Self-Hosted Enterprise CRM Docker Stack

Stop bleeding $200+/month per seat on commercial SaaS CRMs. This zero-maintenance production Docker Compose stack provides full customer relational data ownership, automated database backups, and bank-grade zero-trust edge protection.

⚡ VERIFIED PRODUCTION STACK | 💬 LEAD TRIGGER: "CRM" | 🚀 VELOCITY: 10X LEVERAGE | 🔒 ZERO OPEN PORTS

$0/mo	100%	2.4ms	0 Ports
RECURRING LICENSE FEES	CUSTOMER DATA OWNERSHIP	LOCAL QUERY LATENCY	INBOUND ATTACK SURFACE

🐋 1. Multi-Container Stack

DOCKER COMPOSE

- Twenty CRM / SuiteCRM: Modern reactive client with custom sales funnels.
- PostgreSQL 16 Engine: Robust relational storage with automated indexing.
- Redis Cache: Sub-millisecond queue processing and user session storage.

🔒 2. Zero-Trust Gateway

CLOUDFLARE TUNNELS

- Encrypted Outbound Tunnel: Eliminates open port 80/443 public exposure.
- Access Management: Hardened with hardware key 2FA or Google Workspace SSO.
- DDoS Mitigation: Enterprise edge protection with automated TLS certificates.

💾 3. Automated Snapshots

RESTIC BACKUP

- Daily WAL Archiving: Continuous Postgres point-in-time recovery support.
- Encrypted Offsite Vault: Encrypted backup sync to cold S3/B2 storage.
- Zero-Downtime Restores: Verified disaster recovery test via single command.

⚡ 4. Sovereign Margins

ENTERPRISE FREEDOM

- Permanent CapEx: Run indefinitely on a single $400 mini-PC home server.
- Zero Seat Penalties: Scale to 50+ team members without paying a cent more.
- Portable Backups: Migrate anytime across bare metal, VPS, or homelabs.

📋 4-Phase Implementation Pipeline

PHASE 01
Compose Scaffold
Configure docker-compose.yml and lock secure .env secrets.

PHASE 02
Database Seed
Initialize PostgreSQL 16 schema and run migration scripts.

PHASE 03
Zero-Port Tunnel
Bind internal CRM service to private Cloudflare tunnel.

PHASE 04
Automated Backup
Schedule nightly Restic snapshots with Discord alerts.

bash — agy-dev-env — crm-blueprint — LIVE TERMINAL

```
# 1. Download & deploy official verified Ghannams Academy CRM stack
$ bash -c "$(curl -sSL https://ghannamsacademy.com/scripts/setup_docker_crm.sh)"
# 2. Inspect running containers and logs
$ cd ~/dockerApps/crm && docker compose ps
# 3. Route zero-trust edge domain with zero public firewall ports
$ cloudflared tunnel run crm-production
```

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🤖

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🔒

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PERMANENT MARGINS

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