

Steps to Deploy a Django Website on AWS EC2

1. Launch an EC2 Instance

1. **Login to AWS Console:** Go to the [AWS EC2 Dashboard](#).
 2. **Launch an Instance:** Choose an Ubuntu AMI (e.g., Ubuntu 22.04 LTS).
 3. **Instance Type:** Select an appropriate type (e.g., `t2.micro` for free tier).
 4. **Key Pair:** Create or select an existing key pair for SSH access.
 5. **Security Group:**
 - Allow **port 22** for SSH.
 - Allow **port 8000** for Django's development server.
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2. SSH Into the Instance

Open your terminal and connect:

bash

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```
ssh -i "your-key.pem" ubuntu@your-ec2-public-ip
```

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3. Install Required Packages

Run the following commands:

bash

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```
sudo apt update
sudo apt upgrade -y
sudo apt install python3-pip python3-venv -y
```

4. Set Up Your Django Project

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Set up a virtual environment:

bash

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```
python3 -m venv venv  
source venv/bin/activate
```

2.

Import project from github:

```
git clone <repo>
```

Install all modules from requirements.txt:

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

3.

Allow public access by editing `myproject/settings.py`:

python

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```
ALLOWED_HOSTS = ['your-ec2-public-ip']
```

4.

Run migrations:

bash

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```
python manage.py migrate
```

5.

5. Run the Django Development Server

Start the server:

bash

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```
python manage.py runserver 0.0.0.0:8000
```

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2. Access the project in your browser at:

vbnet

Copy code

```
http://your-ec2-public-ip:8000
```

Use **authbind** for Binding to Privileged Ports (Secure Option)

You can configure **authbind** to allow non-root users to bind to privileged ports:

Install **authbind**:

bash

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```
sudo apt-get install authbind
```

1.

Enable your user to bind to port 80:

bash

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```
sudo touch /etc/authbind/byport/80
sudo chmod 500 /etc/authbind/byport/80
sudo chown $USER /etc/authbind/byport/80
```

2.

Run your server with **authbind**:

bash

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```
authbind --deep python manage.py runserver 0.0.0.0:80
```