To use this **Streamlit production setup** on an **Ubuntu machine**, follow these step-by-step instructions:

**🐧 How to Deploy Streamlit with Docker & Nginx on Ubuntu**

**✅ 1. Install Required Packages**

Open your terminal and install:

sudo apt update

sudo apt install docker.io docker-compose -y

Enable Docker to start on boot:

sudo systemctl enable docker

sudo usermod -aG docker $USER

⚠️ **Log out and log in again** (or run newgrp docker) to apply group changes.

**✅ 2. Download the Project Files**

1. Move to your project directory:

mkdir ~/streamlit\_app && cd ~/streamlit\_app

1. Download and unzip the file you got above:
   * If you're using a browser: [Download ZIP](sandbox://mnt/data/streamlit_production_app.zip), then move it to Ubuntu.
   * Or download via command line:

wget https://chat.openai.com/sandbox/mnt/data/streamlit\_production\_app.zip

unzip streamlit\_production\_app.zip

**✅ 3. Build & Run the App**

In the streamlit\_app folder:

docker-compose up --build

* This builds your Streamlit Docker image
* Starts both streamlit and nginx containers

**✅ 4. Access Your App**

Open your browser and go to:

http://localhost

If deploying on a remote Ubuntu server, replace localhost with the server's IP or domain:

http://your-server-ip

**✅ 5. Make it Persistent / Background Mode**

Run in detached mode:

docker-compose up -d

To view logs:

docker-compose logs -f

To stop the app:

docker-compose down

**✅ 6. (Optional) Add HTTPS with Let's Encrypt**

If you're using a domain:

1. Install **Certbot**
2. Configure **Nginx** for SSL
3. Use certbot to install and manage certificates.

Let me know if you want this part added too.

**🧪 Verify Everything**

You can check running containers:

docker ps

Would you like me to also include:

* 🔒 HTTPS (Let's Encrypt setup)?
* 👤 Basic login with Streamlit Authenticator?
* ☁️ Steps for cloud deployment (like AWS or DigitalOcean)?

Let me know what’s next!