INSTANA an IBM Company + turbonomic an IBM Company

Applications power businesses. When they run well, your customers have a great experience, and your development and infrastructure teams remain focused on their top initiatives. In today's world, applications are becoming more distributed and dynamic as enterprises embrace new development methodologies and microservices. Simultaneously, applications are increasingly being deployed across complex hybrid and multicloud environments.

It has never been more challenging to assure applications deliver exceptional customer experiences that drive positive business results and beat the competition. Application architecture and design must be well executed, and the underlying infrastructure must be resourced to support the real-time demands of the application. The combination of Instana and Turbonomic provides higher levels of observability and trusted actions to continuously optimize and assure application performance.

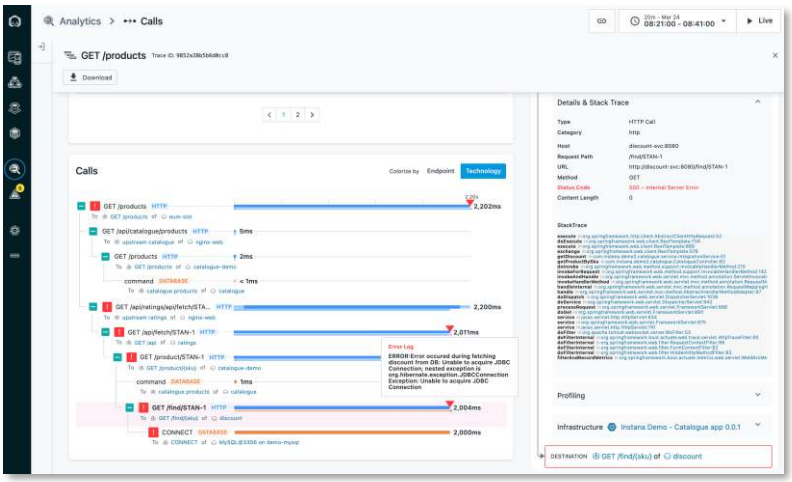
BENEFITS of Instana + Turbonomic

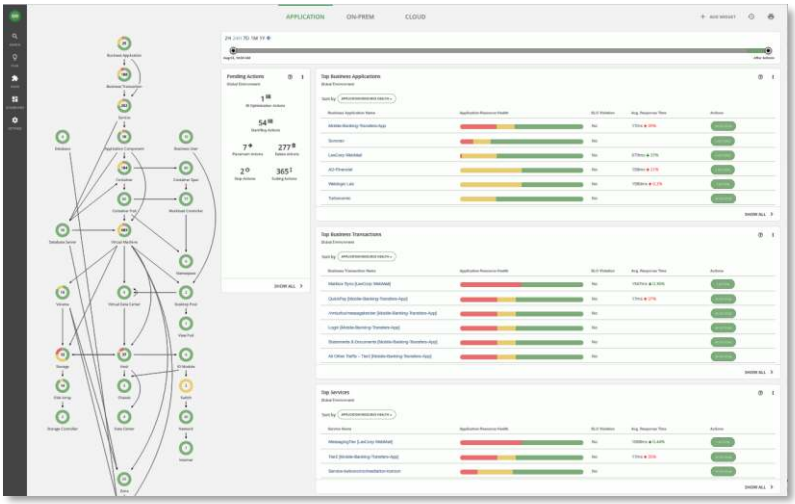
Enterprise Observability Platform – Automatically discover, map and visualize the full application & technology stack in real-time

Application Resource Management - Continuously assure application performance. Applications get the resources they need when they need them as demand fluctuates

See the Problem, Solve the Problem

Application Aware & Full Stack Context





Application Awareness and Intelligence

- **Full stack visibility and insight**– Instana ingests all performance metrics, traces all requests and profiles every process, along with the capabilities needed to make observability work for the enterprise
- **Full stack understanding**– Understand how every application component and service interrelate with every other component & service. Instana's Dynamic Graph, Context Guide, and Analytics engine help optimize performance and availability.
- **Align applications and infrastructure**– Instana and Turbonomic provide a common understanding of horizontal (app) and vertical (full stack) dependencies

Application Resource Management (ARM)

- **Deep infrastructure resource analytics –** The ARM AI engine uses application demand insights and economic principles to drive infrastructure and cloud resource decisions at each layer of the stack
- **Decisive resourcing actions in real time –** ARM decisions drive automated actions to continuously assure healthy application performance while enforcing business constraints
- **Closed loop optimization–** ARM automated infrastructure resourcing actions assure applications adhere to SLOs with real-time validation by Instana
- **Reduce waste–** ARM's full stack understanding of exactly how many resources the application needs means customers no longer overprovision. Instana provides real-time validation that performance is optimized

Instana + Turbonomic

Application-driven. Uses application demand as the driver for making resource decisions.

