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AI Ops Use Cases With Splunk. No Bullsh... Just IT!

OBS1299C

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Agenda

- 1) What is AIOps anyway?
 - In our own words... no fluff.
- 2) Splunk IT & Observability Portfolio
 - A little AIOps for everyone!
- 3) Real-life AIOps Use Cases
 - Understandable and actionable.



According to “Leading Industry Analysts” AIOps is...





AI Ops is...

A *murky and confusing* subject, often bloated with intangible or inactionable *buzz words*.

Our Definition of AIOps is...

Our Definition of AIOps is...

Any *novel*

Intelligence

within the platform, allowing people to *operate significantly more effectively*

Our Definition of AIOps is Intelligent...

Visualizations



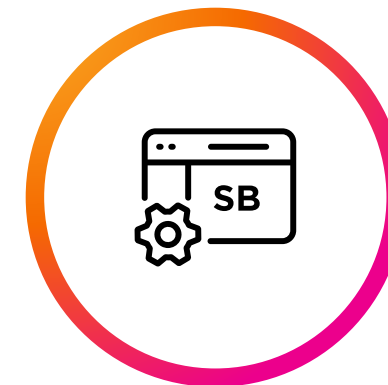
Presenting complex information simply for maximum insights in minimal time

Detection & Alerting

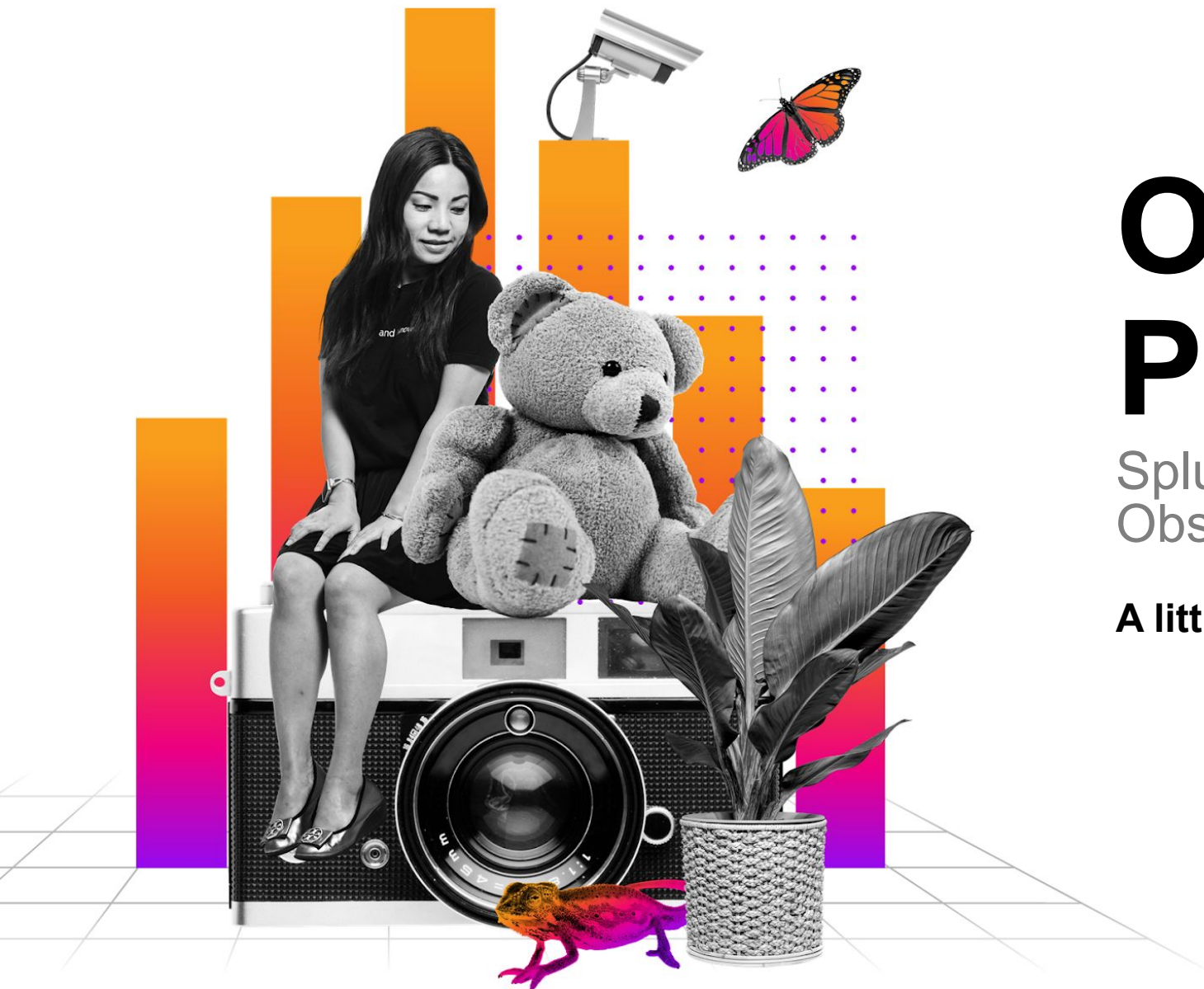


Produce trusted alerts while minimizing alert volume and false positives

Automation



Reduce wasted time by automating common tasks



Observability Portfolio

Splunk's Platform Portfolio for IT & Observability

A little AIOps for EVERYONE!

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Splunk IT & Observability Portfolio

Splunk's IT & Observability Platform

Metrics

Traces

Logs

On-premises

Hybrid Cloud

Multicloud

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Splunk IT & Observability Portfolio

Infrastructure Monitoring

Splunk's IT & Observability Platform

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Splunk IT & Observability Portfolio

Application Monitoring

Infrastructure Monitoring

Splunk's IT & Observability Platform

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Logs

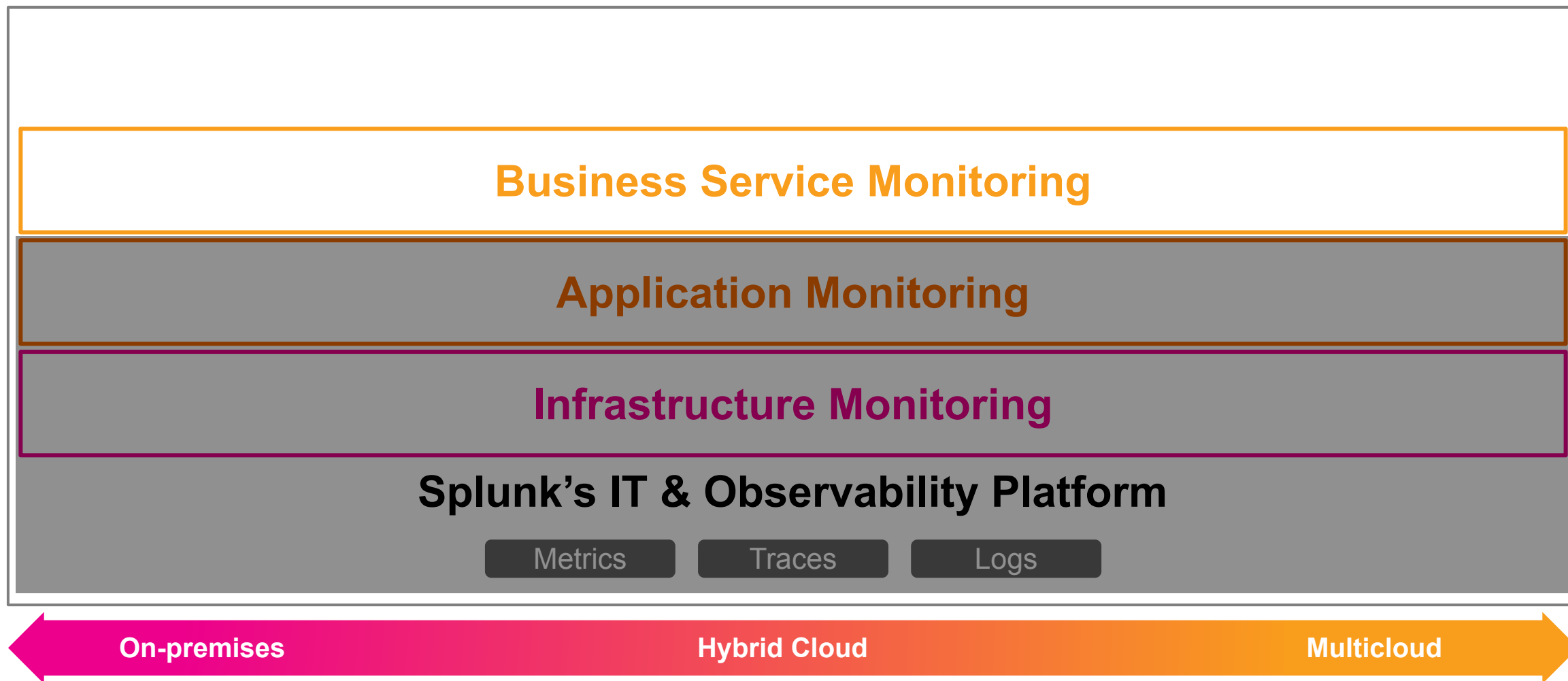
On-premises

Hybrid Cloud

Multicloud

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Splunk IT & Observability Portfolio



