# Al-Directed Troubleshooting for 3-Tier Applications

Eliminate the Guesswork - Let Al Pinpoint the Problem!

Michael Raich Product Manager Gatha Sehgal Product Manager CISCO Live

#### Cisco Webex App

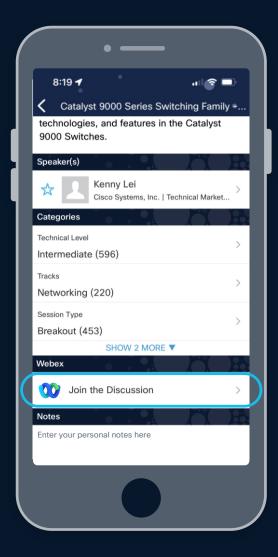
#### **Questions?**

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Webex spaces will be moderated by the speaker until June 13, 2025.



#### Agenda

01	Welcome & Introductions
	Get to know your speakers

- The Troubleshooting ChallengesWhy traditional tools fall short in 3-tier applications
- O3 Al as a Force Multiplier
  Al's Impact on Troubleshooting
- O4 Feature Preview & Demo #1
  See how Al-Directed Troubleshooting helps pinpoint root causes
- O5 Feature Preview & Demo #2
  Walkthrough of Al Insights and how it reduces MTTx
- O6 Key Takeaways & What's Next
  How these innovations impact teams
- O7 Q&A
  Ask us anything!

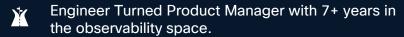
#### Welcome & Introductions

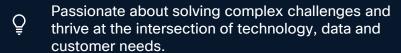
#### Get to know your speakers



Gatha Sehgal Product Manager







Always up for Adventure – whether it's sports or road trips!

