
AWS
re:Invent
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PRT064

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Achieving software health in the microservices age

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Why focus on software health?

Downtime is expensive

- Average medium-to-large enterprise downtime cost ranges from $7,020 to $11,300 per minute (Gartner)
  - Inflation-adjusted from $5,600 to $9,000 per minute in 2014
    - Medium business: $7,000 per minute
    - Large enterprise: $11,300 per minute
- Downtime cost = minutes of downtime x cost per minute
  - Cost of 5 minutes of downtime
    - Medium business = $35, 000
    - Large Enterprise = $ 56,500

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Why focus on software health?

Damage to reputation from downtime

- Tweets about downtime happen within minutes
- Extended downtime or disruptions leads to negative social media attention

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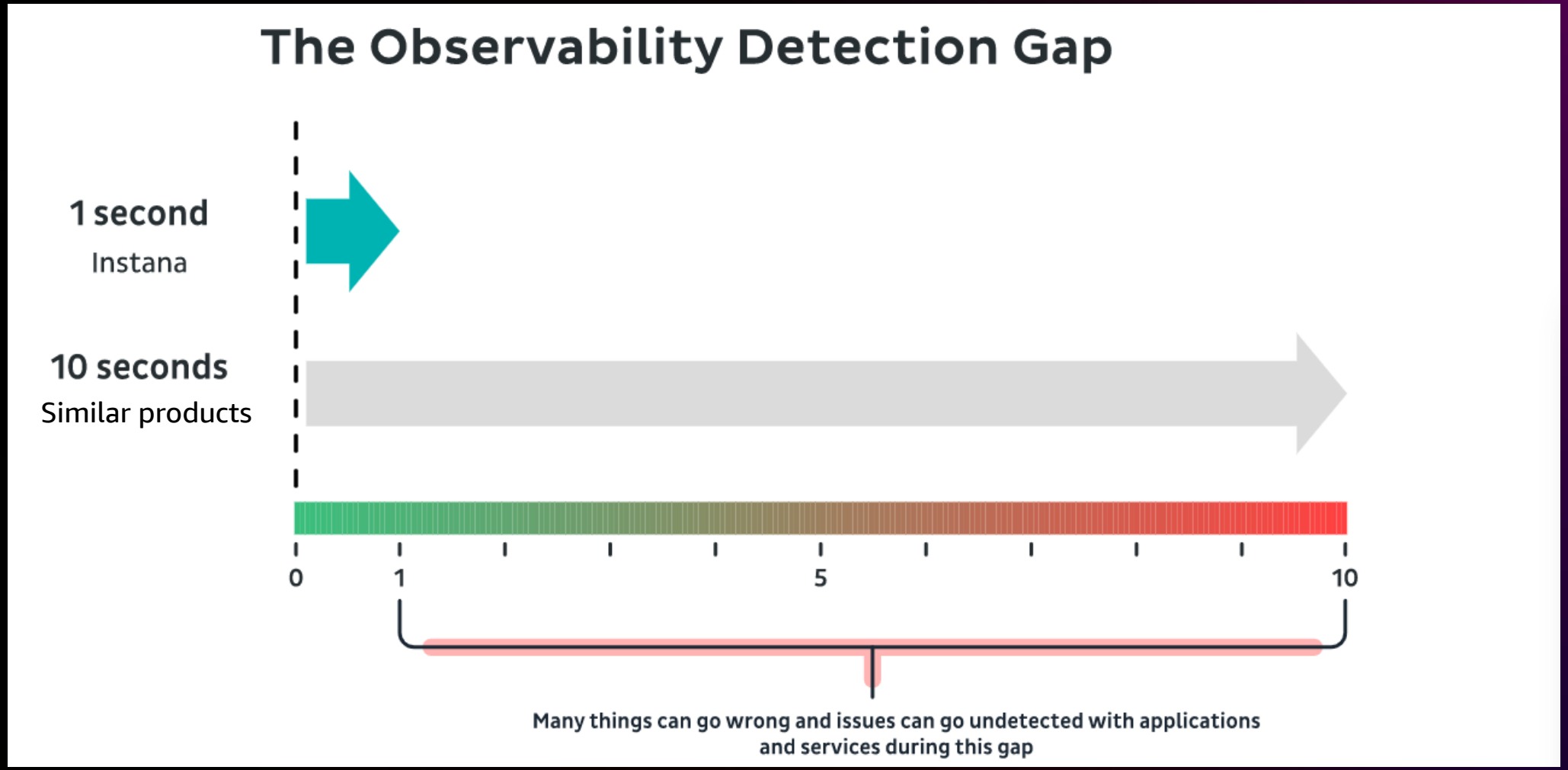
Instana’s real-time observability attributes

