

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