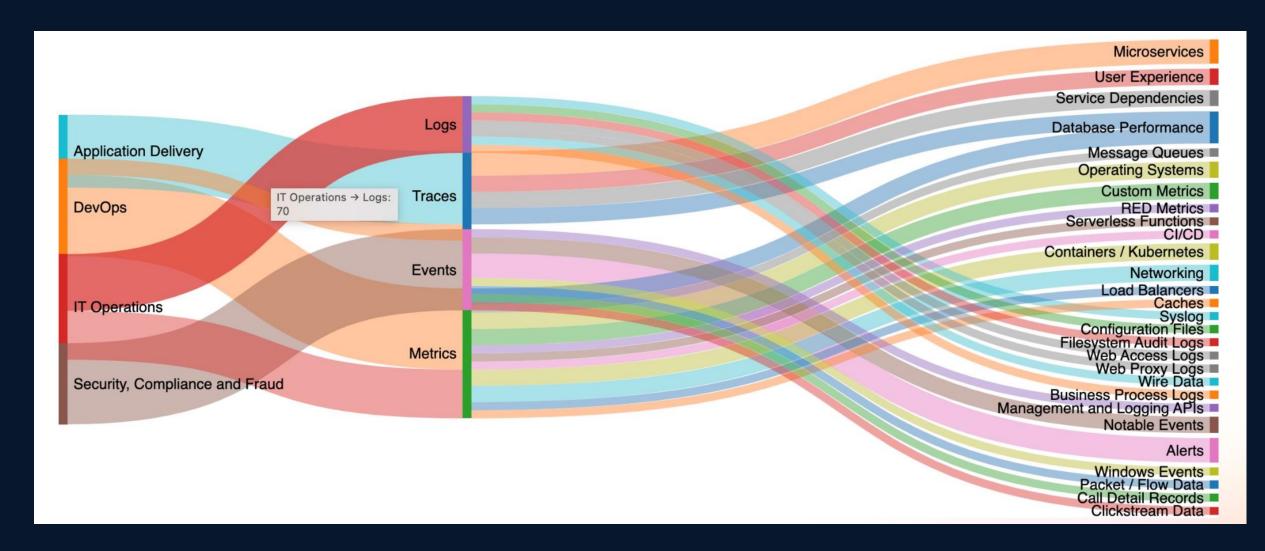


Michael Raich Product Manager

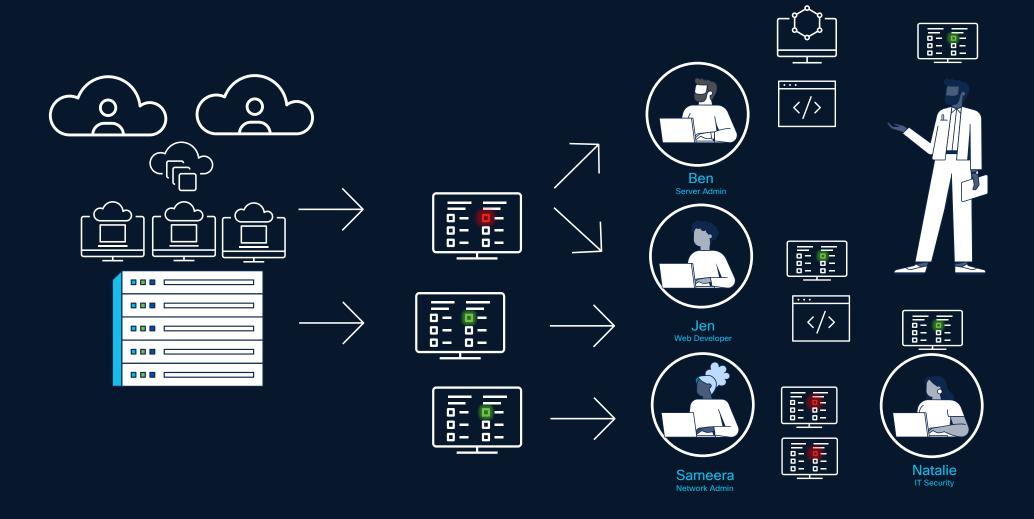
- Driving roadmap for Al Troubleshooting and SAP Monitoring areas.
- Product Manager with 5 years in the observability space; ex PMO and Tech Partner Ecosystem Lead.
- Love to collaborate with partners and customers to 'observe what matters.'
- Ready to roll...into sports, music, and road trips! Did I just copy Gatha? ©

# The Troubleshooting Challenges

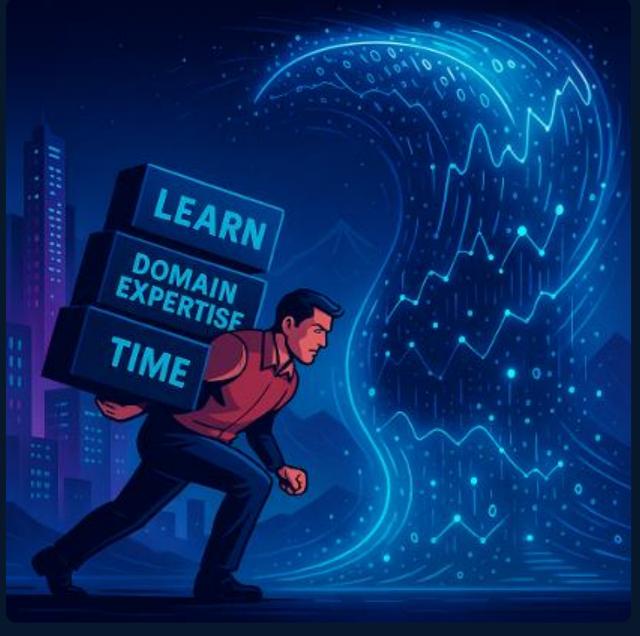
#### As Tech Stacks and Data Grow, the Big Picture gets Blurry



## Too Many Tools, Too Little Insight



# Data is Moving Faster Than Human Insight can Follow



#### The Troubleshooting Challenge

"Correlating data across the stack requires multiple engineers to spend time on a single issue"



