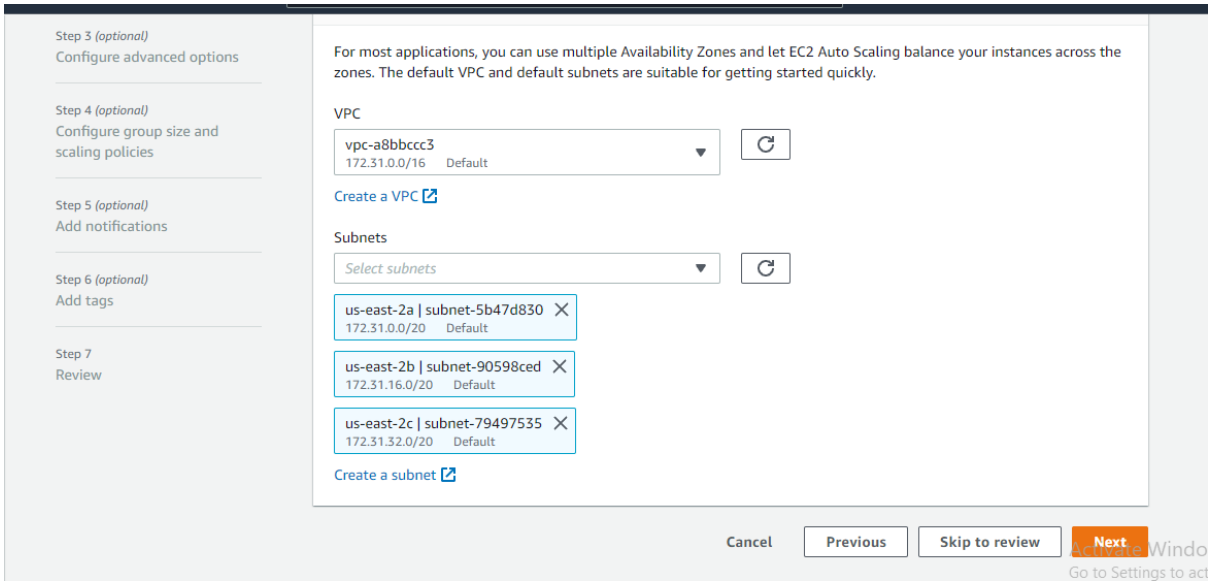


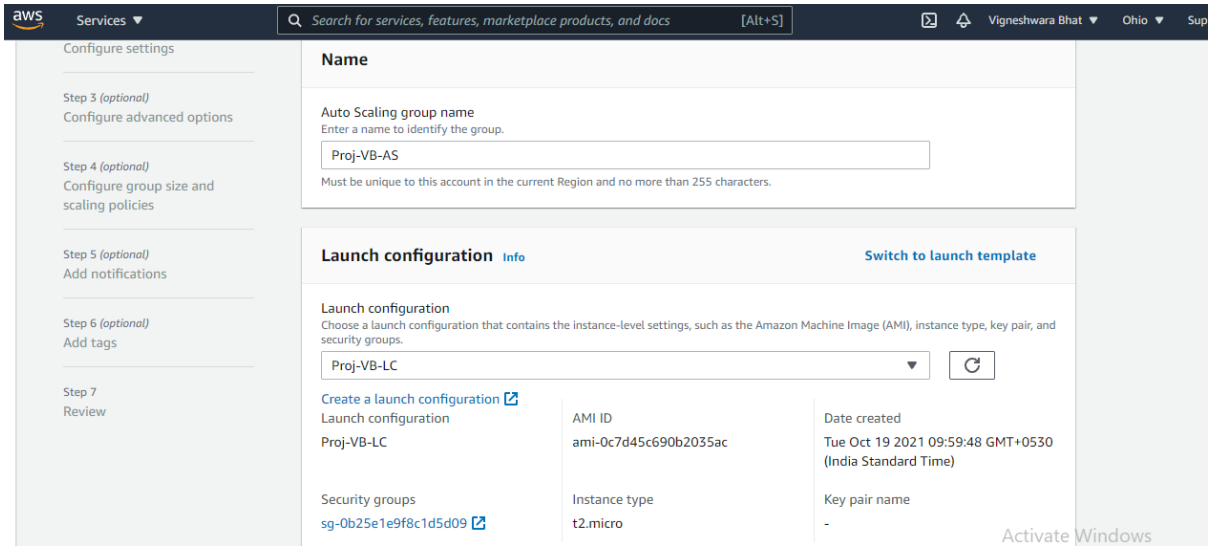

Creating Launch configuration :