Splunk IT & Observability Portfolio

Event & Incident Management

Business Service Monitoring

Application Monitoring

Infrastructure Monitoring

Splunk's IT & Observability Platform

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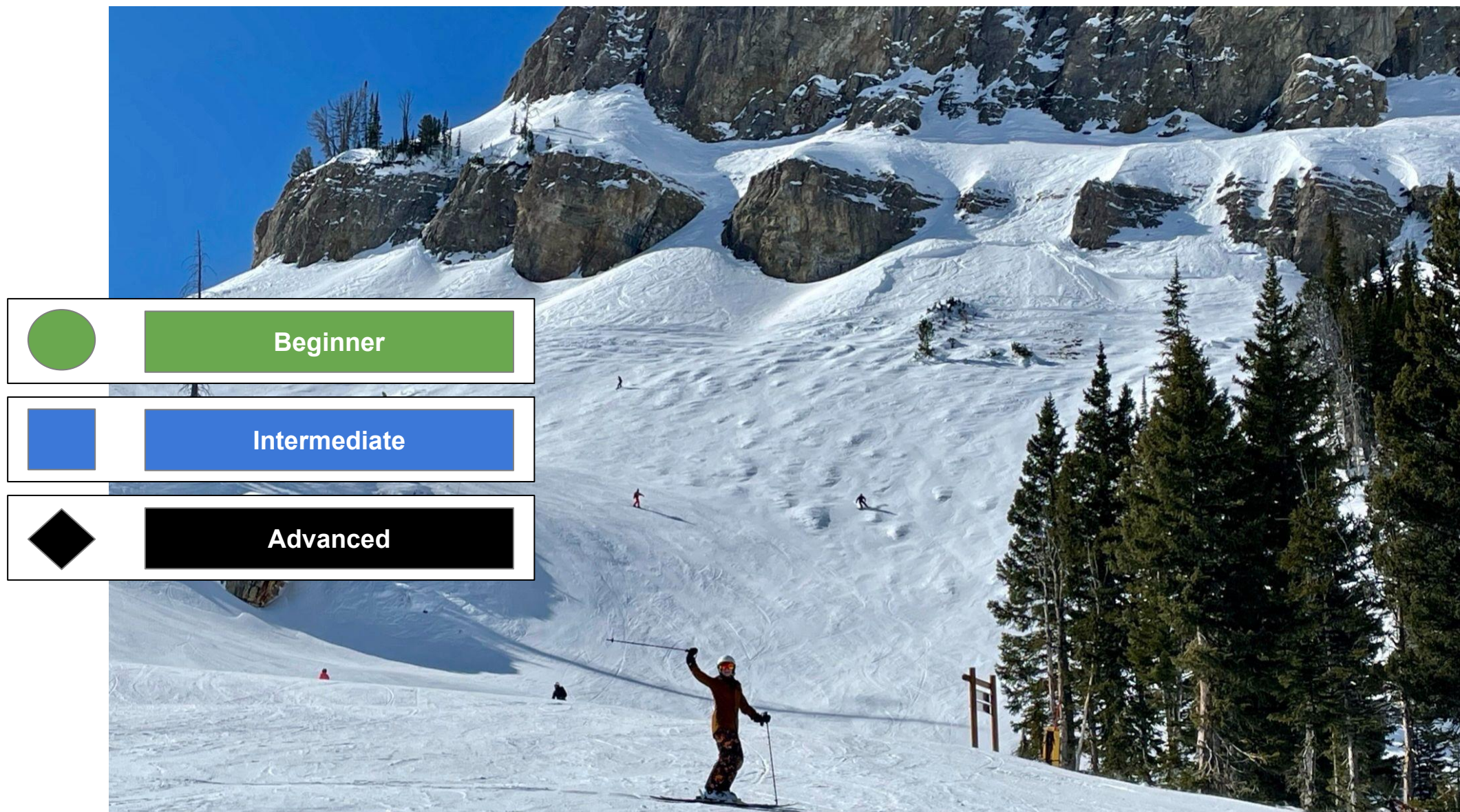


On-premises

Hybrid Cloud

Multicloud

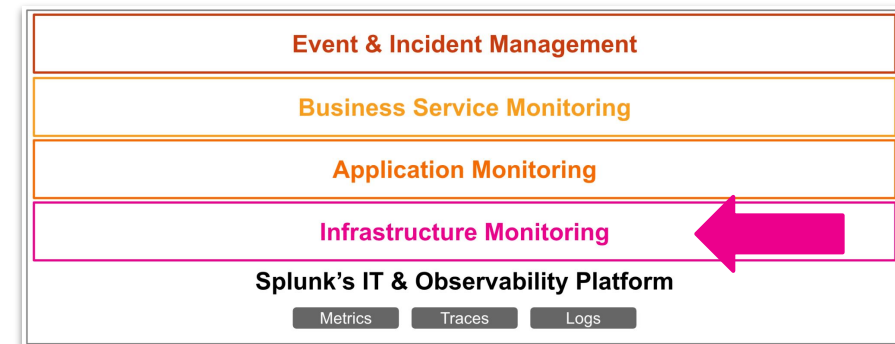
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AIOps Use Cases

For Infrastructure Monitoring

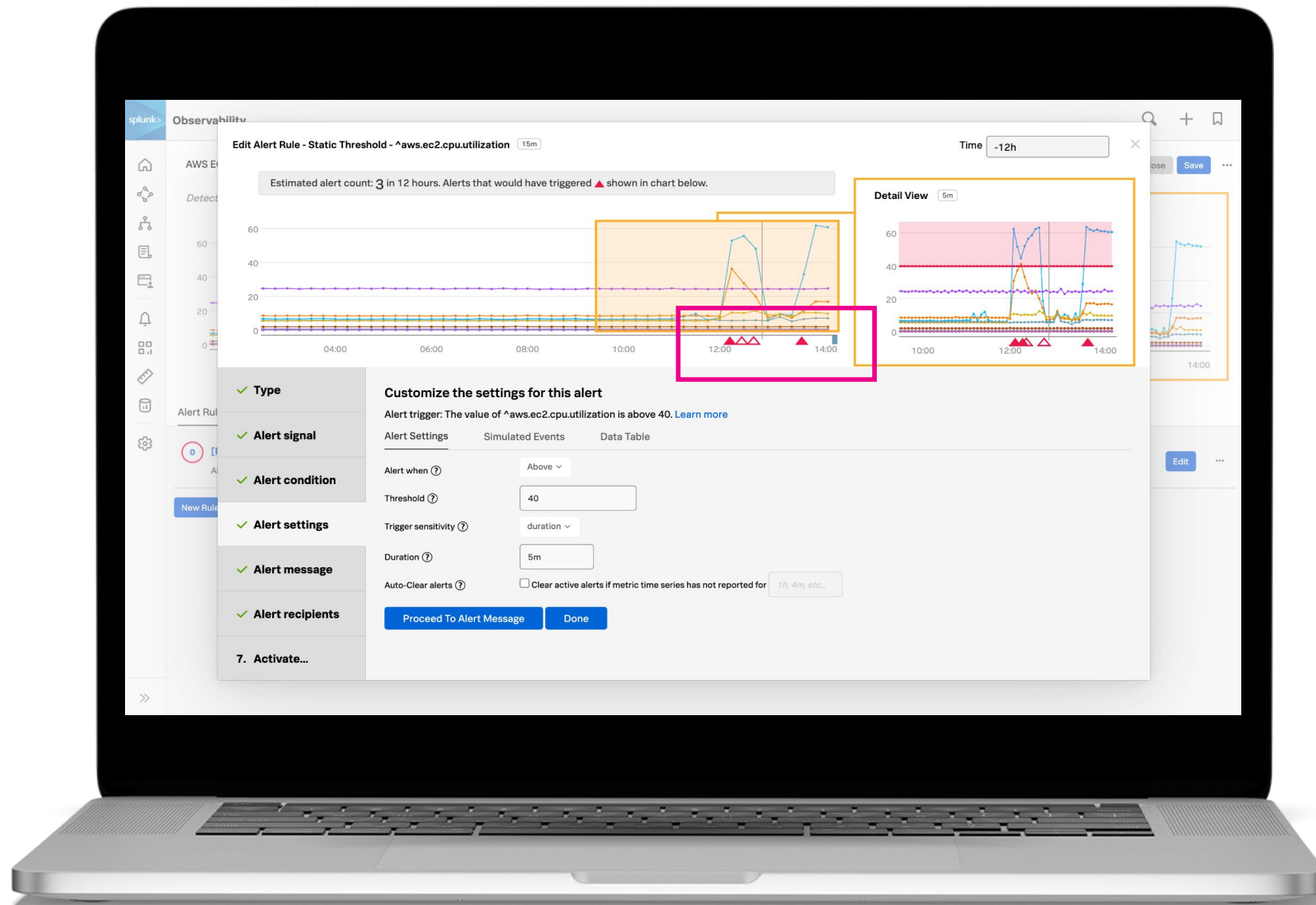




Beginner

Interactive Alert Preview

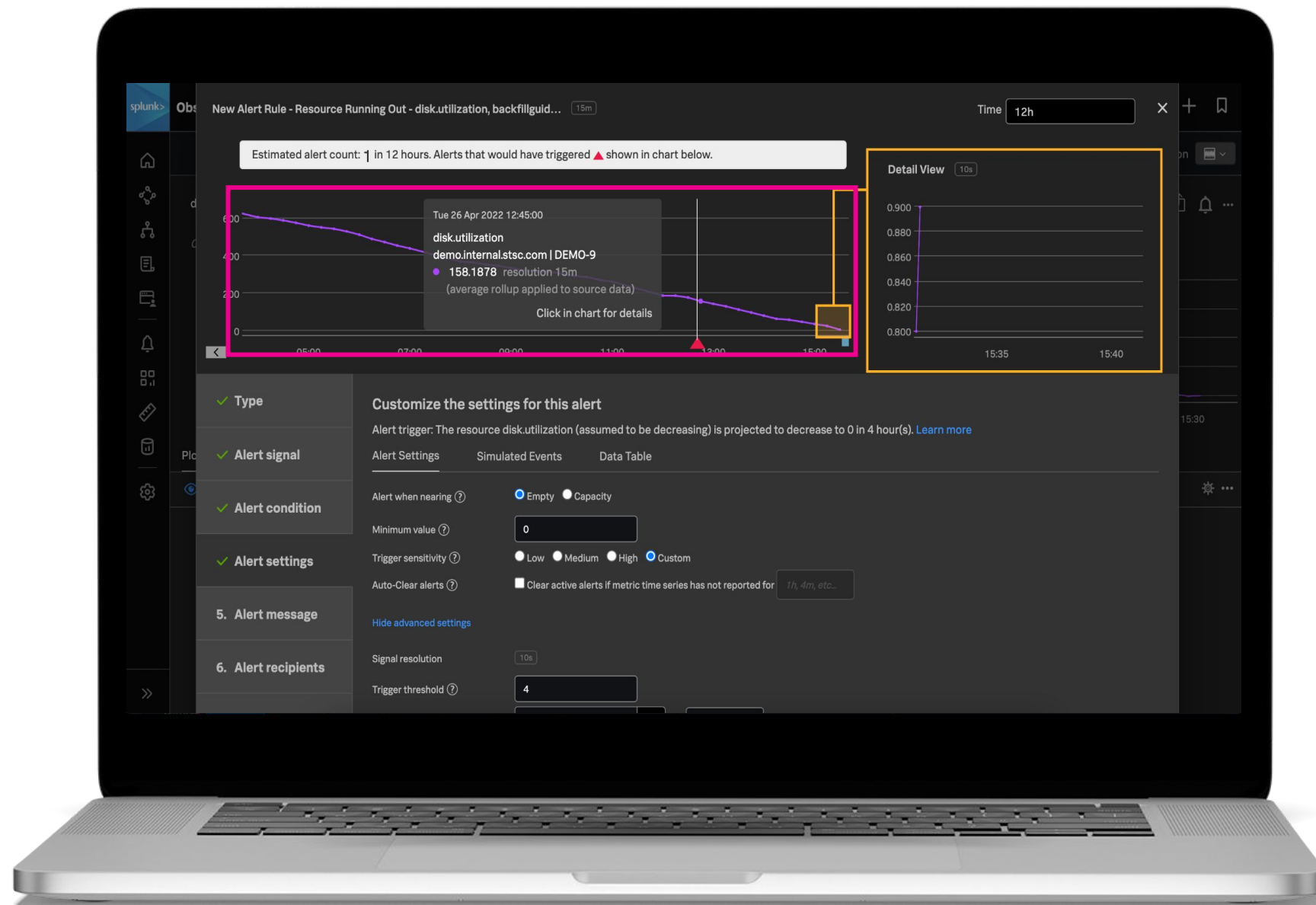
Real-time validation of alert configurations based on historical data



