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Transforming Cloud-Native Applications: GenAI-Enhanced Observability for Performance, Insights, and Resilience

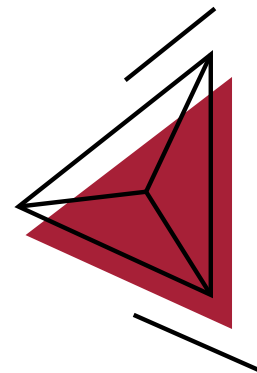
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Overview



- Understanding the Pillars of Observability
- Using observability to optimize performance
- Generating actionable insights with GenAI
- Building resilience and minimizing downtime
- Automating observability processes for efficiency
- Demo of Observability with GenAI plus Q&A

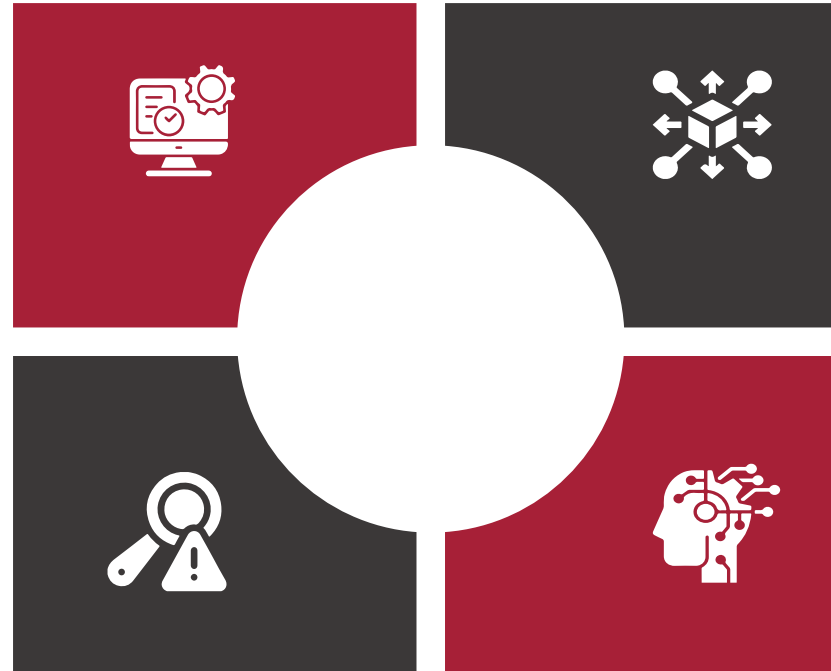




What is Observability?

Observability delivers the insights necessary to manage and optimize modern cloud-native systems. By analyzing telemetry data from distributed services, it enables real-time monitoring, simplifies troubleshooting, and drives informed decision-making to ensure high performance and availability.

System State Visibility:
Real-time understanding of application health and performance.



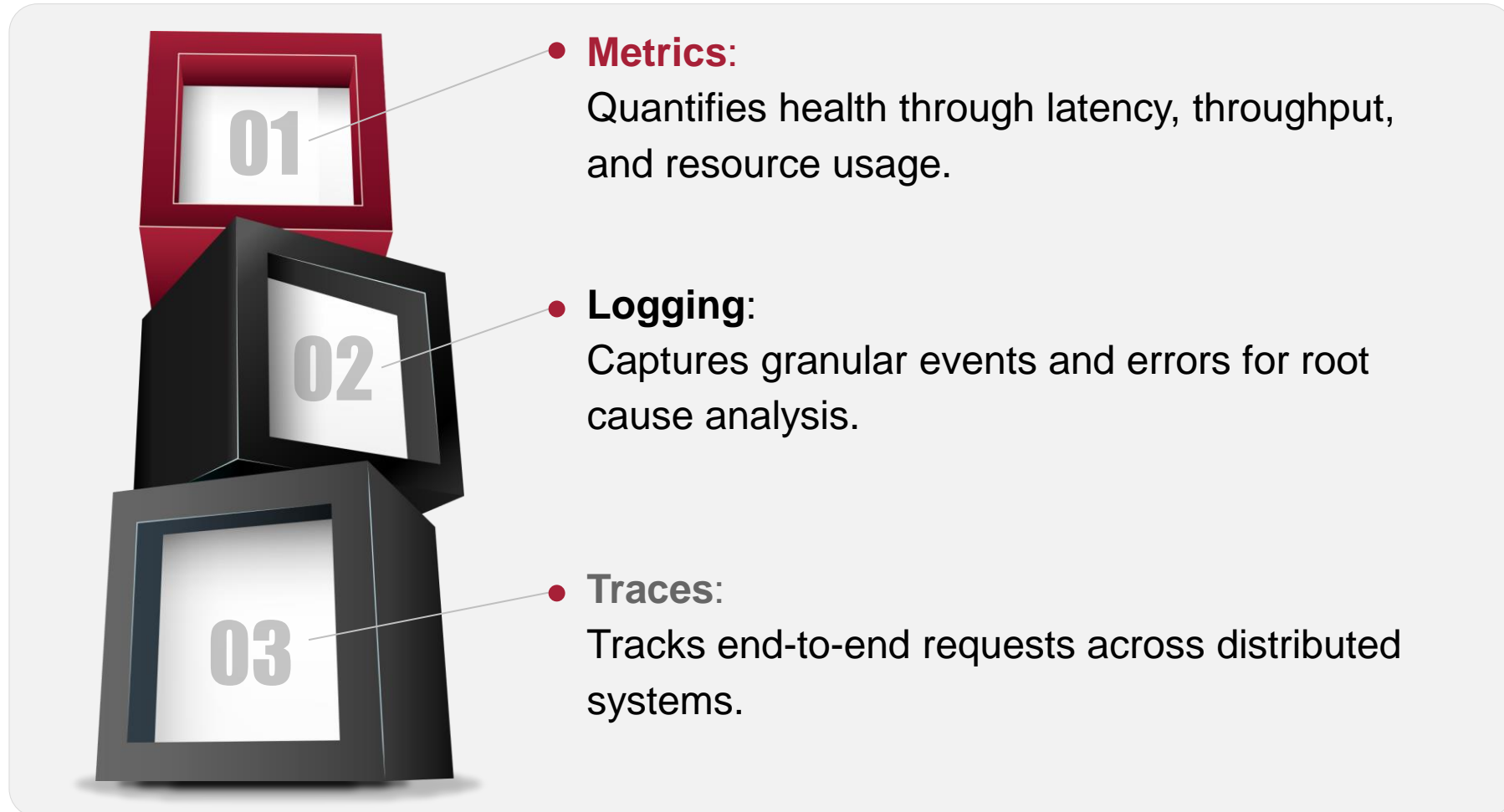
Handling Distributed Systems:
Managing the challenges of interconnected services.

