

Driving Transformation:

Unleashing AI & Automation Innovation



ENRIC CHOO LEAD, SOLUTION

ENGINEER

PRESENTER





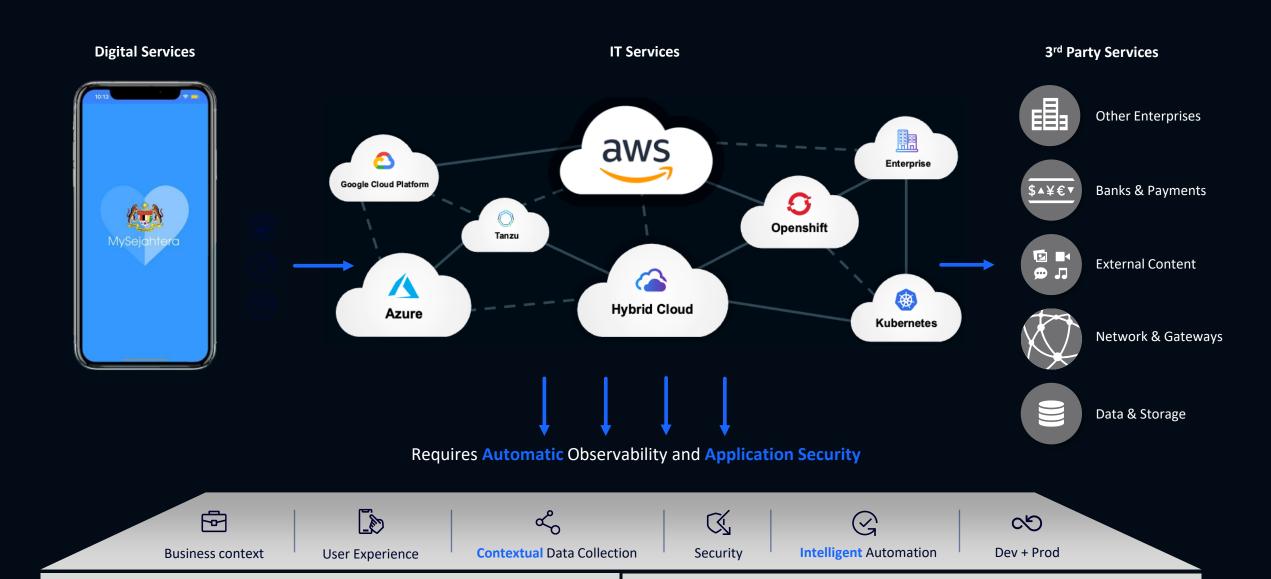
Complexity Stakes are high

You have one of the hardest jobs in the world

Release frequency,
Digital Transformation

User expectation

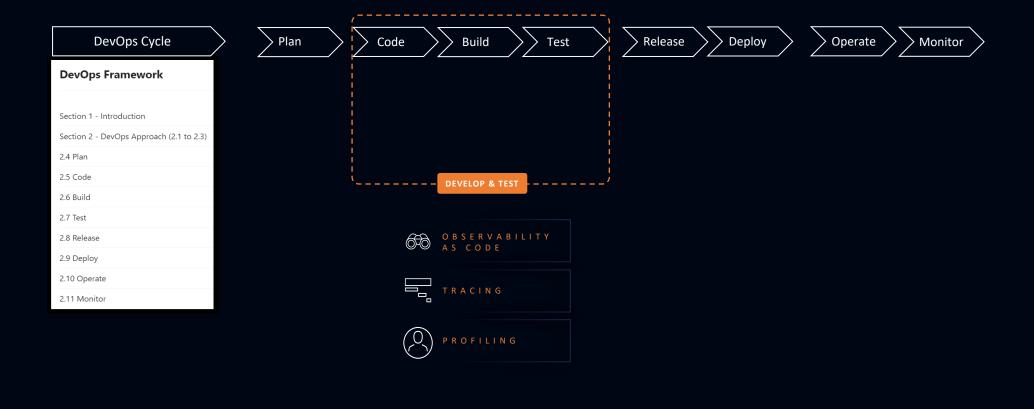




On-Prem

SaaS + Data Lakehouse + Log Management + Business Events + Custom Apps + Automation Workflow

