**TASK-2**

To confiure nginx in ubuntu18

step-1 launch ec2 instance

step-2 install nginx (sudo apt install nginx -y)

step-3 check weather nginx is running (systemctl status nginx)

step-4 allocate elastic ip and associate withthe ec2 instance

**To configure flask app with pakages**

step-1 launch ec2 instance

step-2 install python3 (sudo apt install python3 -y)

step-3 install pip3 (sudo apt install python3-pip)

step-4 install nginx (sudo apt install nginx -y)

step-5 install flask using pip (sudo pip3 install flask)

step-6 install gunicorn3 (sudo apt install gunicorn3)

**TO configure mysql instance**

step-1 create a database in aws

step-2 creat an instance in ubuntu18

step-3 update pakages (apt update)

step-4 install mysql (apt install mysql-server)

step-5 configure instance with rds by rds end point (mysql -h database-1.chzpz6etnn8i.us-east-1.rds.amazonaws.com -p 3306 -u admin -p)

step-6 give the password created in rds and login to mysqldatabase

**step for nginx to reverse proxing flask app**

step-1 launch ec2 instance

step-2 install python3 (sudo apt install python3 -y)

step-3 install pip3 (sudo apt install python3-pip)

step-4 install nginx (sudo apt install nginx -y)

step-5 install flask using pip (sudo pip3 install flask)

step-6 install gunicorn3 (sudo apt install gunicorn3)

step-7 allocate elastic ip

step-8 makedirectory in homepath (mkdir flaskapplication)

step-9 move to flaskappliction

step-10 using vi editor make a flask application code using python (vi app.py)

from flask import Flask

app = Flask(\_\_name\_\_)

@app.route("/")

def homepage():

return "<h1>MY FLASK APP<h1>"

if \_\_name\_\_=="\_\_main\_\_":

app.run(host='0.0.0.0',port=8080)

**The code i used**

step-11 run the command (python3 app.py) to check weather the code passed

step-12 move to /etc/nginx/sites-enabled

step-13 create a file (sudo vi flaskapp)

step-14 In the file paste the deployment file from gunicorn

server {

listen 80;

server\_name 52.87.77.124;

location / {

proxy\_pass http://127.0.0.1:8000;

}

}

step-15 restart nginx (sudo service nginx restart)

step-16 from flaskapplication directory run command (gusudo gunicorn3 app:app)

step-17 Hit the ip in browser (52.87.77.124)

**you will see MY FLASK APP appears in browser**

***TO CREATE VPC I HAD USED Terraform as i already have codes***

step-1 launch an ec2 instance in ubuntu

step-2 install terraform in normal user (using wget)

step-3 unzip the file (sudo apt unzip)

step-4 move the terraform file to /usr/local/bin

step-5 install python pip

step-6 type the code to create vpc save it in instance (vi terraform)

step-7 then run the command (terraform init)

step-8 then run the command (terrafarm plan)

step-9 then run the command (terrafarm apply)

step-10 then we can check weather vpc created

step-11 to delete the created vpc we can use (terraform destroy)

***NGINX IP : 52.87.77.124***

**THANK YOU**