More Stacks & Data → Less Clarity



Too Many Tools, Too Little Insight



Data Outpaces Humans Insights

# Al in Troubleshooting: Why Now?

# Al's Impact on Troubleshooting

67%

Faster RCA

70%

**Faster MTTD** 

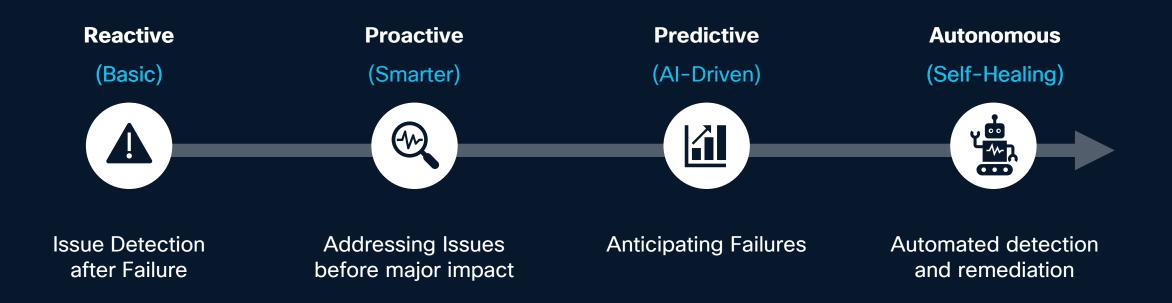
90%

**Downtime Reduction** 

# Where are you in your Observability Journey?

#### The Evolution of Monitoring and Observability

From Reactive to Autonomous: Tracing the Journey to Al-Directed Troubleshooting



# Where Al Fits in your troubleshooting Journey

## The Incident Management Workflow

The Workflow That Al is About to Transform



### What's Available Today: AI/ML in Splunk AppDynamics

Troubleshoot Smarter and Faster with our current AI/ML Capabilities



Baseline applications normal behavior every hour and account for seasonality.



Detect anomalies across Business Transactions, Browser & Mobile Applications, Infrastructure and Databases.



Pinpoint the Top Suspected Cause behind the detected anomalies.

### Rethink Troubleshooting in the Age of Al

Let Al surface causes and suggest next steps – before your team even asks.

Incident **Detect & Prioritize Triage & Investigate** Respond Remediate **Postmortem** What did we learn? Is there an issue? Where is it coming from? Who do I call? How do I fix? Where to look for? How can we improve? Is it important? **AI-Directed Troubleshooting**  Al Generated root cause analysis Al-Driven Insights on business and end-user impact Incident summarization and recommendation

# Al-Directed Troubleshooting for Health Rule Violations

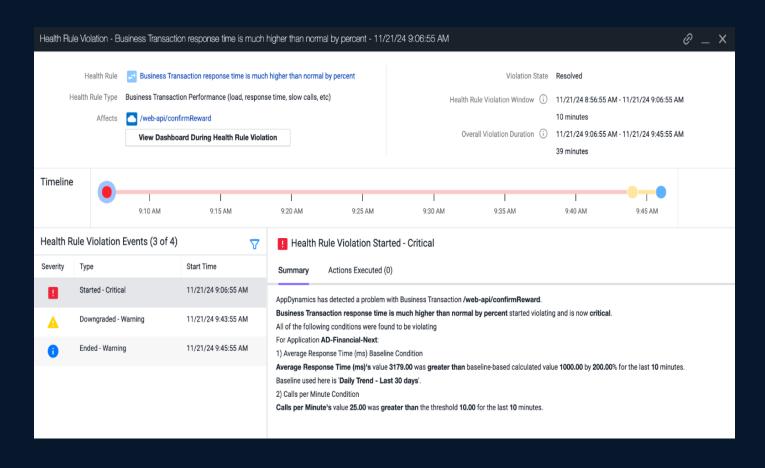
### The Event triggering the Al-Directed Troubleshooting

Outcome: Reduced MTTR with Al Driven Suspected Root Cause Analysis

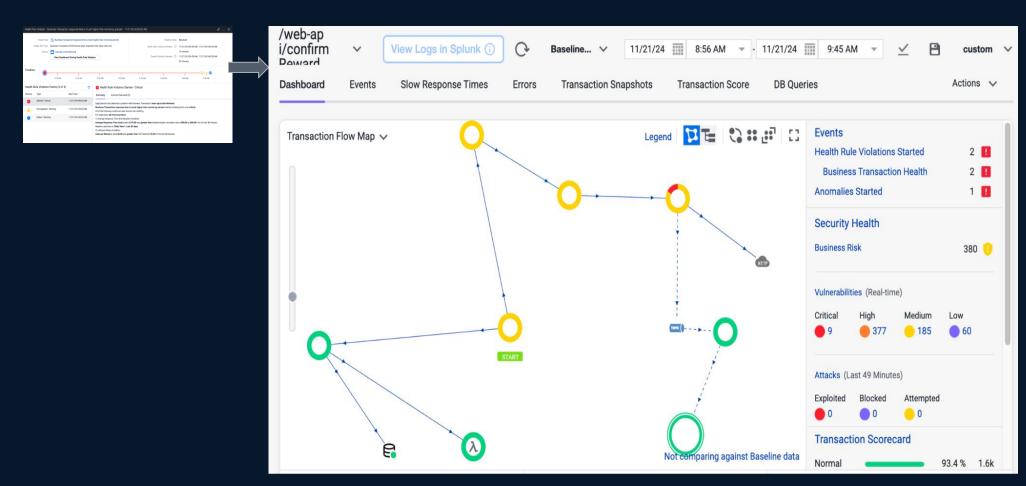
#### Anomaly Detection and Health Rules complement each other

