Dynataste

Driving Automation



The Unicorn Project: Developer Productivity & Autonomy through Automation

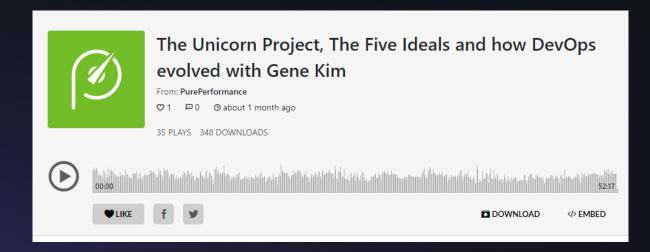
- Stable Enviornments & Self-Service Thinking
- Automated Feedback

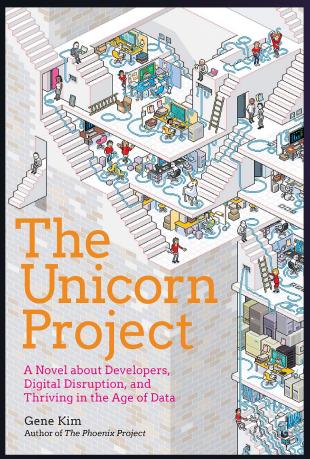
 Monitoring as a Self-Service
- Automated Quality Gates → Performance as a Self-Service
- Automated Delivery

