6 Pillars of Enterprise Observability

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IBM Observability with Instana

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What's new in *IBM Observability by Instana*

Version 1.0.197 – Released in April 2021:

- Expanded coverage of the ***IBM Observability by Instana*** observability platform and automated APM solution – designed specifically for the challenges of managing microservice and cloud native applications

  - This latest release delivers enhancements and additional coverage to leverage your prior **investments in IBM middleware** and more

    - **General Availability**
      - Watson AIOps – Alert Channel integration
      - Mainframe transactions integration with IBM Z APM Connect

    - **Technical Preview**
      - IBM DataPower
      - IBM App Connect Enterprise (ACE)
      - IBM Cloud Platform
      - Ingest IBM APM V8 generated metrics

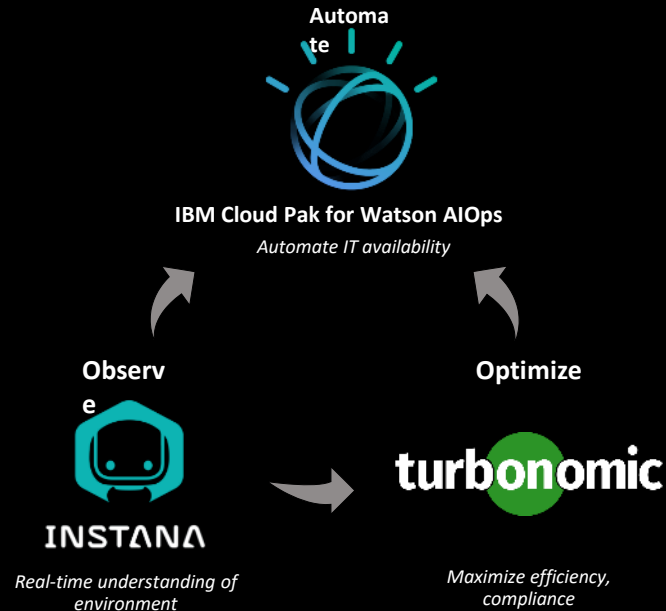# Instana and Watson AIOps: Improve efficiency with automation

INSTANA
Business and IT Observability

Auto-Discovery

Auto-Instrumentation

Collection and Contextualization

Condition Detection and Event Creation

Event Grouping and Root Cause Analysis

Alert Creation and Propagation

UNDERSTAND AND DETECT

Watson AIOps
Automated IT Ops

Automation

Next Best Action

ChatOps and Collaboration

Incident and Change Management

Root Cause Analysis

DECIDE AND ACT

Actions and Automations

Detect   Decide

Understand

Act

Business   Software   IT Ops

Events and Alerts

	MTTD Mean time to detect	MTTI Mean time to identify	MTTD Mean time to diagnose	MTTR Mean time to repair	MTTR Mean time to resolve
before	~48 hours	+12 hours	+24 hours	+6 hours	+ 6 hours
after	Real time	+2h	+2h	+6 hours	

- Shorter time to diagnose and resolve
- Less effort and skills required
- Reduced risk as (earlier) detected anomalies evolve into client impacting outages

IMPROVED EFFICIENCY

IBM Announces intent to acquire Turbonomic

Strengthening IBM's strategy as a hybrid cloud and AI company

Turbonomic helps businesses use AI to cut costs through optimizing the deployment of IT resources across development, test and production environments

