

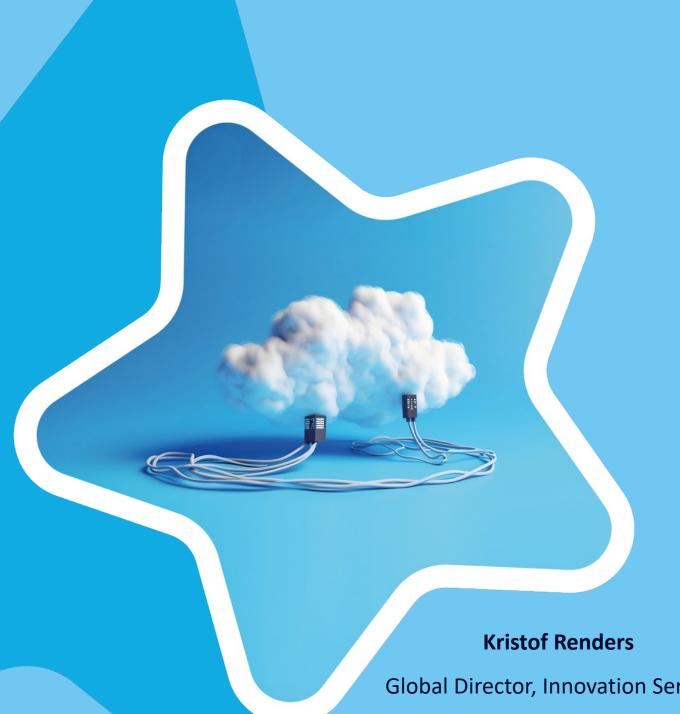
Automating the Enterprise Cloud

Observability at scale for Red Hat OpenShift providing answer-driven Automation with Event-Driven Ansible

Kristof Renders

Global Director, Innovation Services





Automating the **Enterprise Cloud**

Observability at scale for Red Hat OpenShift providing answerdriven Automation with Event-**Driven Ansible**





Global Director, Innovation Services

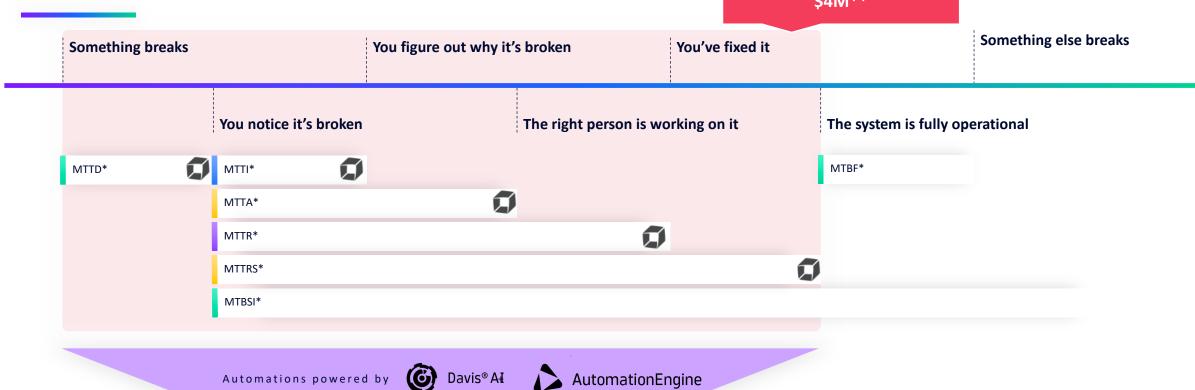


<a>ase

The system is fully operational



12 h downtime \$4M**



*) MTTD: Mean Time to Detect MTTI: Mean Time to Investigate MTTA: Mean Time to Action MTTR: Mean Time to Repair MTTRS: Mean Time to Restore Service MTBF: Mean Time Between Failures MTBSI: Mean Time Between Service Incidents

