# Tenant–Landlord Marketplace — Structure & Ops (README v1.1)

Project: Tenant–Landlord Marketplace

Environment: Synology NAS (shared with WattSun)

Primary Domain: https://boma.wattsun.co.ke

Date: October 2025

Status: Dev + Infra merged baseline ready

Version: 1.1 (Primary Reference Document; supersedes earlier ops/deployment docs)

## 1. Overview

This repository defines the core runtime, folder structure, database layer, deployment, and ops practices for the Marketplace platform. It merges the approved Marketplace-Deployment-Plan v1.0 with the S0-T1 Structure & Ops baseline.

### Architecture Layers

|  |  |  |
| --- | --- | --- |
| Layer | Technology | Purpose |
| Marketplace | Cocorico (PHP / Symfony) | Listings + applications |
| Property Ops | Condo (Node.js / Express) | Leases, tenants, maintenance |
| Billing | Kill Bill (Java) | Invoicing + payments |
| Connector | Node.js microservice | Data bridge and API hub |
| Persistence | PostgreSQL + Redis | Database + queue/cache |

## 2. Repository Layout

tenant-landlord-marketplace/  
├── connector/ # Node.js Connector service (dev-first target)  
│ ├── server.js  
│ ├── routes/  
│ ├── db.js  
│ ├── scripts/  
│ ├── public/  
│ └── package.json  
├── condo/ # Property-Ops service (future)  
├── cocorico/ # Marketplace web frontend (PHP/Symfony)  
├── killbill/ # Billing engine container (Java)  
├── postgres/ # Data volume / init scripts  
├── redis/ # Cache / job queue  
├── scripts/  
│ ├── start\_all.sh  
│ ├── stop\_all.sh  
│ ├── backup\_postgres.sh  
│ ├── healthcheck.sh  
│ └── logs/  
├── data/dev/  
├── logs/  
├── run/  
├── docs/  
│ ├── FRD\_Tenant\_Landlord\_Marketplace\_Complete\_v0.2.docx  
│ ├── FRD\_Illustrated\_vFinal.pdf  
│ └── Marketplace-Deployment-Plan\_v1.0.md  
└── docker-compose.yml

## 3. Runtime Configuration

### 3.1 Environment Variables (.env Example)

# Domain + ports  
DOMAIN=https://boma.wattsun.co.ke  
PORT\_CONNECTOR=3101  
PORT\_CONDO=3102  
PORT\_KILLBILL=3103  
PORT\_COCORICO=3104  
  
# Database  
DB\_ENGINE=sqlite # or postgres  
DB\_PATH=./data/dev/marketplace.dev.db  
POSTGRES\_DB=marketplace  
POSTGRES\_USER=marketuser  
POSTGRES\_PASSWORD=strongpassword  
POSTGRES\_HOST=postgres  
MIGRATIONS\_DIR=./scripts/sql  
  
# Redis  
REDIS\_URL=redis://redis:6379  
  
# Secrets  
SESSION\_SECRET=change-me-please-32chars

Local Dev (S0–S1): Connector on port 3101; SQLite at data/dev/marketplace.dev.db.

NAS Deploy (post S0–T3): Docker Compose with Postgres/Redis and Cloudflare Tunnel path routing.

## 4. Infrastructure Architecture

/volume1/web/marketplace/  
├── docker-compose.yml  
├── connector/  
├── condo/  
├── cocorico/  
├── killbill/  
├── postgres/  
├── redis/  
└── scripts/

### 4.1 Network Diagram (Mermaid placeholder)

graph TD  
 CF[Cloudflare Tunnel (HTTPS Proxy)]  
 A[Connector Service] -->|REST| B[(PostgreSQL)]  
 A --> C[(Redis)]  
 D[Cocorico] --> A  
 E[Condo] --> A  
 F[Kill Bill] --> A  
 CF --> D  
 CF --> E  
 CF --> F  
 CF --> A

## 5. Deployment & Proxy Strategy

Unified domain: https://boma.wattsun.co.ke

/api/connector/\* → Connector (3101)  
/condo/\* → Condo (3102)  
/billing/\* → Kill Bill (3103)  
/cocorico/\* → Marketplace Frontend (3104)

