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Discover Infrastructure Observability for Modern Applications and Rapidly Changing Kubernetes Environments with Splunk!

OBS1674C

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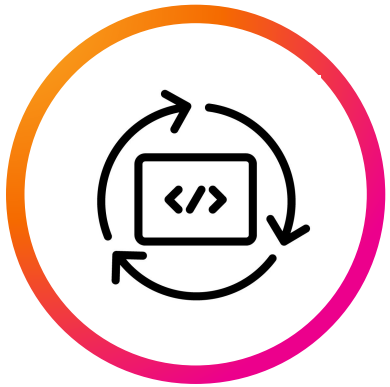
The Trends

The Challenges

The Solutions

Current Scenario

Software Dominance

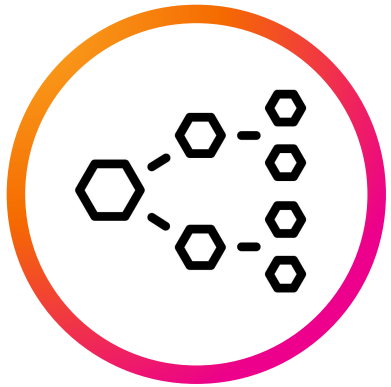


Every company in the world is a software company now!

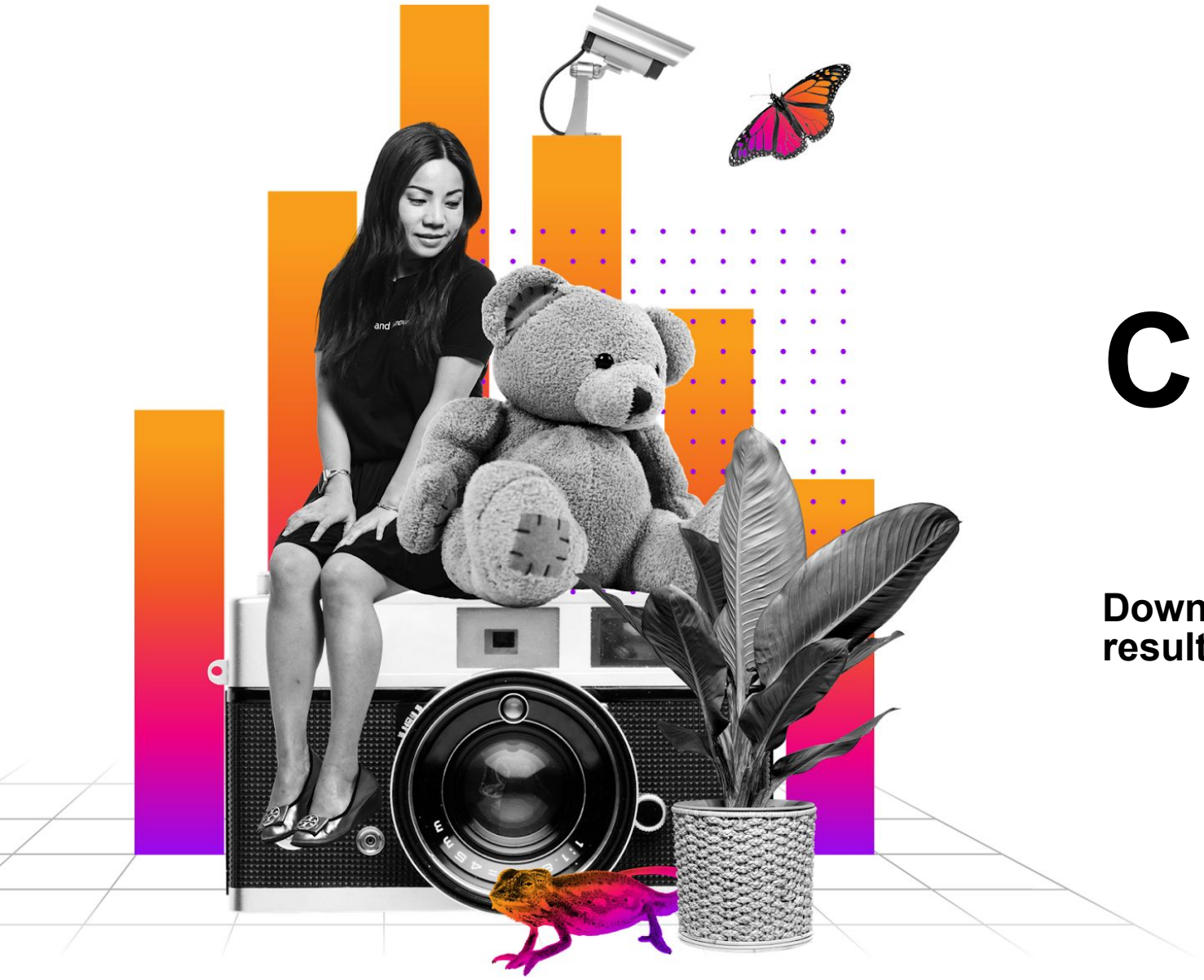
Adoption of Cloud Technology

Pandemic accelerated the process of cloud migration

Ever changing tech world



Microservices architecture and container orchestration



Challenge 1

Downtime of mission critical applications results in revenue loss

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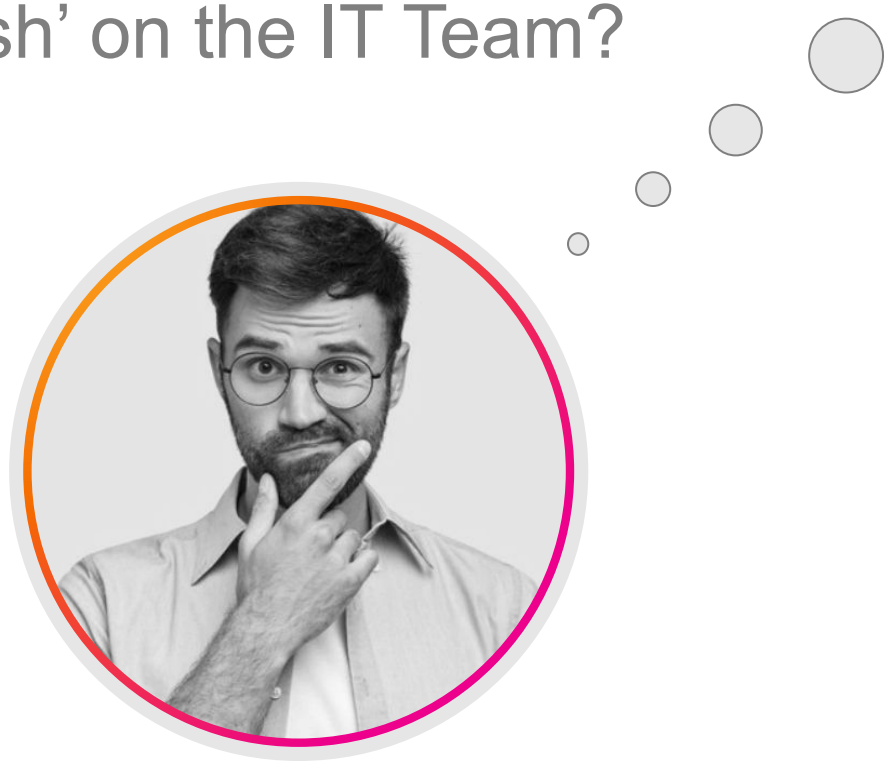
Challenge 1

His job has never been so important!

