

Tech Stack Overview

This document provides a high-level overview of the technologies used across the Finmars Platform.

Backend (Core & Workflow)

- **Language:** Python
 - **Framework:** Django, Django REST Framework (DRF)
 - **Background Tasks:** Celery
 - **Database:** PostgreSQL 15
 - **Caching:** Redis
 - **Message Queue:** RabbitMQ
 - **Authentication:** Keycloak
 - **Runtime:** Gunicorn
 - **Containerization:** Docker, Docker Compose
 - **CI/CD:** GitHub Actions
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Frontend (Vue Portal and Portal)

- **Framework:** Vue 3 / Angular.js
 - **Build Tool:** Vite / Webpack (to confirm)
 - **State Management:** Pinia / Vuex (to confirm)
 - **Routing:** Vue Router
 - **Styling/UI:** CSS/SCSS, TailwindCSS or UI library (to confirm)
 - **HTTP Client:** Axios (likely)
 - **Authentication:** Keycloak integration
 - **Containerization:** Docker
 - **CI/CD:** GitHub Actions
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Shared Practices

- **Environment Variables** via `.env` files
- **Dockerfile-based builds**

- **Automated testing** (pytest for backend, Jest/Vitest/Cypress for frontend — to confirm)

Cloud

- **Kubernetes**
- **AWS S3 / Minio**
- **AWS IAM**
- **Hypervisors (esxi, xcp-ng)**
- **Hashicorp Vault**
- **Pritunl VPN**

Other

- **Ionic Framework**
- **git (github, gitlab)**
- **Wordpress**
- **Storybook**
- **Cypress**
- **Jira/Confluence**
- **Various integrations (bloomberg, exante, eod, etc.)**

License

- **EUPL-1.2**

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