Intermediate

Capacity Nearing Exhaustion

Alert when the capacity of a resource is predicted to trend to complete exhaustion at a future point in time

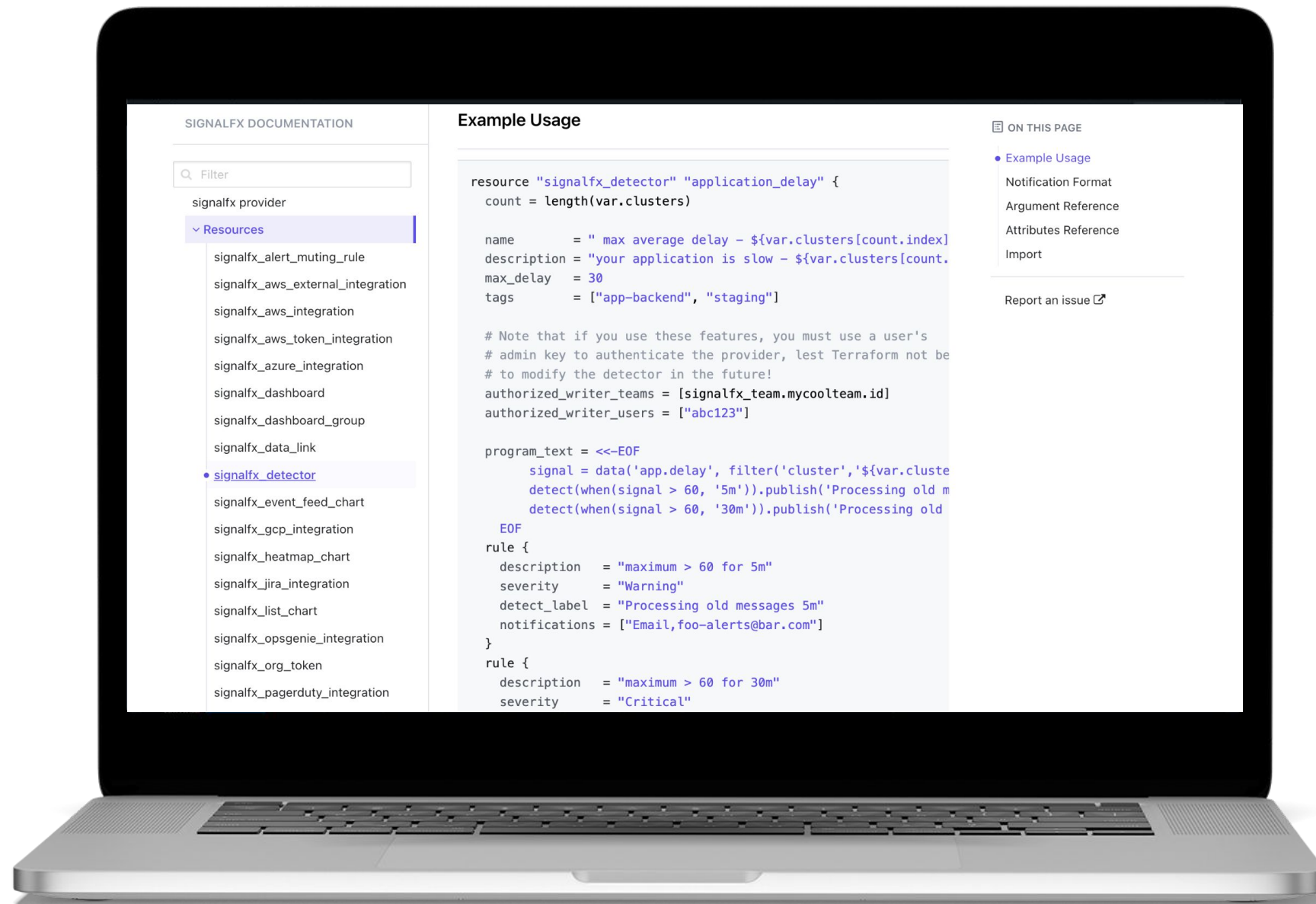


**Advanced**

Observability as Code

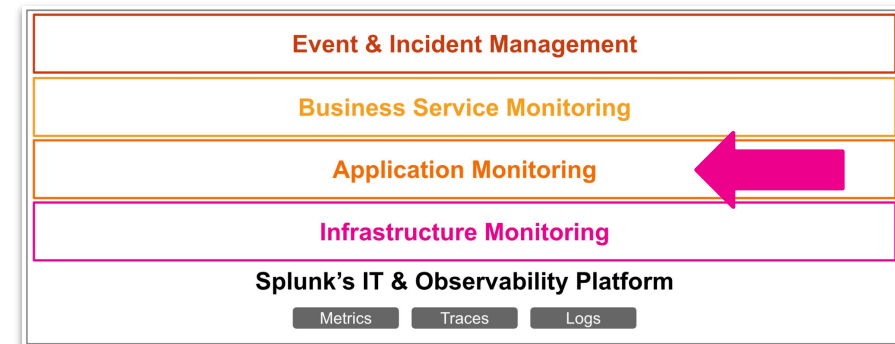
With Terraform

Automate monitoring
configuration within the CI/CD
pipeline and “shift-left”
observability responsibilities
into the development process



