



Django deployment on Ubuntu Server [Memory API]

- Step 1: Create a non-root user (Provides better security for the server)

```
ssh root@your_server_ip
```

```
adduser chaand
```

```
usermod -aG sudo chaand
```

```
ufw allow OpenSSH
```

```
ufw enable
```

```
sudo su
```

```
exit
```

```
ssh chaand@your_server_ip
```

Step 2: Install the Packages from the Ubuntu Repository

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```
sudo apt-get install python3-pip python3-dev libpq-dev postgresql postgresql-contrib  
sudo apt install git-all
```

• Step 3: Python Virtual Environment for the Project

```
sudo -H pip3 install --upgrade pip  
sudo -H pip3 install virtualenv
```

```
mkdir ~/myproject  
cd ~/myproject
```

```
git clone URL .
```

```
virtualenv myprojectenv
```

```
source myprojectenv/bin/activate
```

```
pip install -r requirements.txt  
pip install gunicorn psycpg2
```

• Step 4: Update settings of the Project

```
cd app  
nano settings.py
```

Update

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```
python ~/myproject/manage.py makemigrations
python ~/myproject/manage.py migrate
```

```
python ~/myproject/manage.py createsuperuser
```

```
sudo ufw allow 8000
```

```
python ~/myproject/manage.py runserver 0.0.0.0:8000
```

```
http://server_domain_or_IP:8000
```

```
cd ~/myproject
gunicorn --bind 0.0.0.0:8000 simple_backend.wsgi
```

```
deactivate
```

• Step 6: Create a Gunicorn systemd Service File

```
sudo nano /etc/systemd/system/gunicorn.service
```

```
[Unit]
Description=gunicorn daemon
After=network.target

[Service]
```

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```
ExecStart=/home/chaand/myproject/myprojectenv/bin/gunicorn --access-logfile
```

```
[Install]
```

```
WantedBy=multi-user.target
```

```
sudo systemctl start gunicorn
sudo systemctl enable gunicorn
sudo systemctl status gunicorn
```

```
ls /home/chaand/myproject
```

```
sudo journalctl -u gunicorn
```

```
sudo systemctl daemon-reload
sudo systemctl restart gunicorn
```

Step 7: Configure Nginx to Proxy Pass to Gunicorn

```
sudo nano /etc/nginx/sites-available/myproject
```

```
server {
    listen 80;
    server_name server_domain_or_IP;

    location = /favicon.ico { access_log off; log_not_found off; }
    location /static/ {
        root /home/chaand/myproject;
    }
}
```

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```
    proxy_pass http://unix:/home/chaand/myproject/myproject.sock;
}
}
```

```
sudo ln -s /etc/nginx/sites-available/myproject /etc/nginx/sites-enabled
```

```
sudo nginx -t
```

```
sudo systemctl restart nginx
```

```
sudo ufw delete allow 8000
sudo ufw allow 'Nginx Full'
```

Done!

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