He has big and direct influence to the companies' business now!

What Does This Mean to 'Josh' on the IT Team?



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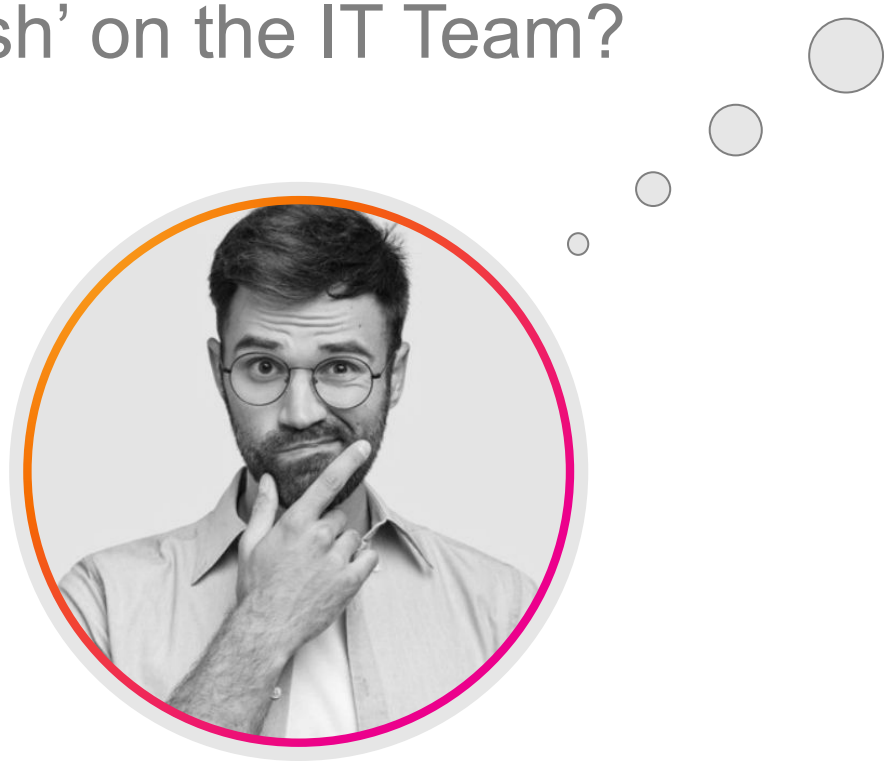

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Site Reliability has never been so CRITICAL!

Any minute of **downtime on mission critical** applications can leads to $M or $B of business loss!

He needs to monitor / observe IT like a top SaaS company.

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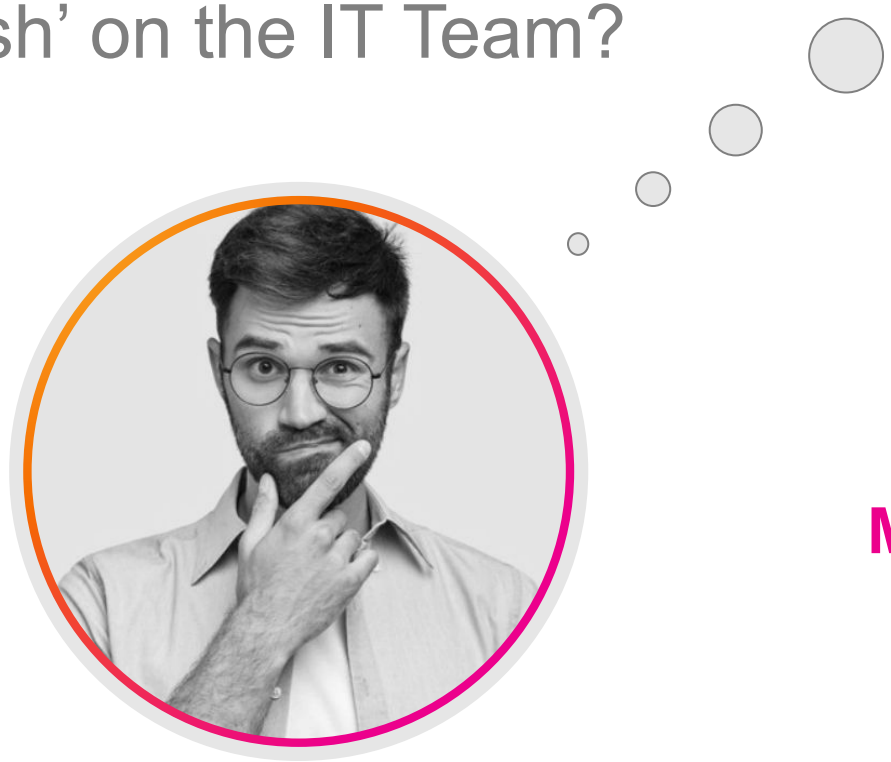


Site Reliability has never been so CRITICAL!

Any minute of **downtime on mission critical** applications can leads to $M or $B of business loss!

He needs to monitor / observe IT like a top SaaS company.

