Deploying a Django Todo App on AWS EC2

Overview

This guide explains how I deployed a Django-based Todo application on an **AWS EC2 instance** using the official tutorial by [Yeshwanth](#) and the GitHub repo [yeshwanthlm/django-on-ec2](#). It covers the full setup without using EC2 Instance Connect.

Prerequisites

- AWS account
- Basic knowledge of Django and terminal commands
- Familiarity with the EC2 dashboard

Step-by-Step Deployment

1. Launch EC2 Instance (Ubuntu)

- Go to **EC2 Dashboard → Launch Instance**
- Select:
  - Name: Instance1
  - AMI: **Ubuntu Server 22.04 LTS**
  - Instance type: t2.micro (Free Tier eligible)
  - Key Pair: **Proceed without the key pair**
    (For testing only — not recommended for production)
- Configure a **Security Group** to allow:
  - SSH (port 22) — for EC2 Instance Connect
  - HTTP (port 80) — optional
  - Custom TCP (port **8000**) — required for Django dev server
- Click **Launch Instance**

2. Connect via EC2 Instance Connect

- Go to Instances → Select your instance → Connect
- Choose EC2 Instance Connect → Connect

3. Update and Install Dependencies

- sudo apt update
- sudo apt install python3-pip git -y

4. Clone the Django Project

- git clone https://github.com/yeshwanthlm/django-on-ec2.git
- cd django-on-ec2

5. Set Up Virtual Environment (Best Practice)

- sudo apt install python3-venv -y
- python3 -m venv venv
- source venv/bin/activate

6. Install Django

- pip install django

7. Run Migrations

- python3 manage.py makemigrations
- python3 manage.py migrate

8. Create Admin User (Optional)

- python3 manage.py createsuperuser

9. Run the Server

- python3 manage.py runserver 0.0.0.0:8000

10. Access Your App in a Browser

http://<your-ec2-public-ip>:8000

References

- **YouTube Tutorial: Django on EC2**
- **GitHub Repo: yeshwanthlm/django-on-ec2**