	Anomaly Detection	Health Rules
How it works	Uses Machine Learning to discover the normal ranges of key Business Transaction metrics and alerts you when these metrics deviate significantly from expected values.	Applies logical conditions that one or more metrics must satisfy. They are perfect for capturing clear-cut logic of SLAs; as well as complex conditional expression.
Configuration	No configuration except when you want to limit Anomaly alerting.	Some default sets provided by AppDynamics, but generally manually configured as desired, including Time Periods, Trends, and schedules.
Events	An Anomaly is a series of Anomaly events.	A Violation is a series of Health Rule violating events.
Entity Coverage	Anomalies are associated with Business Transactions.	Health Rules can apply to any entity.

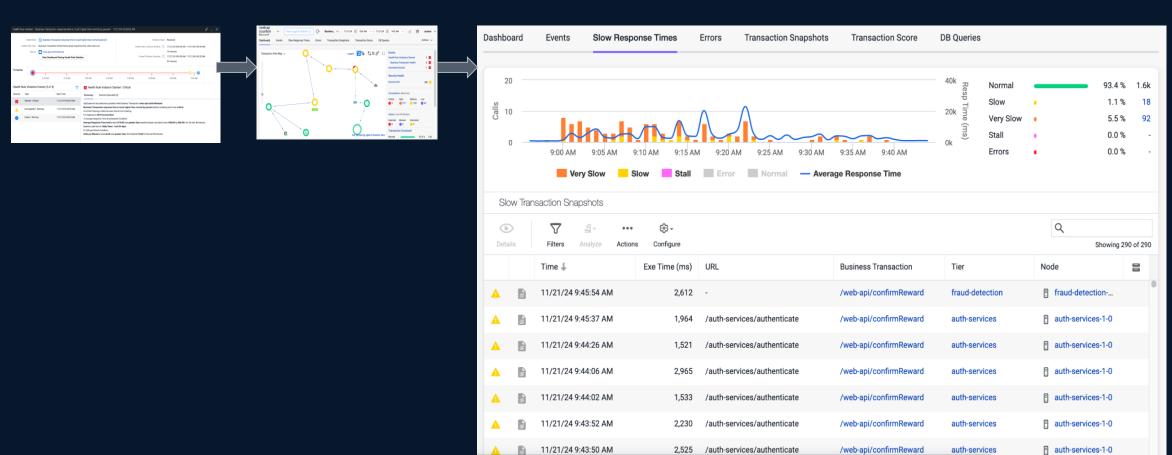
**Detect and Prioritize** 



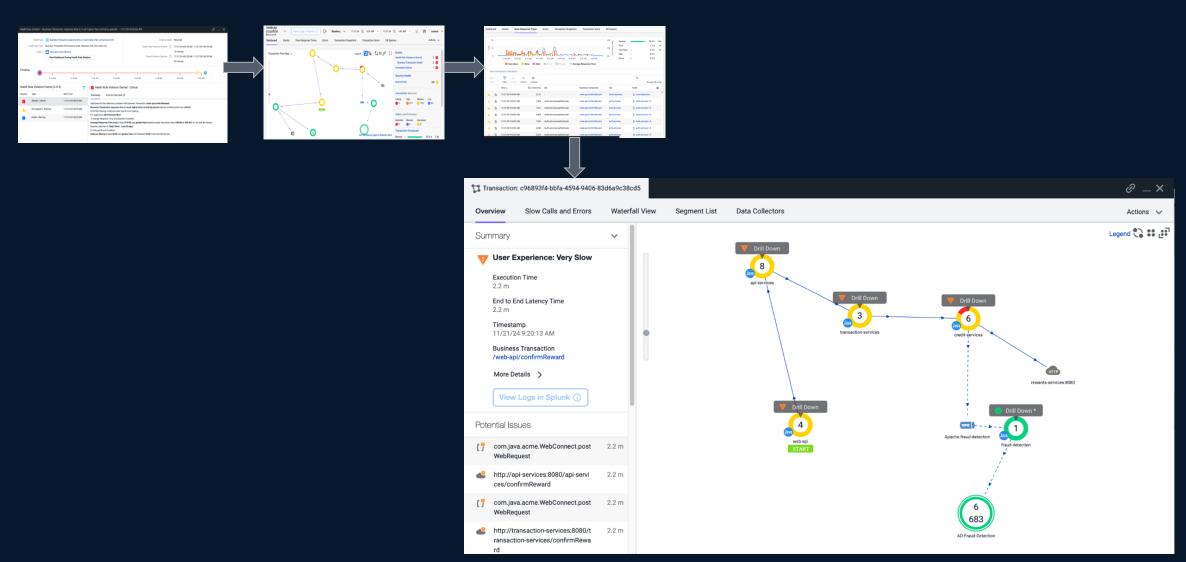
Triage: where is it from?



Investigate: where to look for?

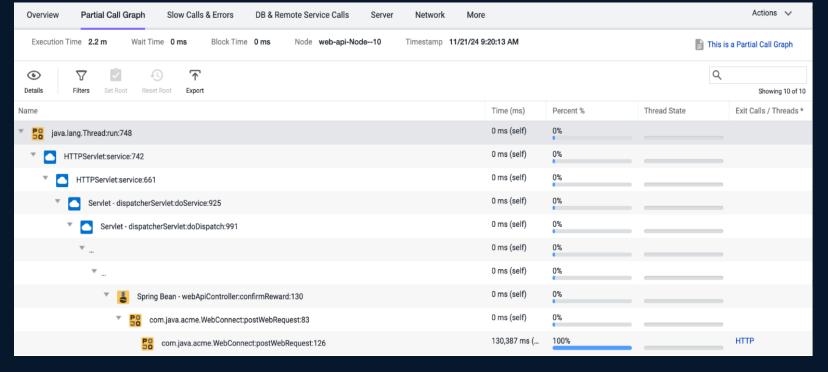


Investigate: where to look for? And more.

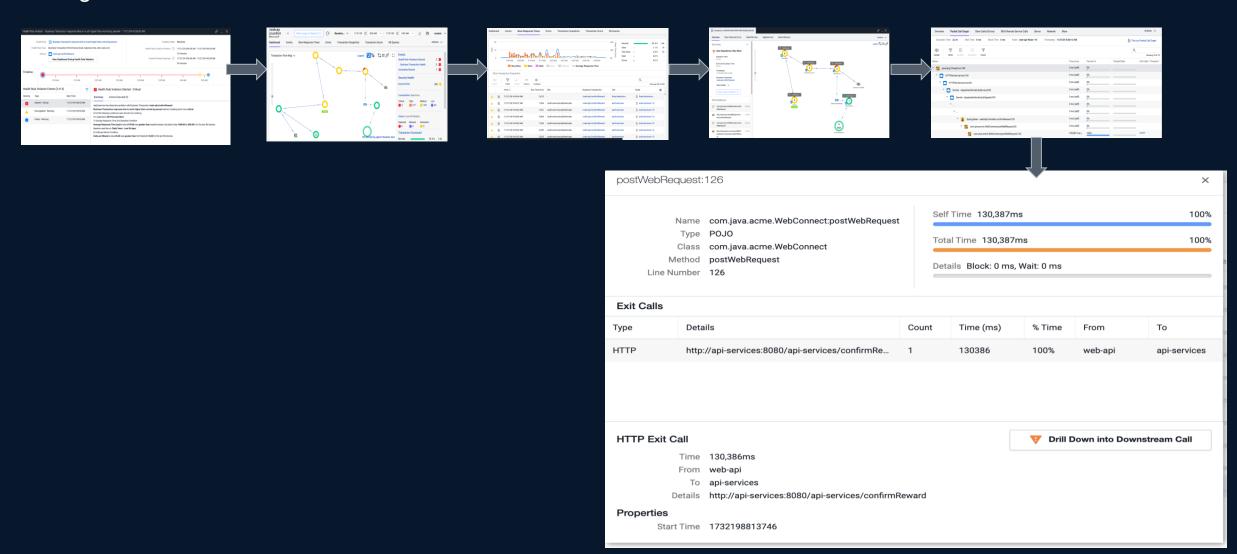


Investigate: where to look for? And more. And more.

