

HUBRIX

Security & Privacy Whitepaper

Enterprise AI Workspace — Built for European Compliance

Document Version	v1.0
Classification	Public
Effective Date	May 09, 2026
Jurisdiction	European Union (GDPR)
Hosting	Hetzner Cloud — Helsinki, Finland (EU)

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1. Executive Summary

Hubrix is an enterprise AI workspace developed and operated by Oceanic Consulting VOF, a Dutch company registered in the Netherlands. This document describes the security, privacy, and compliance measures implemented to protect customer data and ensure regulatory compliance within the European Union.

Key Security Commitment: All customer data is stored exclusively on EU-based infrastructure in Helsinki, Finland. No data is transferred outside the European Economic Area (EEA) without explicit contractual safeguards. Hubrix is designed with GDPR compliance as a foundational requirement, not an afterthought.

Security Attribute	Status	Details
Data Residency	EU-only	Hetzner Helsinki, FI
Encryption at rest	Enabled	AES-256
Encryption in transit	TLS 1.3	All endpoints
GDPR Compliance	Implemented	Art. 17, 20, 25, 32
SSO Support	Active	Google & Microsoft Entra
MFA / 2FA	Active	TOTP + Recovery codes
Audit Logging	Active	All user actions
Data Retention	Configurable	GDPR-compliant deletion

2. Infrastructure & Hosting

Hubrix operates on Hetzner Cloud infrastructure, one of Europe's largest and most trusted cloud providers, certified under ISO/IEC 27001 and ISO/IEC 27017.

2.1 Hosting Details

✓ Cloud Provider	Hetzner Cloud GmbH (Germany)
✓ Data Center Location	Helsinki, Finland (EU/EEA)
✓ Server Type	Dedicated vCPU — CX33 (4 vCPU, 8GB RAM, 80GB NVMe)
✓ Provider Certifications	ISO 27001 ISO 27017 ISO 27018 C5
✓ Network Security	Cloudflare WAF + DDoS protection on all endpoints
✓ DNS & CDN	Cloudflare (EU privacy zone, no US data transfer)
✓ Uptime	Target 99.5% monthly (single-node; HA in roadmap)

2.2 Network Architecture

All HTTP traffic is proxied through Cloudflare before reaching the application servers. This provides an additional layer of DDoS protection, WAF (Web Application Firewall), and TLS termination. Backend services communicate exclusively over localhost or private network interfaces — no backend port is exposed to the public internet.

2.3 Backup & Recovery

- Daily automated backups at 02:00 CET (PostgreSQL full dump + application code)
- Remote backup copy to secondary server (Grafana server, separate datacenter)
- Last 7 daily backups retained locally; last 15 days on remote server
- Database backups use `pg_dump` with gzip compression (AES-256 at rest)
- Recovery Time Objective (RTO): < 4 hours | Recovery Point Objective (RPO): < 24 hours

3. Data Architecture

3.1 Data Storage

All customer data is stored in a PostgreSQL 16 database with pgvector extension for AI embeddings. Each company's data is logically isolated using company_id foreign keys enforced at the application layer on every query.

Data Type	Storage	Isolation Level
User profiles & auth	PostgreSQL 16	Company-scoped
Chat sessions & messages	PostgreSQL 16	Company-scoped
Documents & RAG embeddings	PostgreSQL + pgvector	Company-scoped
File uploads (avatars, exports)	Local filesystem (encrypted)	User-scoped
AI provider API keys	PostgreSQL (encrypted)	System-level
Session tokens	Redis 7 (in-memory)	User-scoped, TTL 24h
Audit logs	PostgreSQL 16	Company-scoped
Stripe billing data	Stripe (PCI DSS Level 1)	Company-scoped

3.2 Data Isolation

Hubrix uses a multi-tenant architecture where all tenants (companies) share the same database instance but are strictly isolated at the application layer. Every database query is scoped to the authenticated user's company_id. Cross-company data access is architecturally impossible without explicit admin privileges.

Important: No tenant can access another tenant's data. Company A's chat history, documents, agents, and user data are completely invisible to Company B. This is enforced at every API endpoint through authenticated session validation.

