

Architecture & Technologies

GSPlatform is built on Kubernetes (K8s) and leverages proven open-source technologies for orchestration, monitoring, security and application management.

Its fully cloud-native architecture is based on:

- microservices
- containerization
- declarative configuration (Infrastructure as Code)



Platform Layers

INFRASTRUCTURE PLATFORM

Kubernetes cluster infrastructure

RUNTIME PLATFORM

Core operational services (IAM, APIs, monitoring, storage)

CI/CD PLATFORM

Automated pipelines for build, testing, and deployment

Key Technology Stack

- **Identity & Access Management:** Keycloak
- **API Management:** Kong Gateway
- **Observability:** Prometheus, Elastic Stack, Jaeger, OpenTelemetry
- **Storage & Persistence:** PostgreSQL DBaaS, MinIO, Longhorn, Redis
- **Streaming & Messaging:** Kafka, Kafka Connect, RabbitMQ
- **Security:** HashiCorp Vault, Cert-Manager, runtime vulnerability scanning
- **Workflow Orchestration:** Apache Airflow
- **Networking & DNS:** CoreDNS

Integration & Compatibility

- GitLab as a central system for version control, CI/CD, and access policies
- Helm charts aligned with GitOps workflows
- Support for OCI containers (Docker, containerd, CRI-O)
- Compatible with on-prem, cloud, and hybrid infrastructures
- Native integration with Prometheus, Grafana, and Elastic Stack

Security & Operations

- Centralized access management with Keycloak and GitLab OAuth
- Secure secrets management via HashiCorp Vault (UI, API, CLI)
- Continuous security scanning integrated into CI/CD pipelines (SonarQube, Trivy)
- Encryption of data at rest and in transit
- Built-in self-healing and high availability
- Automated rollouts and rollbacks using Kubernetes deployment strategies



GSPlatform



Do you have more questions?
Talk to our experts.