 Unbreakable Delivery Pipelines
- Automated Operations → Path to NoOps

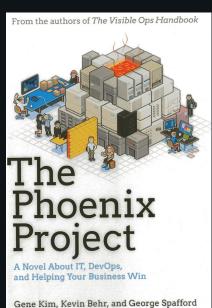


Gene Kim
Tripwire Founder & CTO

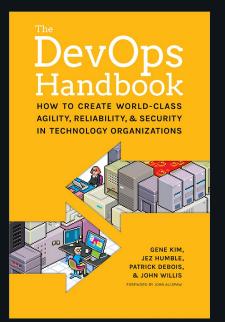




2013



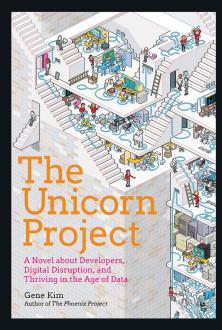
2016



2018



2019

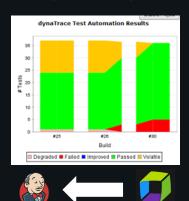


Gene Kim

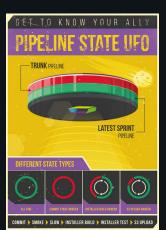


Jez Humble

Shift-Left



CDF & UFO



Davis Al & NoOps

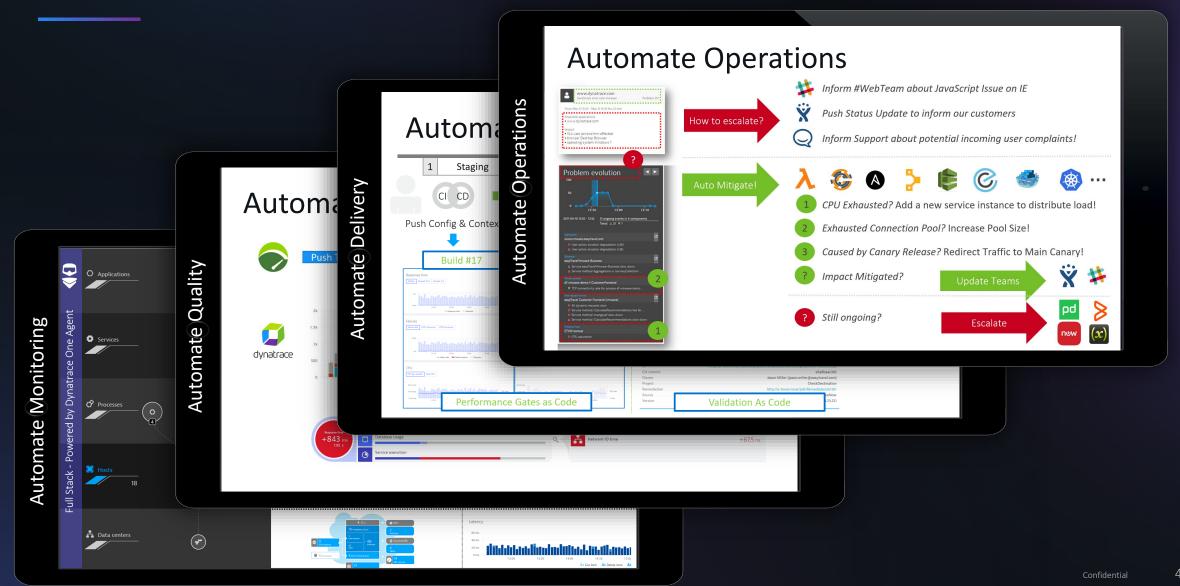


ACE & keptn

Autonomous
Cloud
Enablement



The DevOps Path to become "Unicorns" aka "Autonomous Cloud Enabled!"