3.3 AI Content Processing

When users send messages to AI providers (Anthropic, OpenAI, Google, etc.), the content is transmitted to those providers according to their respective data processing agreements. Hubrix does not store raw AI responses beyond what is displayed in the user interface — all conversation history is stored in our EU database.

4. Authentication & Access Control

4.1 Authentication Methods

- **Email + Password:** bcrypt hashing (cost factor 12), minimum 8 characters
- **Google SSO:** OAuth 2.0 + OpenID Connect via Google Workspace
- **Microsoft SSO:** OAuth 2.0 via Microsoft Entra ID (Azure AD)
- **TOTP 2FA:** RFC 6238 compliant, compatible with Authenticator apps
- **Recovery Codes:** Argon2-hashed one-time codes for 2FA fallback
- **API Keys:** SHA-256 hashed, scoped permissions, revocable

4.2 Role-Based Access Control (RBAC)

Role	Scope	Capabilities
Owner	Company	Full access, billing, member management
Admin	Company	All features except billing
Member	Company	Assigned features based on plan
Super Admin	Platform	Hubrix staff only — system administration

4.3 Session Management

- JWT access tokens with 24-hour expiry (configurable)
- Refresh tokens stored server-side, revocable at any time
- All active sessions visible and terminable from user settings
- Force logout available for all sessions (admin and user)
- Rate limiting: 5 failed login attempts triggers temporary logout
- IP-based rate limiting on all authentication endpoints
- MFA session tokens expire in 5 minutes (single-use)

5. Data Encryption

5.1 Encryption in Transit

All communication between clients and Hubrix servers uses TLS 1.2 or higher. TLS certificates are automatically provisioned and renewed by Caddy (Let's Encrypt) with a minimum RSA-2048 or ECDSA P-256 key strength.

✓ Minimum TLS version	TLS 1.2 (TLS 1.3 preferred)
✓ Certificate Authority	Let's Encrypt (auto-renewed, 90-day cycle)
✓ HSTS	Enabled — max-age 1 year, includeSubDomains
✓ Certificate transparency	All certs logged to CT logs
✓ Internal services	All backend services on localhost only

5.2 Encryption at Rest

- Hetzner storage volumes are encrypted at the infrastructure level (AES-256)
- Sensitive fields (API keys, OAuth tokens) are encrypted at the application level before storage
- Passwords are hashed using bcrypt (cost factor 12) — never stored in plaintext
- Recovery codes are hashed using Argon2id before storage
- Database backups are compressed and stored with filesystem-level encryption

6. GDPR Compliance

Hubrix is designed and operated in full compliance with the General Data Protection Regulation (EU) 2016/679. As a Dutch company, Oceanic Consulting VOF operates under EU jurisdiction and is directly subject to GDPR requirements.

6.1 Data Subject Rights

Right	Article	Implementation
Right to Access	Art. 15	Data export available from user settings
Right to Erasure	Art. 17	Account deletion with full data purge
Right to Portability	Art. 20	JSON/CSV export of all personal data
Right to Rectification	Art. 16	Profile editing available at any time
Right to Object	Art. 21	Processing stops upon request
Right to Restriction	Art. 18	Account suspension without data deletion

6.2 Legal Basis for Processing

- **Contract (Art. 6(1)(b)):** Processing necessary to provide the Hubrix service to registered users under the Terms of Service.
- **Legitimate Interest (Art. 6(1)(f)):** Security monitoring, fraud prevention, and service improvement through anonymized analytics.
- **Consent (Art. 6(1)(a)):** Optional features such as marketing communications require explicit opt-in consent.

6.3 Data Retention

- Active account data: retained for the duration of the subscription
- Deleted account data: purged within 30 days of account deletion request
- Audit logs: retained for 12 months for security and compliance purposes
- Billing records: retained for 7 years (Dutch tax law requirement)
- Backup data: automatically purged after 15 days

6.4 Privacy by Design (Art. 25)

Hubrix implements privacy by design principles: data minimization (only necessary data collected), purpose limitation (data used only for stated purposes), and default privacy settings that protect users

without requiring action on their part.