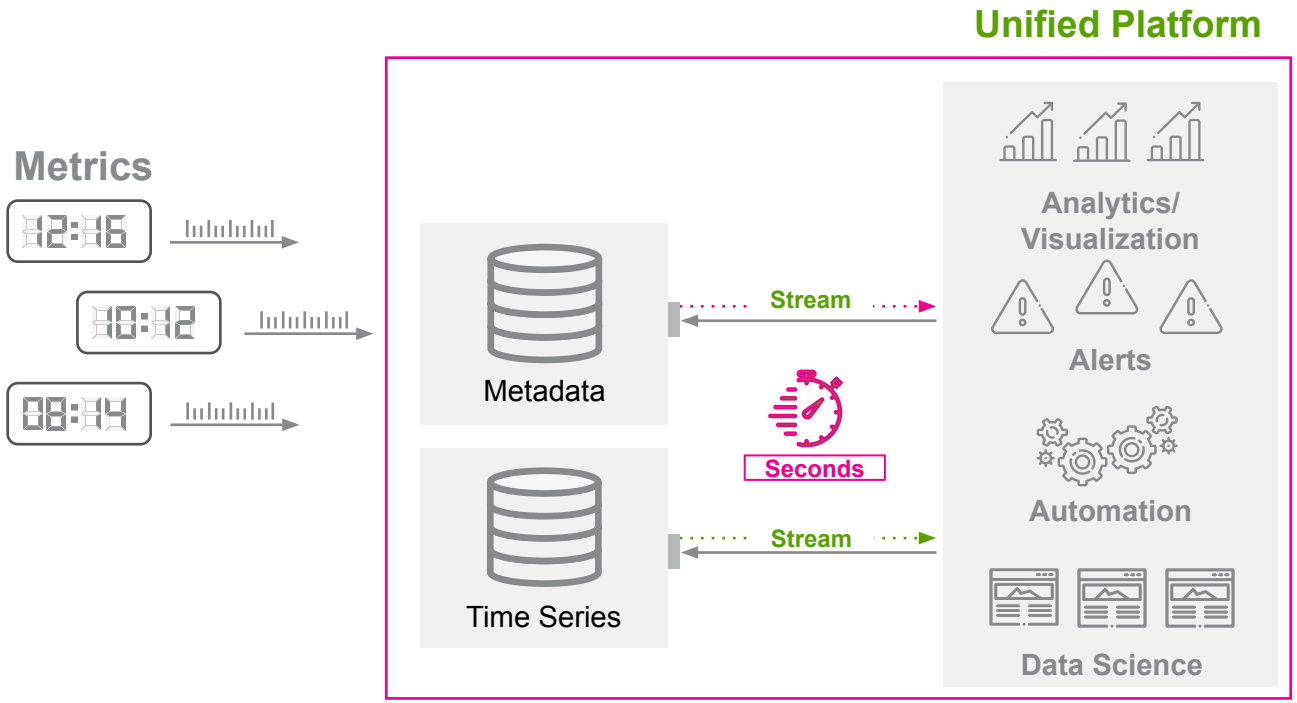
Minimum delay in MTTD and MTTR on mission critical service

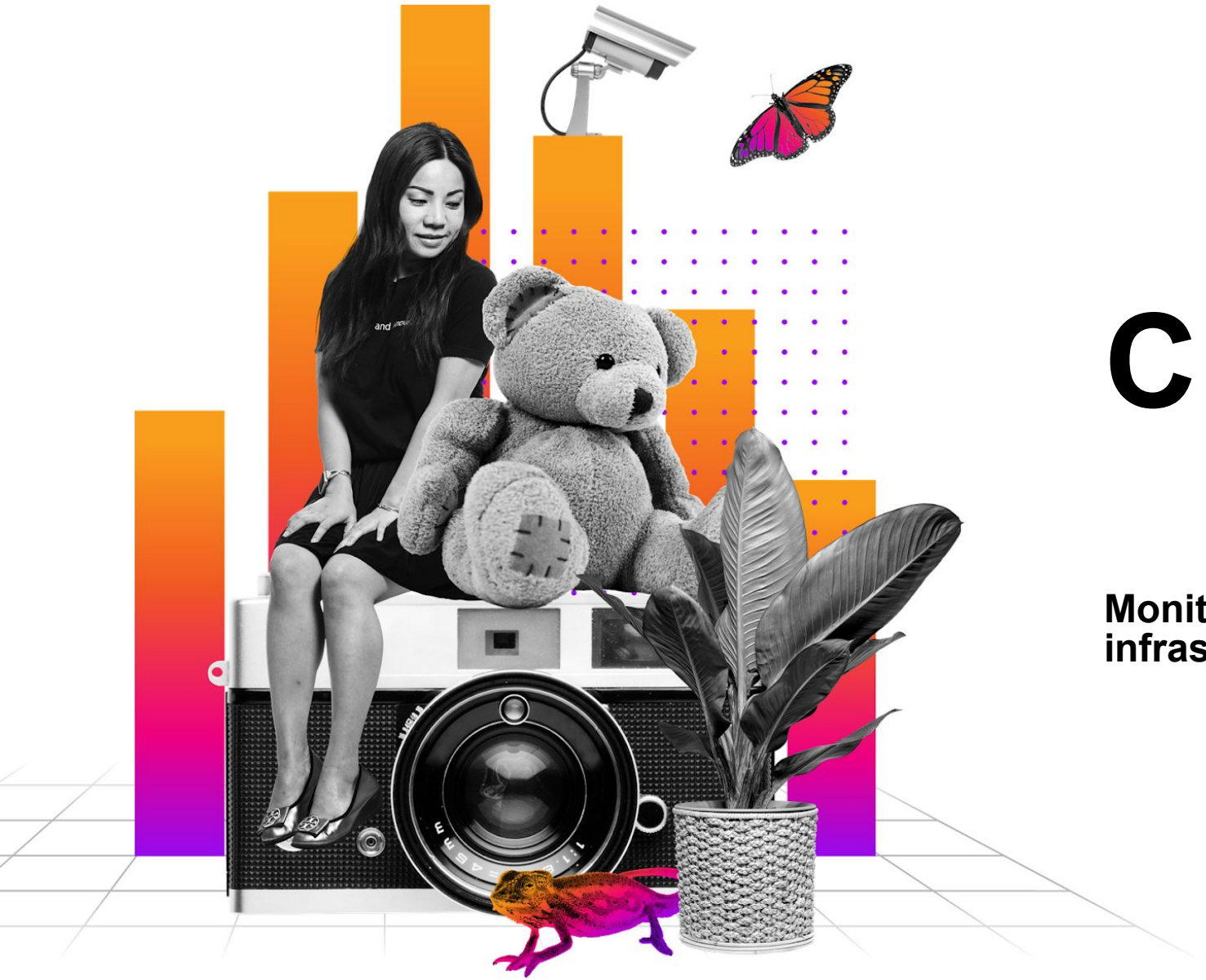
High reliability and availability!

Splunk® Infrastructure Monitoring

Real-time streaming metrics

- On-prem, hybrid, & multi-cloud monitoring
- Pre-built dashboards & hundreds of integrations
- Automatic service discovery
- Instant, analytics-driven alerting
- Custom & high resolution metrics





Challenge 2

Monitoring tools fail to scale together with infrastructure objects

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Challenge 2

The scaling need of observability skyrockets
Example: Monitoring for Kubernetes environment

Increased rate of change in the new environment

A good time-to-value ratio!