AIOps Use Cases

For Application Monitoring

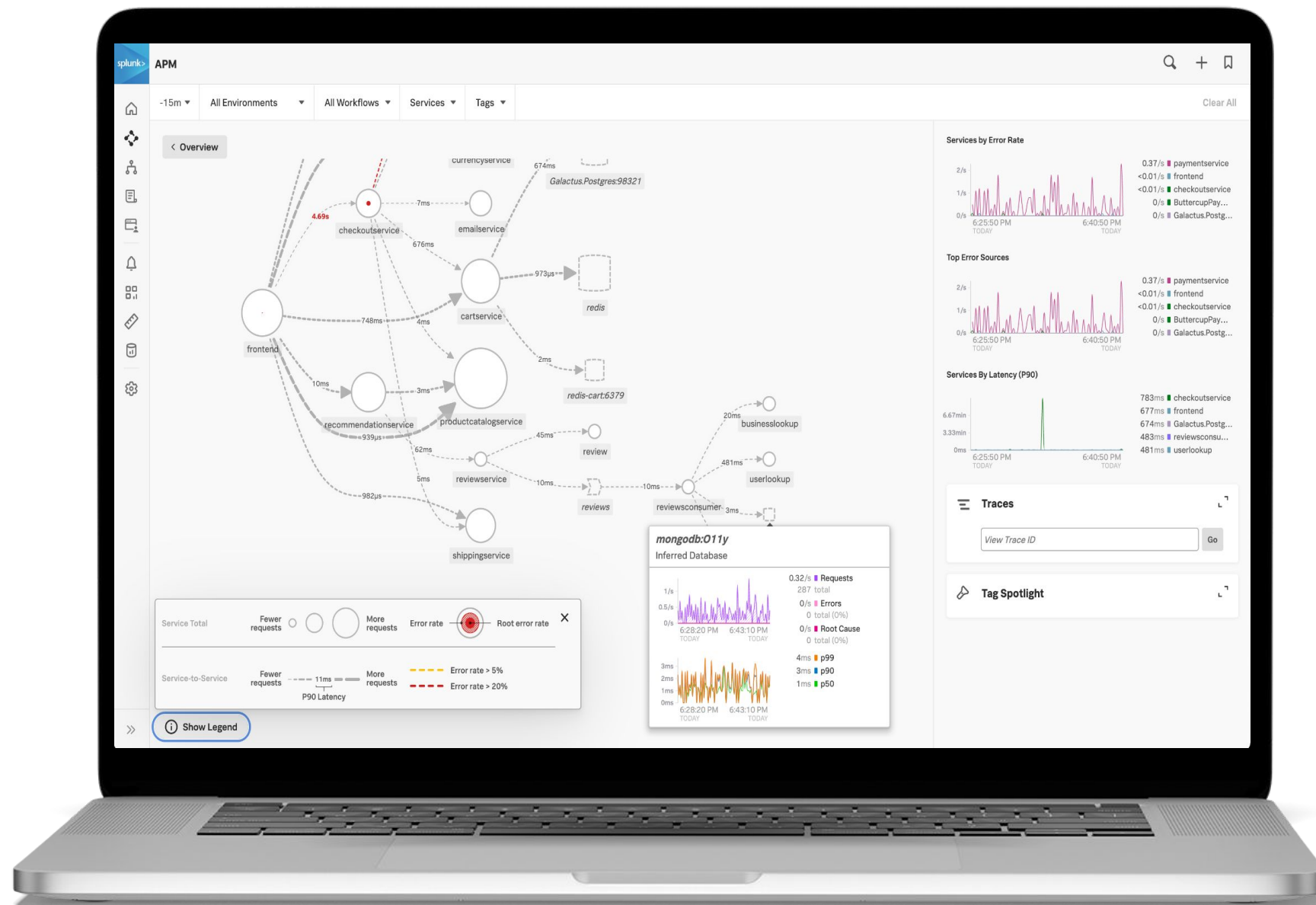




Beginner

Automated Service Mapping

Automatically infer services that are not explicitly instrumented

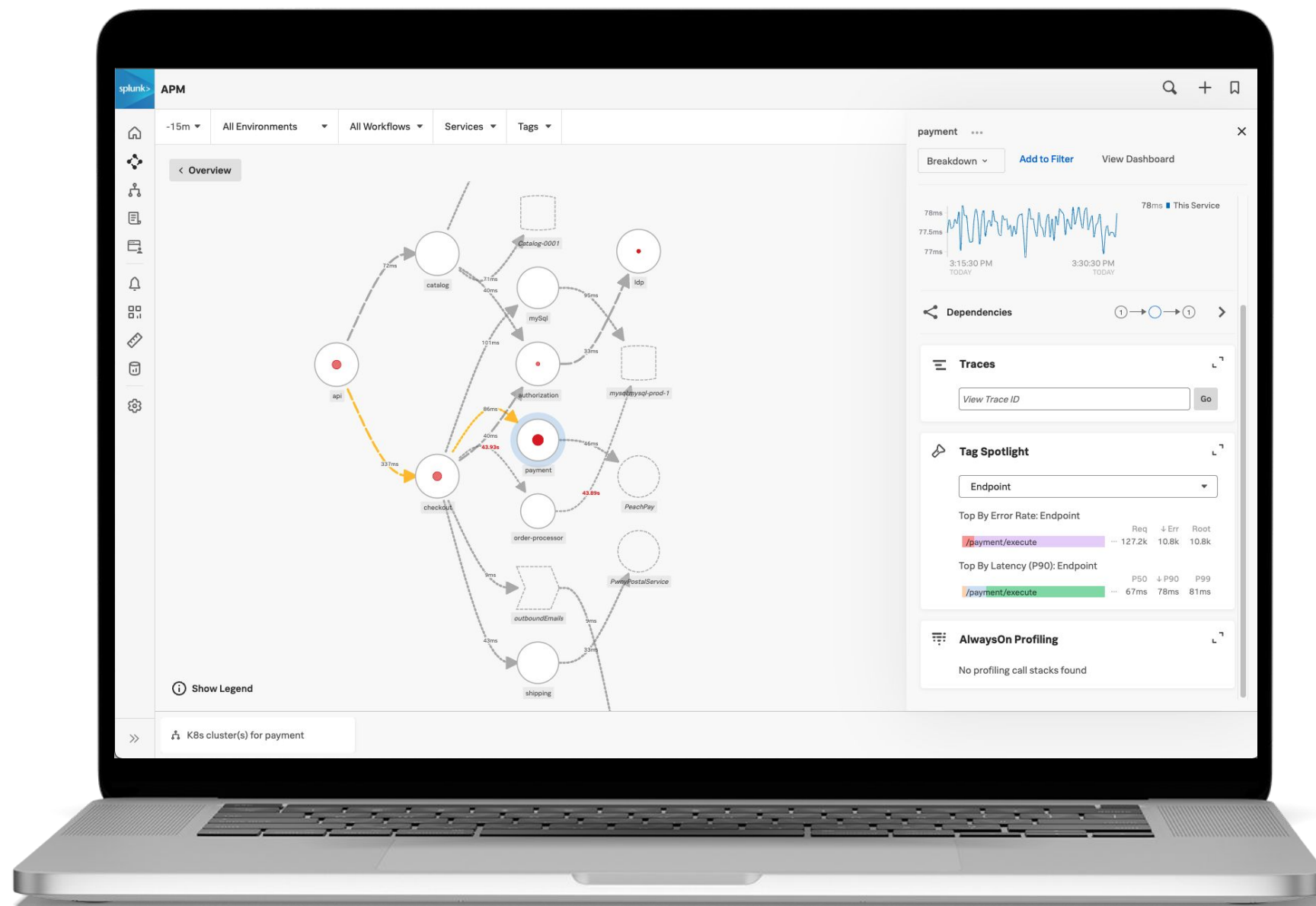




Beginner

Suggested Root Cause Path

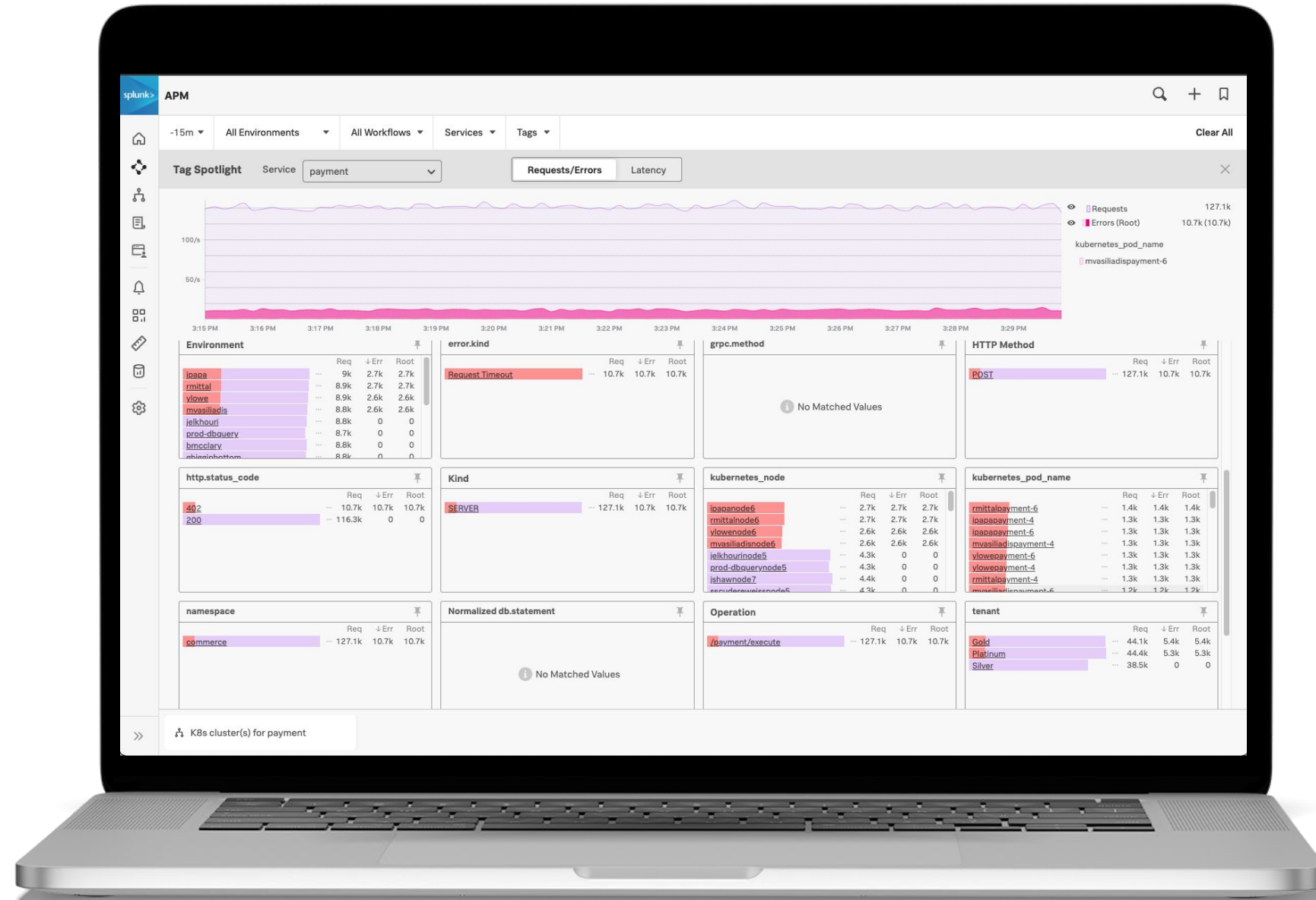
Automatically identify and surface which node in a distributed trace is the "root cause" of the errors seen



Intermediate

Tag Spotlight

Understand blast radius and severity of incident with smart visualizations in Tag Spotlight