Turbonomic complements IBM's recent acquisition of Instana and launch of IBM Cloud Pak for Watson AIOps to address AI-driven automation of IT; powered by Red Hat OpenShift to run anywhere
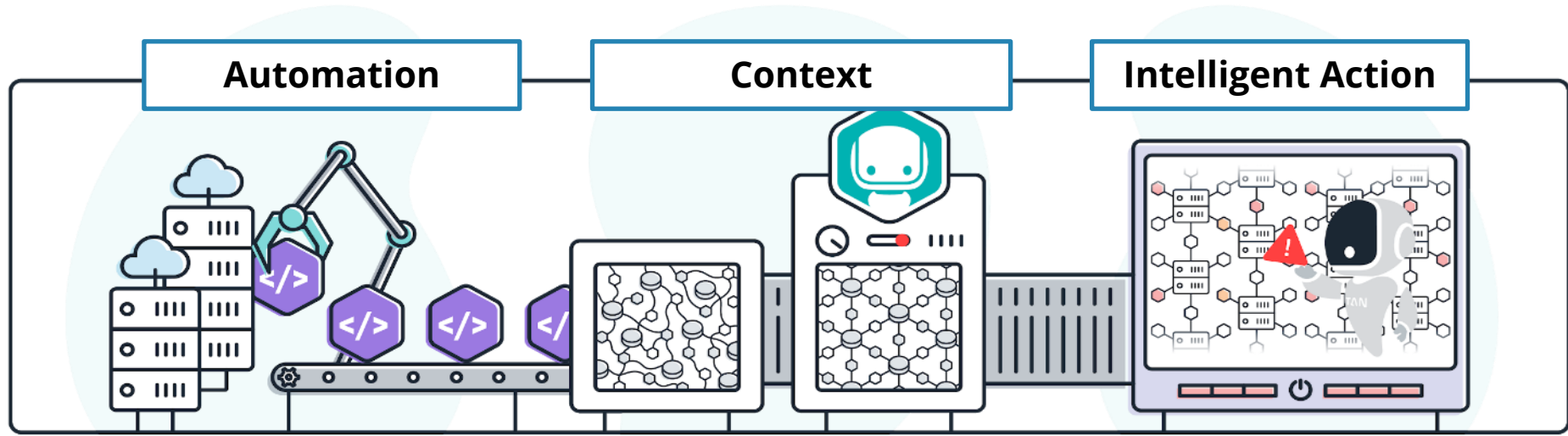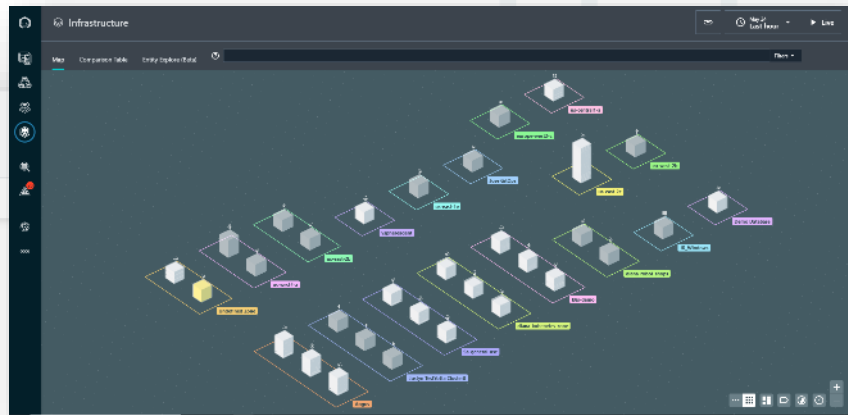
Automate

