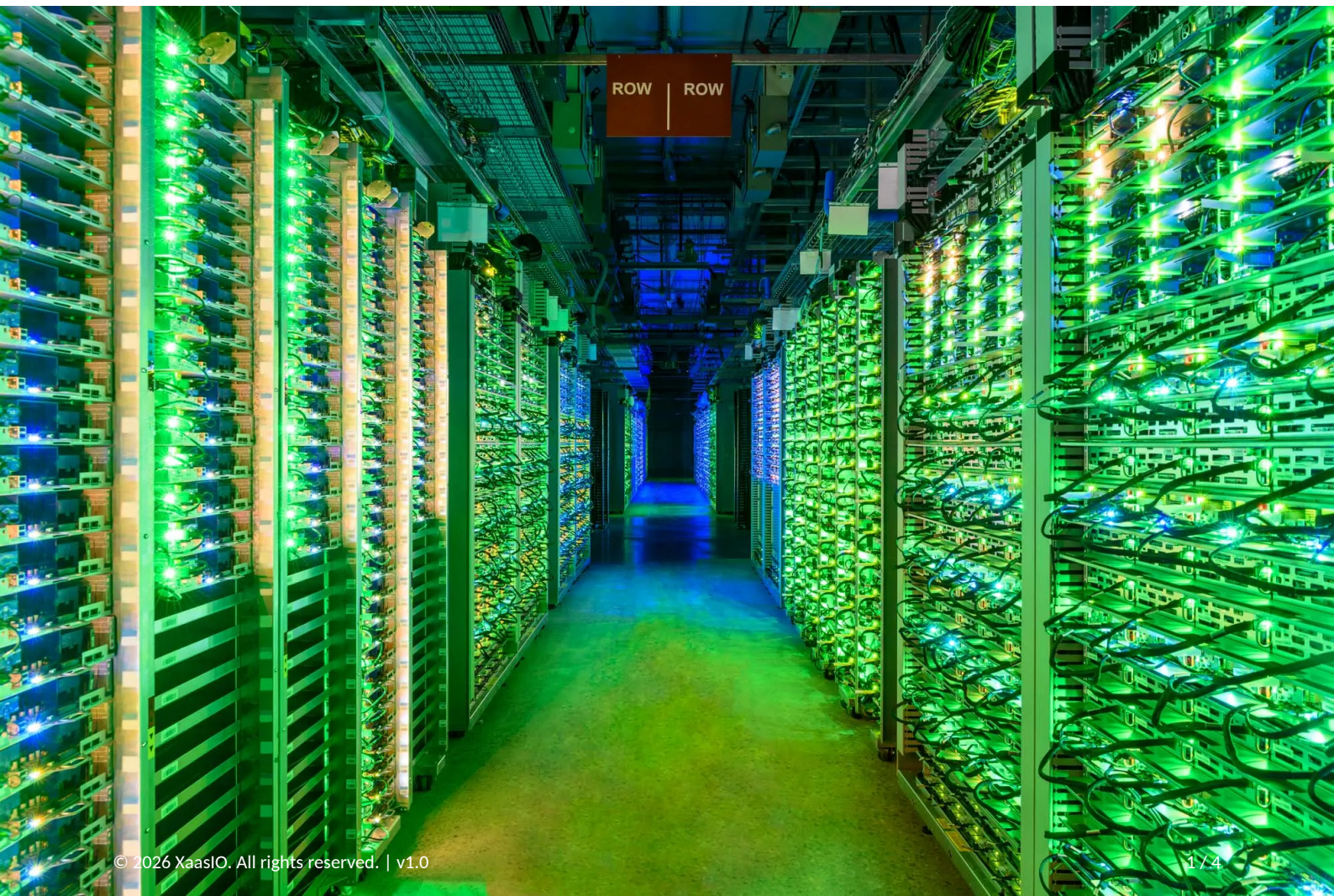
XaasIO Monitoring and Observability

Monitoring, Logging and Telemetry
Built for Private Cloud, Kubernetes and AI

XaasIO MLT brings metrics, synthetic checks, alerts, logs and traces into one operational view. Understand service health and investigate issues across infrastructure and applications, while keeping operational data on infrastructure you control.



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UNIFIED OBSERVABILITY ON YOUR INFRASTRUCTURE

Connect infrastructure health, service availability and application behavior in XaasIO MLT. Give operations and application teams a shared basis for investigation and response.