Full stack observability with AI at the Core

= Foundation for Complete Automation

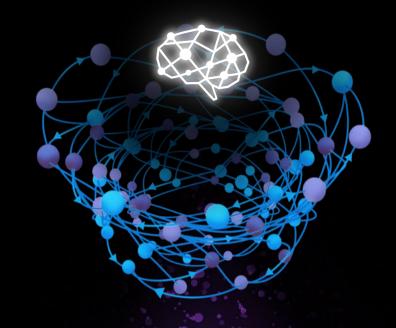
Auto deploy with a single agent

Discovery and mapping

Automated code instrumentation

No-touch upgrades

Trigger self healing



Causation, not correlation

Automated problem detection

Business impact determined

Precise root cause explained

No alert storms

















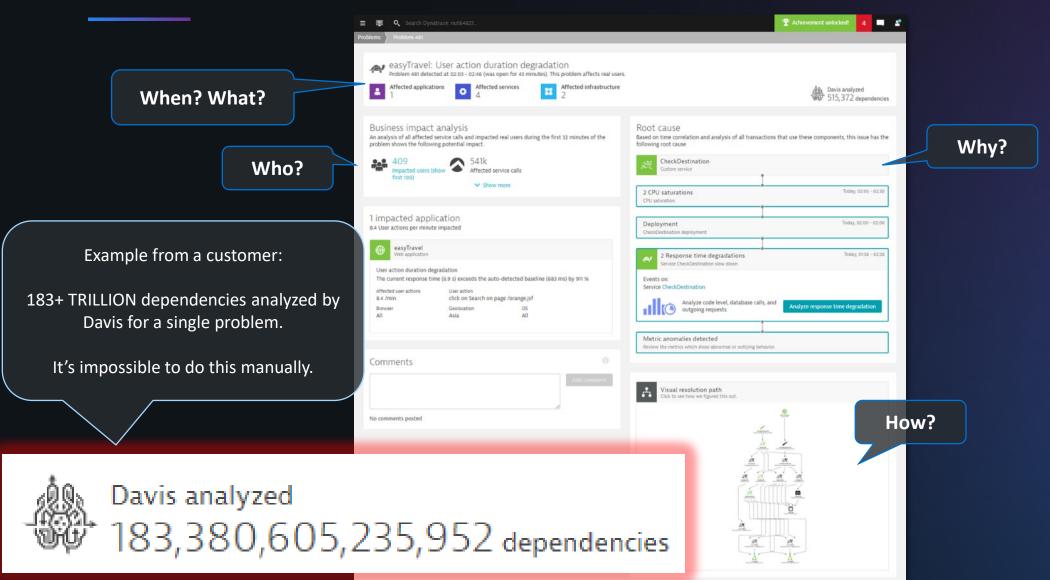






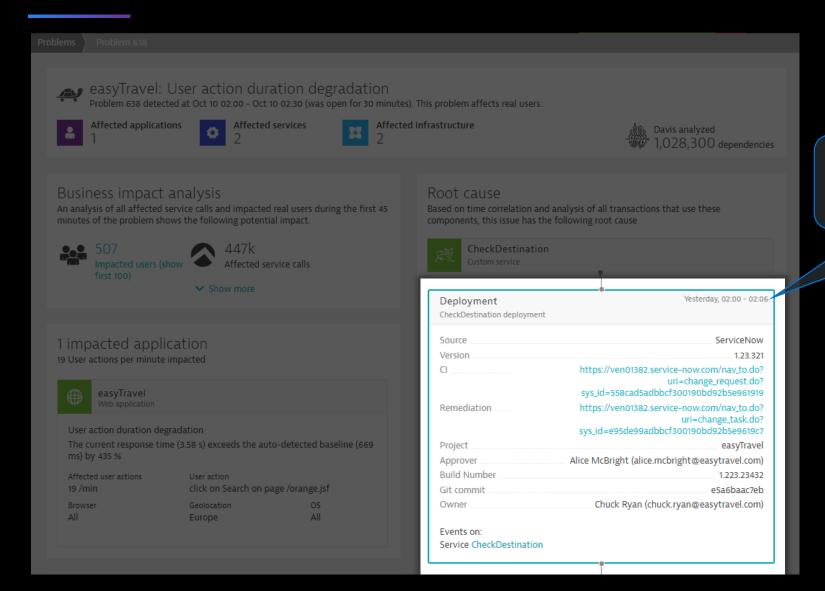


Davis finds problems for you and provides the answers.



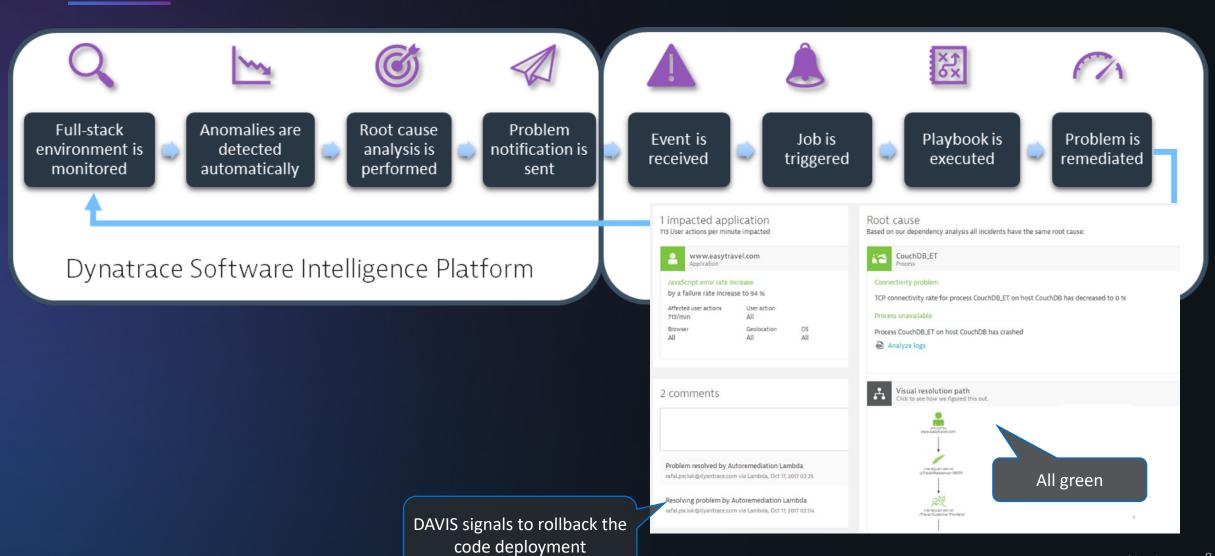


Simple automation case: Self-Remediation



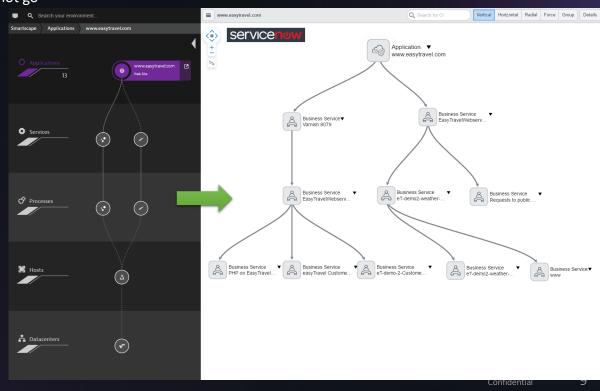
Code deployments and configuration changes will be shown in root cause analysis if it contributed to the issue.