Troubleshooting Complex Issues:
Quickly identifying root causes of failures.

GenAI Enhancements:
Using AI to streamline observability workflows.

Three Pillars of Observability

Metrics, logs, and traces are the building blocks of observability, each contributing unique insights to understand and optimize system behavior. Together, these pillars provide a complete picture of how applications perform and interact across distributed environments.



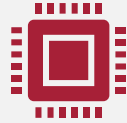
Demo User Story

Problem Statement: Managing infrastructure performance and technical debt is challenging, requiring an automated solution for monitoring, anomaly detection, and resolution to improve application stability before cloud migration.



Monitor System Performance

Provides a visual overview of system performance, highlighting potential bottlenecks and areas needing attention to prevent issues.



Real-Time Alerts

Provides immediate awareness of performance issues, enabling quick responses to minimize downtime and maintain system uptime.



Root Cause Analysis

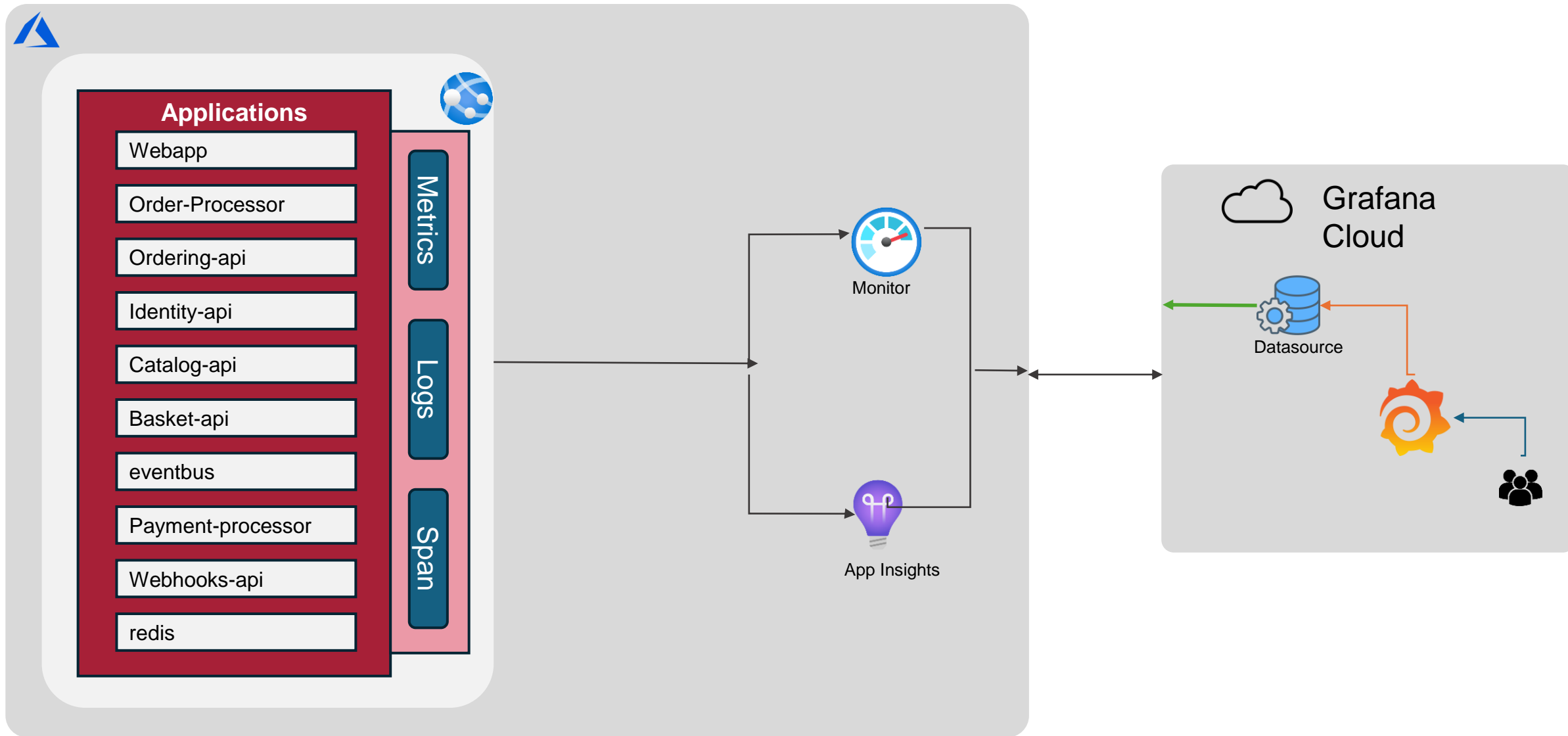
Quickly identifies the problem's origin, saving time and eliminating the need for manual investigation, allowing for faster issue resolution and clearer understanding of contributing factors.