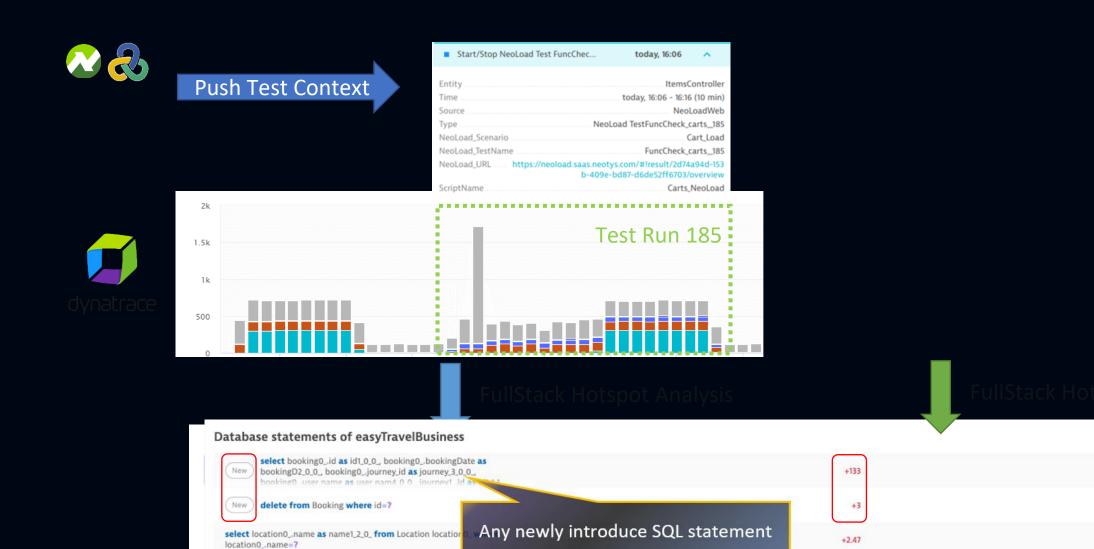
THE DEVOPS FRAMEWORK





CI/CD

SHIFT LEFT



select journey0_.id as id1_1_, journey0_.amount as amount2_1_,

change in invocations v

THE DEVOPS FRAMEWORK



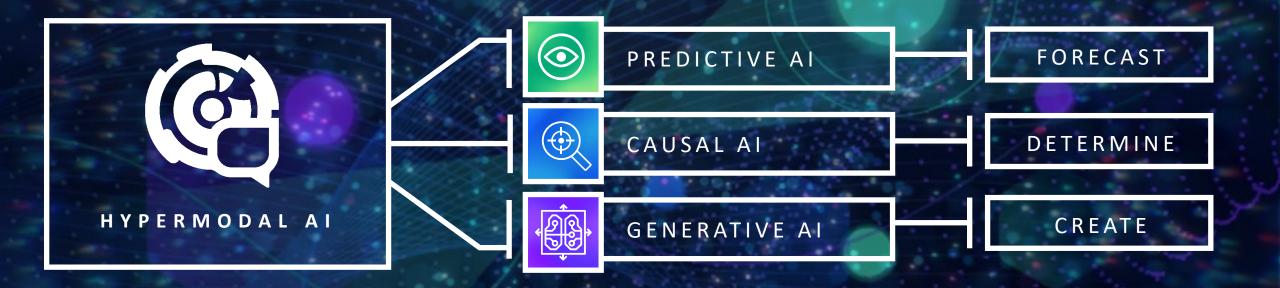


CI/CD





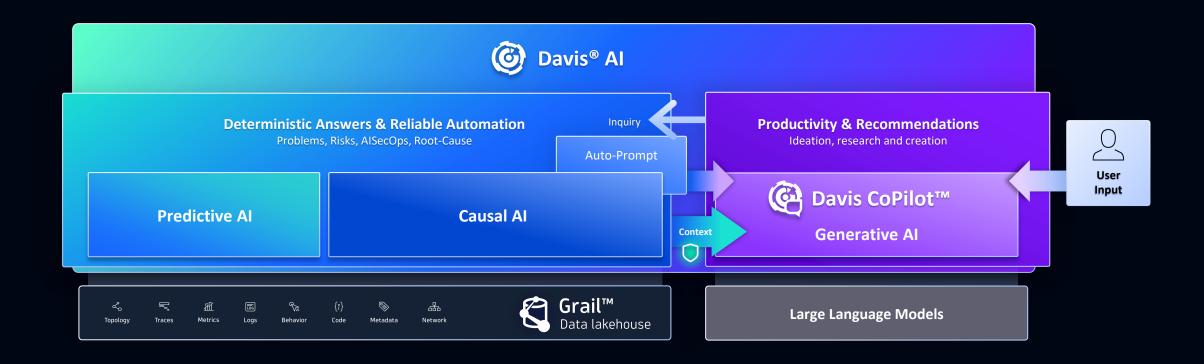
Davis® AI – Industry's first hypermodal AI – The Power Of Three



