

CyberSec Monitor 360 — Deployment Manual (Windows)

Goal

Run the SOC dashboard locally on localhost, including real-time alerts/cases and the async log generator.

Prerequisites

Python 3.10+ recommended and **Git** (optional).

If you only have IDLE, that's fine — open **CMD** or **PowerShell** for commands.

Step-by-step installation

1) Unzip the submission ZIP and open the project folder **cybersec_monitor360_django**.

2) Create and activate a virtual environment:

CMD	Commands
Create venv	<code>python -m venv .venv</code>
Activate	<code>.venv\Scripts\activate</code>
Upgrade pip	<code>python -m pip install --upgrade pip</code>
Install deps	<code>pip install -r requirements.txt</code>

3) Initialize database and seed demo data:

<code>python manage.py migrate</code>
<code>python manage.py seed_demo_data</code>
<code>python manage.py createsuperuser</code> (optional: admin panel)

4) Run the server (ASGI) and open the UI:

<code>pip install daphne</code>
<code>daphne -p 8000 config.asgi:application</code>
Open: <code>http://127.0.0.1:8000/</code>

5) In a second terminal, run the async log generator:

<code>python manage.py run_log_generator --interval 2.0</code>
(optional) send exactly 75 events: <code>python manage.py run_log_generator --count 75 --interval 0.2</code>

How to use the system

- Dashboard shows severity % for today, last scan timer, event timeline, threat map, incident types.
- Click an incident type chart bar to open Cases filtered by that type.
- Open a case to edit fields (status/verdict/description), toggle tasks, and simulate dispatch to Telegram/SIEM.

Troubleshooting

Port 8000 busy: change to 8001 (daphne -p 8001 ...).

WebSocket offline: ensure you started via **daphne** (not python manage.py runserver).

Generator can't connect: start server first; check URL <http://127.0.0.1:8000/api/ingest/>.