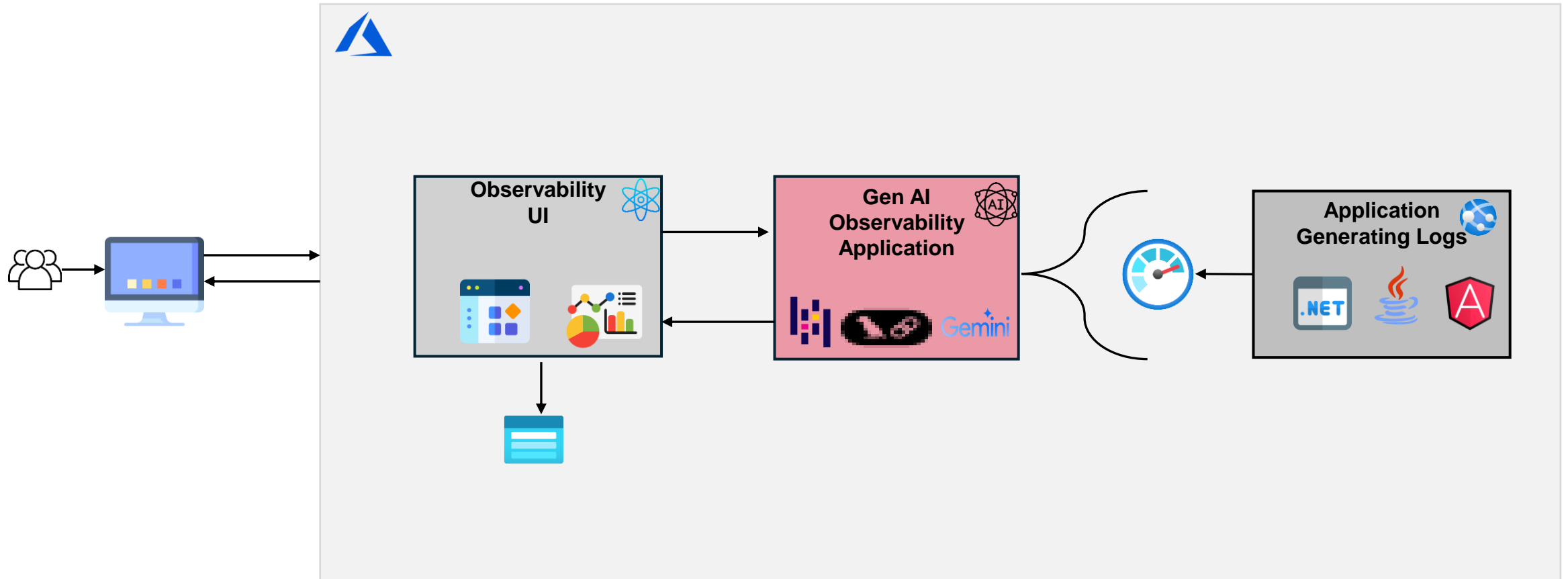
Issue Resolution

Delivers prioritized, actionable solutions for a faster and more effective response, focusing on the most critical fixes to prevent further complications.

Observability Architecture – Azure Cloud with Grafana Cloud



Observability Architecture – GenAI Solution Overview



Thank You !



USA : +1 425 354 3456
INDIA : +91 40 66071200



18300 NE Union Hill Road
Suite 210 Redmond, WA 98052



Info@peopletech.com
www.peopletech.com