Detect and remediate issues before they become incidents

- 1-second metrics for 24 hours
- 3 seconds to notification
- Full end-to-end traces, no sampling

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Instana versus similar products



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Key Instana capabilities

Notifications

AI-driven smart alerts

Context

Stream processing

Unbounded analytics

Application perspectives

Intelligent action

Machine learning for actionable information

Correlated alerting and incident reporting

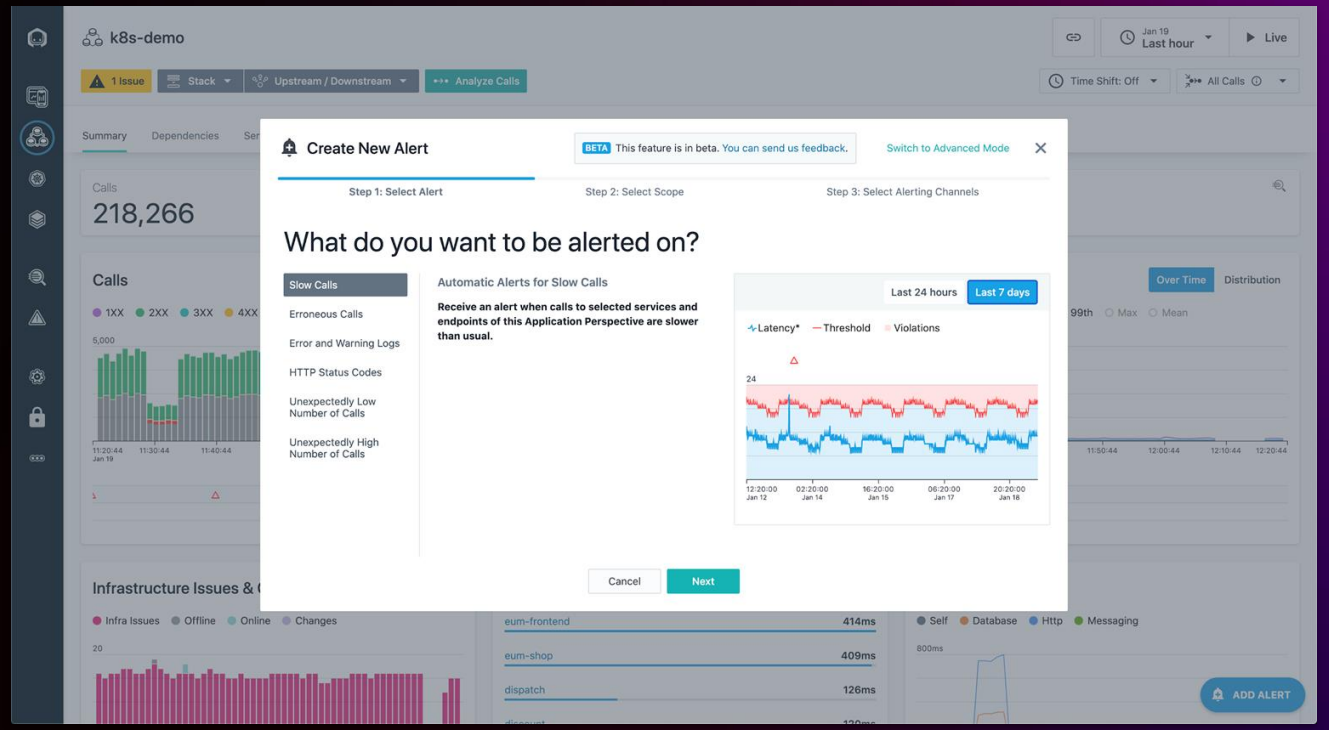
Guided troubleshooting

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Intelligent action capabilities

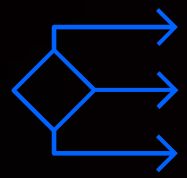
Smart alerts

- Use case–based alerting
  - Alert suggestions and recommendations
  - Automated and manageable alerts
- Arbitrary filtering
- May invoke AIOps

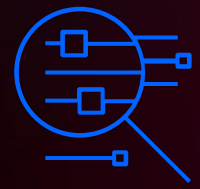


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Observability plus AIOps remediation



