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Enterprise Observability: Behind the Term

Chris Lentricchia, Instana



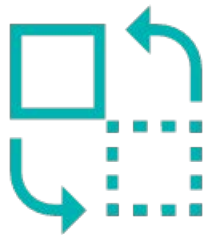
Analyst Definition of Observability

Definition of *Observability* from APM Experts

Observability means you have access to all of the data you need (logs, events, metrics, traces, and dependency maps) for every single “*Unit of Work*” that your application and its underlying infrastructure perform that is of interest to the business.

Three Tectonic Shifts

**Deployment
Frequency**



**Constant
Change**

Organization



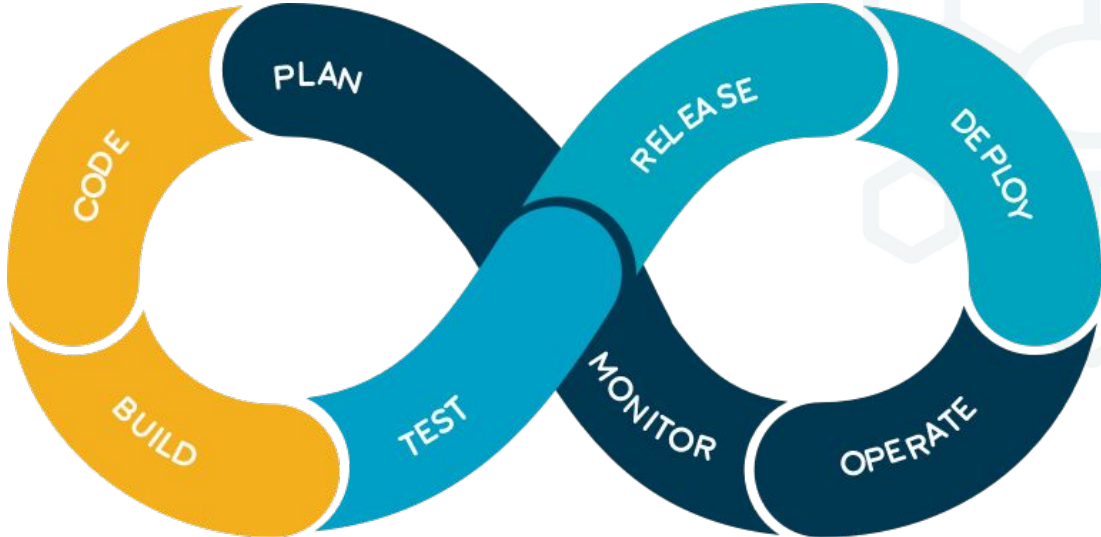
**Move to
DevOps**

**Technical
Complexity**



**Endless
Dependencies**

Deployment Frequency



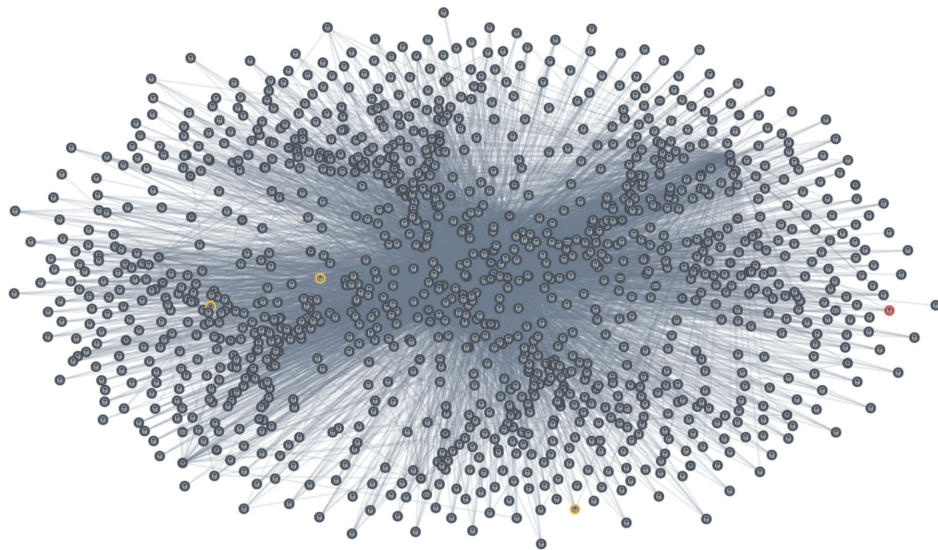
Organization

- Move to DevOps
 - No longer our meme
 - We're sharing each other's work - and problems!
- Developers are responsible for production
 - More tools!
- Tool sprawl and redundancy



Technical Complexity

- DevOps -> Cloud Native
Microservices
- Complexity increased and
never ending dependencies
- More technologies
 - Developers: Yay!
 - Operations:
- "3am problem"



Duct Time Time!!



Manual Steps Slow You Down!

Traditional monitoring **REQUIRES** your best engineers

- **Manually** writing data collectors
- **Manually** instrumenting code for tracing
- **Manually** configuring data collectors
- **Manually** building data collection to store metrics
- **Manually** discovering dependencies
- **Manually** deciding how to correlate data
- **Manually** building dashboards to visualize correlation
- **Manually** configuring alerting rules and thresholds





How Can You Excel In This New Reality?

**Automate discovery
& configuration**



**Turn data into
contextual info**



**Take action
intelligently**



Enterprise Observability



Automate Discovery & Configuration

- Better things to do
 - Innovation
- The Observability Burden
 - Observability doesn't have to be like this
- Automation

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It's Not Just About The Data; But What You Do With It.