Simple automation case: Self-Remediation



But Davis can evolve and help you much more!

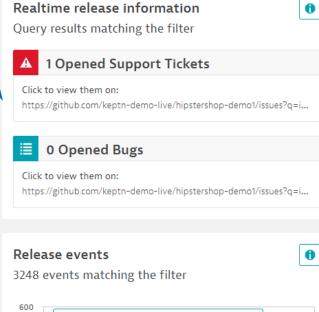
- More data = smarter Davis
 - Deploy more OneAgents = more AI power across your enterprise
 - Leverage the cloud infrastructure mode of OneAgent to deploy broadly with minimal license consumption
 - Connect 3rd party tools into Davis to provide visibility where OneAgent cannot go
 - Data
 - Events
- Connect Davis to Service Now
 - Problem reporting (ITOM)
 - CMDB discovery and mapping
- Connect Davis to deployment and configuration orchestration tooling
 - Send a signal to Davis when deployment is pushed to production
 - Send a signal to Davis when infrastructure changes are made
 - ServiceNow, Ansible, Puppet, Jenkins, etc.

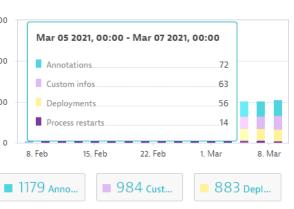


Real-Time Release Tracking

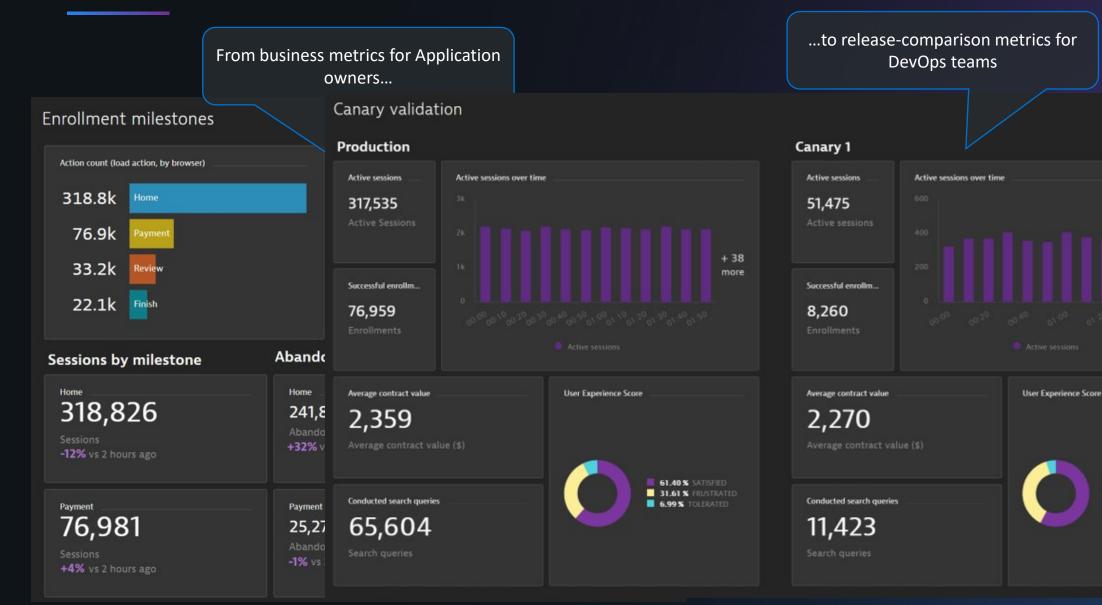
Development system integration to report and track bugs

