### **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](https://aws.amazon.com/ec2/).
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.

### **2. SSH Into the Instance**

Open your terminal and connect:  
bash  
Copy code  
ssh -i "your-key.pem" ubuntu@your-ec2-public-ip

### **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**

Set up a virtual environment:  
bash  
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python3 -m venv venv

source venv/bin/activate

Import project from github:  
git clone <repo>

Install all modules from requirements.txt:  
pip install -r requirements.txt

Allow public access by editing myproject/settings.py:  
python  
Copy code  
ALLOWED\_HOSTS = ['your-ec2-public-ip']

Run migrations:  
bash  
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python manage.py migrate

### **5. Run the Django Development Server**

Start the server:  
bash  
Copy code  
python manage.py runserver 0.0.0.0:8000

1. 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

Enable your user to bind to port 80:  
bash  
Copy code  
sudo touch /etc/authbind/byport/80

sudo chmod 500 /etc/authbind/byport/80

sudo chown $USER /etc/authbind/byport/80

Run your server with authbind:  
bash  
Copy code  
authbind --deep python manage.py runserver 0.0.0.0:80