CONFIDENTIAL

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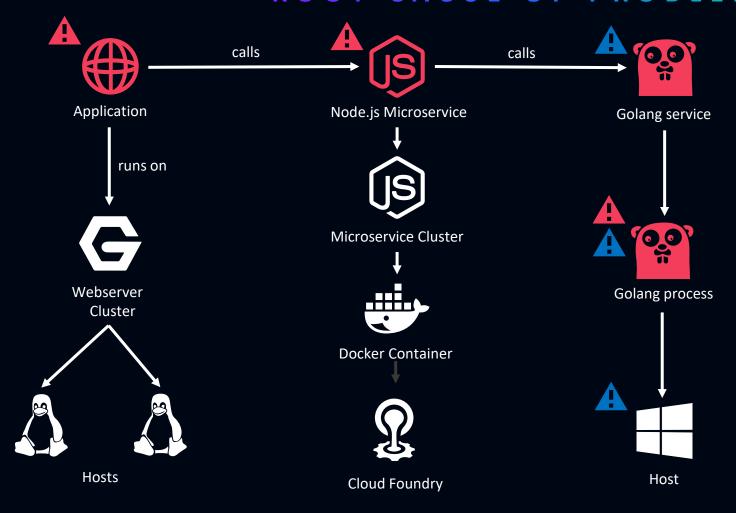
Davis® AI – Industry's first hypermodal AI – The Power Of Three



DAVIS AI CAUSAL AI

AUTOMATIC ROOT-CAUSE ANALYSIS

DYNATRACE DAVIS AI DETECTS AND ANALYZES THE ROOT CAUSE OF PROBLEMS.



- 1 Real user experience
 - 2 Topology
- 3 Transactions
- 4 Code-level insights
- 5 Metrics
- 6 Cloud platform
- 7 Events
- 8 Logs
- 9 Third-party events