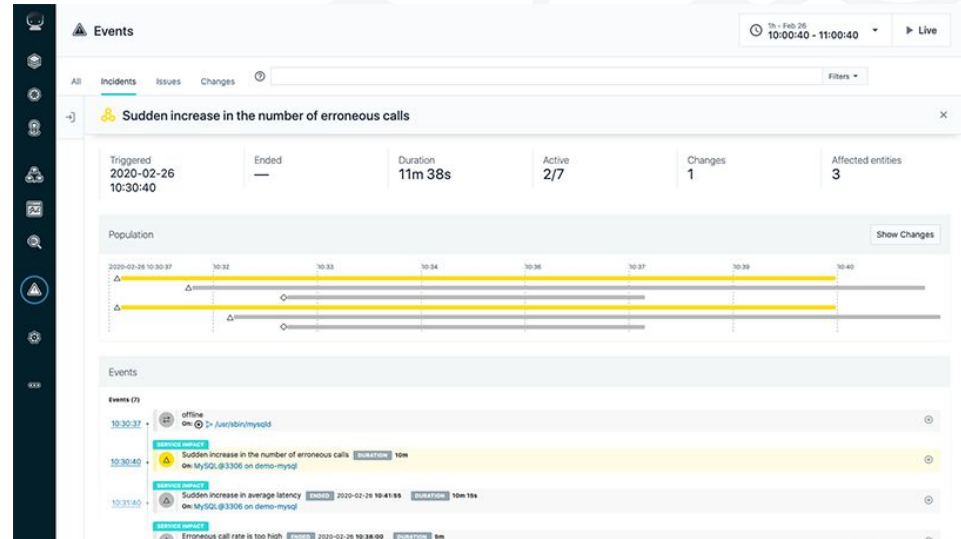
Data just for the sake of data - data without context - is useless

From a developer's perspective:

- “Observability is not just knowing a problem is happening, but knowing why it is happening - and knowing how I can go in and fix it.”
- “If I'm going to be responsible for service performance, I must know that I'm getting the right data.”

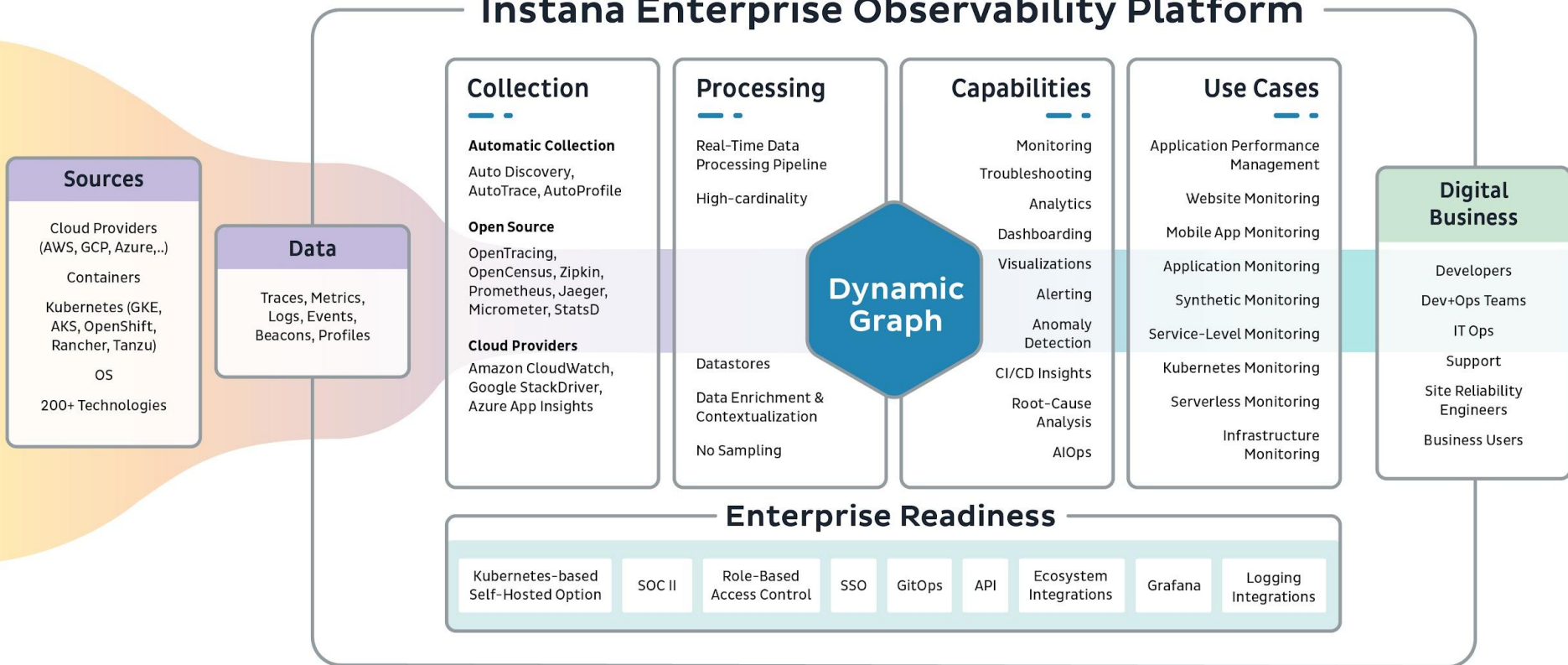
Enable Intelligent Actions

- Move forward
- 3am problems turns into 5 minute solutions
 - Kudos on the sleep!
- Stop reacting and start acting
 - Suggestions and deep analysis based on curated knowledge



One Platform - All The Data - Full Context

Instana Enterprise Observability Platform



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