Greater scale is enabled by transition to distributed applications

Reliability of monitoring as Kubernetes footprint grows

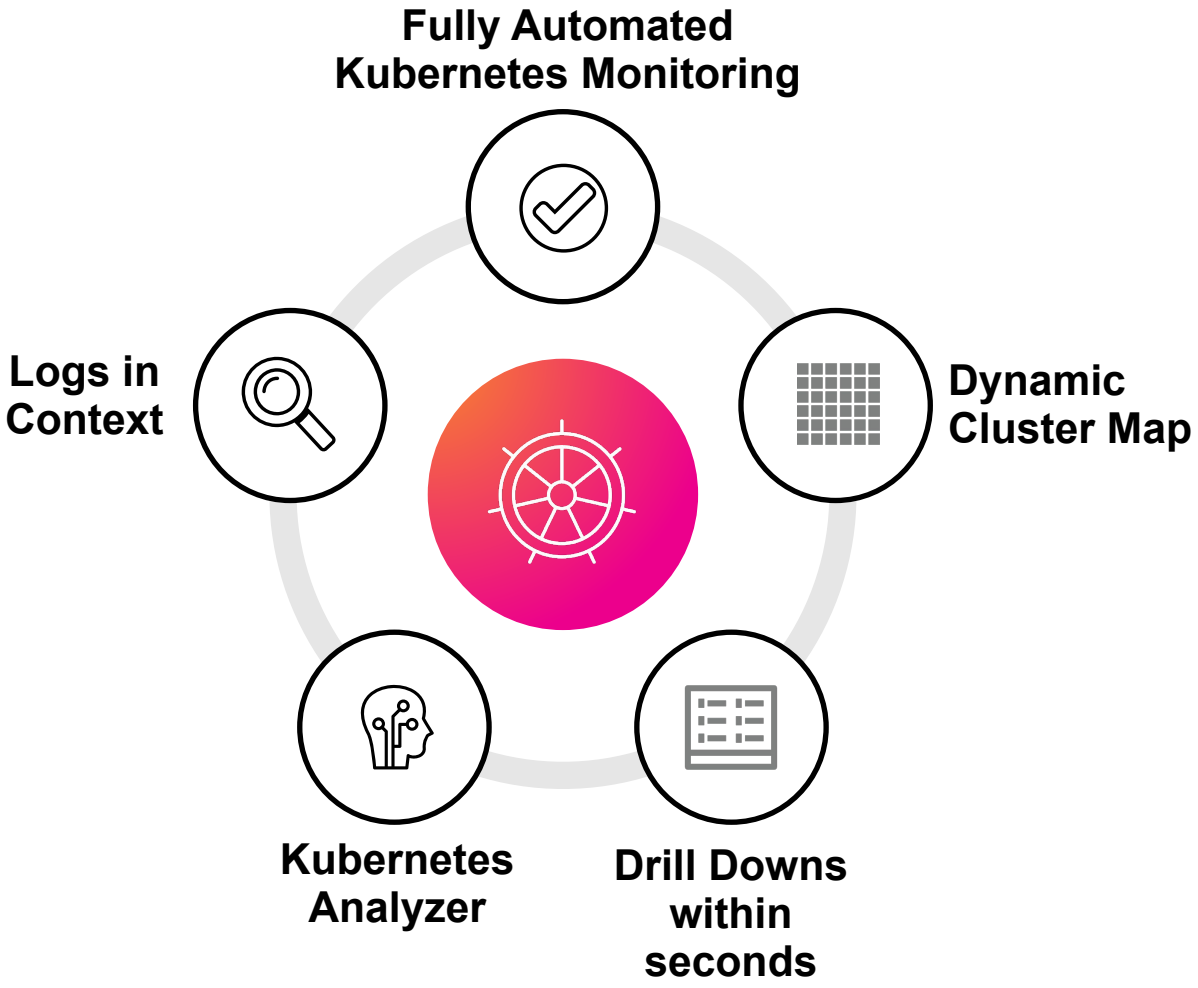
A new layer of abstraction between you and your compute resources