3 h downtime

\$1M**

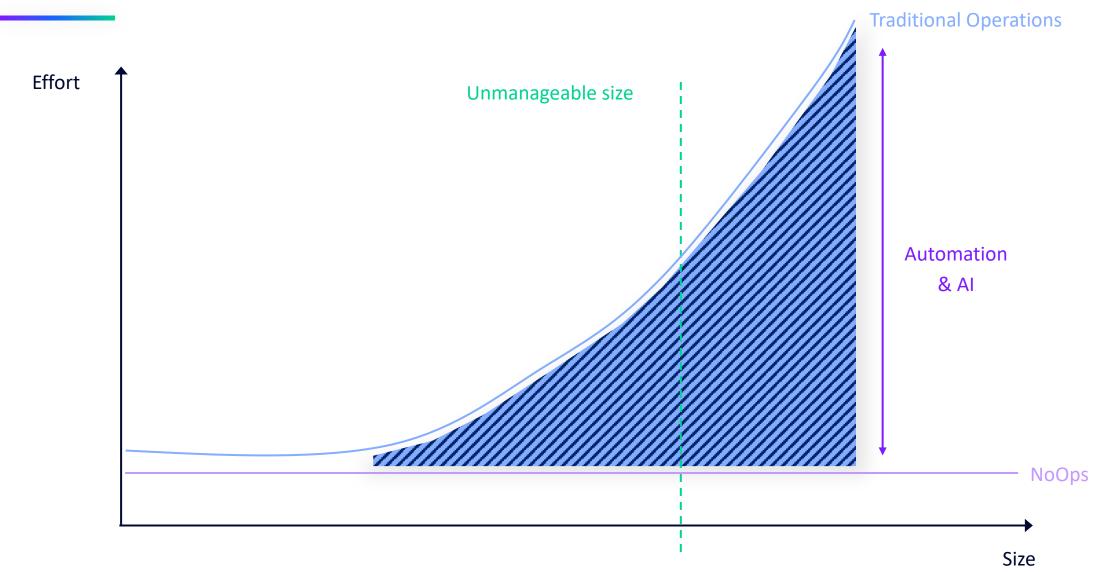
Something breaks

The timeline of an incident



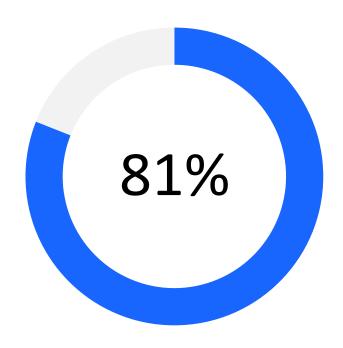


How Many Apps Can You Manage?

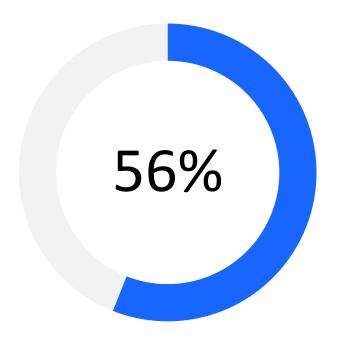




Traditional Monitoring Methods are Unable to Keep Up



of IT leaders say their use of **Kubernetes**has made their infrastructure more
dynamic and difficult to manage with
existing solutions and approaches



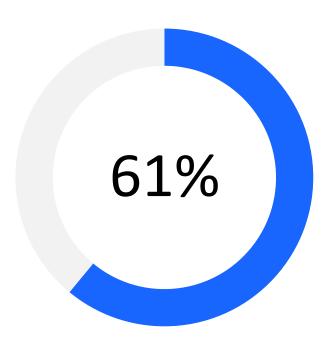
of IT leaders say traditional infrastructure monitoring solutions are no longer fit for purpose in a world of cloud and Kubernetes, and they must be replaced with a platform that can provide end-to-end observability across their multicloud environments



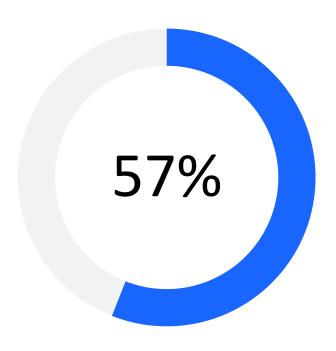




Inefficient DIY-Monitoring Create Data Overload



of IT leaders say observability blind spots in their environments are becoming a greater risk to digital transformation as teams are finding themselves without an easy way to monitor their technologies end-to-end