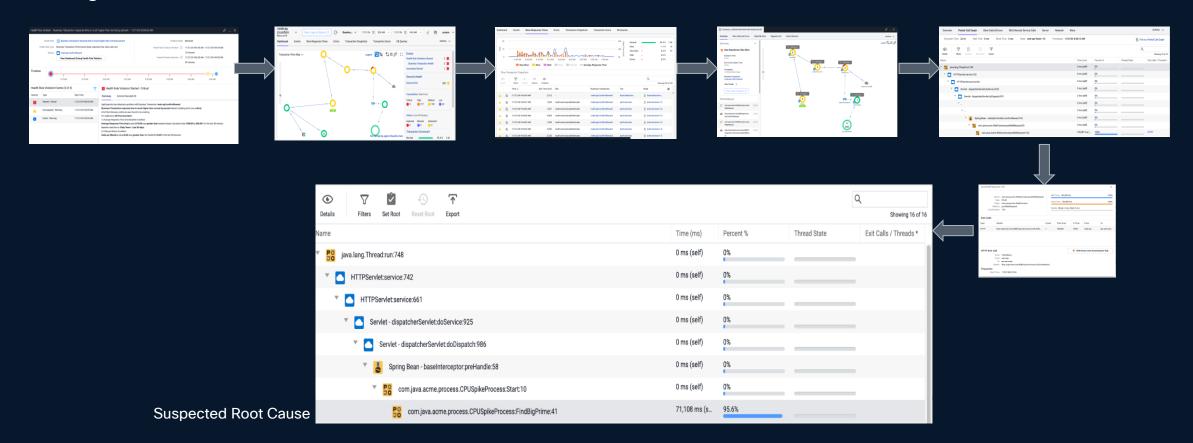




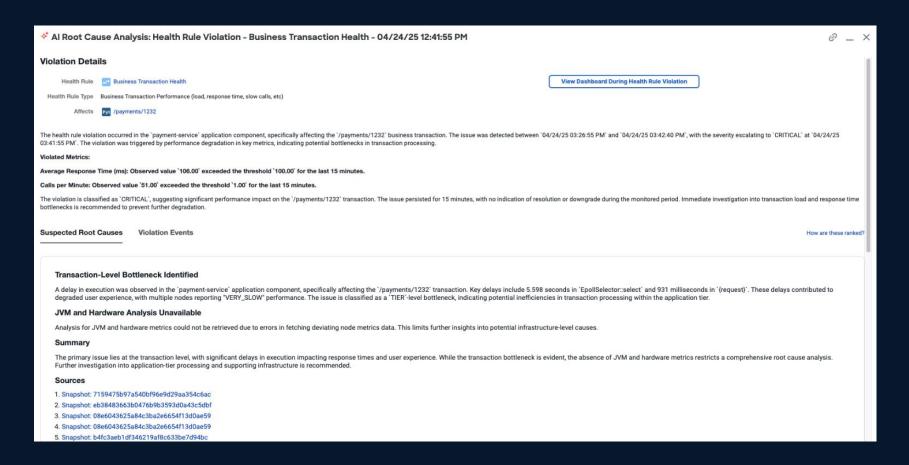
Investigate: where to look for? And more. And more. And more.