Context-aware pivots: viewing the same system through different lenses

plus
Accessibility & Security

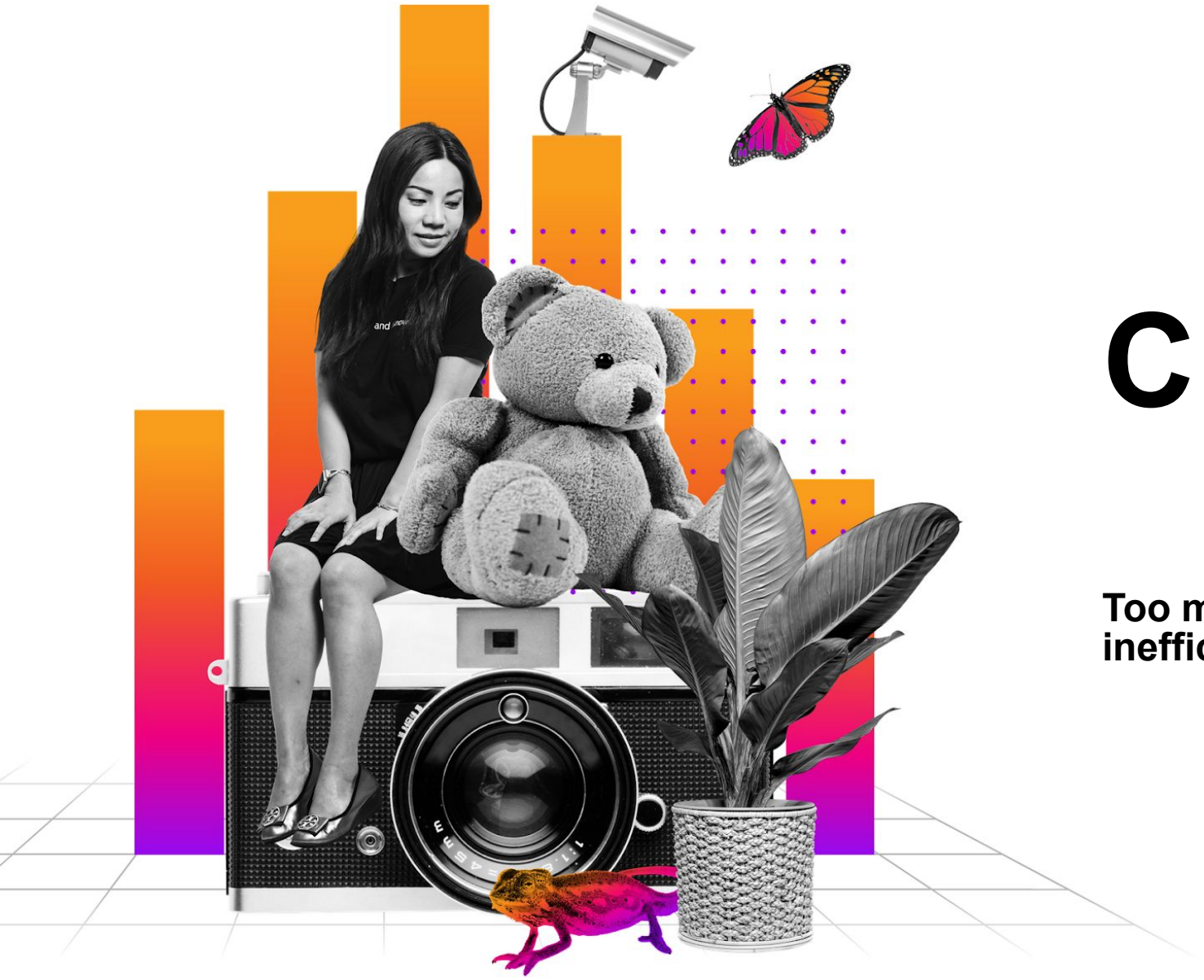
Kubernetes Navigator

For businesses newly moving to Kubernetes, who need turn-key monitoring that helps them become experts



Example of a Large Customer we Host

# of Hosts	# of Containers	# of Data Points per Minute	# of Active MTSes	# of MTSes
60K	300K	1.5B	200M	16B



Challenge 3

Too many monitoring tools creates inefficiencies and rework

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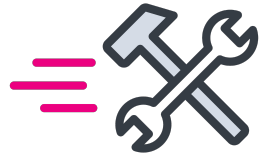
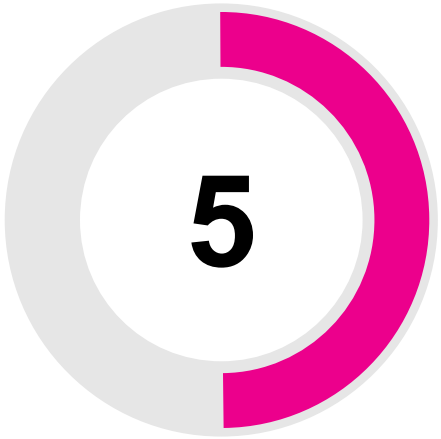
Challenge 3

Way too many tools!



To cover various observability needs within an organization

- **Architecture:** from traditional to cloud native
- **Tech stack:** from infrastructure to microservices
- **Task:** from monitoring to troubleshooting
- **Location:** from on-prem to cloud



50% of companies have more than 5 observability tools

33% of companies have experienced 10+ tools

Source: CNCF End User Technology Radar

The Results...

Too Many Tools → Siloed Sources of Data → Fragmented Visibility → Lack of Domain Expertise → Excessive MTTRs → Inability to Scale

Splunk® Observability Cloud

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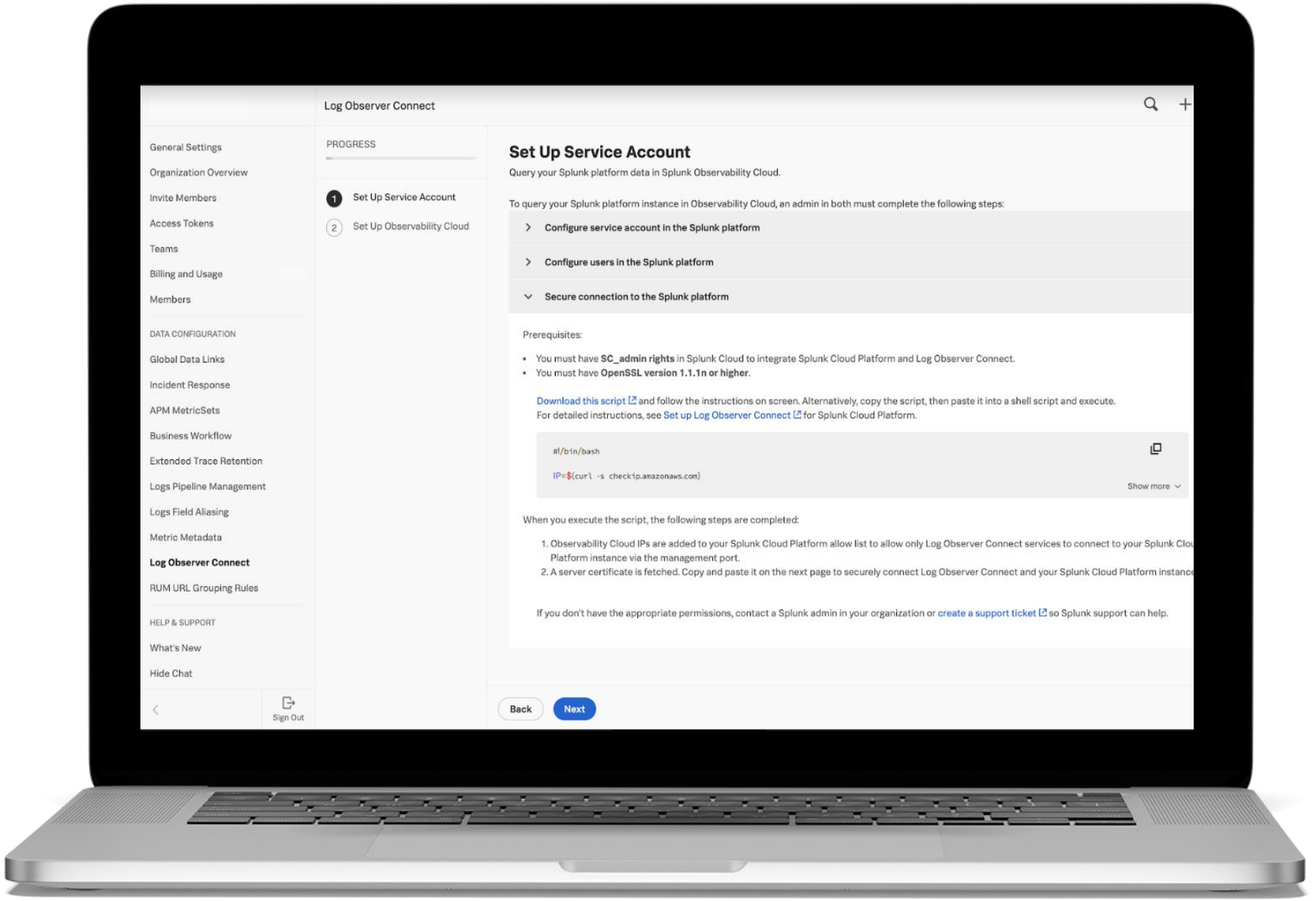
New! Log Observer Connect