### 5.2 Cloudflare Tunnel Config

tunnel: wattsun-prod  
credentials-file: /etc/cloudflared/wattsun.json  
ingress:  
 - hostname: boma.wattsun.co.ke  
 service: http://localhost:3104  
 - hostname: boma.wattsun.co.ke  
 path: /api/\*  
 service: http://localhost:3101  
 - hostname: boma.wattsun.co.ke  
 path: /condo/\*  
 service: http://localhost:3102  
 - hostname: boma.wattsun.co.ke  
 path: /billing/\*  
 service: http://localhost:3103  
 - service: http\_status:404

Restart the tunnel: sudo docker restart cloudflared

## 6. Database Bootstrap & Migrations

Local Dev (S0–S1): SQLite at data/dev/marketplace.dev.db; run scripts/migrate.sh; db.js uses better-sqlite3.

Production (Post-S1): PostgreSQL 16 via Docker Compose; migrations tracked in migrations table; backups via backup\_postgres.sh; set DB\_ENGINE=postgres.

## 7. Health Checks & Monitoring

{  
 "ok": true,  
 "uptime": 320,  
 "db": { "connected": true, "migrations": ["2025-10-05\_init.sql"] },  
 "redis": { "ok": false }  
}

Plan NAS polling/alerts later (email/webhook).

## 8. Ops Scripts (Summary)

|  |  |
| --- | --- |
| Script | Purpose |
| scripts/start.sh | Launch connector service |
| scripts/stop.sh | Gracefully stop service |
| scripts/status.sh | Show PID status |
| scripts/update.sh | Git pull + restart |
| scripts/migrate.sh | Apply SQL migrations |
| scripts/backup\_sqlite.sh | Local SQLite backup |
| scripts/start\_all.sh | Compose-based multi-service start |
| scripts/backup\_postgres.sh | Dump PostgreSQL DB |
| scripts/healthcheck.sh | Curl /api/health and log result |

## 9. Backup & Auto-Start

DSM Task Scheduler: On Boot → root → /volume1/web/marketplace/scripts/start\_all.sh

bash scripts/backup\_postgres.sh  
# → /volume1/backups/marketplace\_YYYYMMDD-HHMM.sql

## 10. Update & Rollback

# Update  
git pull  
docker compose build  
docker compose up -d  
  
# Rollback  
docker compose down  
git checkout <last\_good\_commit>  
docker compose up -d

## 11. Definition of Done (Infra Baseline)

✅ Cloudflare Tunnel active → boma.wattsun.co.ke

✅ PostgreSQL + Redis containers operational

✅ Connector responds to /api/health

✅ Cocorico + Condo reachable under paths

✅ Kill Bill UI accessible

✅ Admin login functional on Cocorico

## 12. Licensing & Compliance Summary

|  |  |  |  |
| --- | --- | --- | --- |
| Component | License | Type | Note |
| Cocorico | MIT | Open Source | Rental/service marketplace |
| Condo | MIT / Apache 2.0 | Open Source | Property management |
| Kill Bill | Apache 2.0 | Open Source | Billing engine |
| PostgreSQL | PostgreSQL License | Open Source | Core DB |
| Redis | BSD 3-Clause | Open Source | Cache + queue |
| Node.js | MIT | Open Source | Connector runtime |
| Docker | Apache 2.0 | Open Source | Infra engine |
| Cloudflare | Proprietary (free) | Service | Routing only |
| Synology | Proprietary | Appliance | Existing hardware |

## 13. Roadmap Bridge (S0 → S1)

|  |  |  |
| --- | --- | --- |
| Sprint | Focus | Key Deliverables |
| S0-T1 | Repo skeleton + health endpoint | Completed |
| S0-T2 | DB bootstrap + migrations integration | /db.js, /scripts/sql, health db info |
| S0-T3 | Docker Compose bring-up | Postgres + Redis online |
| S1-T1 | Connector API v1 (users + leases) | CRUD + auth bridge |
| S1-T2 | Condo integration | Auth + data sync |

## 14. Quick Start (Dev Mode)

cp .env.example .env  
npm install  
./scripts/migrate.sh  
./scripts/start.sh  
# → http://127.0.0.1:3101/api/health

End of Marketplace-Structure-and-Ops-README v1.1 (Primary Reference)