Top-down. Continuously matches application resource demands to underlying supply of infrastructure.

AI-powered. Software provides the context needed to optimize applications while making the application resourcing decisions for you, automatically.

Full-stack visibility. Understands the relationships between applications, services, containers, pods, nodes/VMs, hosts, storage, and network.

Automatic discovery, Monitoring, Root Cause Analysis and Feedback reduces the amount of stress when deploying new code or making changes to the system with immediate feedback on performance and quality.

Cloud & infrastructure agnostic. Supports all major hypervisors, AWS, Azure, as well as all upstream versions of Kubernetes anywhere, including OpenShift, Azure AKS, Amazon EKS, and Google GKE.

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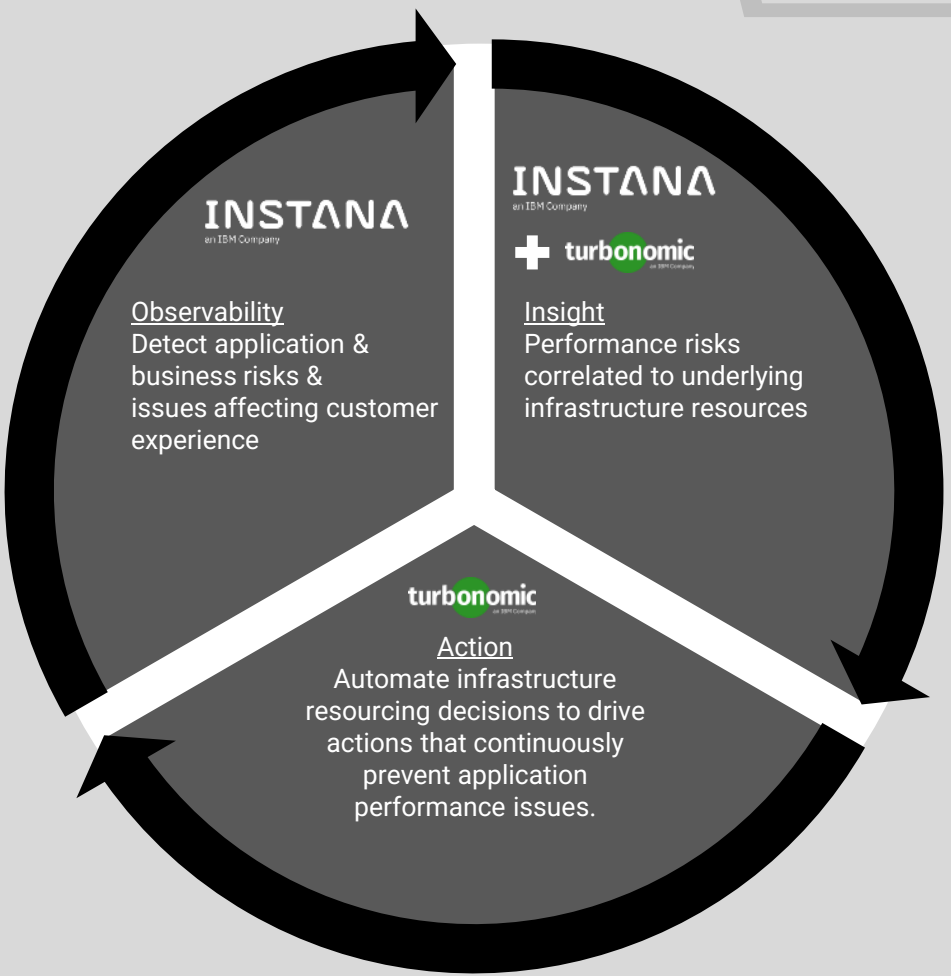

Build and run applications that are architected and written well and get the resources they need to perform.

Provide visibility, insight and automated actions to continuously assure application performance while enforcing business policies.

Works across hybrid and multicloud - and is futureproof for modern cloud native applications.

Improve organizational alignment and productivity for DevOps, Site Reliability Engineering (SRE), application and infrastructure teams

About Turbonomic, an IBM Company

Turbonomic, an IBM Company, provides Application Resource Management (ARM) software used by customers to assure application performance* and governance by dynamically resourcing applications across hybrid and multicloud environments. Turbonomic Network Performance Management (NPM) provides modern monitoring and analytics solutions to help assure continuous network performance at scale across multivendor networks for enterprises, carriers and managed services providers.

For further information, please visit www.turbonomic.com | (*) www.turbonomic.com/resources/case-studies