Architecture Framework
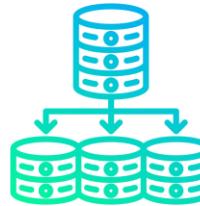
Secure & Resilient by Design

Isolated Application Core: Our user-facing application is completely decoupled from external data sources, ensuring a secure perimeter and a seamless user experience.

Automated High Availability: The platform runs on an active-passive configuration with managed, replicated database services. This provides **instantaneous, automatic failover** with zero data loss in case of hardware failure.

Comprehensive Disaster Recovery: We maintain a hot-site replica in a separate, in-country data center, combined with **Point-in-Time Recovery (PITR)**. This allows us to restore the entire system to any specific second, neutralizing threats like ransomware or catastrophic data corruption.

Unified Data & Integration Engine

Centralized Data Hub: All supplier data, vetting results, and risk analytics are consolidated into a single, secure Postgres database, creating the ultimate source of truth.

Connect to Anything: Leveraging the powerful orchestration layer, VETTPRO securely integrates with any client system (like **Coupa** or **SAP**) and all major vetting providers (**MIE**, XDS, etc.).

Flexible Deployment Models: VETTPRO can be delivered as a fully managed SaaS solution on **AWS** or **Huawei Cloud**, or deployed and managed by our expert team directly within a client's on-premise or private cloud environment, ensuring data sovereignty.

Event-Driven AI & Insights

Real-Time Intelligence: Our system doesn't wait for batch jobs. The AI engine is triggered instantly by events, such as the arrival of a new vetting report, to provide immediate analysis.

Structured AI Analysis: We transform unstructured reports and complex data into structured JSON objects before enriching them with AI LLM Models, ensuring fast, accurate, and cost-effective insights.

Continuous Learning Loop: Every piece of analysed data—from invoice discrepancies to new vetting results—is fed back into the central database, continuously enriching the supplier profiles and making our predictive risk models smarter over time.

Architecture Design

VETTPRO: The AI-Powered Intelligence Ecosystem