IBM Cloud Pak for Watson AIOps
Automate IT availability

Observe

Optimize

turbonomic

INSTANA

Real-time understanding of environment

Maximize efficiency, compliance

The Six Pillars of Enterprise Observability

Enterprise Observability Drives Business Value

Automation · **Context** · **Intelligent Action**

Risk Reduction ✔ **Accelerated Innovation** ✔ **Efficiency Gain**

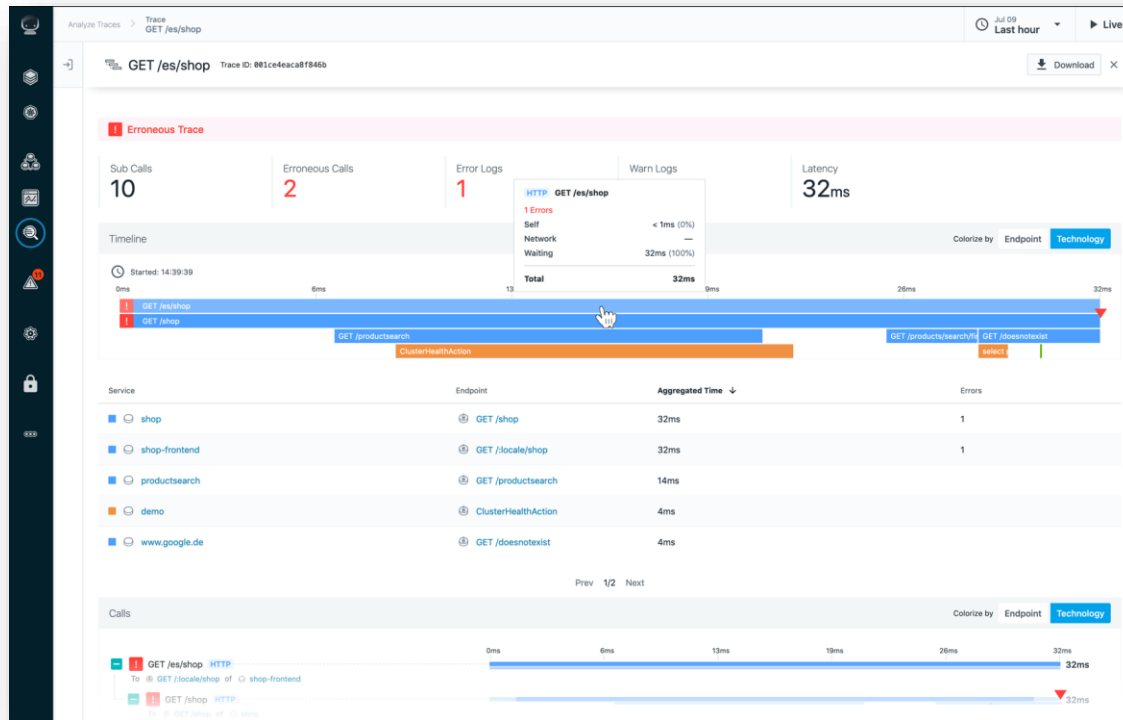# Pillar #1 – Continuous Automated Discovery and Mapping
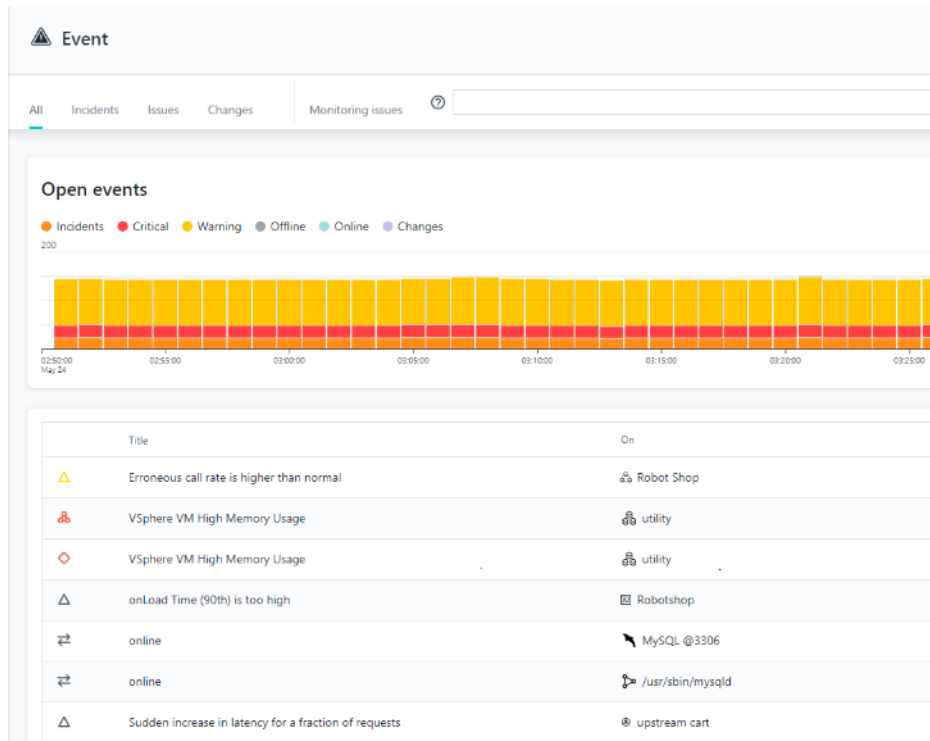
Pillar #2 – Real-Time Full Stack Application Data Model
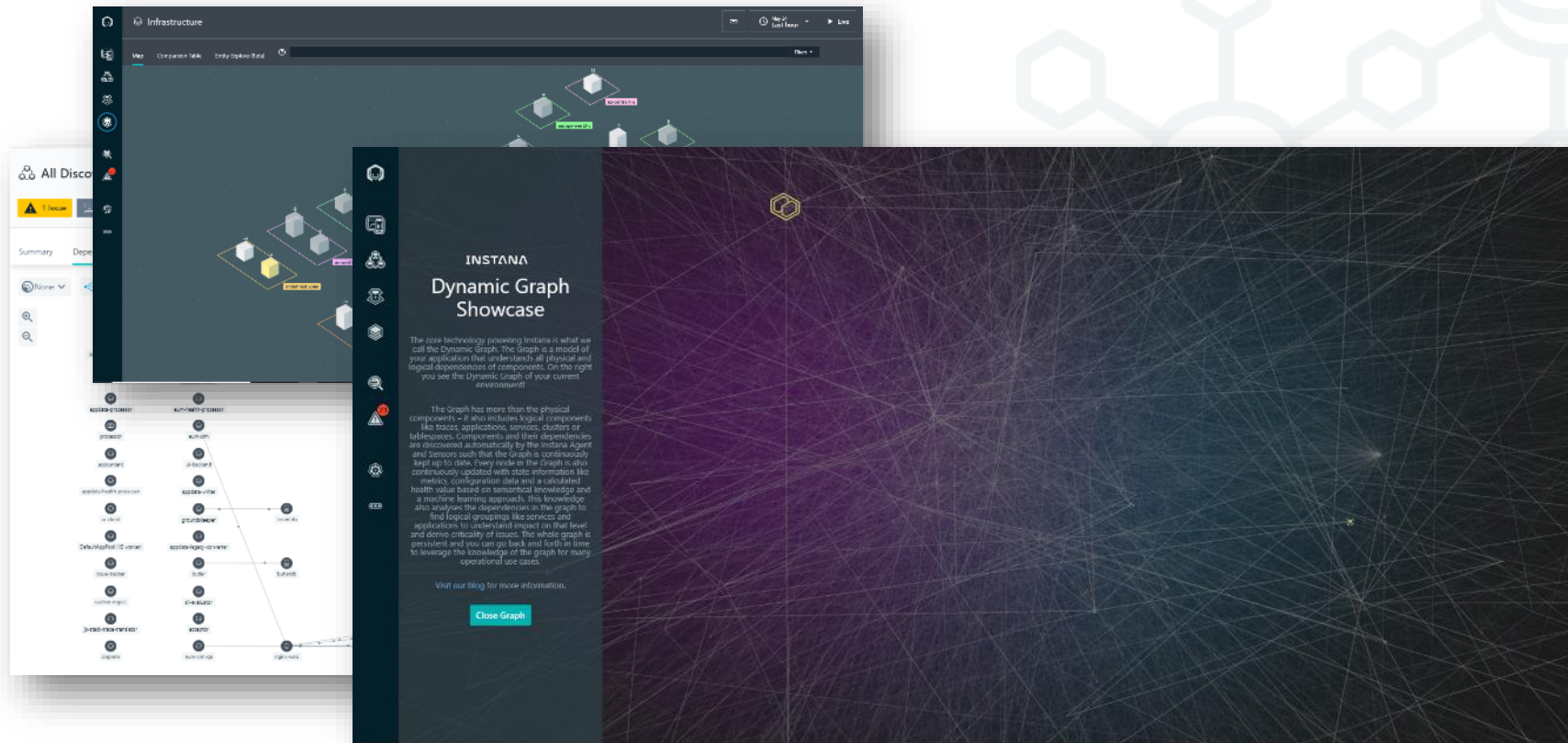
Pillar #3 – Always Accurate High Cardinality Data