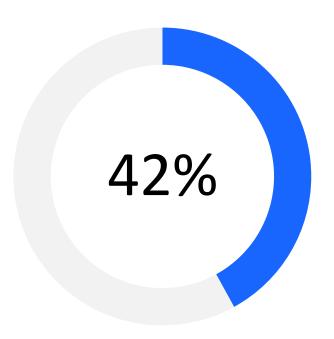
of IT leaders say multiple monitoring solutions across multicloud environments are making it difficult to optimize infrastructure performance and resource consumption



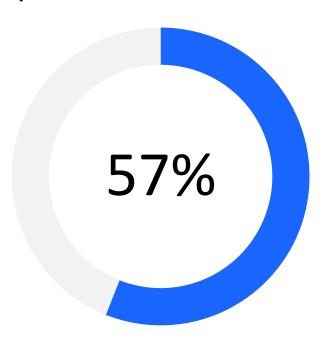




Unified Observability and AlOps Drive Success



Nearly half of IT team's time Is spent on manual, routine work to "keep the lights on" across their environments, creating a major productivity drain and leading to missed revenue opportunities due to delays in innovation

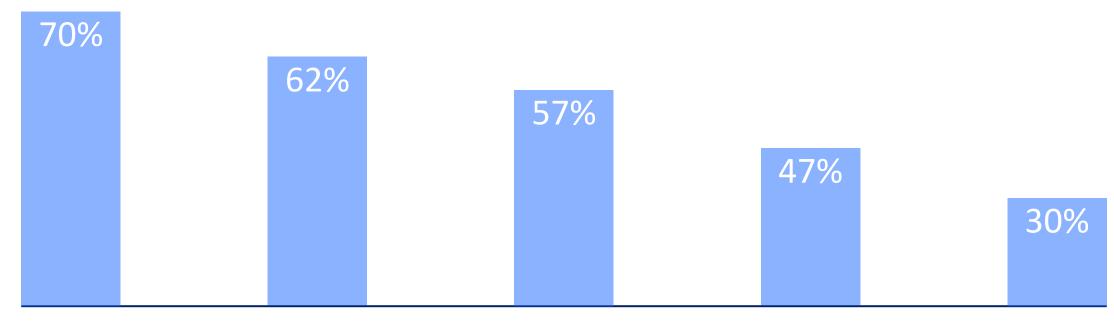


of IT leaders say manual instrumentation and configuration of monitoring tools is unsustainable in dynamic multicloud and Kubernetes environments, and teams increasingly struggle to keep up





Biggest Barriers to Achieving Large-scale Automation



Integrating different monitoring solutions

for legacy infrastructure and cloud environments

Conflicting data from multiple monitoring solutions hinders Aldriven decision making

Absence of a single Alpowered platform that can drive proactive

automation across their multicloud environments

Inconsistent data capture/structure from

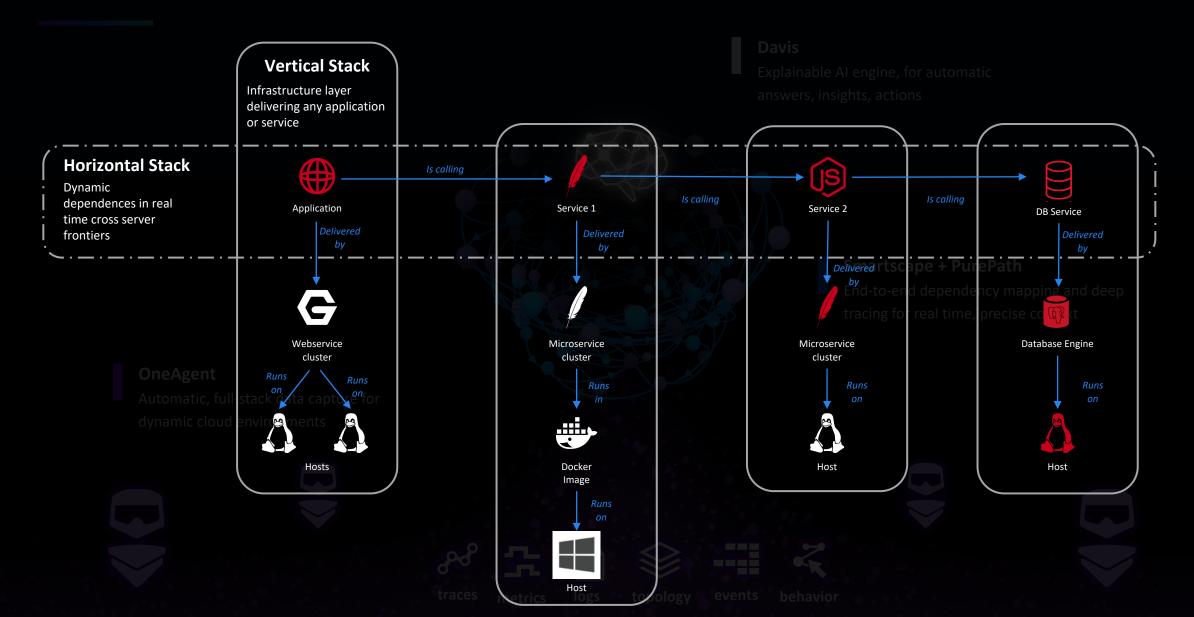
use of different
observability standards
and open source
standards making it
difficult to retain the
rich context needed