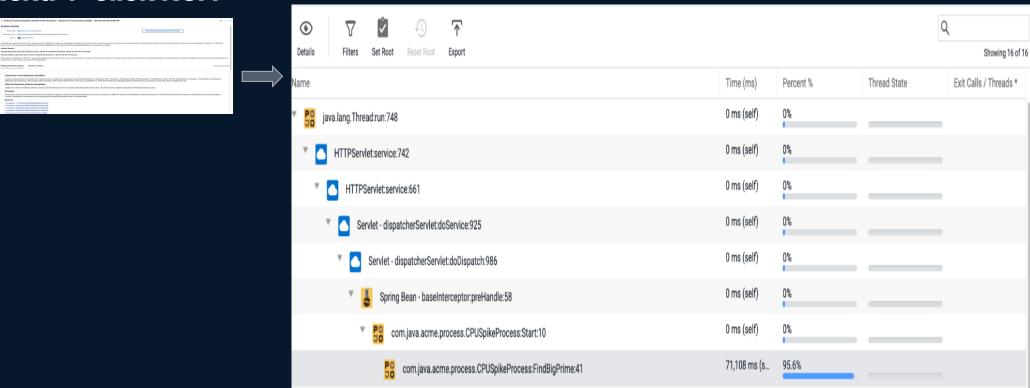
Investigate: where to look for? And more. And more. And more. And more.



#### **Detect and Prioritize**



#### **Next: 1-click RCA**



#### **Now: Detect and Investigate**

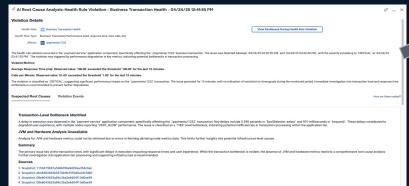






com.java.acme.process.CPUSpikeProcess:FindBigPrime:41

#### **Next: 1-click RCA**



#### Al-Directed Troubleshooting for Health Rule Violations

Reduce MTTR and supercharge RCA with Generative AI capabilities



#### **Faster Investigations**

1-click RCA; more context on your incidents; guided troubleshooting



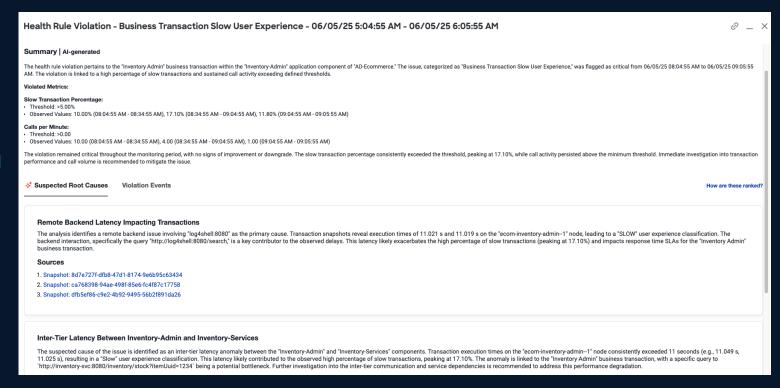
#### **Insight-driven decision making**

Surface and summarize suspected root cause(s) for Health Rule Violations



#### Lower the learning curve

Remove knowledge barriers; Democratize observability





# Al-Driven Root Cause Analysis & Recommendations

#### Al-Driven Root Cause Analysis & Recommendations

Pinpoint the root cause of anomalies and reduce MTTR with guided next steps



#### **Concise Al Summary**

Receive Al generated summary that saves times and helps you focus on what matters most.

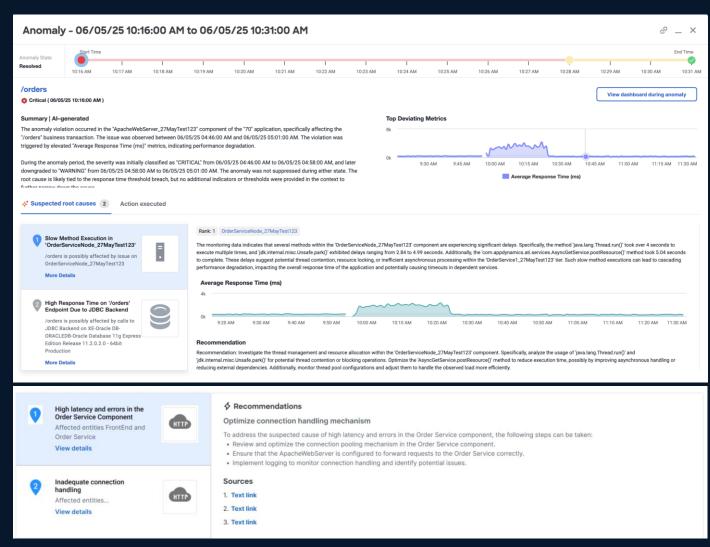


#### Root Cause Discovery Made Simple

Identify suspected causes with ease, empowering faster, data-driven decisions.