Advanced observability capabilities with Splunk® Enterprise and Splunk® Cloud data

- **Centralize your data.** Leverage the power of Splunk® Enterprise and Splunk® Cloud data in-context with metrics and traces
- **Get started quickly.** Start using Log Observer Connect in less than 10 minutes
- Access to no-code Log Observer experience and related content links for **faster troubleshooting and root-cause analysis**
- **Extend the value of your Splunk investment** at no additional cost



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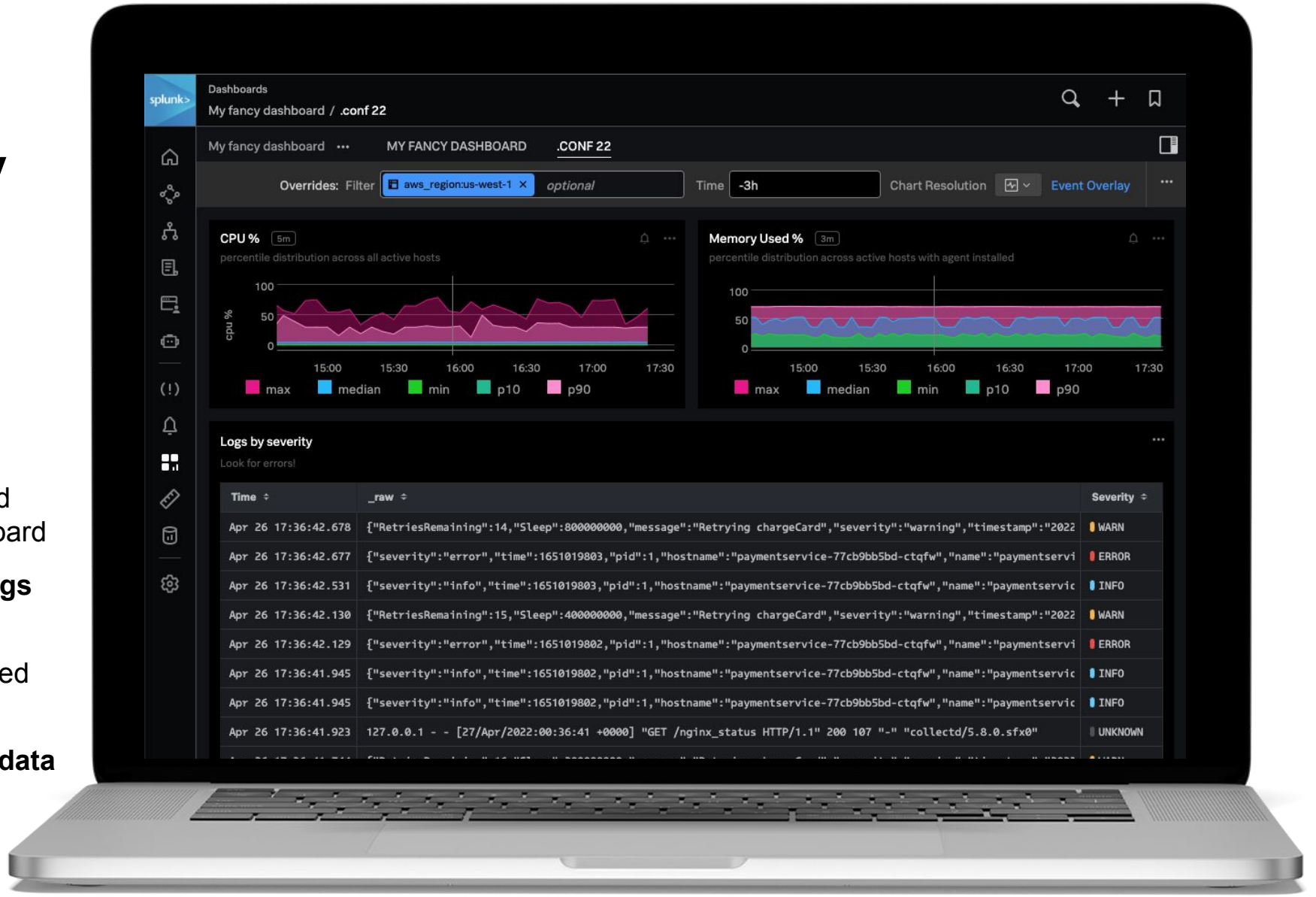
Coming Soon

Logs in Observability Dashboards

Blending aggregated logs and real time metrics

- **Get a complete picture** by mixing and matching metrics and logs in a dashboard
- **Use metrics to find logs, and use logs to explain metrics**
- **Correlate metrics and logs** with unified filters and time controls
- **Access Splunk® Enterprise / Cloud data** to enrich Observability dashboards



