Greymatter.io

Gain Deep Visibility Across Decentralized Applications

As modern software architectures grow more complex, enterprises have more difficulty observing the health of decentralized applications. Too much information is generated across too many cloud-native applications, APIs, containers, services, and data sources for DevOps and platform engineering teams to make sense of these sprawling, opaque, distributed software application environments.

Unlike stand-alone service mesh solutions narrowly focused on service connectivity, Greymatter.io's service connectivity layer platform is purpose-built to capture telemetry from our underlying service mesh to surface heuristic insights, deliver operational intelligence and highlight the key points of light and insights that matter most to make informed business, operations, and infrastructure decisions.

Continuously collect, aggregate, and analyze all application network traffic, data and usage patterns to gain real-time visibility across modern software applications.

Leverage AI and machine learning to automatically detect anomalies, conduct health checks, and surface heuristic insights to identify potential performance issues.

Run applications more efficiently across hybrid, multi-cloud and on-premise environments by understanding how users interact with data and services in real time.

View Distributed App Data in One Place

Greymatter.io aggregates metrics, events, logs and traces across hybrid, multi-cloud and on-premise environments into a single, centralized location to provide enterprises with real-time visibility into the health of decentralized software applications.

Our platform provides Network Operations Center (NOC) teams with real-time dashboards, scorecards and analytics to easily identify service status (stable, down, or warning), filter by business impact (critical, high, medium or low), view continuous health check alerts (pass, fail, or misconfigured), and more. These capabilities help DevOps engineers detect potential performance issues at scale across a chain of hundreds or thousands of microservices, without needing to access, correlate, and analyze data from multiple siloed cloud monitoring and observability tools.
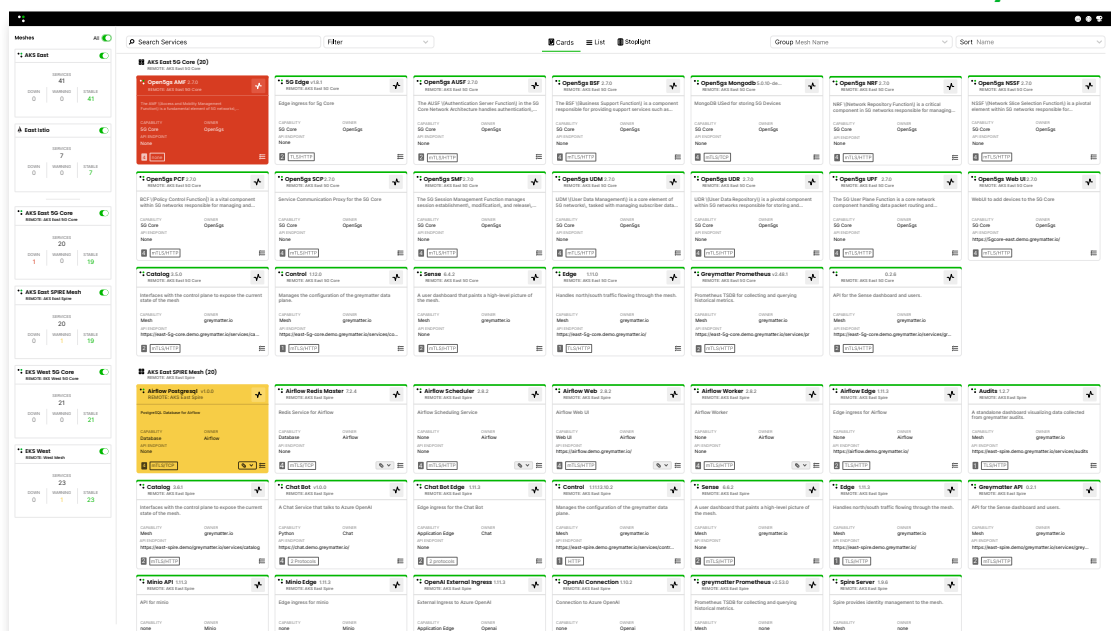
"Powerful declarative playbooks."
2024 GigaOm Radar Report
for Evaluating Service Mesh

