http:// 54.187.174.31:5000

 **Launch an Amazon Linux EC2 instance**:

* Go to the EC2 Dashboard in the AWS Management Console.
* Launch a new instance using the "Amazon Linux 2023 AMI".
* Configure the instance, including security group settings to allow HTTP/HTTPS (port 80/443) and SSH (port 22) access.

 **Connect to your EC2 instance**:

* Connect to your instance using SSH. You can use an SSH client like PuTTY or your terminal.

ssh -i /path/to/your-key-pair.pem ec2-user@your-ec2-public-dns

 **Update the system and install necessary packages**:

sudo yum update -y

sudo yum install python3-pip -y

sudo yum install git -y # Optional, if you want to clone your code from a git repository

sudo git clone https://github.com/RoshanDissanayake/Upload\_Files.git

 **Install and set up your Flask application**:

* Create a directory for your Flask app and navigate into it.

mkdir flask\_app

cd flask\_app

* Create a virtual environment and activate it:

python3 -m venv venv

source venv/bin/activate

* Install Flask and other dependencies:

pip install flask

* Create your Flask application file (app.py) and paste your code into it.
* Create the necessary directories:

mkdir uploads

mkdir -p static/images

* Upload your logo image to the static/images directory.

 **Run your Flask application**:

* Start your Flask application:

python app.py

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 **Configure the application to run in the background**:

* To ensure your application runs in the background and restarts on reboot, use a process manager like systemd or gunicorn. Below is an example using gunicorn and systemd.
* Install gunicorn:

pip install gunicorn

* Create a systemd service file for your Flask application:

sudo nano /etc/systemd/system/flask\_app.service

Add the following content to the file:

[Unit]

Description=Gunicorn instance to serve Flask app

After=network.target

[Service]

User=ec2-user

Group=nginx

WorkingDirectory=/home/ec2-user/flask\_app

Environment="PATH=/home/ec2-user/flask\_app/venv/bin"

ExecStart=/home/ec2-user/flask\_app/venv/bin/gunicorn -w 3 -b 0.0.0.0:8000 app:app

[Install]

WantedBy=multi-user.target

* Start and enable the service:

sudo systemctl start flask\_app

sudo systemctl enable flask\_app

 **Set up a reverse proxy with Nginx**:

* Install Nginx:

sudo yum install nginx -y

* Configure Nginx to proxy requests to your Flask application:

sudo nano /etc/nginx/conf.d/flask\_app.conf

Add the following content to the file:

server {

listen 80;

server\_name your-domain.com; # Replace with your domain or IP

location / {

proxy\_pass http://127.0.0.1:8000;

proxy\_set\_header Host $host;

proxy\_set\_header X-Real-IP $remote\_addr;

proxy\_set\_header X-Forwarded-For $proxy\_add\_x\_forwarded\_for;

proxy\_set\_header X-Forwarded-Proto $scheme;

}

location /static/ {

alias /home/ec2-user/flask\_app/static/;

}

}

* Test the Nginx configuration and restart Nginx:

sudo nginx -t

sudo systemctl restart nginx