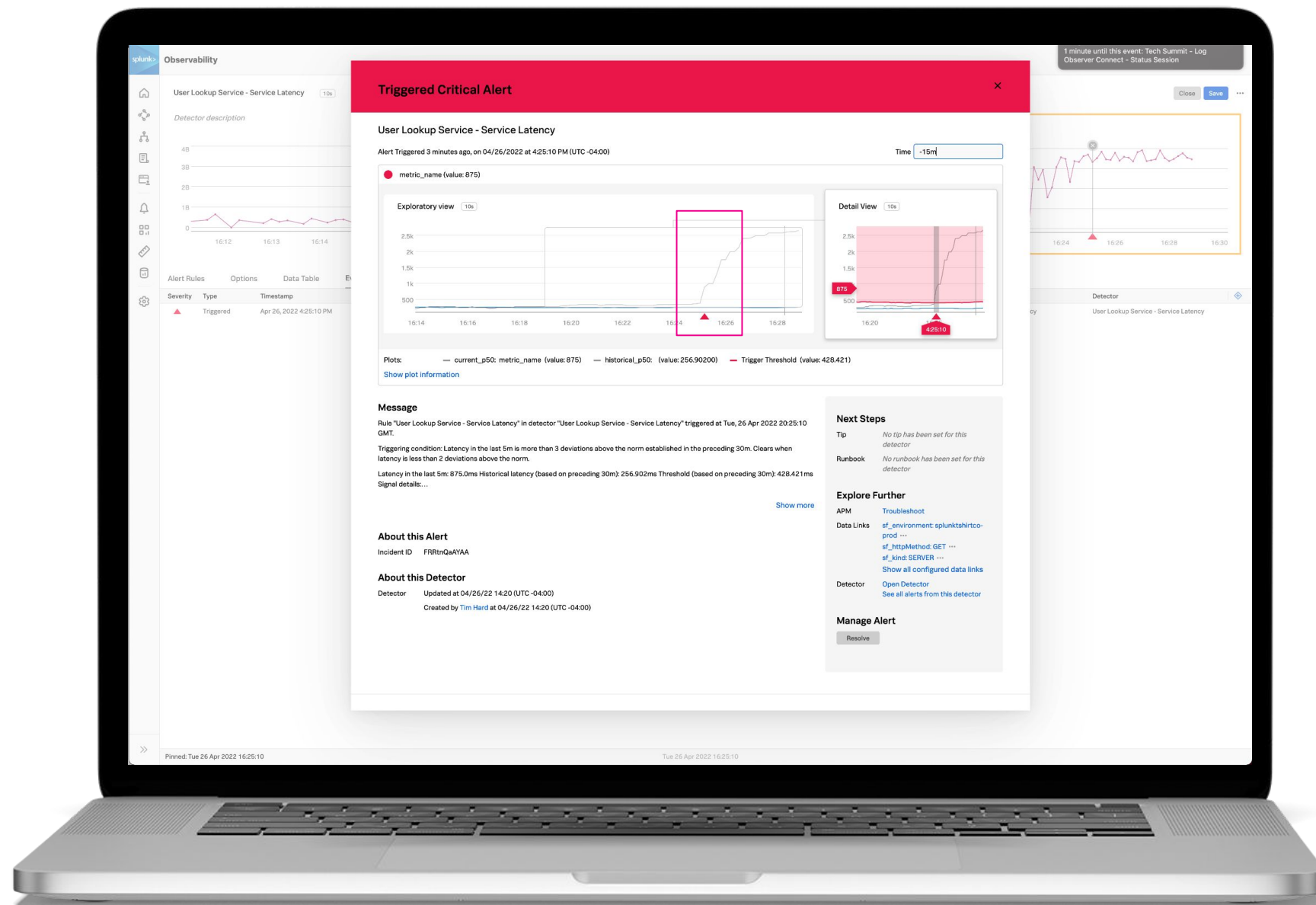


Intermediate

Auto-Baseline Alerting

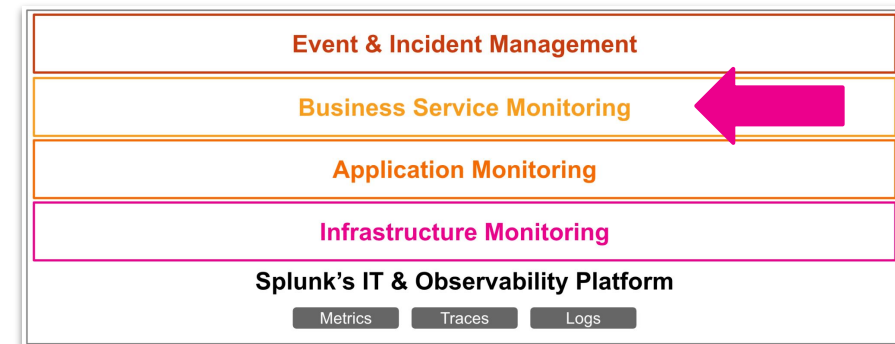
for APM Service Metrics

Alert when there are sudden spikes or historical anomalies in APM metrics



AIOps Use Cases

For Business Service Monitoring

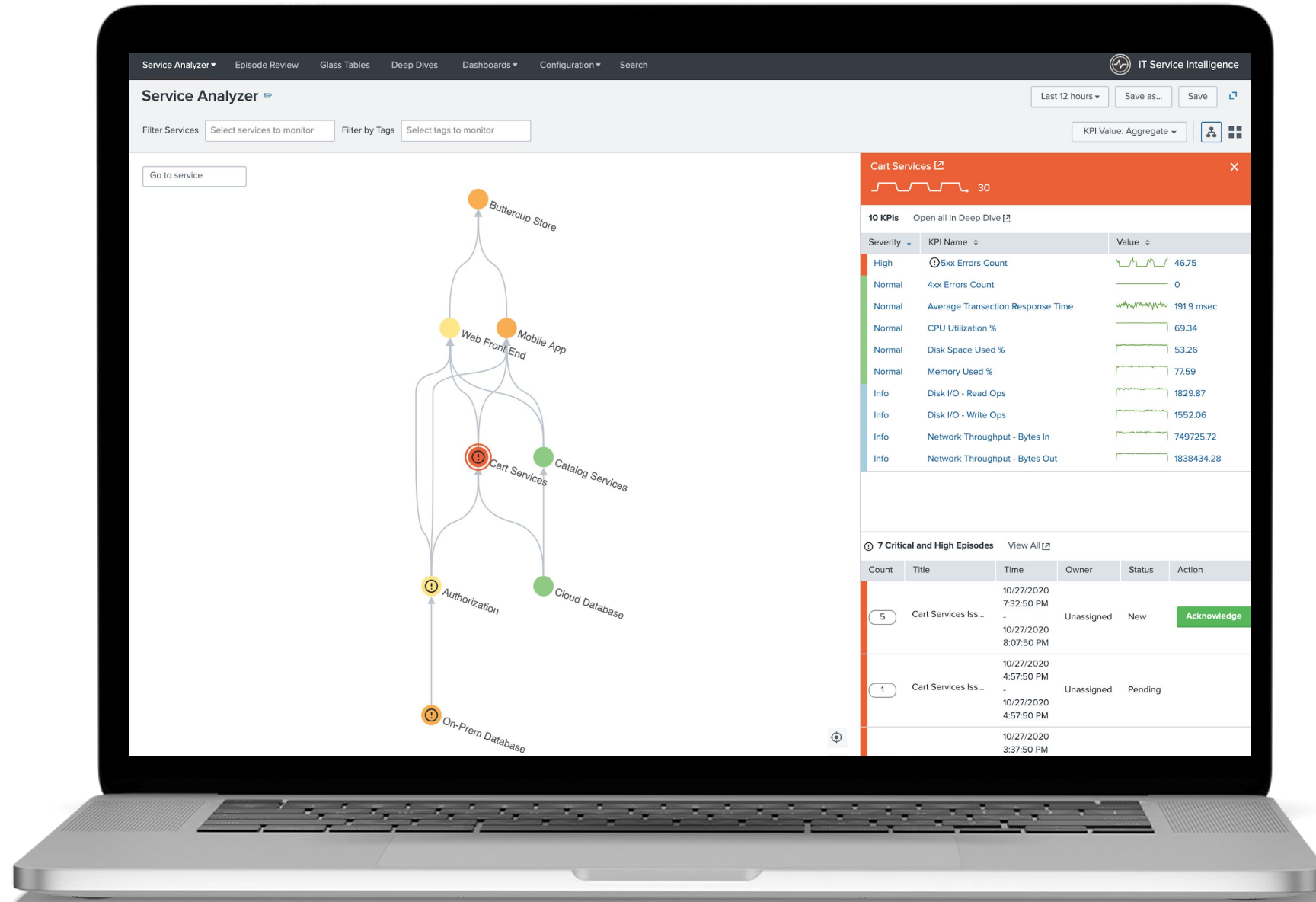




Beginner

Topological Service Mapping

Automatically identify and highlight possible root cause event within an ITSI Episode