All releases, all environments, all Real-time inventory Realtime release information applications... All Automated! 56 Releases Component * Version 0 Environment \$ Application \$ Instances 0 Details Q Click to view them on: HipsterShop: adservice jdk11 hipstershop-prod keptn-hipstershop-prod 5 0 B/s Q HipsterShop: adservice jdk11 6 0 B/s hipstershop-staging keptn-hipstershop-sta.. 0 Opened Bugs Q HipsterShop: adservice (pilot-age. 0 B/s <u>jdk11</u> hipstershop-staging keptn-hipstershop-sta.. Click to view them on: HipsterShop: cartservice O, 0 B/s hipstershop-staging keptn-hipstershop-sta... 5 <u>original</u> HipsterShop: cartservice 0 B/s Q keptn-hipstershop-prod 5 <u>original</u> hipstershop-prod Release events Q HipsterShop: cartservice 0 B/s 9e830c2 hipstershop-prod keptn-hipstershop-prod 2 3248 events matching the filter HipsterShop: cartservice 2 0 B/s 9e830c2 hipstershop-staging keptn-hipstershop-sta... 600 Q HipsterShop: cartservice (pilot-ag... original hipstershop-prod keptn-hipstershop-prod 0 B/s 400 Annotations. HipsterShop: cartservice (pilot-ag... 0 B/s hipstershop-staging keptn-hipstershop-sta... Custom infos. 200 Deployments. HipsterShop: cartservice (pilot-ag... 0 B/s 9e830c2 hipstershop-staging keptn-hipstershop-sta... Process restarts. Q HipsterShop: cartservice (pilot-ag... 0 B/s 9e830c2 hipstershop-prod keptn-hipstershop-prod 8. Feb HipsterShop: checkoutservice O, 0 B/s 9e830c2 hipstershop-prod keptn-hipstershop-prod 0, HipsterShop: checkoutservice 0 B/s 9e830c2 hipstershop-staging keptn-hipstershop-sta.





Digital Business Analytics (Operations as IT service provider)



+ 38

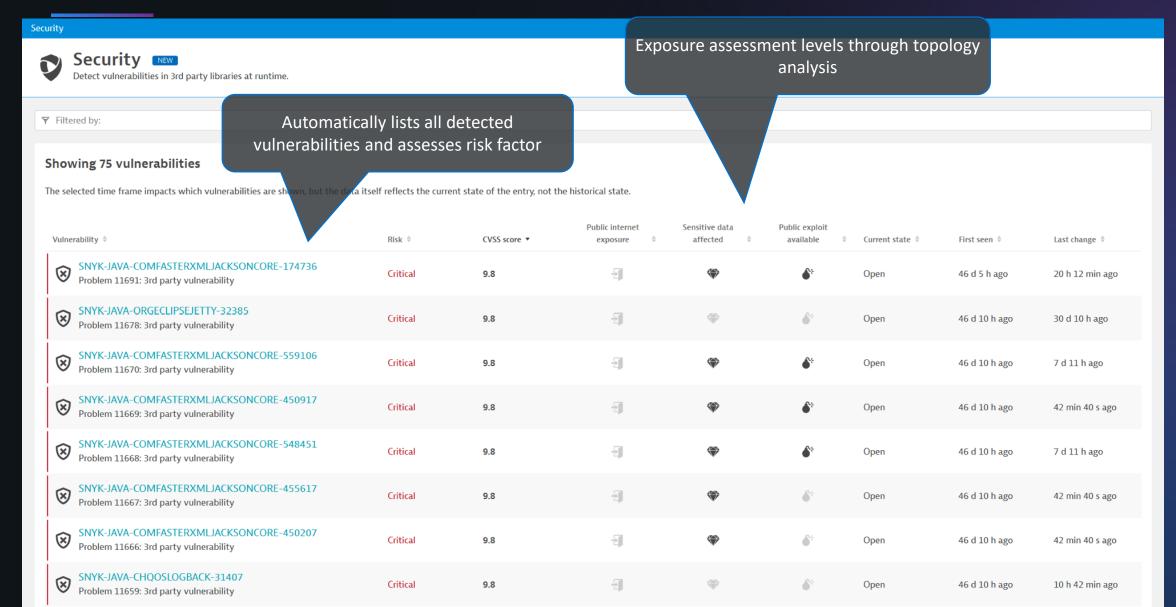
37.70 % FRUSTRATED

4,68% TOLERATED

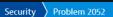
Site Reliability Engineering - SLO tracking