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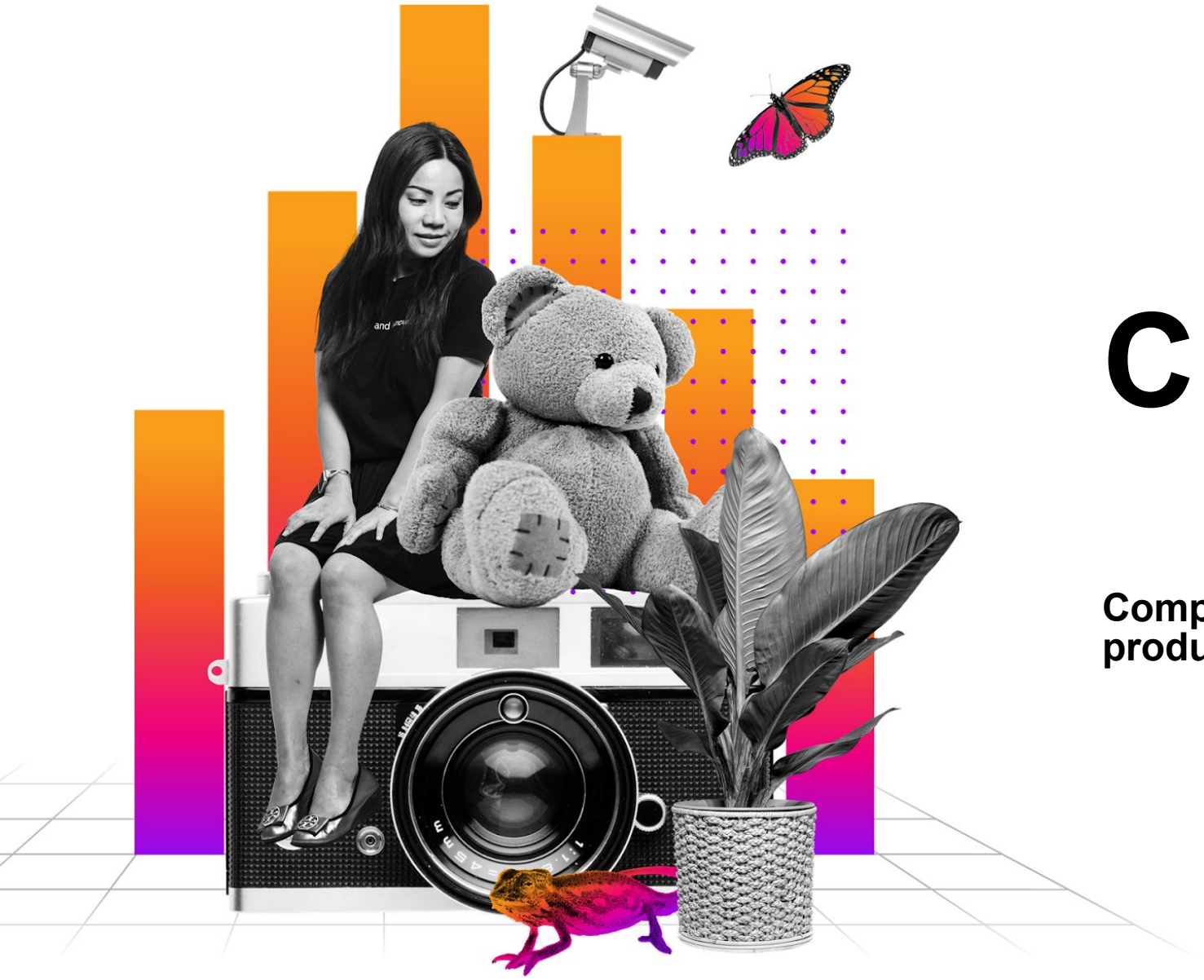

Challenge 4

Complex, non-intuitive solutions slows down productivity

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Challenge 4

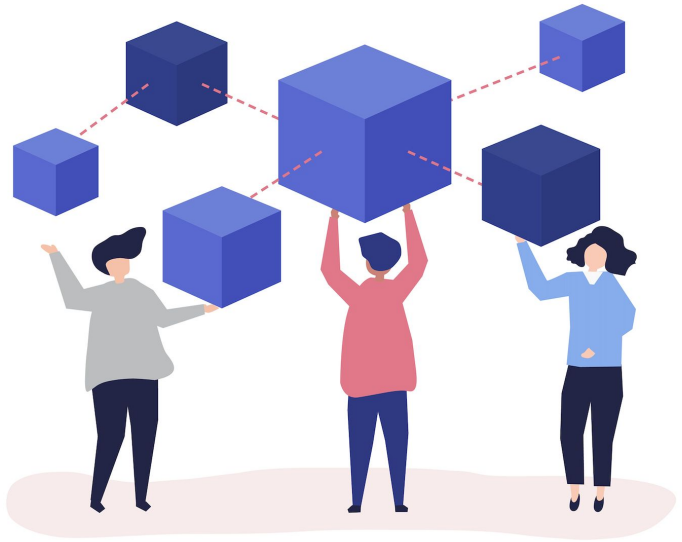
Keep it Simple, Simple, Simple!

- ‘Annie’, Observability Engineer

“Developers are our customers. Imagine the observability team needs to make sure every developer learns how to use those tools, how much effort would it take? How much feature development will they delay because of that. Keep it simple for your developers. You want them to focus on developer softwares, not on monitoring.

However, monitoring is absolutely critical. Important data should be collected monitored for every microservices from day 1. The decisions of choosing which system metrics to use can take the developers long time.”

How They Did it?



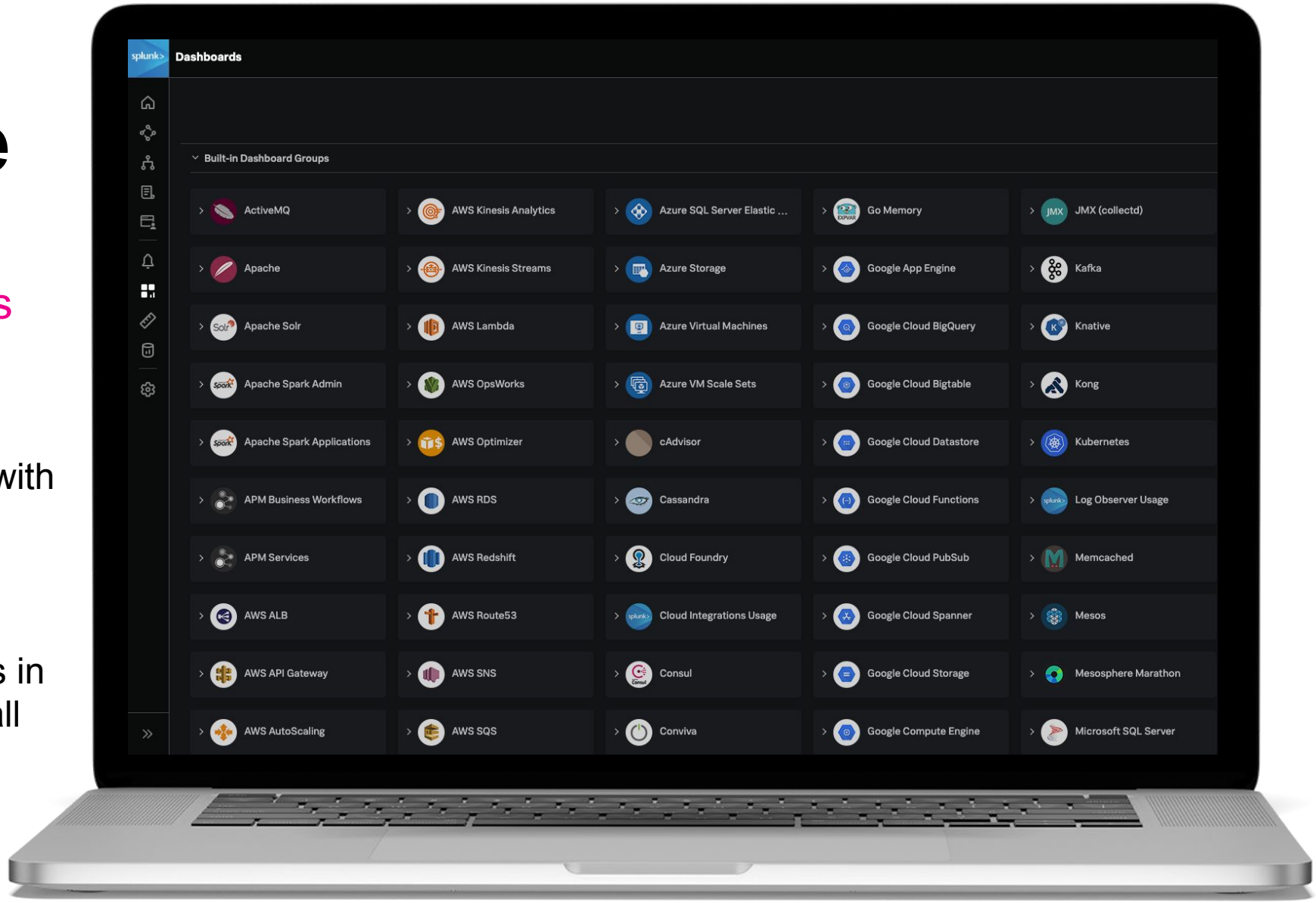
Central Observability team pre-define system monitoring templates (monitoring dashboard and detectors) for each developer, each microservice owner