OBSERVE

Track infrastructure and workload health alongside scheduled endpoint and service checks.

INVESTIGATE

Follow a service issue through metrics, log events and request traces for the same time range.

RESPOND

Group and silence alerts, then route notifications to the team responsible for the service.

SIX CORE OBSERVABILITY CAPABILITIES

Infrastructure and Workload Monitoring

Collect labeled metrics through Prometheus exporters and evaluate alert rules. Retain the long-term stream in VictoriaMetrics for trend analysis, historical queries and capacity planning.

Alert Routing and Notification

Use Alertmanager to group and deduplicate alerts, apply silences and inhibition, and route notifications through configured email, webhook and ITSM integrations.

Synthetic Service Checks

Test HTTP/HTTPS, DNS, TCP and TLS with Blackbox Exporter. Add approved functional checks through scripted probes, using controlled accounts and non-destructive test data.

Centralized Log Management

Forward system, application, platform and audit logs with Fluentd. Parse and enrich selected streams with Logstash, then index, retain and search events in OpenSearch.

Dashboards and Visualization

Use Grafana for metrics, service health and traces. Use OpenSearch Dashboards for log search and investigation, with views organized for platform teams, application owners and operations centers.

Distributed Request Tracing

Instrument applications with OpenTelemetry and collect spans through its Collector. Store traces in Tempo and inspect request paths, errors and latency in Grafana.

ENTERPRISE COVERAGE AND CONTROL

Infrastructure to Edge Sites

Monitor servers, VMs, OpenStack, Kubernetes, storage, networks and hardware. Use SNMP or IPMI exporters where appropriate and local collectors at remote sites.

Retention and Operational Evidence

Set retention for metrics and logs. Archive selected logs, reports and dashboard snapshots in object storage to support investigations and audit evidence.

Included Monitoring Console

The XaasIO Hyperscaler console is included for monitoring services, with projects, roles, SSO, dashboards, REST API access and alert webhooks.

Private and Disconnected Environments

Deploy inside your data center, private cloud or cloud account. Design air-gapped installations with local repositories, identity, storage and controlled updates.

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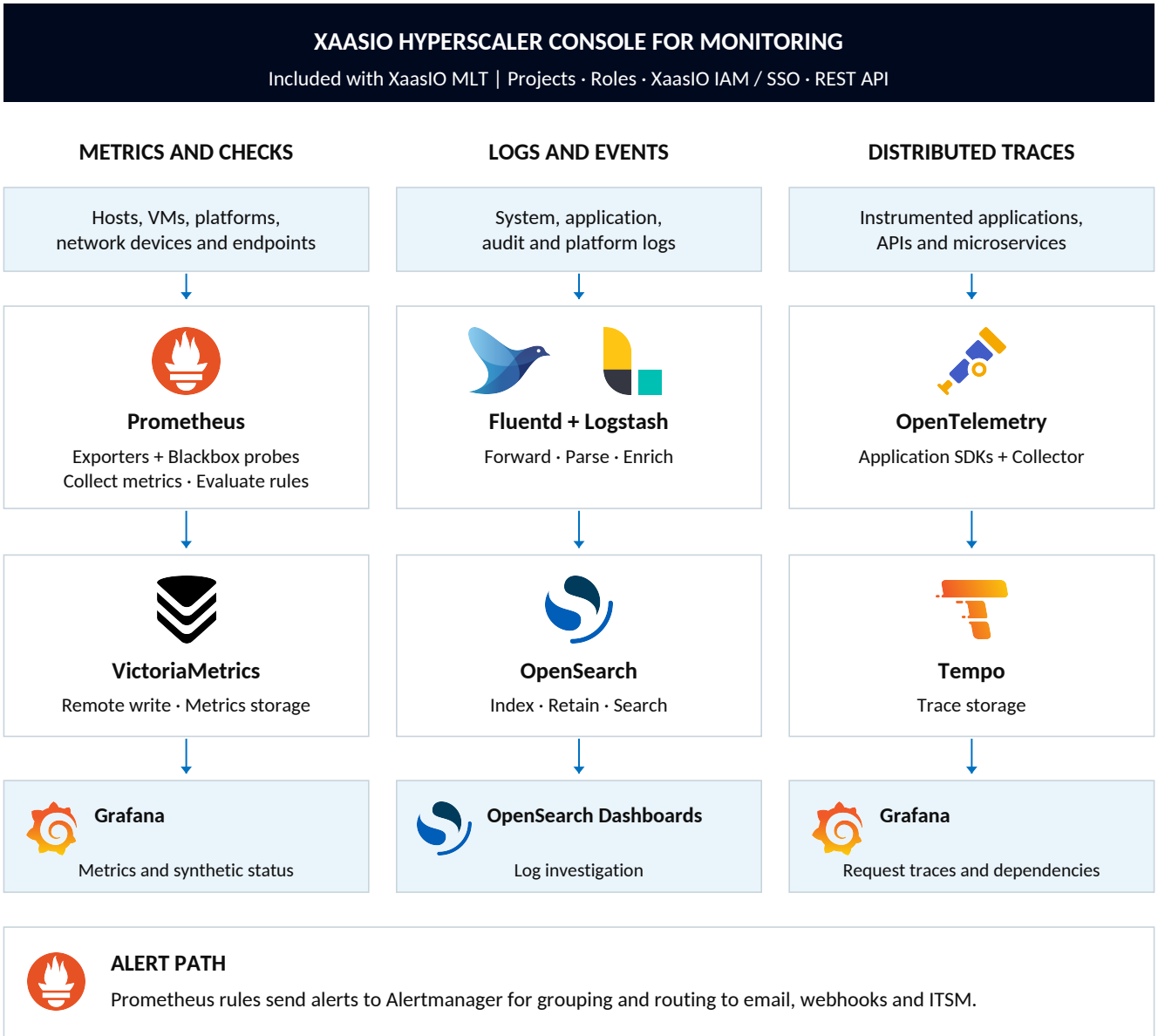
REFERENCE ARCHITECTURE