DAVIS AI PREDICTIVE AI

PREDICTIVE OPERATIONS

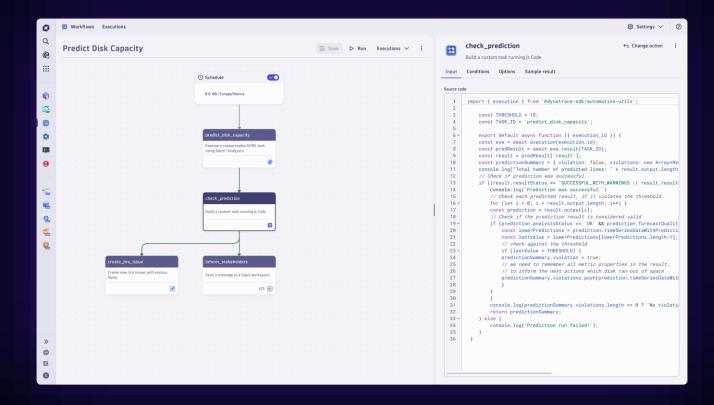
PROACTIVELY REACT

CHOOSE THE TRIGGER SCHEDULE CHECK ONCE A DAY, HOUR, WEEK

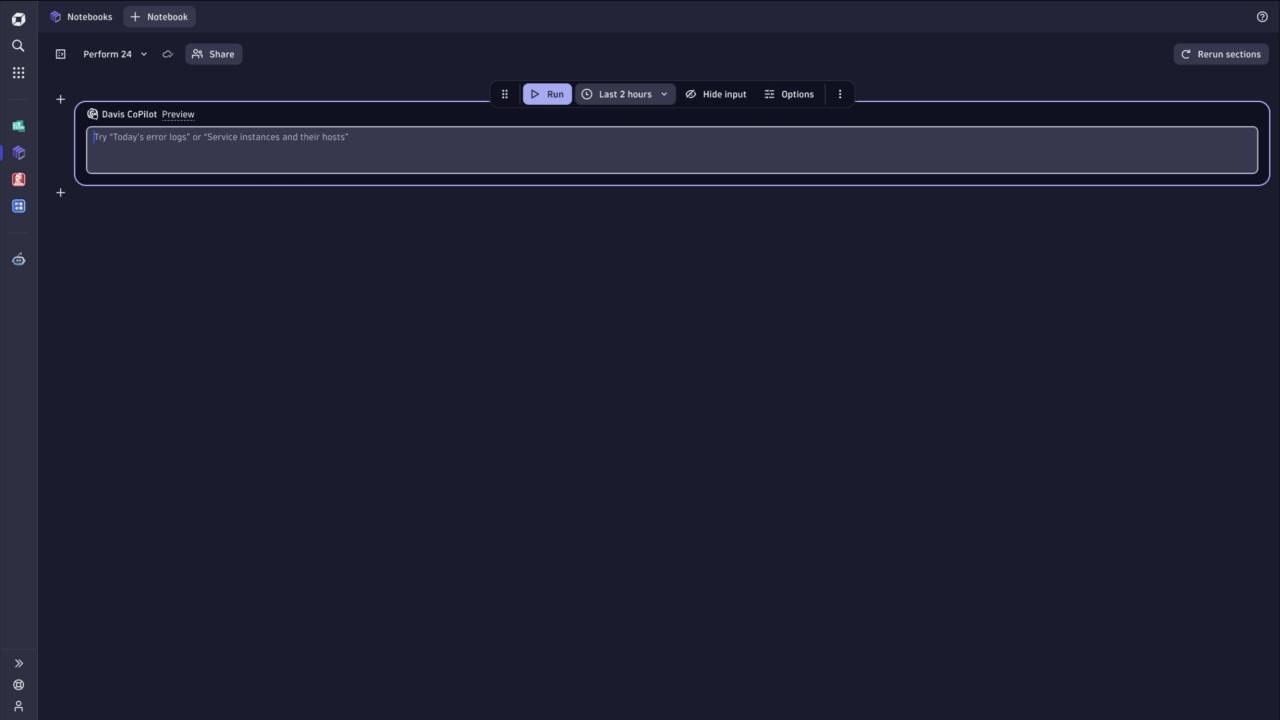
FORECAST
ALL DISK FREE SPACE

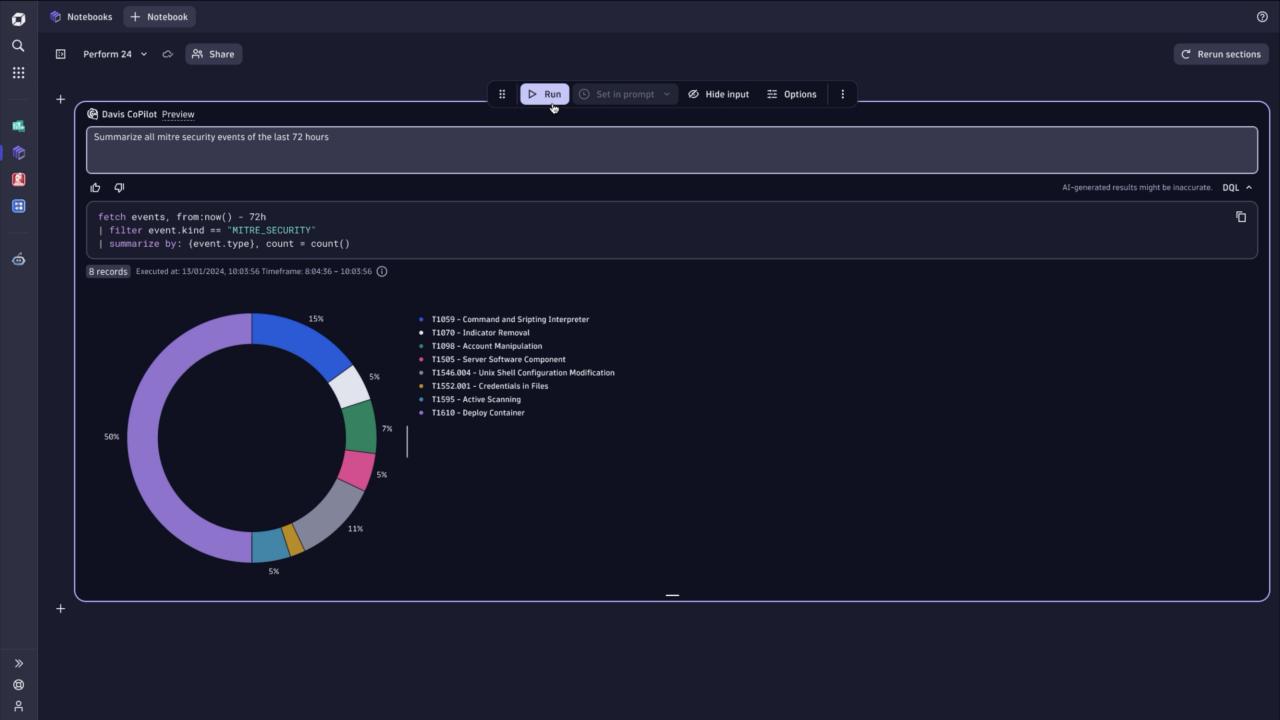
GENERATES A REPORT OF ALL DISKS
THAT WILL RUN OUT

CHOOSE A DELIVERY ACTION, E.G.: SEND BY SLACK, EMAIL, ETC



DAVIS AI GENERATIVE AI





THE DEVOPS FRAMEWORK

DevOps Cycle Code Test **DevOps Framework** IT DOES NOT STOP HERE Section 1 - Introduction Section 2 - DevOps Approach (2.1 to 2.3) 2.4 Plan 2.5 Code **RELEASE & OPERATE** 2.6 Build 2.7 Test 2.8 Release 2.9 Deploy 2.10 Operate TRACING 2.11 Monitor PROFILING