Difficulty achieving end-to-end observability across cloud platforms, hybrid infrastructure and container orchestration systems





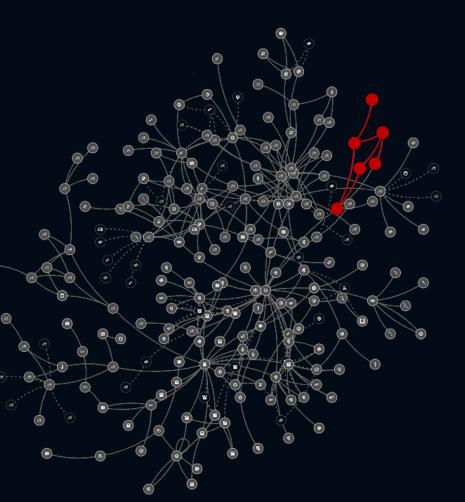
The Diagnostics of the unknowns

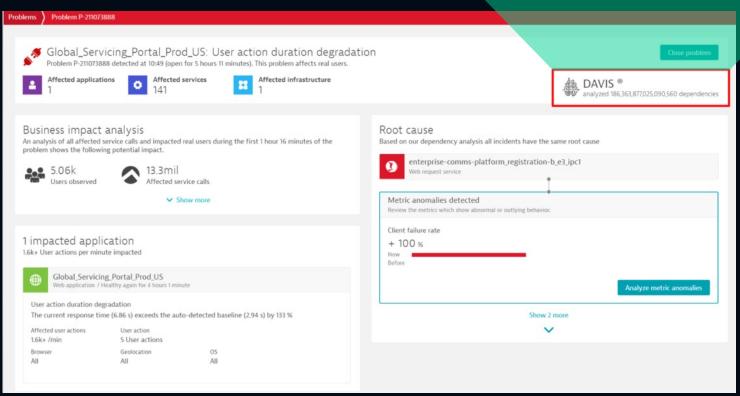


Enterprise complexity...





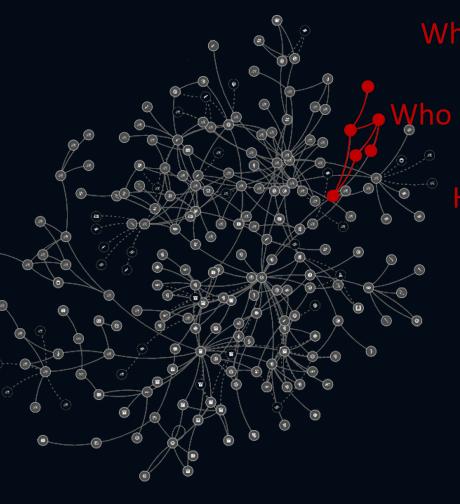




... cannot rely on humans



When something goes wrong, you need to act fast!



What caused it?

Who do I need to inform?

How do I remediate it?

What broke?