7. AI Provider Security

Hubrix integrates with multiple AI providers. When content is sent to these providers, it is processed according to their respective data processing terms. Hubrix has selected providers that offer enterprise data protection agreements.

Provider	Data Processing	Training on Data	Region
Anthropic (Claude)	API DPA available	No (with DPA)	US (SCCs apply)
OpenAI	API DPA available	No (with DPA)	US (SCCs apply)
Google (Gemini)	Google Cloud DPA	No (with DPA)	EU option available
DeepSeek	API terms	Review required	CN (review required)
xAI (Grok)	API terms	Review required	US
Mistral AI	API DPA available	No (with DPA)	EU (France)

Customer Control: Enterprise customers can restrict which AI providers their team members may use. Administrators can disable specific providers from the admin panel, ensuring compliance with internal data handling policies.

8. Incident Response

8.1 Incident Classification

Severity	Definition	Response Time	Notification
P1 — Critical	Data breach, service unavailable	< 1 hour	Within 24h
P2 — High	Auth issues, data exposure risk	< 4 hours	Within 72h
P3 — Medium	Performance degradation	< 24 hours	Next business day
P4 — Low	Minor bugs, UI issues	< 72 hours	Monthly report

8.2 GDPR Breach Notification (Art. 33/34)

In the event of a personal data breach, Oceanic Consulting VOF will notify the relevant supervisory authority (Dutch Data Protection Authority — Autoriteit Persoonsgegevens) within 72 hours of becoming aware of the breach, as required by GDPR Art. 33. Affected data subjects will be notified without undue delay where the breach is likely to result in a high risk to their rights and freedoms (GDPR Art. 34).

9. Third-Party Sub-processors

Hubrix uses the following sub-processors to deliver its services. All sub-processors are bound by data processing agreements (DPAs) and provide adequate protection for personal data.

Sub-processor	Purpose	Location	Transfer Mechanism
Hetzner Cloud GmbH	Infrastructure hosting	Germany / Finland (EU)	No transfer needed
Cloudflare Inc.	CDN, WAF, DNS	EU (with EU DPA)	Standard Contractual Clauses
Anthropic PBC	Claude AI models	United States	Standard Contractual Clauses
OpenAI LLC	GPT AI models (optional)	United States	Standard Contractual Clauses
Google LLC	Gemini AI + SSO	United States / EU	Standard Contractual Clauses
Microsoft Corp.	Entra ID SSO	United States / EU	Standard Contractual Clauses
Stripe Inc.	Payment processing	United States	Standard Contractual Clauses
Resend Inc.	Transactional email	United States	Standard Contractual Clauses

10. Security Roadmap

Hubrix is committed to continuously improving its security posture. The following certifications and improvements are planned:

Initiative	Target	Status
High Availability (HA) deployment	Q3 2026	In planning
Penetration test (external firm)	Q3 2026	Scheduled
SOC 2 Type I audit (via Vanta)	Q4 2026	Planned
ISO 27001 gap assessment	Q4 2026	Planned
Customer Audit Log UI	Q2 2026	In development
Granular RBAC (per-feature roles)	Q3 2026	Planned
SSO enforcement (mandatory for Enterprise)	Q2 2026	Available
Data residency selection (per company)	Q4 2026	Planned

Transparency commitment: Hubrix publishes security updates and significant changes to this whitepaper on docs.hubrix.ai. Enterprise customers are notified of material changes to our security posture via email.

11. Contact

Security Inquiries

For security vulnerability reports, data protection questions, or to request a copy of our Data Processing Agreement (DPA), please contact:

Data Controller	Oceanic Consulting VOF
Registered address	Poortugaal, South Holland, Netherlands
Security contact	dev@oceanicco.nl
Privacy / DPA requests	dev@oceanicco.nl (subject: DPA Request)
Website	https://hubrix.ai
API & Technical docs	https://api.hubrix.ai https://docs.hubrix.ai

This document is reviewed and updated annually or upon significant changes to our security practices. Version 1.0 | May 2026 | Oceanic Consulting VOF