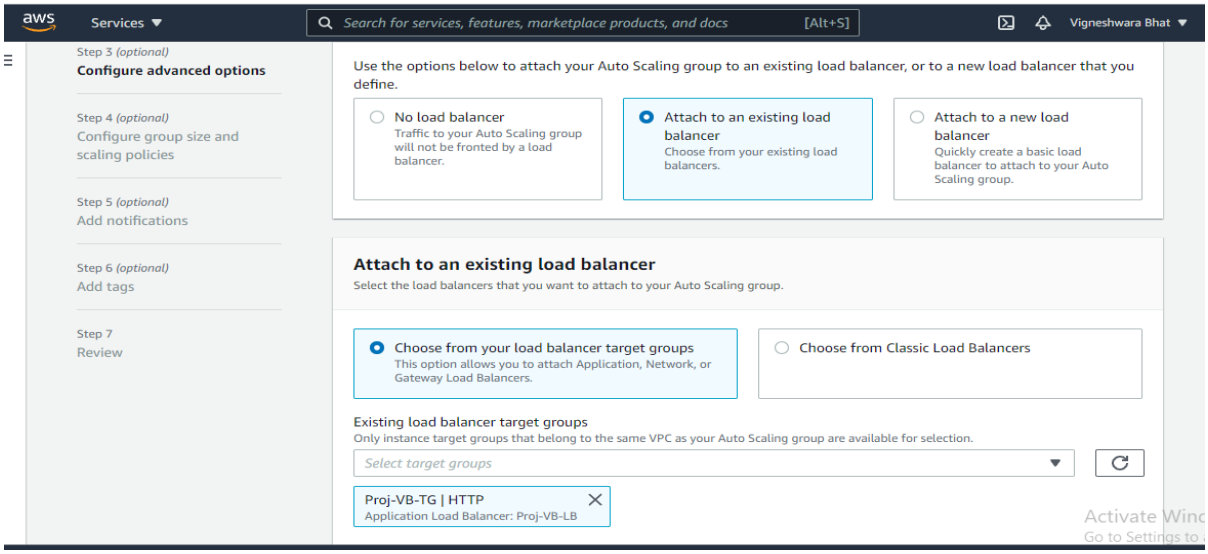


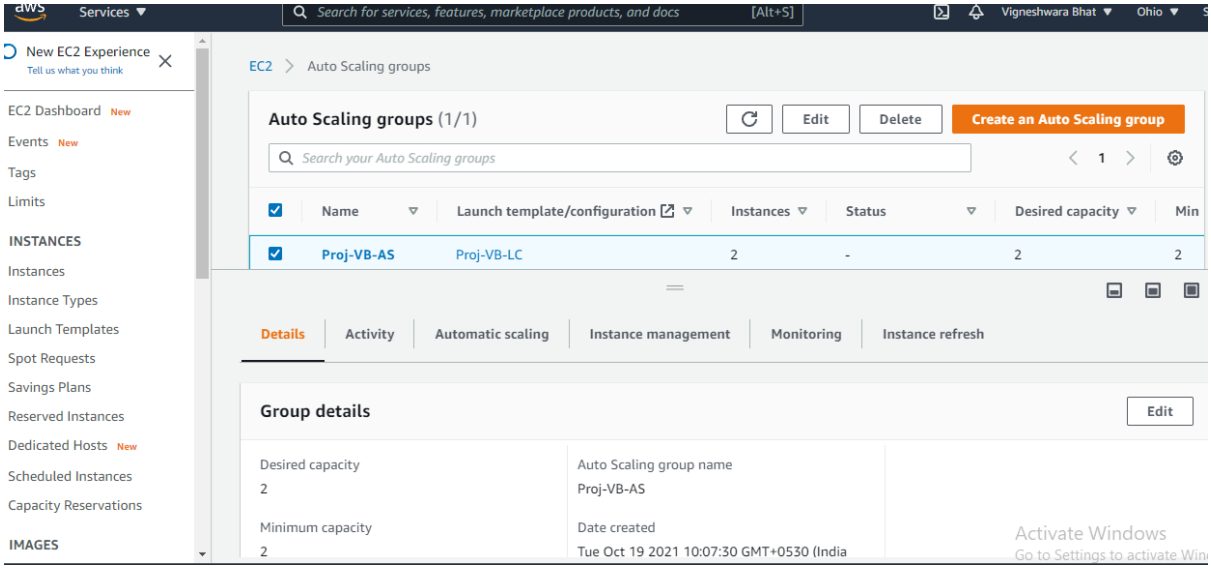



Creating Auto scaling Group :