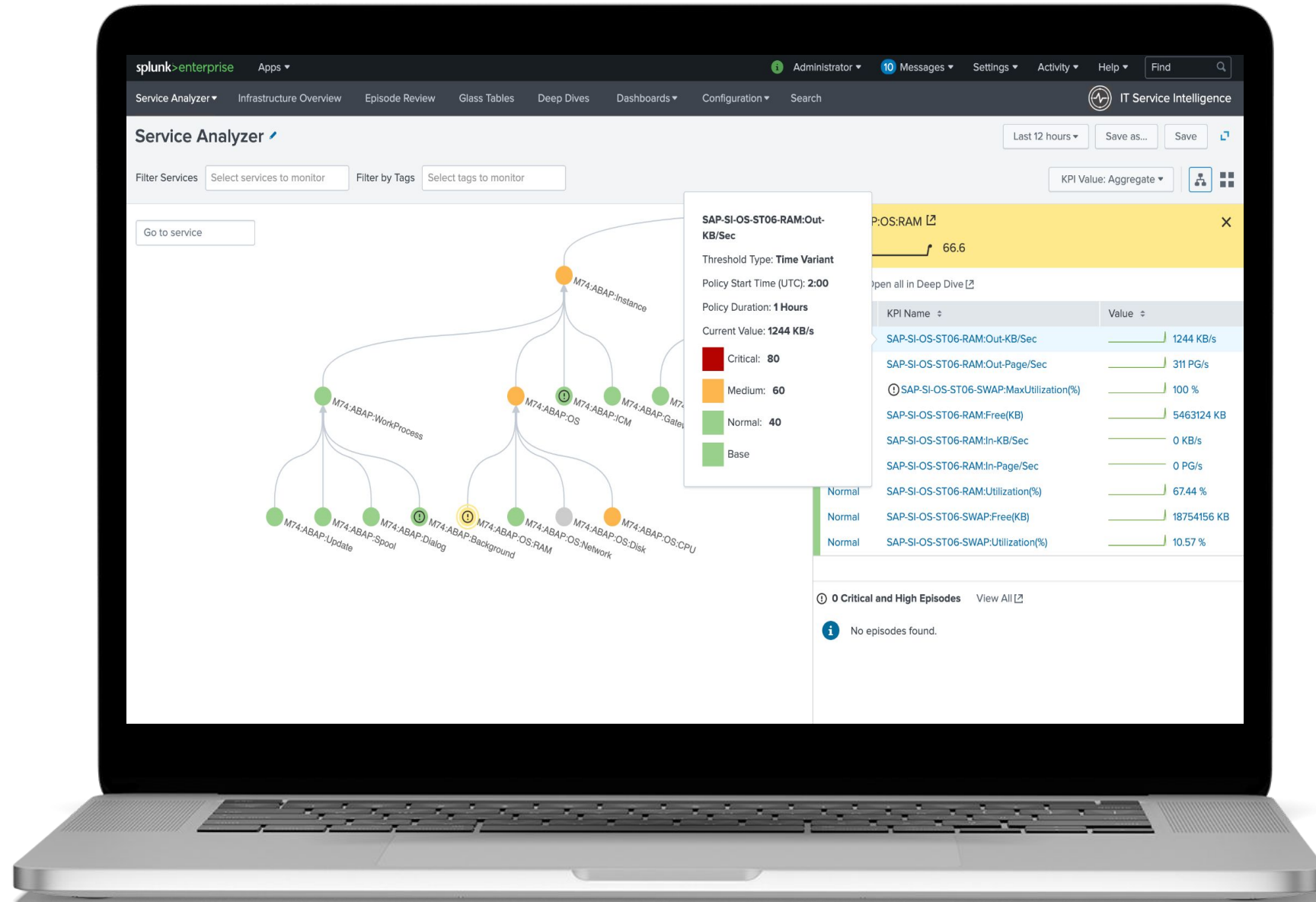




Beginner

Early Warning Alerting

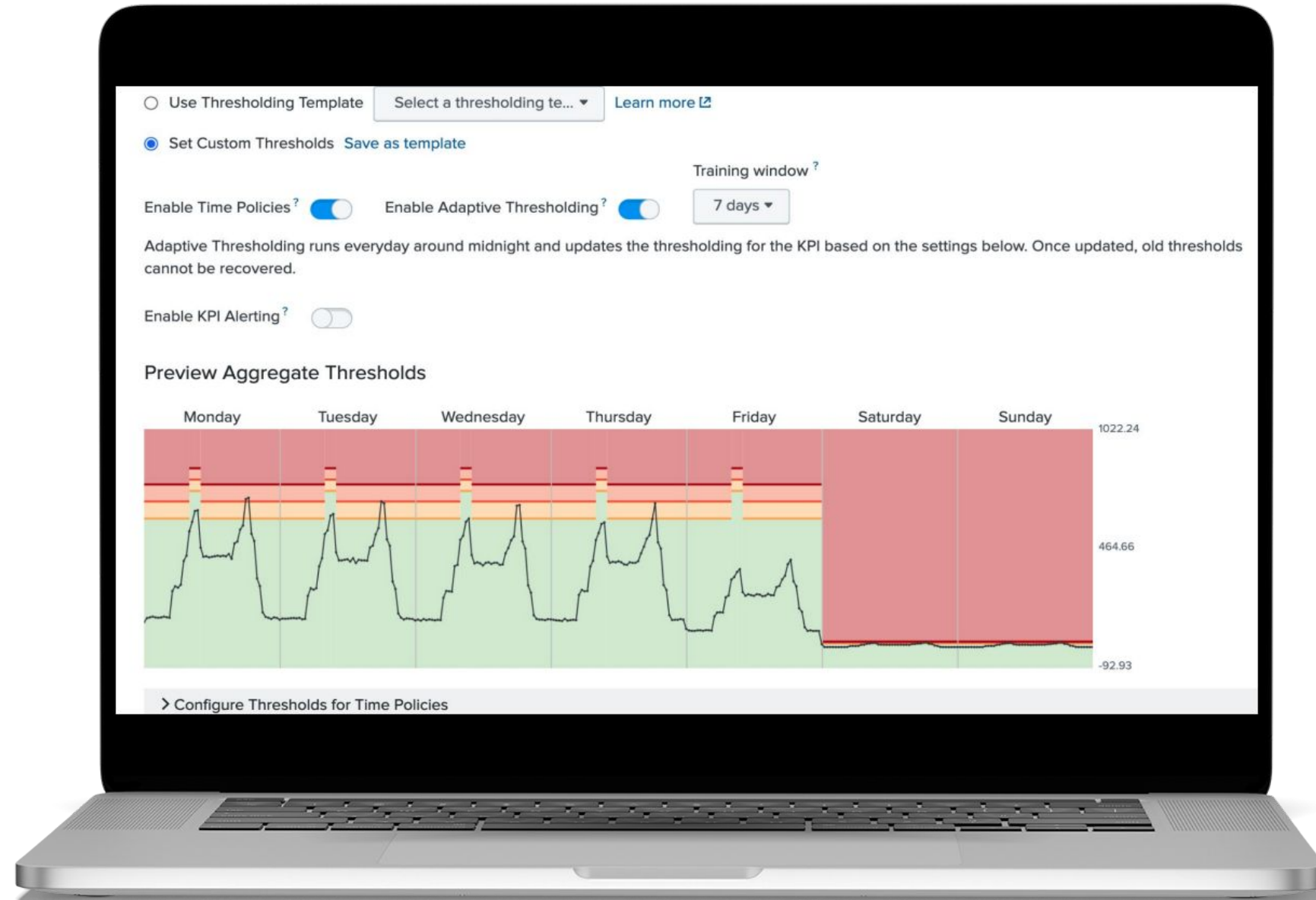
Alert on a spectrum of health
(low, medium, high, critical)



Intermediate

Auto-Baseline Alerting

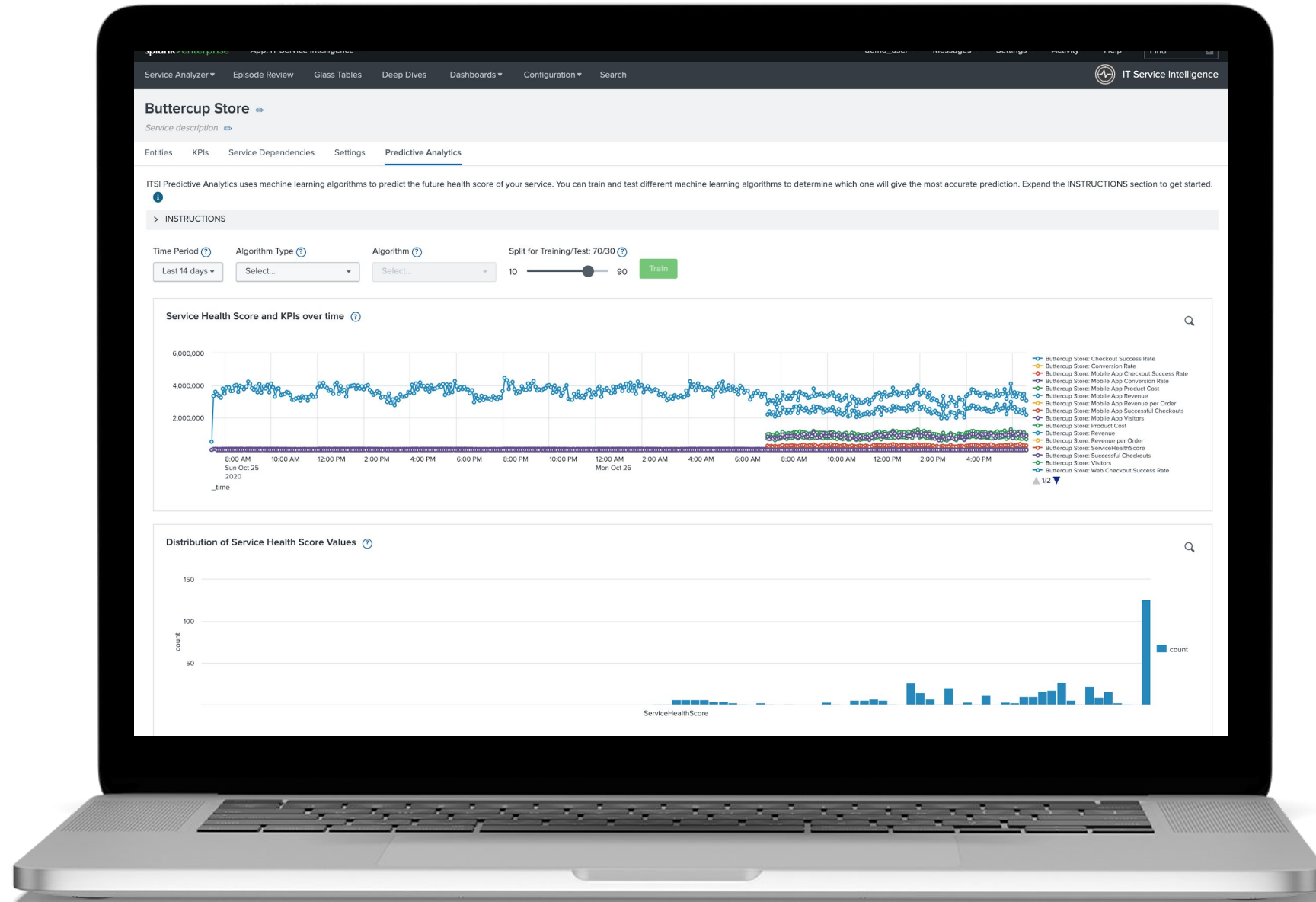
Alert when a KPIs behavior deviates from its historical behavior



**Advanced**

Predictive Alerting

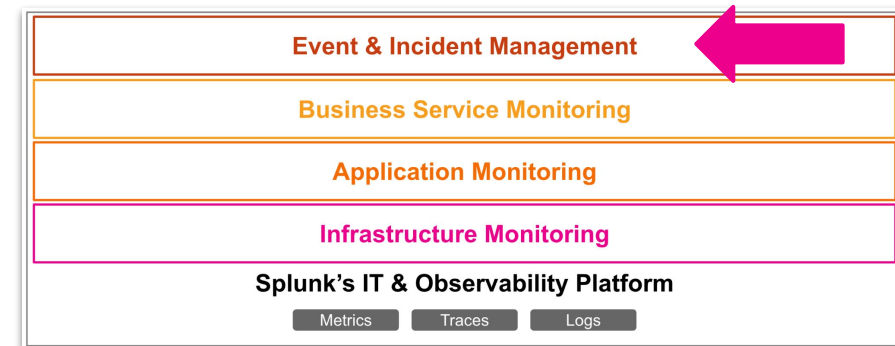
Alert on potential future incidents based on ML models trained from past incidents