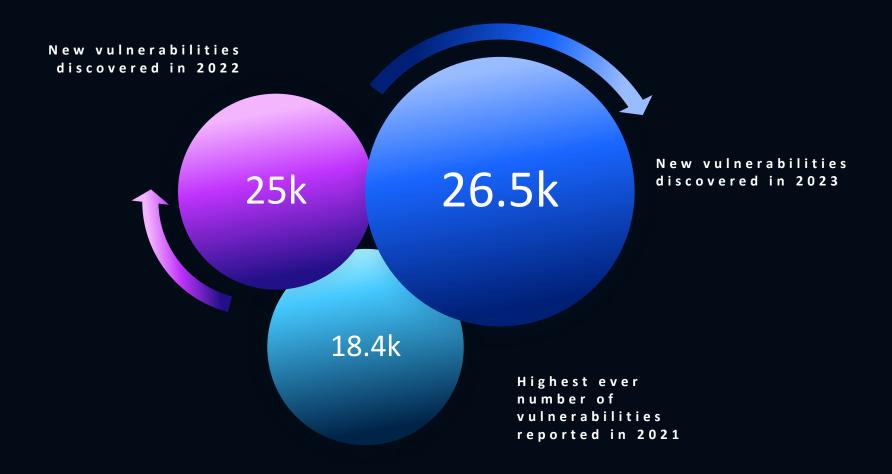
CI/CD

THE DEVSECOPS FRAMEWORK

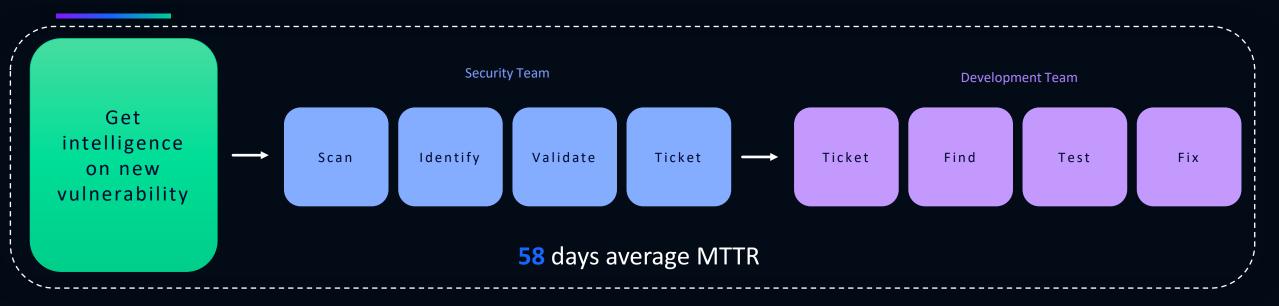
Monitor DevOps Cycle Plan Code Build Release Deploy Operate Test **DevOps Framework** Section 1 - Introduction Section 2 - DevOps Approach (2.1 to 2.3) 2.4 Plan 2.5 Code **PROTECT DEVELOP & TEST RELEASE & OPERATE** 2.6 Build 2.7 Test 2.8 Release 2.9 Deploy 2.10 Operate TRACING 2.11 Monitor PROFILING

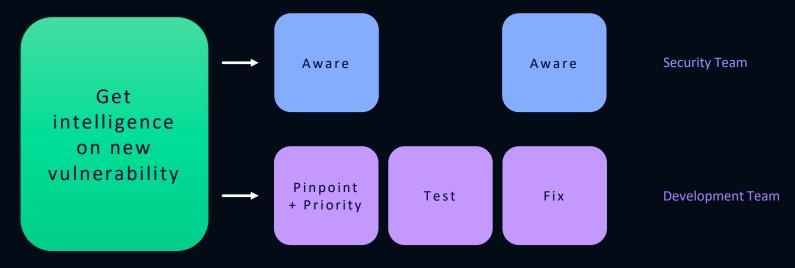
CI/CD

Securing environments has never been harder



Actionable, prioritized and real time vulnerability risk mitigation





Dynatrace brings immediate awareness to critical vulnerabilities that put your operations and business at risk



Easily identify the number of known vulnerabilities in your environment

Vulnerabilities
315 total (+5 muted)

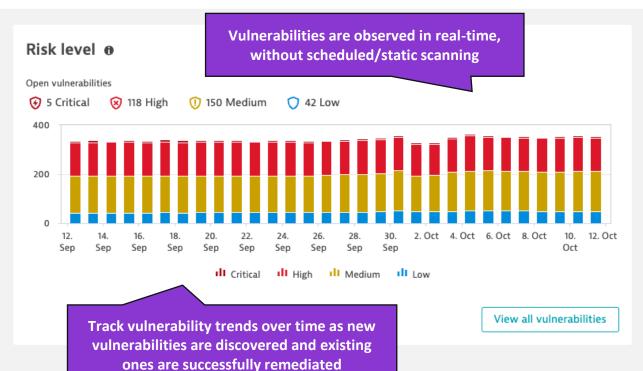
5 Critical

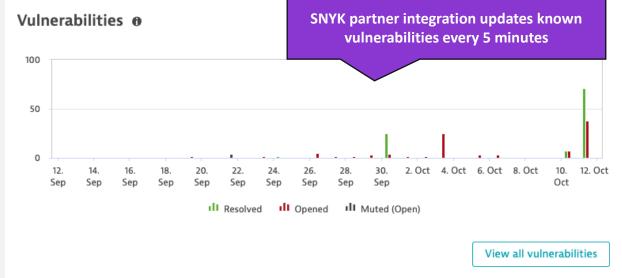
55% of total

Host coverage

Application Security covered hosts: 61 (55% of total hosts)

Increase coverage 🖸





Affected process groups

Sorted by severity

Demo data used in this slide

Remote Code Execution (RCE)

Third-party vulnerability (SNYK-JAVA-ORGAPACHELOGGINGLOG4J-2314720) first detected on December 10 at 22:10.





