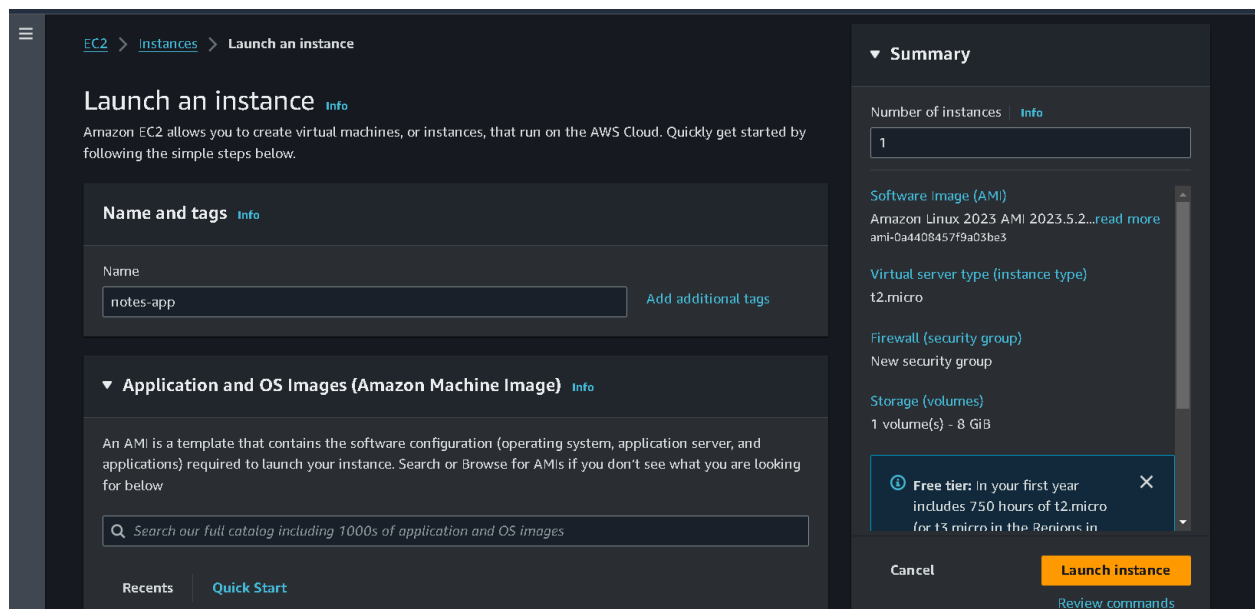


# Deploy Project by Nginx using AWS

## Step1:

Launch instance allow ssh,http and https ports on your EC2 instance and launch it



## Step 2:

Update your instance using following command.

```
sudo apt-update
```

Install nginx

```
sudo apt install nginx -y
```

start nginx server

```
sudo systemctl start nginx
```

Clone your Project Repo

git clone <https://github.com/HarshalDighe/django-notes-app.git>

## Step 3:

Then install Docker

Sudo apt install docker.io -y

## Step 4:

Cd in you project and run commands

cd django-notes-app

sudo docker build -t notes-app .

sudo docker run -d -p 8000:8000 notes-app:latest

```
ubuntu@ip-172-31-8-147:~/django-notes-app$ docker build -t notes-app .
DEPRECATED: The legacy builder is deprecated and will be removed in a future release.
Install the buildx component to build images with BuildKit:
https://docs.docker.com/go/buildx/
```

```
ubuntu@ip-172-31-8-147:~/django-notes-app$ docker run -d -p 8000:8000 notes-app:latest
170d7298b7134e8e209329bd52e4cd3920c9d8f5322bfaa85b6e4b0429e829c5
```

Check running container

sudo docker ps

```
ubuntu@ip-172-31-8-147:~/django-notes-app$ docker ps
CONTAINER ID   IMAGE          COMMAND                  CREATED        STATUS        PORTS                               NAMES
170d7298b713   notes-app:late /bin/sh -c 'python -"    2 minutes ago Up 2 minutes   0.0.0.0:8000->8000/tcp, :::8000->8000/tcp   keen_bassi
```

## Step 5:

Your website is running in local

How to see this run command

curl -L <http://127.0.0.1:8000>

```
ubuntu@ip-172-31-8-147:~/django-notes-app$ curl -L http://127.0.0.1:8000
<!doctype html><html lang="en"><head><meta charset="utf-8"/><link rel="icon" href="/favicon.ico"/><meta name="viewport" content="width=device-width,initial-scale=1"/><meta name="theme-color" content="#000000"/><meta name="description" content="Web site created using create-react-app"/><link rel="apple-touch-icon" href="/logo192.png"/><link rel="manifest" href="/manifest.json"/><title>TWS Community is Amazing</title><script defer="defer" src="/static/js/main.08442c14.js"></script><link href="/static/css/main.e7772a38.css" rel="stylesheet"></head><body><noscript>You need to enable JavaScript to run this app.</noscript><div id="root"></div></body></html>
```

## Step 6:

Set Proxy server to redirect your local ip for your fronted and backend

```
cd /etc/nginx  
cd sites-enabled  
sudo vim default
```

Fronted proxy

```
root /var/www/html;  
  
# Add index.php to the list if you are using PHP  
index index.html index.htm index.nginx-debian.html;  
  
server_name _;  
  
location / {  
    proxy_pass http://127.0.0.1:8000;  
    # First attempt to serve request as file, then  
    # as directory, then fall back to displaying a 404.  
    try_files $uri $uri/ =404;  
}
```

Backend proxy

```
server_name _;  
  
location / {  
    proxy_pass http://127.0.0.1:8000;  
    # First attempt to serve request as file, then  
    # as directory, then fall back to displaying a 404.  
    try_files $uri $uri/ =404;  
}  
location /api {  
    proxy_pass http://127.0.1:8000/api;  
}
```

Restart your nginx server

```
sudo systemctl restart nginx
```

## Step 7:

Copy you html css and js file in /var/www/html folder

```
ubuntu@ip-172-31-8-147:/var/www/html$ cd
ubuntu@ip-172-31-8-147:~$ cd django-notes-app
ubuntu@ip-172-31-8-147:~/django-notes-app$ cd mynotes
ubuntu@ip-172-31-8-147:~/django-notes-app/mynotes$ ls
Dockerfile  build  db.json  package-lock.json  package.json  public  src
ubuntu@ip-172-31-8-147:~/django-notes-app/mynotes$ cd build
ubuntu@ip-172-31-8-147:~/django-notes-app/mynotes/build$ ls
asset-manifest.json  favicon.ico  index.html  logo192.png  logo512.png  manifest.json  robots.txt  static
ubuntu@ip-172-31-8-147:~/django-notes-app/mynotes/build$ sudo cp -r * /var/www/html
ubuntu@ip-172-31-8-147:~/django-notes-app/mynotes/build$
```

## Step 8:

Copy instance public ip and hit in your browser

