

AI-03099 OpenEMR Docker

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Tags	Project
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Create a docker compose file for OpenEMR and include NGINX NPM, phpmyadmin
Information:

Directory: `/home/dockerlab/` (persist all volumes and data in the respective service folders)

Network: `inventree_network` bridge

Hostdb: `mariadb`

`db_name`: `openemr`

`db_user`: `openemr_user`

`db_password`: `SecurePassword!`

Below is a **complete Docker Compose setup** for deploying **OpenEMR + MariaDB + NGINX Proxy Manager (NPM)** with persistent storage inside `/home/dockerlab/openemr` and using the `inventree_network` bridge network.

✓ Folder Structure (Filesystem Layout)

```
/home/dockerlab/openemr/  
├── docker-compose.yml  
├── mariadb/  
│   └── data/  
├── openemr/  
│   ├── sites/  
│   └── documents/  
└── nginx-npm/  
    ├── data/  
    └── letsencrypt/
```

✓ docker-compose.yml

```
version: "3.8"
```

```
services:
```

```
  mariadb:
```

```
    image: mariadb:10.6
```

```
    container_name: mariadb
```

```
    restart: always
```

```
    environment:
```

```
      MYSQL_ROOT_PASSWORD: SecurePassword!
```

```
      MYSQL_DATABASE: openemr
```

```
      MYSQL_USER: openemr_user
```

```
      MYSQL_PASSWORD: SecurePassword!
```

```
  volumes:
```

```
    - /home/dockerlab/mariadb:/var/lib/mysql
```

```
  networks:
```

```
    - inventree_network
```

```
  openemr:
```

```
    image: openemr/openemr:latest
```

```
    container_name: openemr
```

```
    restart: always
```

```
    environment:
```

```
      OE_SITES_ACTIVE: default
```

```
      MYSQL_HOST: mariadb
```

```
      MYSQL_DATABASE: openemr
```

```
      MYSQL_USER: openemr_user
```

```
      MYSQL_PASS: SecurePassword!
```

```
  depends_on:
```

```
    - mariadb
```

```
  volumes:
```

```
    - /home/dockerlab/openemr:/var/www/localhost/htdocs/openemr
```

```
  networks:
```

```
    - inventree_network
```

phpmyadmin:

image: phpmyadmin/phpmyadmin

container_name: phpmyadmin

restart: always

environment:

PMA_HOST: mariadb

PMA_USER: openemr_user

PMA_PASSWORD: SecurePassword!

ports:

- "8081:80"

depends_on:

- mariadb

volumes:

- /home/dockerlab/phpmyadmin:/sessions

networks:

- inventree_network

npm:

image: jc21/nginx-proxy-manager:latest

container_name: npm

restart: always

ports:

- "80:80" # Public HTTP

- "81:81" # Admin UI

- "443:443" # Public HTTPS

volumes:

- /home/dockerlab/npm/data:/data

- /home/dockerlab/npm/letsencrypt:/etc/letsencrypt

networks:

- inventree_network

networks:

inventree_network:

driver: bridge

✓ How to Deploy

1. Create network if it doesn't exist

```
docker network create inventree_network
```

2. Create directories

```
mkdir -p /home/dockerlab/openemr/{mariadb/data,openemr/sites,openemr/documents,nginx-npm/data,nginx-npm/letsencrypt}
```

3. Start containers

```
cd /home/dockerlab/openemr
docker compose up -d
```

✓ Access Information

Service	URL / Port	Notes
OpenEMR	http://SERVER_IP	After setting via NPM
NGINX Proxy Mgr	http://SERVER_IP:81	Default admin login:
		Email: <code>admin@example.com</code>
		Password: <code>changeme</code>
MariaDB	Internal only	Hostname: <code>mariadb</code>

✓ Next Step – Configure Reverse Proxy for OpenEMR

In NGINX NPM dashboard:

1. Go to **Proxy Hosts** → **Add Proxy Host**
2. Domain: `yourdomain.com`
3. Forward Hostname / IP: `openemr`
4. Forward Port: `80`
5. Enable **Websockets**, **Force SSL** if using HTTPS.

 **Do you want:**

- Auto HTTPS with Let's Encrypt?
- NGINX custom config for OpenEMR?
- Adminer/PhpMyAdmin access to MariaDB?

Just let me know and I'll add it instantly.