**Outline:**

1) Launching an EC2 instance

2) Connecting the EC2 instance on local machine

3) Configure EC2 instance (Install Nginx, pip, Nginx module for wsgi, and virtual environment)

4) Clone the Django Application Repository.

5) Create a virtual Environment

6) Install the necessary packages

7)Test run the application

8) Configure Nginx to point to our Django application

login as ubuntu -- Optional

**Install Required Packages:**

1. sudo apt-get update

2. sudo apt-get install python3-pip -y

3. sudo apt-get install supervisor

4. sudo apt-get install nginx

5. pip3 install django gunicorn

6. sudo apt-get install python3-virtualenv -y

**Clone The Code From Your github Repo:**

git clone https://github.com/your-username/your-reponame.git

**Create virtualenv:**

virtualenv env

***Macke Sure Your Virtualenv is outside of the project directory***

**Nginx Supervisor configuration:**

sudo nano /etc/supervisor/conf.d/gunicorn.conf

***Copy This Code To Configuration File:***

'''

[program:gunicorn]

directory=/home/ubuntu/<your-repo-name>

command=/home/ubuntu/env/bin/gunicorn --workers 3 --bind unix:/home/ubuntu/<your-repo-name>/app.sock <your-project-settings-folder-name>.wsgi:application

autostart=true

autorestart=true

stderr\_logfile=/logs/gunicorn.err.log

stdout\_logfile=/logs/gunicorn.out.log

'''

***Save The Configuration File And Then Exit.***

***Then***

sudo mkdir /logs

**Verify Supervisor configuration:**

sudo supervisorctl reread

sudo supervisorctl update

sudo supervisorctl status

**NGINX configuration changes:**

sudo nano /etc/nginx/sites-available/django.conf

***Copy This Code To Configuration Changes File:***

'''

server{

listen 80;

server\_name Your Dns Name And Your Dns Ip;

location / {

include proxy\_params;

proxy\_pass http://unix:/home/ubuntu//<your-repo-name>/app.sock;

}

location /static/ {

autoindex on;

alias /home/ubuntu//<your-repo-name>/static/;

}

}

'''

***Save The Configuration CHanges File And Then Exit.***

**Verify NGINX config changes and restart server:**

sudo nano /etc/nginx/nginx.conf

***Uncomment server\_name\_hash\_bucket\_size***

***increase server\_names\_hash\_bucket\_size 128***

***Save And Exit.***

***Then Restart Nginx Server***

sudo nginx -t

sudo ln /etc/nginx/sites-available/django.conf /etc/nginx/sites-enabled

sudo service nginx restart

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In setting.py

ALLOWED\_HOSTS = ["Your Dns Name","Your Dns Ip","Your Domain Name"]

Note:

Make Sure You Set The Static Root in project's settings.py and also run python manage.py collectstatic

In Project's settings.py:

imprt os

STATIC\_ROOT = os.path.join(BASE\_DIR, "static/")

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activate the env

source env/bin/activate