Real-time observability



Application resource management (ARM) and optimization

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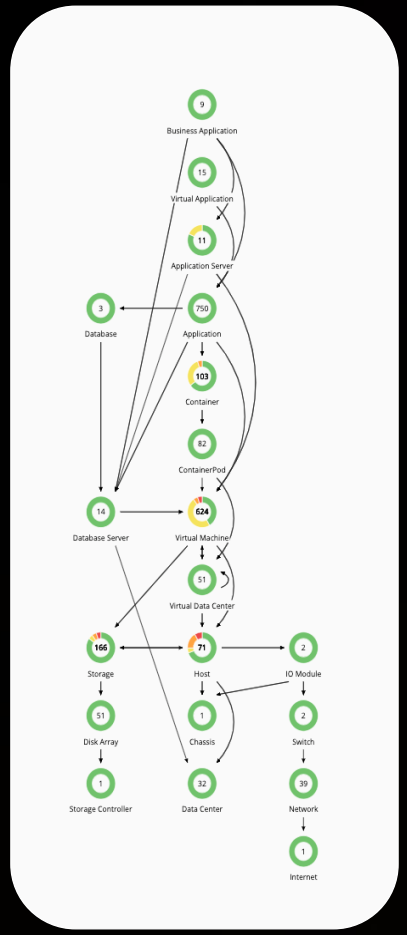
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TURBONOMIC

REAL-TIME APPLICATION RESOURCE MANAGEMENT



CURRENT: MANUAL, THRESHOLD-BASED RESOURCING

ARM: PREVENTATIVE AI ACTIONS, ON-DEMAND RESOURCING

APPLICATION RESPONSE TIME

$$$

Underutilized

Move

Scale-Up

Scale-Out

Scale-Down

TARGET RESPONSE TIME

ALERTS

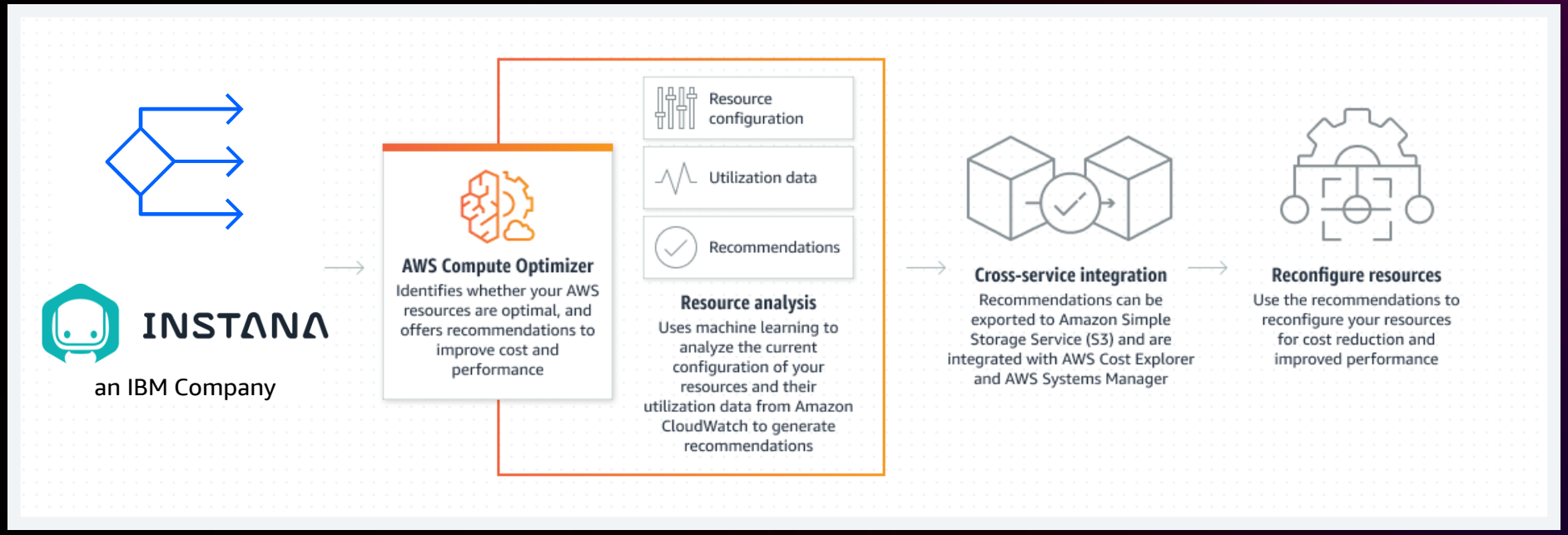
AUTOMATED ACTIONS

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Announcing Instana integration with AWS Compute Optimizer

Use Instana metrics to improve Compute Optimizer value and unlock additional savings, performance, and accuracy in Compute Optimizer recommendations

Evaluate rightsizing recommendations metrics CPUs
Configure enhanced infrastructure Streamline migration to AWS Graviton



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