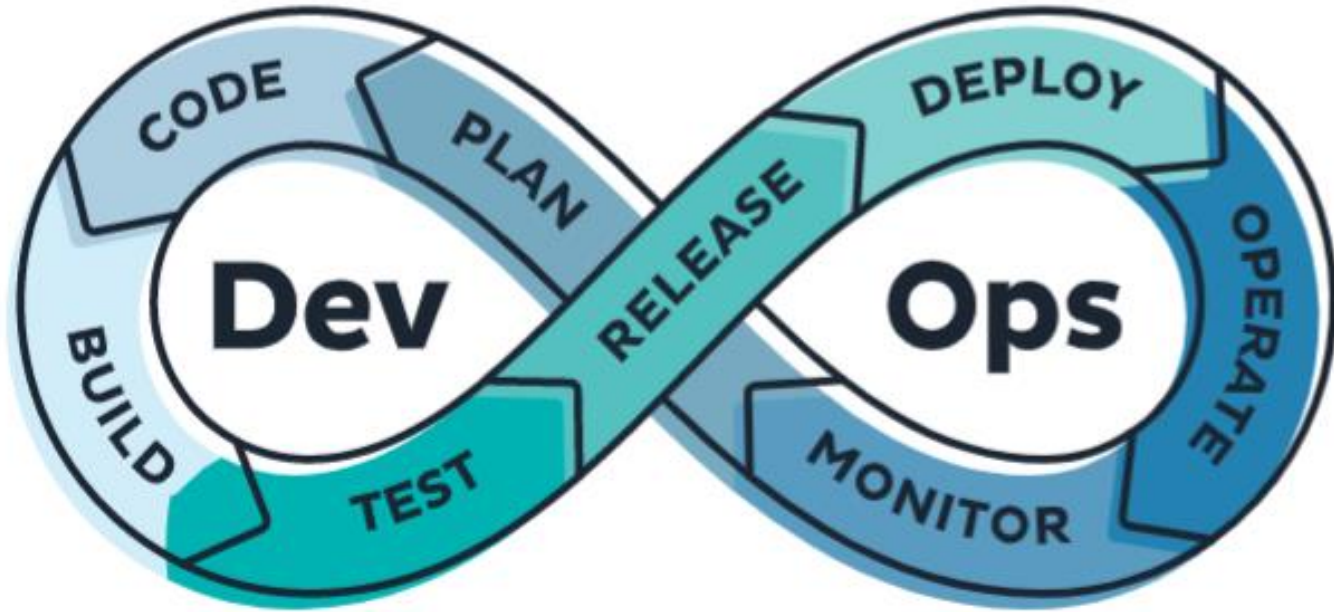
Pillar #4 – Automatically Trace Every Request

Pillar #5: AI-Driven Incident Prediction, Troubleshooting and Resolution

Pillar #6: Integrate with CI/CD Tooling

Better, Stronger, Smarter Together: IBM + Instana

INSTANA
an IBM Company

Preferred Observability feed for Watson AIOps
Contextualized data with metrics, traces, profiles, dependency mapping to drive automated remediation

Mainframe and Legacy Application and Infrastructure
Contribute mainframe and legacy infrastructure, applications, and middleware visibility

Enterprise-grade container platform
Builds on OpenShift's infrastructure management capabilities to provide deeper application visibility

Accurate real-time data
- 100% distributed tracing, 1 second metrics
- Immediate software deployment pipeline and CI/CD feedback

Continuous, real-time discovery of microservices and infrastructure
- Single agent architecture
- 250+ domain specific sensors

Powerful and easy to use data analytics
- Infinite flexibility to generate new insights from the entire repository of application request trace data

Dependency mapping of "applications"
- Automated dependency mapping across the entire stack
- Flexible Application Perspectives

Automated Root-cause analysis of Service Level violations
- Automatic event correlation including performance, errors, and changes