Real Time Log Analytics

"Empowering Real-Time Decision-Making with AI-Driven Analytics"
Transforming data into actionable insights for operational efficiency, performance monitoring, and strategic growth.

Real Time Log Analytics

The Challenge in Log Analytics

❑ Manual tracking of KPIs such as CPU usage, memory, and network throughput is inefficient and doesn't provide timely insights for immediate decision-making.

❑ Without AI-driven insights and advanced reporting tools, teams struggle to uncover meaningful patterns and trends from operational and performance data, limiting proactive problem-solving.

❑ As the organization expands, managing and processing increasing volumes of operational data becomes cumbersome, requiring a scalable solution that can handle larger datasets efficiently.

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Introducing Real Time Log Analytics

What it does?

- ❏ **Real-Time Reporting:**

  Dynamic dashboards for 15 identified KPIs (e.g., CPU Usage, Error Rates, Availability).

  Live updates for operational efficiency and decision-making.

- ❏ **Advanced Analytics:**

  AI-driven insights using Microsoft Copilot and Power BI GenAI.

  Kusto Query Language (KQL) for data transformation and KPI calculation.

- ❏ **Data Governance & Security:**

  Role-based access control (RBAC) for secure data handling.

  Workspaces for organizing data by function (e.g., InfraPOC,   Budget Data).

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Core Features of Real Time Log Analytics

❑ **Real-Time Data Streaming:** Continuous streaming of operational data from Azure Log Analytics Workspace to Azure Event Hub for near-instantaneous access to system metrics.

❑ **Real-Time Dashboards:** Interactive, dynamic dashboards built with Microsoft Fabric to monitor key performance indicators (KPIs) in real-time, offering live updates on metrics such as CPU usage, error rates, and application performance.

❑ **Scalable Data Architecture:** The solution is designed to handle large-scale data workloads efficiently with Azure Event Hub and Microsoft Fabric's Event Stream and Event House components, ensuring the platform can grow with the organization's needs.

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End-to-End Workflow

- ❑ **Data Collection:** Logs and metrics collected from Azure services into Azure Log Analytics Workspace.

- ❑ **Data Streaming:** Data streamed from Azure Log Analytics to Azure Event Hub for real-time processing.

- ❑ **Real-Time Data Ingestion:** Data ingested into Microsoft Fabric's Event Stream using Azure Event Hub.

- ❑ **Data Transformation:** Data processed using Kusto Query Language (KQL) for filtering, aggregating, and enriching.

- ❑ **Data Storage:** Transformed data stored in Microsoft Fabric's Event House for structured, low-latency access.

- ❑ **Real-Time Querying:** Data queried using KQL for real-time reporting and KPI calculations.

- ❑ **Real-Time Dashboard:** Power BI visualizes real-time KPI data for dynamic monitoring of system performance.

Why Choose AI Claim Validator?

Improved Accuracy: Minimized human errors with automated validation and insights.

Cost Savings: Reduced infrastructure and operational costs through automation.

Customer Satisfaction: Faster, more transparent decision-making with real-time updates.

Compliance Assurance: Automated adherence to governance and compliance standards.

Scalable & Flexible: Easily scales to handle growing data and future needs.

Proactive Issue Resolution: Detect and address issues before they impact operations.

AI-Powered Insights: Advanced analytics and natural language queries for easy decision-making.

Faster Time-to-Value: Quick insights for faster, data-driven decisions.