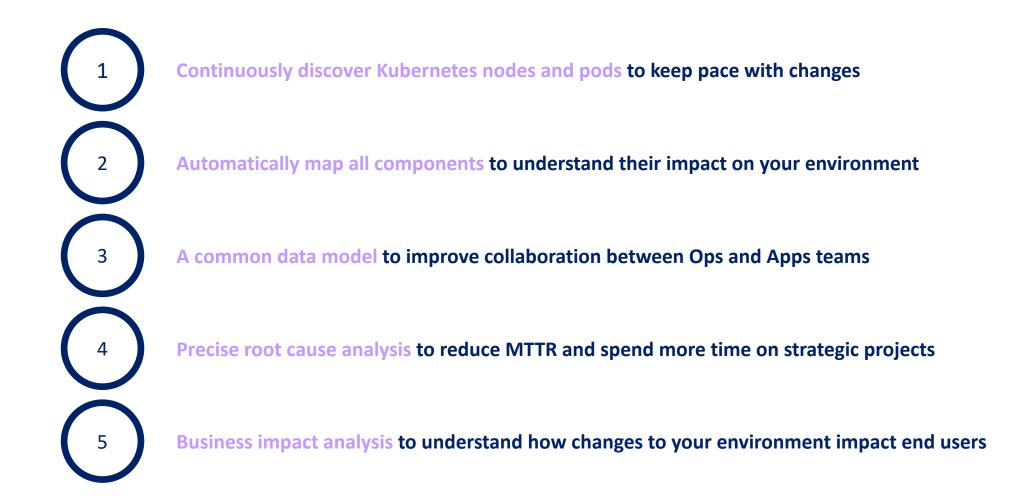
Which services are impacted?







Simplifying OpenShift requires unified observability at scale



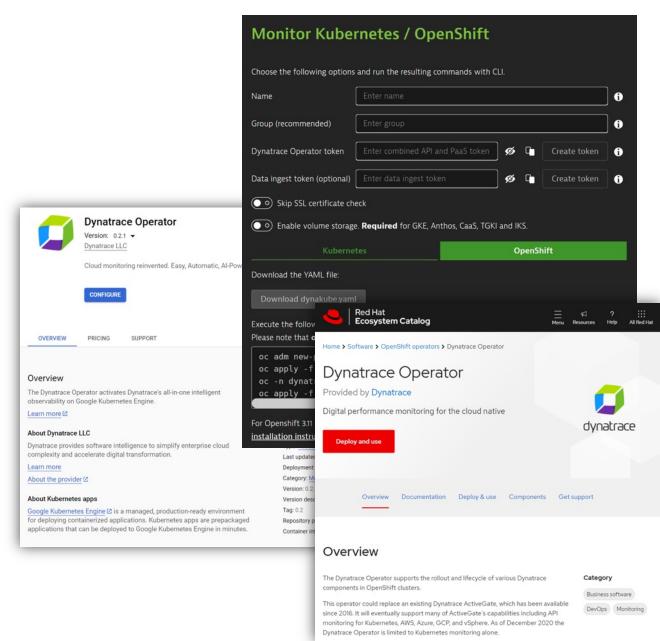
How easy is it? Really?

Run 1 command for:

- Complete visibility of entire Kubernetes cluster:
 - Every node
 - Every pod/container
 - Every process
 - Every transaction, at method-level detail
- Connection to Kubernetes API for:
 - Insight into overall cluster health
 - Defined workloads
 - Kubernetes events
- Connection to Prometheus exporters
 - Full visibility of every exposed Prometheus metric
- Full Dynatrace traffic routing