All the SLO goals clearly visible with the							
Review the status and error budget of each defined sovice level objective graded any monitored transaction, s			evel objectives 🗹 or have a loceVa	All the SLO goals clearly visible with the have a locevaluation timeframe of choice and immediate drilldown to analysis			
webpage automatically available for reporting						5	Show results for SLO timeframe
Name •		Status	Error budget	Target	Warning	Timeframe	Actions
Azure CosmosDB SLO Cloud Azure Cosmos ServiceAvailability	γ > 99.8%	100 %	0.2 %	99.8 %	99.9 %	-1w	M * *
Azure ServiceBus SLO Cloud Azure ServiceBus Queue Request	sts Successful / Cloud Azure ServiceBus Queue	99.972 %	-0.008 %	99.98 %	99.99 %	-1w	A
CouchDB SLO Tech Couchdb Http_2xx / Tech Couchdb	، Requests	99.959 %	0.459 %	99.5 %	99.7 %	-1w	A
Mobile crash SLO for easyTravel Mo Apps Other CrashFreeUsersRate Os > 99	obile (new) 5.0%	94.481 %	-0.518 %	95 %	97.5 %	-1d	M * *
Performance Objective www.angula Apps Web ActionCount Category (filter	ar.easytravel.com red) / Apps Web ActionCount Category	85.099 %	-4.9 %	90 %	95 %	-1d	A
Performance Objective www.gcp.hi Apps Web ActionCount Category (filter	ipstershop.com ·ed) / Apps Web ActionCount Category	0 %	-95 %	95 %	97.5 %	-1d	M
Performance Objective www.vmwa Apps Web ActionCount Category (filter	are.easytravel.com red) / Apps Web ActionCount Category	86.124 %	-8.876 %	95 %	97.5 %	-1d	M
Performance Objective www.weath Apps Web ActionCount Category (filter	ner.easytravel.com red) / Apps Web ActionCount Category	97.653 %	2.653 %	95 %	97.5 %	-1d	* *
Service Availability AuthenticationS Service Errors Server SuccessCount / Se	Service ervice RequestCount Server	100.001 %	5.002 %	95 %	97.5 %	-1d	* *

Application Security



Application Security





SNYK-JAVA-COMGOOGLEPROTOBUF-173761: High risk to your environment

3rd party vulnerability (SNYK-JAVA-COMGOOGLEPROTOBUF-173761) detected at October 01 01:09

Problem context

Affected entities

Vulnerable components





No public exploit available



No public internet exposure





3rd party vulnerability CVSS V3.0



4929 affected entities



Sensitive data affected

Context and details

Find out more about the vulnerability, how it can be reached and what could be accessed through it.



No exposed processes

to the public internet, within 0 process groups. Forward user-controlled input

No exposed processes.



1550 affected processes

within 765 process groups

Overview

com.google.protobuf-java 🗹 is a Google's language-neutral, platform-neutral, extensible mechanism for serializing structured data.

Affected versions of this package are vulnerable to Integer Overflow by allowing remote authenticated attackers to cause a heap-based buffer overflow in serialisation process.

For further information visit SNYK .

...CVE-2015-5237 🖸 2017:A9 **凸**

CWE ...CWE-119 C

Recent events

Find out what happened recently.

Event Details



No recent events found

No significant events detected recently.

3 vulnerable components

Find out which components are causing this vulnerability.

Filename	Description	Affected processes
gwt-servlet-2.8.2.jar	com.google.protobuf:protobuf- java:2.5.0	1
kotlin-plugin.jar	com.google.protobuf:protobuf- java:2.6.1	0

Full Business automation experience is a reality

https://www.dynatrace.com/news/customer-stories/vitality/

The problem: Fitness tracking app that accumulates points that can be converted into rewards is spread through too many platforms and API's so sometimes reward redeeming fails.

The Solution:

- 1.Use Dynatrace to detect failed transactions
- 2. Match the user session in AWS with a CRM, apply machine learning
- 3. Automatically trigger a response to the customer providing the rewards or a call from the call center.



Enabling a smarter cloud ecosystem

DevOps CHEF puppet Jira **Cloud Platforms Business automation** Application Red Hat Azure aWS APIS APIS Digital Business Analytists **Autonomous Operations** now. #slack **Open Ingest**