GIGAOM

"Enables network overwatch."
451 Research Report

451 Research

Real-Time Dashboards, Scorecards and Analytics

Greymatter.io

Service Summary

- ✓ Uptime
- ✓ Average Response Time
- ✓ Error % Across All Requests
- ✓ CPU & Memory Utilization
- ✓ Chart of Requests Over Time

Historical Metrics

- ✓ Service-Level Latency
- ✓ Route-Level Usage
- ✓ Host Performance
- ✓ Request Rate
- ✓ Error Rate
- ✓ Route-Level Performance
- ✓ Instances

Instance Metrics

- ✓ Route View
- ✓ Heap (Runtime)
- ✓ Explorer Time-Series Metrics

Historical Metrics

- ✓ HTTP/3 Protocols
- ✓ Health Checks
- ✓ Outlier Detection
- ✓ Circuit Breakers
- ✓ Timeout Budget
- ✓ Load Balancers
- ✓ Request Response Size
- ✓ And more ...
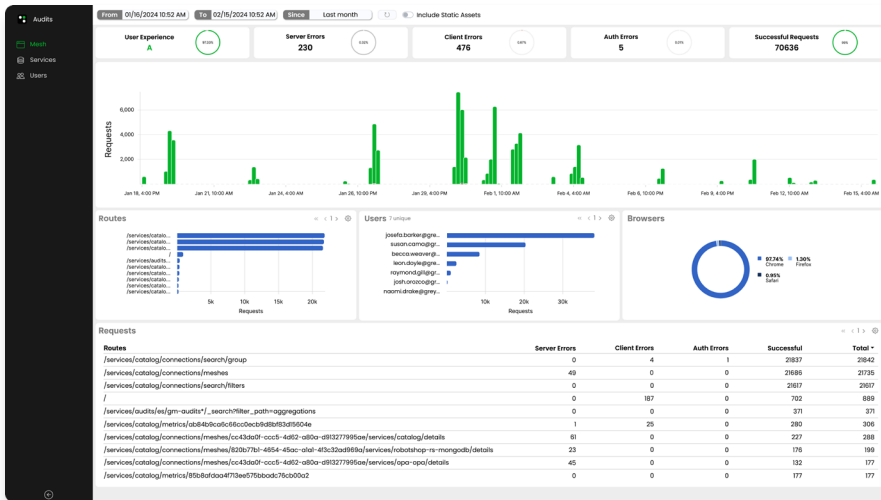
Aggregate decentralized software application metrics into a single-pane-of-glass dashboard, with memory and CPU utilization, percentile latencies, error rates, request rates, and more.

Why Greymatter.io?

Analyze Hundreds of App Metrics

Continuously collect, aggregate, and analyze more than 100+ default Envoy metrics and dozens of proprietary metrics across Layers 3, 4, and 7 (Network, Transport, and Application), reducing the need for manual log collection, analysis, and troubleshooting. Automatically capture every single network transaction flowing between all users, systems, and services down to the route level, providing a real-time audit trail of who is using what services, when, where and how to enforce compliance with FIPS, PCI, HIPAA, GDPR, and other industry regulations.

Surface AI Insights for IT Operations

Leverage AI and machine learning to analyze the vast amount of traffic, data and usage patterns generated across the service mesh to observe healthy network traffic, establish normal baseline thresholds, and automatically detect anomalies. Continuous health checks provide an early warning of traffic bottlenecks, service failures, or application downtime. Use built-in AIOps to surface heuristic insights to help DevOps teams conduct root cause analysis, pinpoint performance issues and take corrective action to reduce Mean Time to Recovery (MTTR).

Optimize Application Performance

Go beyond statistics, counters, and telemetry by correlating operational cues and recommending actionable insights to optimize performance. Developers discover which services are available, even in nonKubernetes, bare-metal VM, or legacy environments. Software architects use actual traffic, data, and usage to design more efficient applications, improve performance, reduce latency, and optimize utilization. DevOps engineers monitor traffic, scale workloads, identify bottlenecks, and troubleshoot issues to continuously meet or exceed service level objectives (SLOs).

Integrations

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