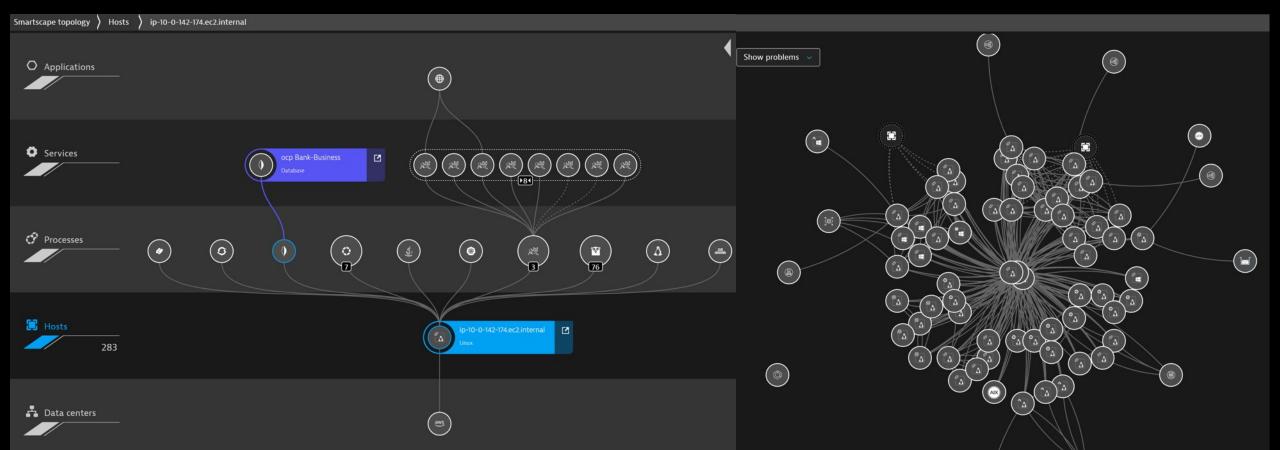


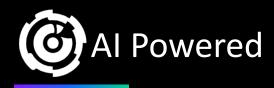


Native Full-stack Visibility

INSTANT, CONTINUOUS, REAL-TIME VISIBILITY OF ALL OPENSHIFT COMPONENTS, INCLUDING THEIR RELATIONSHIPS.

ALL DATA CONTEXTUALISED AGAINST THESE COMPONENTS







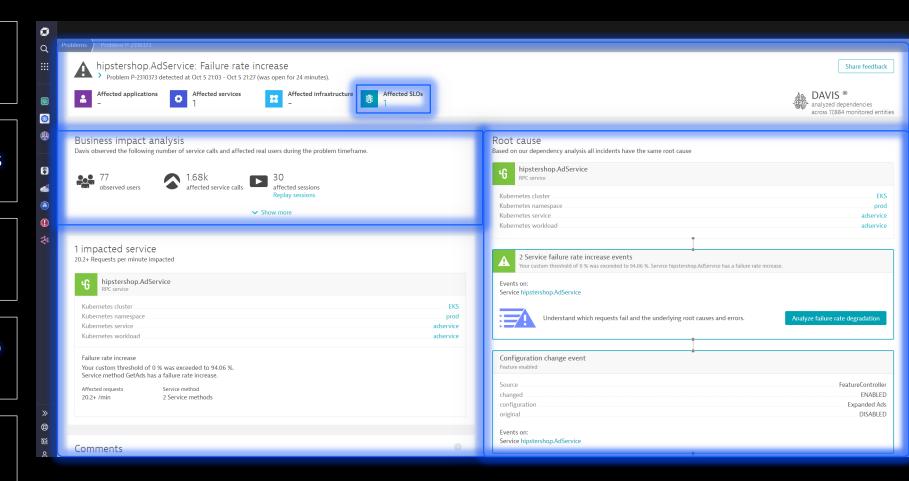
AUTOMATIC PROBLEM DETECTION

AUTOMATIC BUSINESS IMPACT ANALYSIS

AUTOMATIC ROOT CAUSE ANALYSIS, UTILIZING CAUSAL AI

AUTOMATIC TOPOLOGY TRAVERSAL AND ANALYSIS OF ALL DATA TYPES

AUTOMATIC SLO ASSOCIATION





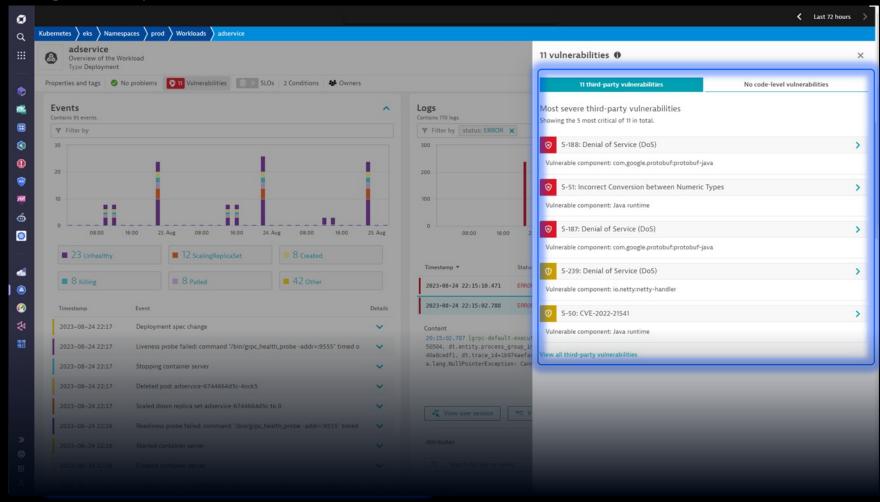


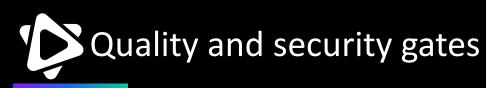
Use the power of Grail to bring context to OneAgent and OpenTel data