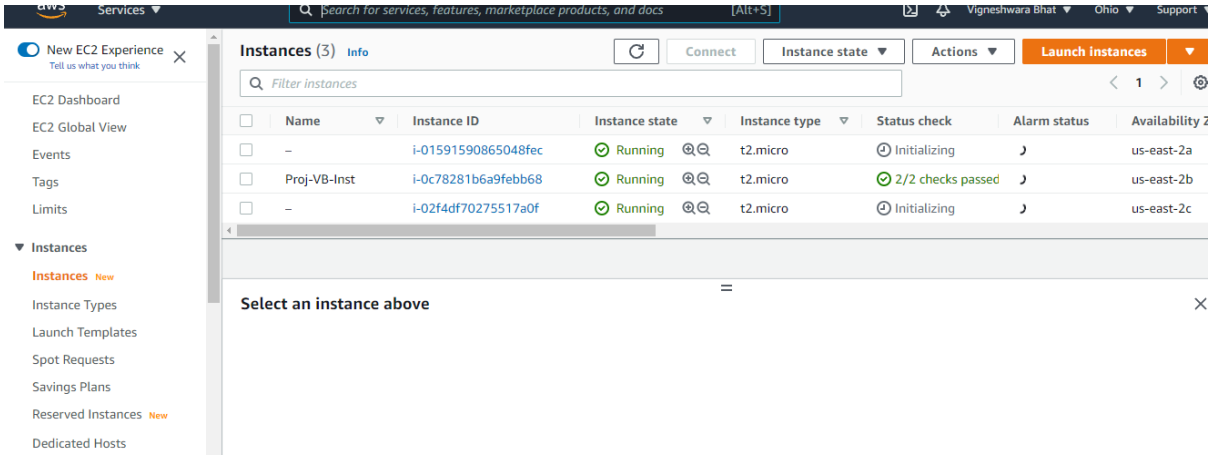



Services
Search for services, features, marketplace products, and docs [Alt+S]
Vigneshwara Bhat
Ohio
Configure settings
Step 3 (optional)
Configure advanced options
Step 4 (optional)
Configure group size and scaling policies
Step 5 (optional)
Add notifications
Step 6 (optional)
Add tags
Step 7
Review
Name
Auto Scaling group name
Enter a name to identify the group.
Proj-VB-AS
Must be unique to this account in the current Region and no more than 255 characters.
Launch configuration Info
Switch to launch template
Launch configuration
Choose a launch configuration that contains the instance-level settings, such as the Amazon Machine Image (AMI), instance type, key pair, and security groups.
Proj-VB-LC
Create a launch configuration
Launch configuration
Proj-VB-LC
AMI ID
ami-0c7d45c690b2035ac
Date created
Tue Oct 19 2021 09:59:48 GMT+0530 (India Standard Time)
Security groups
sg-0b25e1e9f8c1d5d09
Instance type
t2.micro
Key pair name
-
Activate Windows


Services
Search for services, features, marketplace products, and docs [Alt+S]
Vigneshwara Bhat
Step 3 (optional)
Configure advanced options
Step 4 (optional)
Configure group size and scaling policies
Step 5 (optional)
Add notifications
Step 6 (optional)
Add tags
Step 7
Review
Use the options below to attach your Auto Scaling group to an existing load balancer, or to a new load balancer that you define.
No load balancer
Traffic to your Auto Scaling group will not be fronted by a load balancer.
Attach to an existing load balancer
Choose from your existing load balancers.
Attach to a new load balancer
Quickly create a basic load balancer to attach to your Auto Scaling group.
Attach to an existing load balancer
Select the load balancers that you want to attach to your Auto Scaling group.
Choose from your load balancer target groups
This option allows you to attach Application, Network, or Gateway Load Balancers.
Choose from Classic Load Balancers
Existing load balancer target groups
Only instance target groups that belong to the same VPC as your Auto Scaling group are available for selection.
Select target groups
Proj-VB-TG | HTTP
Application Load Balancer: Proj-VB-LB
Activate Windows




Instances are created by AutoScale :



Output from LoadBalancer :