Three signal paths connect collection, storage and investigation. Shared service labels and time context help teams move between evidence sources.



DEPLOYMENT OPTIONS

Management Cluster

Run with management services for enterprise infrastructure and application monitoring.

Dedicated Cluster

Separate observability services and data stores for larger estates or defined security boundaries.

Multi-Site Collection

Place collectors and probes near remote workloads; forward to a central service with recovery-site planning.

Size for the signals. Plan active metric series, scrape intervals, log ingest, trace sampling, retention and query concurrency. Validate buffering, failover and restore procedures against the required service objectives.

Optional cloud expansion. XaasIO Hyperscaler Platform adds other XaasIO services, multi-service catalogs, tenant management, metering, FinOps and billing to the shared console.

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OPTIONAL AI ASSISTANCE FOR OPERATIONS

Extend XaasIO MLT with operational context and AI reasoning. Add XaasIO AI Lake and XaasIO AI-SRE to connect signals with service relationships, changes and runbooks.

REQUIRES XAASIO AI LAKE AND XAASIO AI-SRE

Operational Knowledge Graph

Connect services, assets, dependencies, recent changes, incidents and runbooks. Give the reasoning layer the topology and history needed to interpret telemetry.

Triage and Probable Root Cause

Group related incidents by service impact. Present probable causes with supporting metrics, logs, traces, recent changes and a confidence level.

Runbook Recommendations

Match an incident to approved procedures and prior root-cause reports. Recommend next actions for the responsible operator to review.

Governed Remediation

Require human approval for production or security-sensitive changes. Execute only approved tools and workflows, log recommendations and actions, then verify service health.

EVIDENCE AND APPROVAL IN THE RESPONSE WORKFLOW

Observe the issue · Review evidence · Approve the action · Execute and verify

SECURITY AND DELIVERY ASSURANCE

Access and Telemetry Protection

Integrate identity and SSO; validate backend access boundaries. Define transport and storage encryption, sensitive-field filtering and retention across collectors, stores, APIs and dashboards.

Software Supply Chain Evidence

Supported releases include upstream and XaasIO release SBOMs, dependency and license records, vulnerability information, provenance and signed artifacts. SPDX or CycloneDX outputs support audit evidence.

Controlled Lifecycle

Follow the documented release policy with validated components and plugins. Record changes, test updates, and verify collection, queries, dashboards and notification delivery after maintenance.

Migration and Enablement

Separately scoped support assesses Nagios, Zabbix, Prometheus, Grafana, log or SaaS estates. Rebuild selected checks, dashboards and rules, pilot representative services and validate before cutover.

XAASIO MONITORING AND OBSERVABILITY

Plan your observability architecture with XaasIO.

Explore xaasio.com/platform/monitoring-and-observability/

Book an architecture workshop at xaasio.com/contact/

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