

# Vectix Foundry

Enterprise AI Trading Agents on Solana

Secure wallet infrastructure, real-time monitoring, and US regulatory-aligned controls. Built on ElizaOS.

[vectixfoundry.com](https://vectixfoundry.com)

## What It Is

- ▶ **SaaS platform** — Sign in (Clerk), subscribe (Stripe), create and deploy AI trading agents in one click.
- ▶ **Per-agent Solana wallets** — Generated and encrypted by the backend; agents trade on Solana; platform handles lifecycle (start/stop/restart).
- ▶ **Protective layer** — Pre-trade simulation, shadow mode, MEV protection, token security, and on-chain verification for transparent, auditable decisions.

## Core Capabilities

- ▶ **AI agent deployment** — ElizaOS agents with custom configs; backend creates the machine and injects encrypted secrets and wallet.
- ▶ **Secure wallets** — AES-256-GCM, PBKDF2 (600K iterations); no raw private keys in the frontend.
- ▶ **Trading & safety** — MEV protection, preflight simulation, supervisor rules, optional TEE (Phala).
- ▶ **Shadow mode** — Paper trading with live data to validate strategies before going live.
- ▶ **Strategy marketplace** — Purchase verified strategies (DeFi, meme, etc.).
- ▶ **Developer API** — REST API with keys, scopes, rate limits, webhooks.
- ▶ **On-chain security** — Audit trail, circuit breakers, multi-sig, time-locks, governance.
- ▶ **Billing** — Stripe subscriptions (Hobby / Pro); deployment gated on active subscription.

## Regulatory-Aligned Controls

Institutional-grade compliance and security so teams can run AI agents in a compliant, auditable way.

### **Auth & identity**

Clerk with NIST 800-63B-style controls; optional account lockout and session handling.

### **Compliance**

FinCEN/BSA-aware flows, OFAC sanctions screening (SDN), AML-style monitoring (velocity, structuring), geo-blocking for sanctioned regions.

### **Token & trading safety**

Token security (RugCheck, DexScreener, GoPlus), preflight simulation, supervisor rules, circuit breakers, audit logging.

### **Secrets & transparency**

API keys and agent secrets encrypted at rest (AES-256-GCM); optional TEE (Phala). Critical security decisions recorded on-chain for verification.

# Tech Stack

## Frontend

Next.js 16   React 19   Tailwind   Clerk   SWR

Landing, dashboard, pricing, docs, agents, marketplace, billing, API keys, security, on-chain.

## Blockchain & agent

Solana   ElizaOS   Docker

## Backend & data

Node / Express   Prisma   PostgreSQL

Auth, subscriptions, agent CRUD, deploy lifecycle, wallets, secrets, Stripe, security services.

## Architecture

- ▶ **Single origin** — Frontend talks only to the backend (e.g. vectixfoundry.com). All calls under /api/\* and /v1/.
- ▶ **Backend** — PostgreSQL (Prisma), Clerk, Stripe; orchestrates Fly/Docker for agents, Solana for wallets; runs security, audit, compliance.
- ▶ **On-chain** — Verification, circuit breakers, multisig, timelock, threat intel in the onchain/ package; used by the backend, not a separate runtime.
- ▶ **Production** — Single VPS with Docker Compose: PostgreSQL, backend, Next.js (standalone), ElizaOS agent(s). Nginx for SSL and routing.

## Main User Flows

- ▶ **Sign up → Subscribe → Create agent** (name, ticker, bio, risk, strategy from marketplace) → **Deploy** (backend creates machine and wallet).
- ▶ **Dashboard** — View agents, start/stop/restart, logs, wallet (balance, withdraw), token launch (if enabled).
- ▶ **API users** — Create API keys (scopes, rate limits), call REST endpoints for agents, market data, trading (auth and subscription enforced).
- ▶ **Security/ops** — On-chain dashboard (circuit breaker, multisig, timelock), audit trail, threat intel; supervisor rules and preflight behavior.

# Vectix Foundry

Institutional AI Trading on Solana

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