AIOps Use Cases

For Event & Incident Management

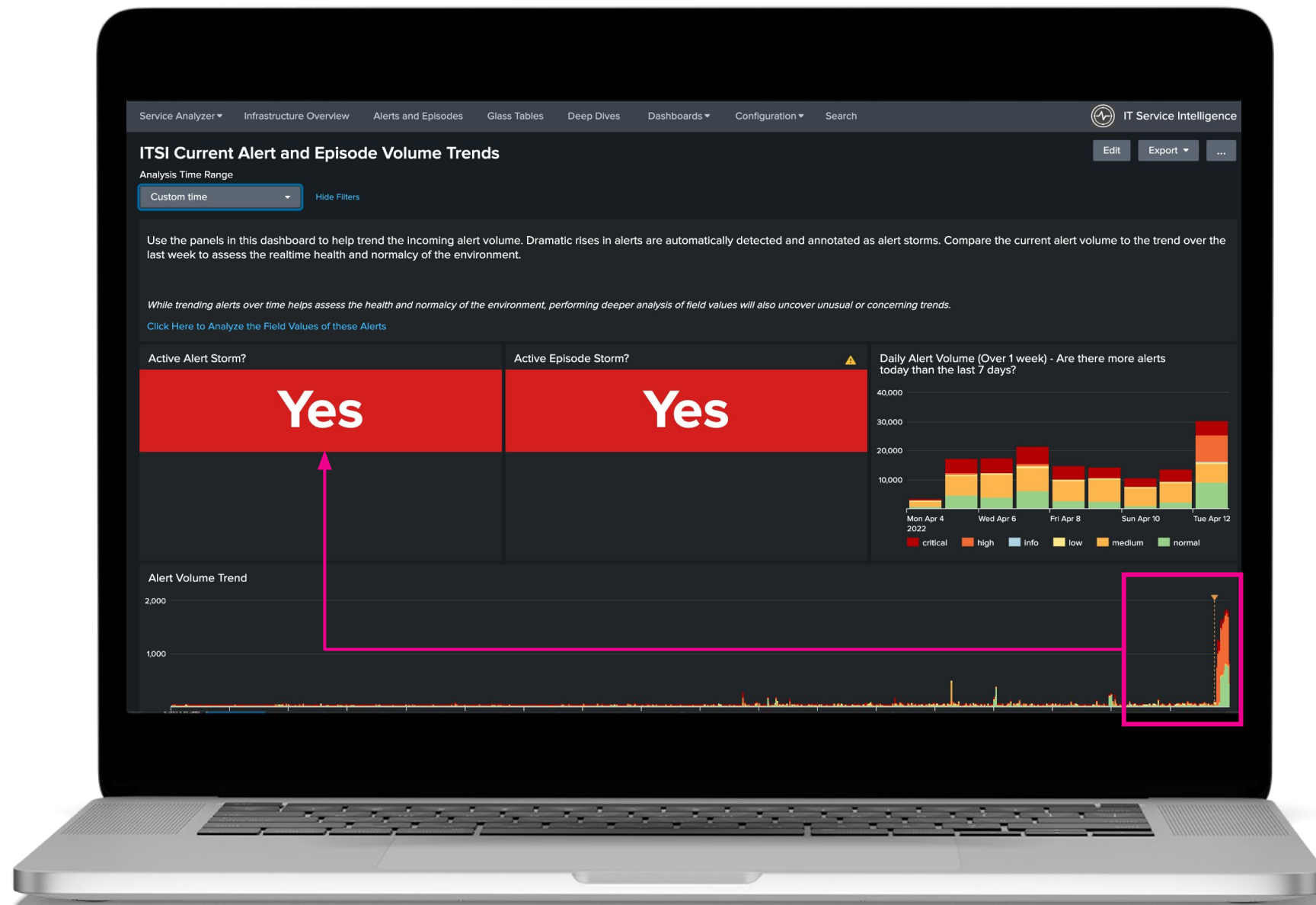




Beginner

Alert Storm Detection

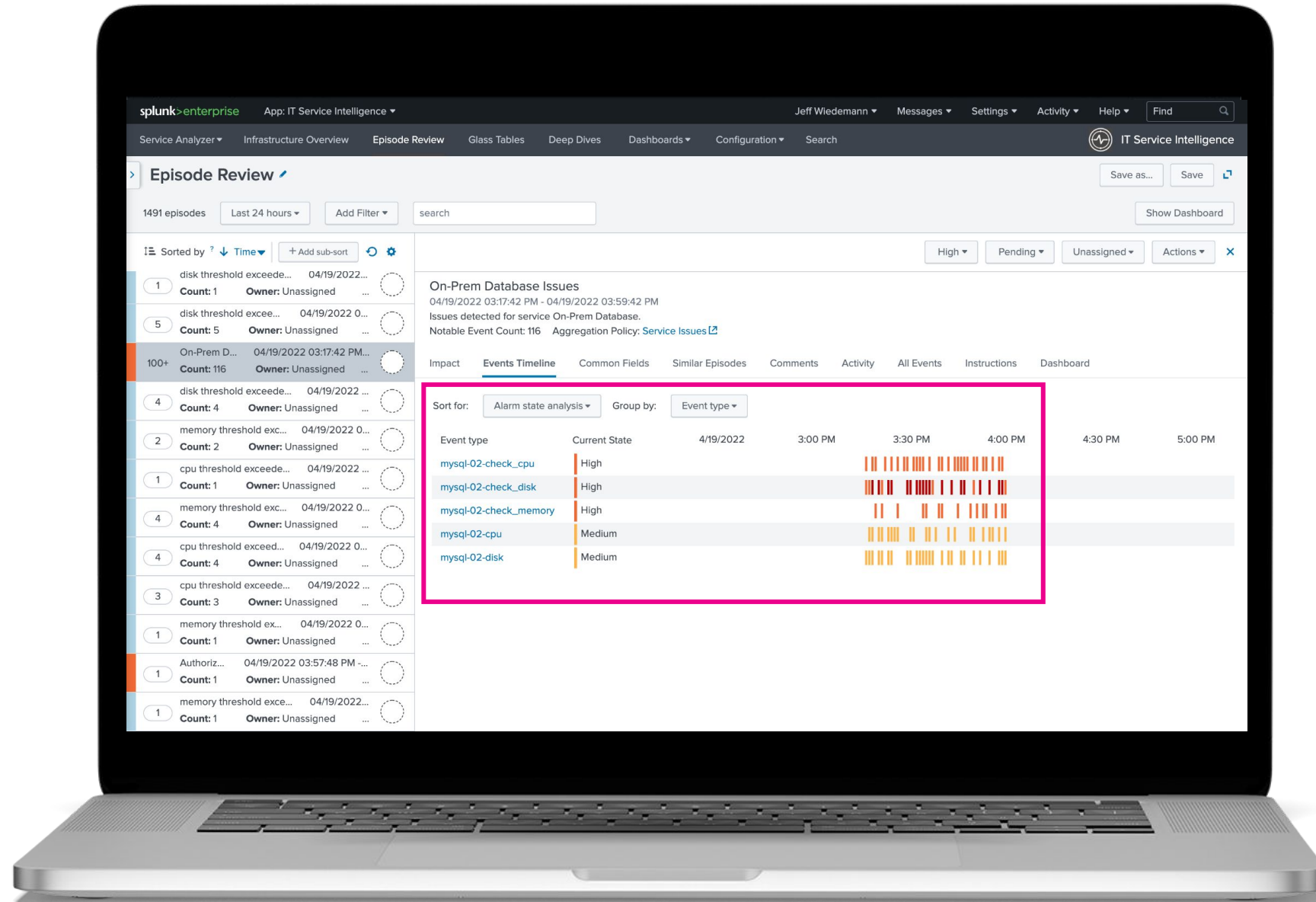
Use machine learning to automatically detect and alerts on active alert and episode storms by comparing current alert volumes against historical norms



Intermediate

Event Clustering & Correlation

Group together related alerts using various algorithms to reduce noise and visually correlate related and causal alerts during triage

