

# MyRealtor – Production Operations Playbook

This document is the **single source of truth** for running MyRealtor safely on a VPS using **Docker + Traefik**.

It is written to ensure: - predictable recovery after VPS reboot - no more port 80/443 conflicts - Traefik remains the sole public entrypoint - zero data loss

---

## 1. Final Expected Architecture (DO NOT DEVIATE)

```
Internet
  ↓
Traefik (ports 80/443 ONLY)
  ↓ Docker network: root_default
-----
frontend (no host ports)
api       (no host ports)
mongo     (internal network only)
```

**Hard rules:** - Only Traefik binds host ports - App containers NEVER expose ports - Mongo is never public

---

## 2. Canonical Folder Layout

```
/apps
├── traefik
│   ├── docker-compose.yml
│   └── letsencrypt/
│       └── acme.json
└── myrealtor
    ├── deploy
    └── docker-compose.yml
```

## 3. Docker Networks (Critical)

**External network required by Traefik + app stack**

```
docker network create root_default
```

Verify:

```
docker network ls | grep root_default
```

---

## 4. Traefik Rules (Non-Negotiable)

- Traefik **starts first**
- Traefik is attached to `root_default`
- Traefik is the **ONLY** container allowed to bind 80/443
- `acme.json` exists and is `chmod 600`

```
chmod 600 /apps/traefik/letsencrypt/acme.json
```

---

## 5. Correct Startup Order (Manual)

```
cd /apps/traefik
docker compose up -d

cd /apps/myrealtor/deploy
docker compose up -d
```

---

## 6. Systemd Auto-Start (REQUIRED FOR REBOOTS)

Create systemd unit:

```
sudo nano /etc/systemd/system/myrealtor-stack.service
```

```
[Unit]
Description=MyRealtor Full Stack (Traefik + App)
After=docker.service
Requires=docker.service

[Service]
Type=oneshot
RemainAfterExit=yes
WorkingDirectory=/apps/traefik
ExecStart=/usr/bin/docker compose up -d
```

```
ExecStartPost=/bin/bash -c 'cd /apps/myrealtor/deploy && /usr/bin/docker compose up -d'
ExecStop=/bin/bash -c 'cd /apps/myrealtor/deploy && /usr/bin/docker compose down'
ExecStopPost=/bin/bash -c 'cd /apps/traefik && /usr/bin/docker compose down'
TimeoutStartSec=0

[Install]
WantedBy=multi-user.target
```

Enable it:

```
sudo systemctl daemon-reload
sudo systemctl enable myrealtor-stack
sudo systemctl start myrealtor-stack
```

Verify:

```
systemctl status myrealtor-stack
```

---

## 7. One-Command Health Check

```
echo "=== HOST PORTS ==="
&& sudo ss -ltnp | grep -E ':(80|443)\s'
&& echo "=== CONTAINERS ==="
&& docker ps --format "table {{.Names}}\t{{.Status}}\t{{.Ports}}"
&& echo "=== NETWORK ==="
&& docker network ls | grep root_default
```

Expected: - Traefik owns 80/443 - frontend/api show NO ports

---

## 8. Disaster Recovery (Fast Path)

```
sudo systemctl restart myrealtor-stack
```

If that fails:

```
sudo systemctl restart docker
cd /apps/traefik && docker compose up -d
cd /apps/myrealtor/deploy && docker compose up -d
```

---

## 9. TLS Recovery (Last Resort Only)

```
cd /apps/traefik
rm -f letsencrypt/acme.json
touch letsencrypt/acme.json
chmod 600 letsencrypt/acme.json
docker compose restart
```

---

## 10. Forbidden Production Actions

✗ docker system prune -a ✗ docker network prune ✗ exposing ports in app containers ✗ running multiple reverse proxies

---

## 11. Backup Requirements

Back up weekly: - /apps/traefik - /apps/myrealtor - Docker volumes: - mongo\_data - uploads\_data

---

## 12. Final Status

✓ Reboot-safe ✓ Deterministic startup ✓ TLS auto-renewing ✓ Traefik-first architecture

*Last validated: Jan 2026*