However, how about companies who do not have the well established and sizable observability teams?

Splunk® Infrastructure Monitoring

Real-time streaming metrics

- **OOTB dashboards**
- **Quickly visualize health and performance** of your full stack with fast pivot
- **Detect patterns, trends and anomalies** in hosts, containers, and other infrastructure services in public clouds or datacenters -- all at a glance
- **Intelligent direction** to what's broken in that tech stack



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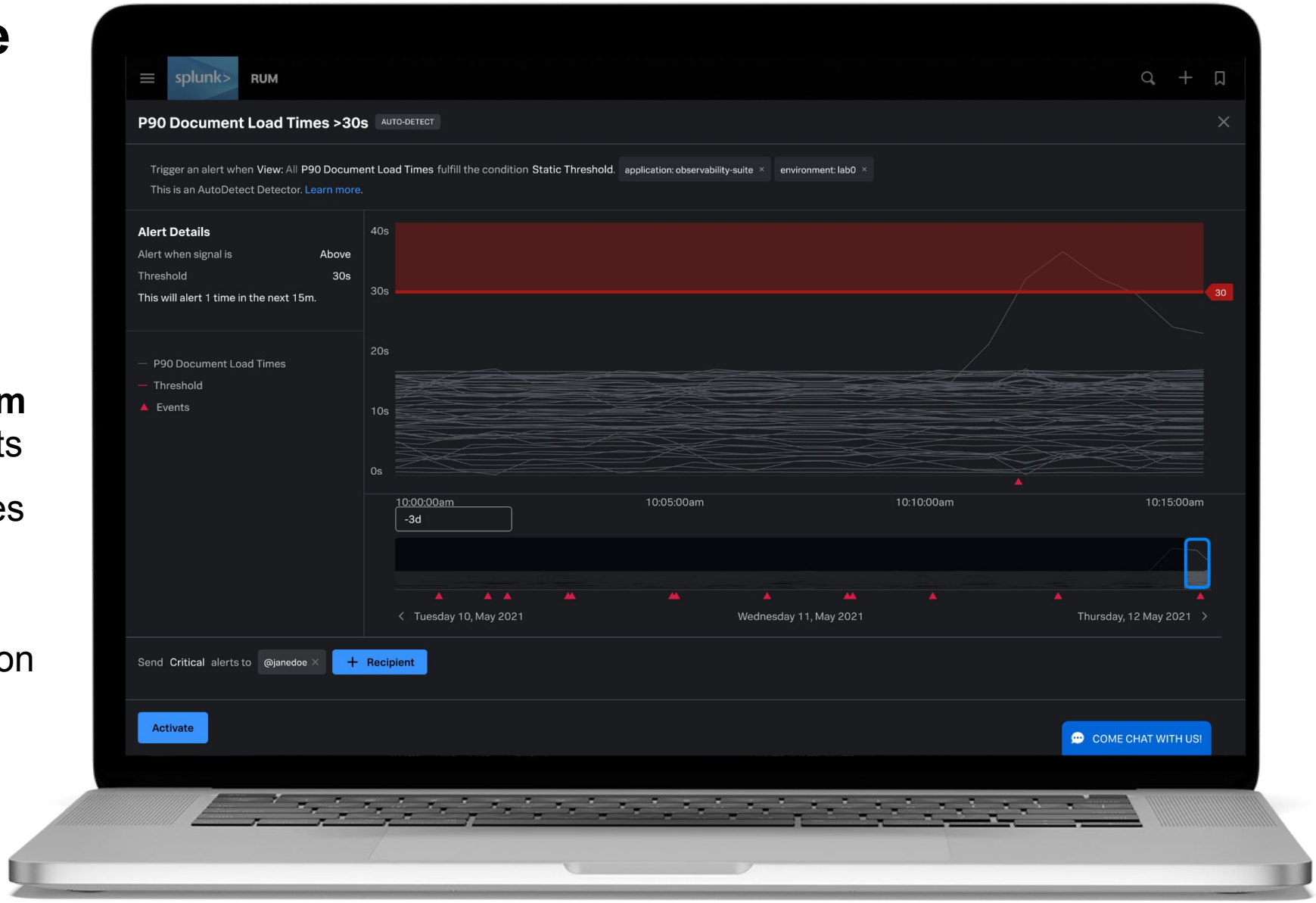
Splunk Infrastructure Monitoring

AutoDetect

Simplified onboarding with out-of-the-box alerting

- **Faster TTV with OOTB problem detection** for critical components
- Automatically discover anomalies in your infrastructure
- Quickly identify infrastructure state with intuitive alert integration for **faster MTTR**
- In-product detector and alert analysis for more effective detectors and reduced alert fatigue



Take Away

- **Minimize delay** in MTTD and MTTR on mission critical service
- Ensure your monitoring system can **scale** for cloud native architecture
- **Reduce** the number of monitoring tools
- **Make it simple** for your developer

- Splunk Infra Mon Free Trial: https://www.splunk.com/en_us/download/infrastructure-monitoring.html
- OBS1263: Splunk Log Observer: A Log Investigation Experience designed for Developers and SREs
- OBS1645: Using Splunk Infrastructure Monitoring for Database Infrastructure
- OBS1338: Monitor and Troubleshoot Across Cloud and Hybrid IT to Minimize Alert Storms

Thank You

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