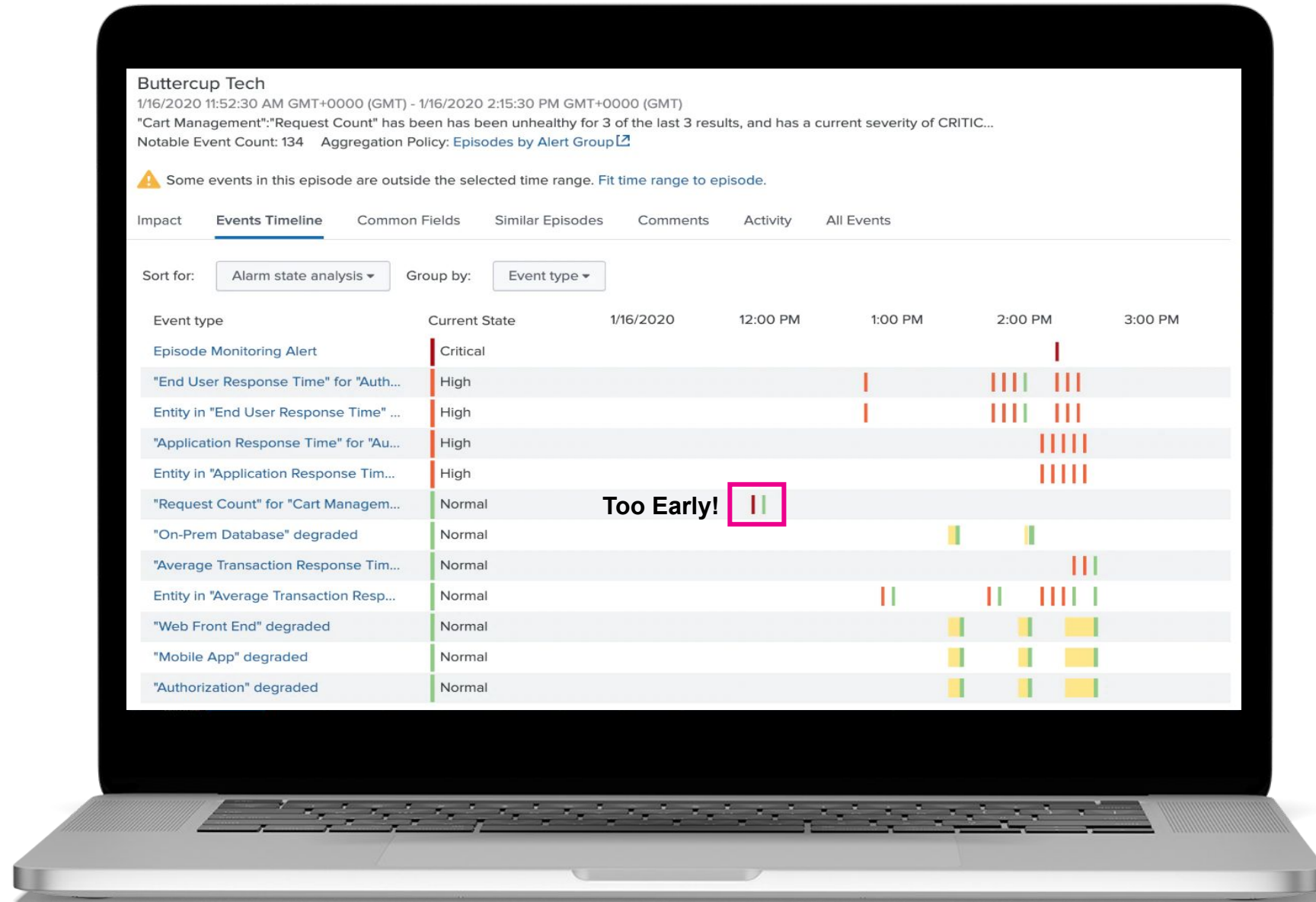




Advanced

Intelligent Alerting & Auto-clearing

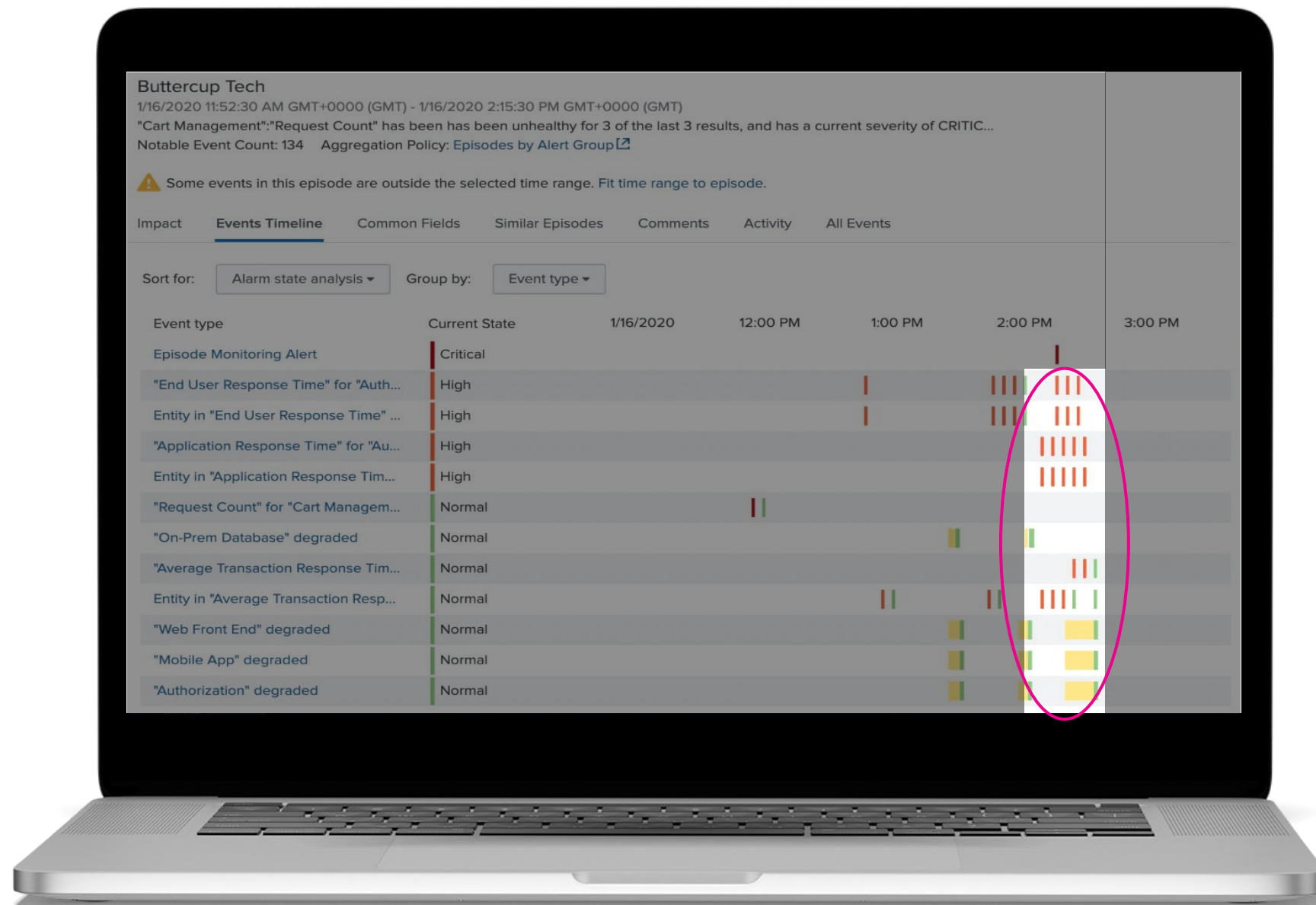
Proactively alert only after incidents begin to exhibit risky or concerning behaviors



**Advanced**

Intelligent Alerting & Auto-clearing

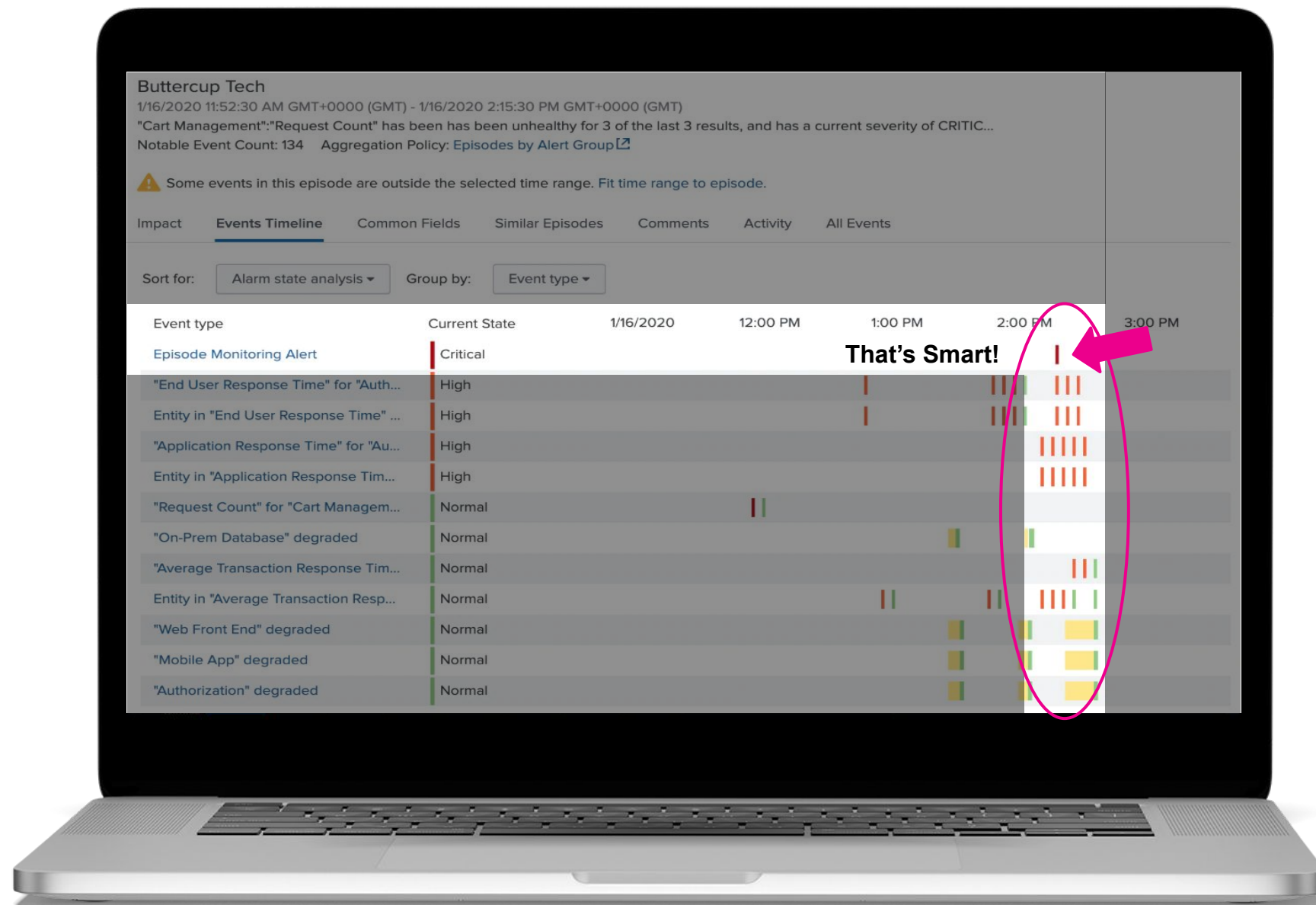
Proactively alert only after incidents begin to exhibit risky or concerning behaviors



**Advanced**

Intelligent Alerting & Auto-clearing

Proactively alert only after incidents begin to exhibit risky or concerning behaviors



That was... a lot!



New Blog Series



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Workshop Glossy



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Thursday Session

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BOSS of Ops & O11y



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Thank You