UNIFIED VIEW TO LEVERAGE KEY KUBERNETES WORKLOAD METRICS

IN CONTEXT DATA TO HELP DETECT UNHEALTHY OR SUSPICIOUS BEHAVIOR

KEEP YOUR KUBERNETES CLUSTER SECURE WITH ADVANCED SECURITY ANALYSIS





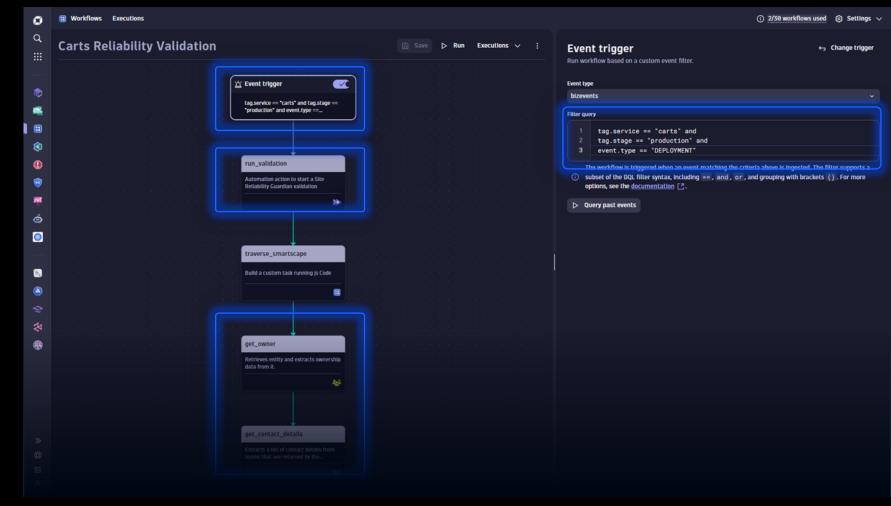


Site Reliability Guardian helps ensure better code rollout

VALIDATE THE HEALTH OF COMPONENTS
ACROSS ANY DATA IN GRAIL

USE GATES TO ENSURE VULNERABILITIES
CAN'T ENTER PRODUCTION

WORKFLOWS ARE ENFORCED IN CORE PLATFORM CAPABILITIES

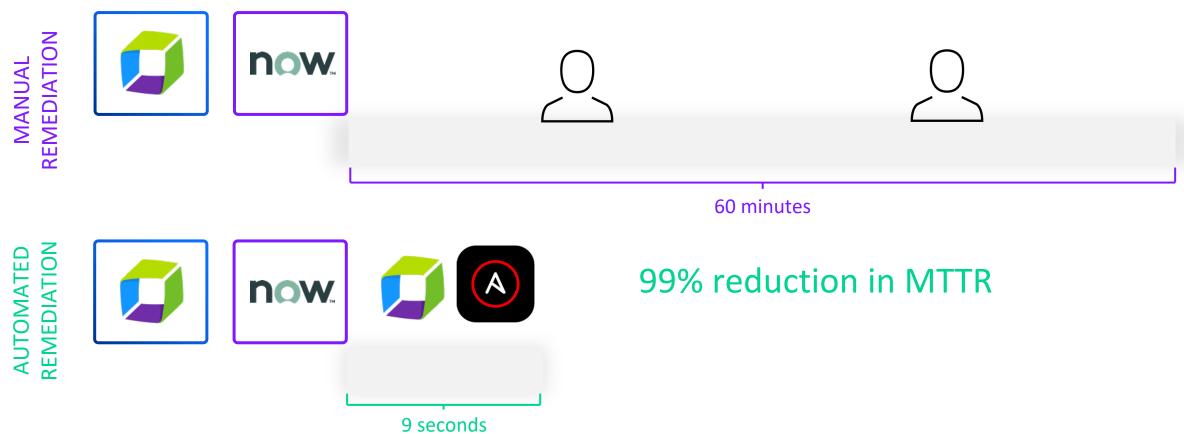






AUTOMATED REMEDIATION CUSTOMER EXAMPLE

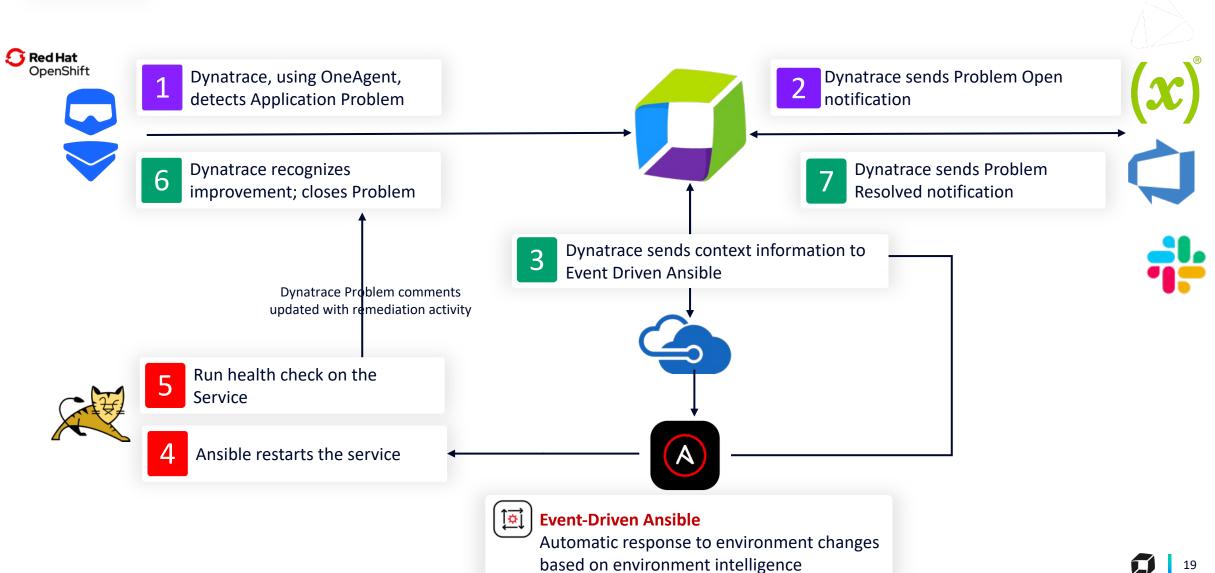
U.S. GOVERNMENT INSTITUTION







Solution Architecture for Al Operations





What Automation means for our customers

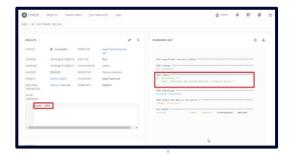








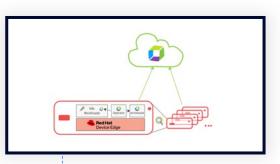
Dynatrace and Red Hat Partnership





Red Hat Enterprise Linux

Scale existing apps across bare-metal, virtual, container, and all types of cloud environments.



May 2017

Dynatrace executes self-healing with Ansible Tower

May 2018

Dynatrace OneAgent Operator for Red Hat OpenShift

Feb 2020

Dynatrace Managed is certified for Red Hat Enterprise Linux (RHEL) 8.x distributions

Nov 2023

Dynatrace and Red Hat expand enterprise observability to edge computing

2016

Dynatrace becomes Red Hat Certified Partner, enabling insight into deployed applications



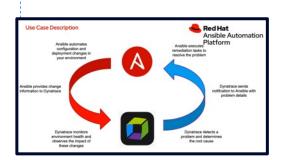
June 2017

Only APM Red Hat OpenShift Primed partner and Red Hat Container Technology Certified partner



May 2019

Dynatrace integrates with Red Hat Ansible to deliver a self-driving cloud ecosystem



Oct 2022

Dynatrace and Red Hat Ansible kick-off next chapter with EDA





For detailed information

Please visit our booth G1 or contact us via:

marcom@asseco-see.com.tr

Thank You





Breakout Session Feedback



https://forms.gle/thDhJnogZwRp77iAA

