

ZT4
PLATFORM

FOR BROKERS

Broker Operations Guide

Run your brokerage on the ZT4 Platform.
Server · Admin · Manager.

1. Welcome, Broker

The ZT4 Platform gives you a complete brokerage operation in a box: a MetaTrader-compatible trading server, an admin portal for your back-office team, and a manager console for dealers. Everything runs in Docker on a single server you control.

This guide is for the **brokerage operator** — the team running a ZT4 server for retail clients. It covers what the Server, Admin Panel and Manager Panel each do, and how they fit together.

Your server, your data

One server = one broker. Your server has a unique **Instance UID** — that's the licensing key the platform uses to track your subscription, regardless of how many accounts or symbols you run.

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3. Trading server — what it does

The core server is a .NET 7 / ASP.NET service that exposes a REST + SignalR API compatible with the MetaTrader protocol your clients expect. It handles:







- Account auth (JWT + refresh + optional TOTP 2FA).
- Order placement / modify / close / pending triggers / SL+TP / trailing stops.
- Real-time quote distribution via SignalR (1 hub per concern).
- Margin, equity, free margin, drawdown and stop-out monitoring.
- Bar building across 9 timeframes (M1 → MN).
- Swap calculation, commission, balance operations.
- News + push notifications (APNs / FCM).

License enforcement

Trading, deposits and withdrawals are gated by your **broker license**. When the license lapses, the server returns HTTP 423 on every trade or balance request until you renew — quotes and reporting keep flowing.

4. Admin Panel

Browser-based portal for your operations team. Open <http://your-server:8091> and sign in with the system admin account.

<p> Accounts</p> <p>Search, create, edit, disable, password-reset every trader.</p>	<p> Symbols</p> <p>Add and edit symbols; halt / unhalt; spread, swap, contract size.</p>
<p> Groups</p> <p>Per-group leverage, margin call, stop-out, currency, demo-flag.</p>	<p> Balance approvals</p> <p>Review pending deposits / withdrawals; approve or reject with reason.</p>
<p> Reports</p> <p>Daily PnL, per-symbol, per-account KPIs with CSV exports.</p>	<p> Broadcast</p> <p>Send a banner / popup to all accounts or a single group.</p>



Data feeds + Gateways + Routing

Configure where prices come from and where trades route.



License tab

Register your broker, edit profile + logo, buy plans.

5. Manager Panel

Dealer-facing console at <http://your-server:8092>. Optimised for the team watching positions and dealing on the desk.

- **Live positions** across all accounts with PnL totals.
- **Account drilldown**: open orders, history, deposits, group, equity.
- **Quotes**: tradable symbol table with live bid/ask and last-tick time.
- **Charts**: any symbol, any timeframe — same engine as the trader sees.
- **Reports**: daily summary, per-symbol exposure, account KPIs.
- **News CRUD**: publish and schedule broker news directly to clients.

6. Multi-broker / licensing flow

Your server is one tenant on the ZT4 Platform. The license itself lives on the platform-owner side (the SuperAdmin master); your server keeps the keys.

- On first boot, the server generates a stable **ServerInstance UID** (GUID).
- From the Admin Panel → License tab, you **register your broker** (name, slug, country, logo, contact).
- Pick a **plan** from the catalog (default seed: *Basic 1-Month*, \$1 USD / 30 days).
- Click **Confirm** on the stub payment — license extends immediately.
- When the license expires, traders see a banner; trading and balance ops return HTTP 423 until you renew.

Self-service renewals

All renewals are visible to you in the License tab's **Purchase history**. The SuperAdmin team can also extend manually for support situations.

7. Data feeds & gateways

Decouple where prices come from and where trades execute:

- **DataFeeds** (Admin Panel): Simulator (built-in), Binance bookTicker, REST poller, Manual, plugin-provided.
- **Gateways**: Internal (self-fill), Mock (configurable slippage), FIX 4.4 (stub), plugin-provided.
- **SymbolRouting**: per-symbol Automatic / Specific / Filter routing rules.
- Every trade and pending-trigger routes through the resolved gateway — counters auto-increment so you can see throughput per gateway.

8. Plugins

Extend your server without forking it. Upload a packaged plugin (DataFeed or Gateway) via Admin Panel → Plugins. The server hot-loads it on boot.

- Ships with **Coinbase**, **BinanceTestnet** and **Echo** sample plugins.
- Plugin folder is volume-mounted on the host (/opt/mt4-platform/plugins) — survives image rebuilds.
- Each plugin declares its TypeKey, version, author, kind (DataFeed / Gateway) and exposes a factory.
- Plugin-provided types appear in the DataFeed / Gateway create form alongside the built-ins.

9. Reporting & observability

- Built-in **Prometheus** exporter (/metrics) with HTTP, trading, gateway and feed metrics.
- **Grafana** dashboards pre-provisioned (http://your-server:3001).
- Per-account, per-symbol and daily-PnL **CSV exports** from Reports.
- Structured logs to stdout — pipe into your favourite log aggregator.
- Health endpoints on the server for uptime monitors.

10. Deployment & ops

Everything ships as Docker images. A docker-compose file pulls and runs the entire stack on a single VPS in under five minutes.

- **Postgres + Redis** persistent volumes — data survives rebuilds.
- **Server, Web, Admin, Manager, SuperAdmin** panels each a separate image, each on its own port.
- **Prometheus + Grafana** bundled for monitoring.
- **Plugins** and **uploads** directories are host-mounted so customisations persist across image bumps.
- Migrations run automatically on boot — no manual schema work.

11. Security & compliance

- **Bcrypt** password hashing for accounts and SuperAdmin users.
- **JWT** access + refresh tokens; refresh tokens revoke on logout.
- Per-IP **rate limiting** on auth endpoints; per-user limits on the API.
- **CORS** allowlist configurable in appsettings.json.
- **HTTPS** termination via nginx in production.
- **License-aware audit log**: every trade carries the broker context for compliance review.

12. Getting started

- Provision a Linux VPS (4 vCPU / 8 GB RAM recommended; we run on Vultr).
- Clone the deploy compose, set POSTGRES_PASSWORD + JWT_KEY in the environment.
- docker compose -f deploy/docker-compose.prod.yml up -d.
- Open the AdminPanel, sign in with the seeded admin (login 1 / Password123), and register your broker.
- Buy a plan, upload your logo, share the WebTerminal URL with your clients.

Support

Stuck? Email support@mt4platform.local with your Server Instance UID. We can extend your license, recover passwords or push a plugin update directly.