



From Noise to Insight: Mastering Azure Monitor for Proactive Operations

CloudBrew 2025

Tom Claes – Cloud Solution Architect at Microsoft



Who am I?

- Tom Claes, 27 y/o
- 3,5 years as Cloud Solution Architect at Microsoft
- 6 years as student at KU Leuven
- Medium, Microsoft Techcommunity & Open Source



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PARTNERS FOR 2025



CloudBrew would not be possible without our partners. Thanks!

Platinum partners

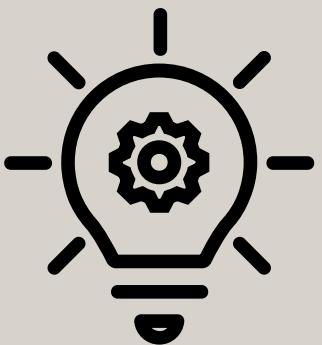


Gold partners

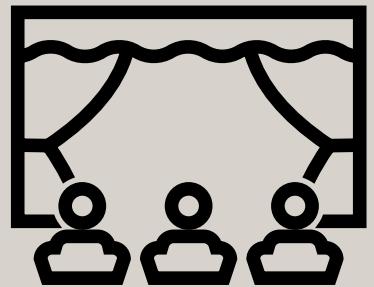
Silver partners



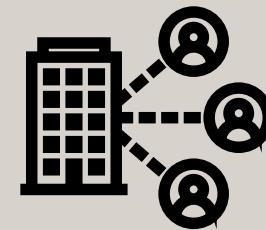
Agenda



What is
observability?



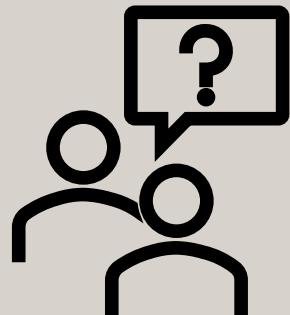
Experience



Pro-active
approach



Automated SRE



Q&A

What is observability?

Multi-step approach



Explore



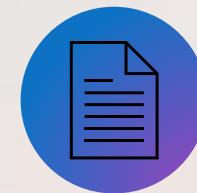
Understand



Plan



Actions



Reporting

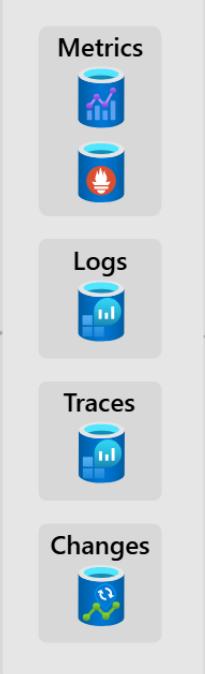
Data Sources

- Apps / Workloads
- Infrastructure
- Azure Platform
- Custom Sources

Data Platform



Azure Monitor



Consumption

Insights



Visualize



Analyze



Respond



Integrate



Azure Monitor billing and costs

Billing is primarily based on volume of data ingestion into Azure Monitor

- Log analytics data ingestion (discounts based on commitment tiers)
- Custom metrics ingestion
- Prometheus metrics ingestion and queries
- Data retention
- Data archival and restoration

Using some functionalities of Azure Monitor also have charges associated

- Alerts & notifications
- Standard & multi-step web tests
- Data export (including streaming to Marketplace partners)
- SCOM managed instance

Azure Managed Grafana billing is separate, and based on number of unique active users per month

We also have tools to help with cost estimation and predictions

- Azure pricing calculator
- Usage & estimated costs experience
- Optimization tips: <https://aka.ms/AzMonCostOptimization>

From Firefighting to Fireproofing

Move from a reactive approach to a pro-active approach

🔑 *Preparation is key*

❗ Start capturing data that matters

- Remove noise & lower ingestion cost

📖 Understand your data

- Values, impact and trends

▶️ Apply smart alerting & actions

- Configure threshold & define an action plan



Azure Monitor Baseline Alerts



Provides best practices around guidance around creating and configuring Azure Monitor Alerts for Azure services and workloads patterns/scenarios.

- Essential alerts based on metrics & alerts
- Deployment via: Azure Policy, Bicep or ARM
- End-to-end guidance
 - Deployment
 - Configuring & Enforcement
 - Visualizing using Grafana and Azure Workbooks
- Open-Source

aka.ms/amba

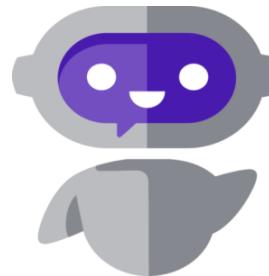
Automated SRE

Integrating LLMs and agentic AI with Azure Monitor to enhance observability and minimize service downtime.

- Continuous learning to improve reliability and operational efficiency
- Automated root-cause analysis across logs, metrics, and traces
- Human-in-the-loop automation for safe, controlled responses

📢 Announcements at MS Build & Ignite

- SRE Agent
- Azure Copilot observability agent



Any questions?



Azure Monitor announcements
at Ignite 2025



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SRE Agent