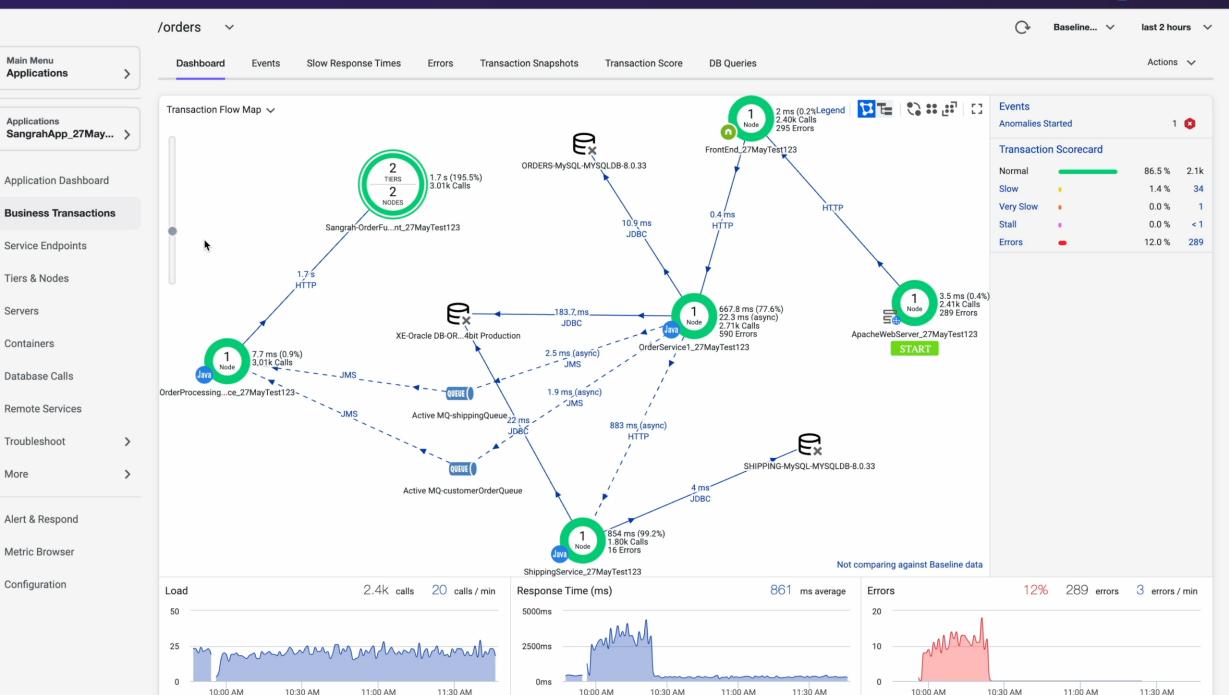


Get relevant recommendations and sources to guide your next steps with confidence.



# Demonstration: Anomaly Detection 2.0: Al-Driven Root Cause Analysis & Recommendations

Servers



o admin ▼

# Key Takeaways and What's Next

## Al's Impact in a Nutshell



**Reduce Human Effort** 



**Shrink Time** 



**Reduce MTTx** 

## What's Next in AI for AppDynamics

Now (Available Today)	Next	Later *
<ul> <li>Dynamics Baselines</li> <li>Business Transactions</li> <li>Anomaly Detection</li> <li>Business Transactions (ART, CPM, EPM)</li> <li>User Experience - Browser, Mobile (Page Load Time)</li> <li>Infrastructure (Server - CPU, Memory)</li> </ul>	<ul> <li>Health Rule Violations</li> <li>1-click RCA Summarization for Business Transactions</li> <li>Anomaly Detection</li> <li>RCA Summarization and Recommendations for Business Transactions</li> </ul>	Health Rules Violations  1 - click RCA Summarization for JVM/CLR/HW/Database  Recommendations & Remediations  Adaptive Criteria  Alert Aggregation / Grouping  Chat-based and Embedded Insights (RCA, etc.)  EUM Troubleshooting  Webex/Slack/Teams Al Agents

<sup>\*</sup> Items listed here are not formally committed at this point

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