Demo data used in this slide

Vulnerable functions

Davis provides an easy to consume summary of the security problem (vulnerability) including the what, where, and why your environment is vulnerable







CWE-94 [2]

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Exploit Exploit published

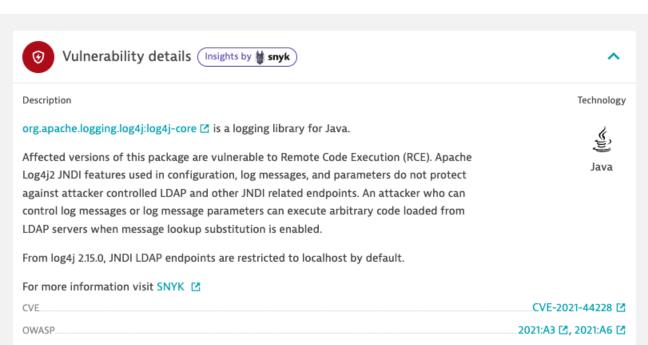


Process groups
3 affected



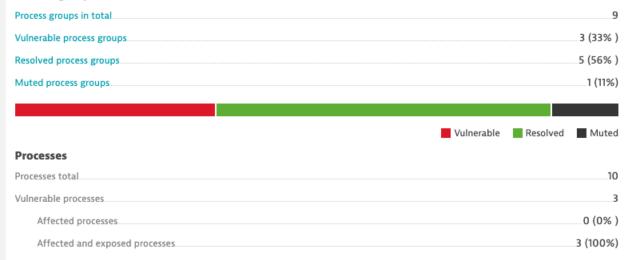
Vulnerable component

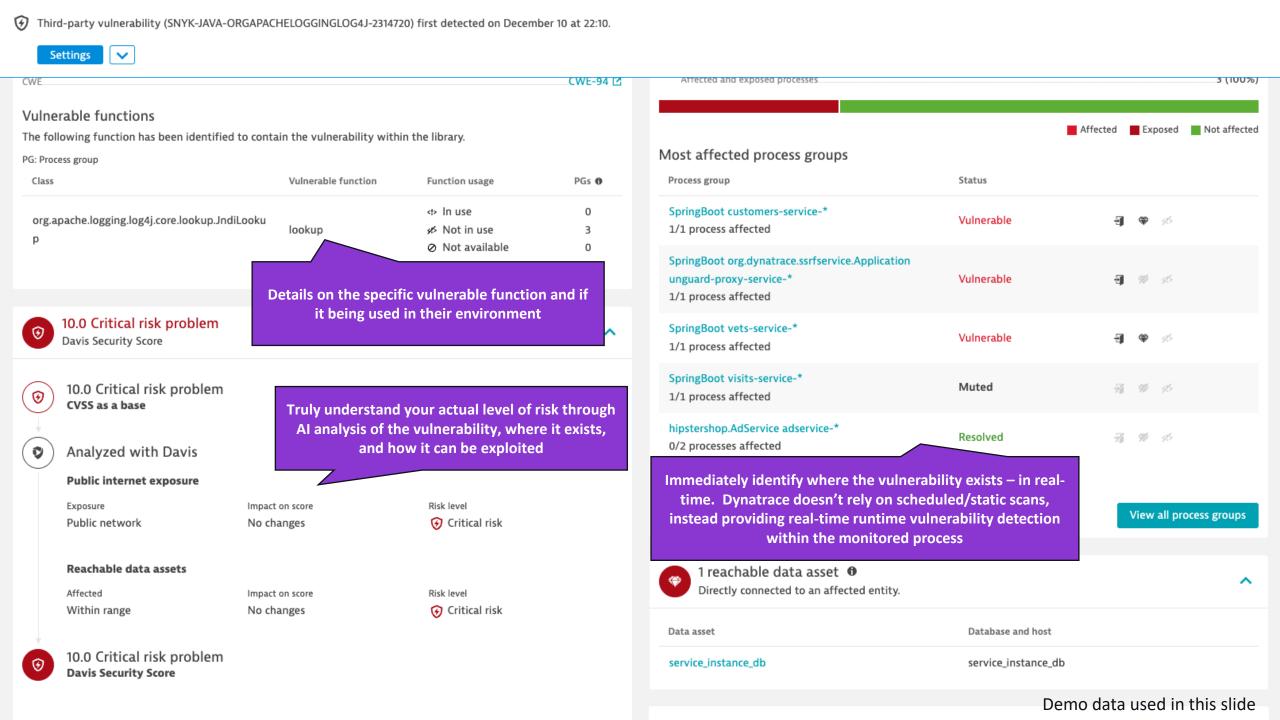
log4j-core



Immediately identify where the vulnerability exists – in realtime. Dynatrace doesn't rely on scheduled/static scans,
instead providing real-time runtime vulnerability detection
Process group ov within the monitored process

Process groups

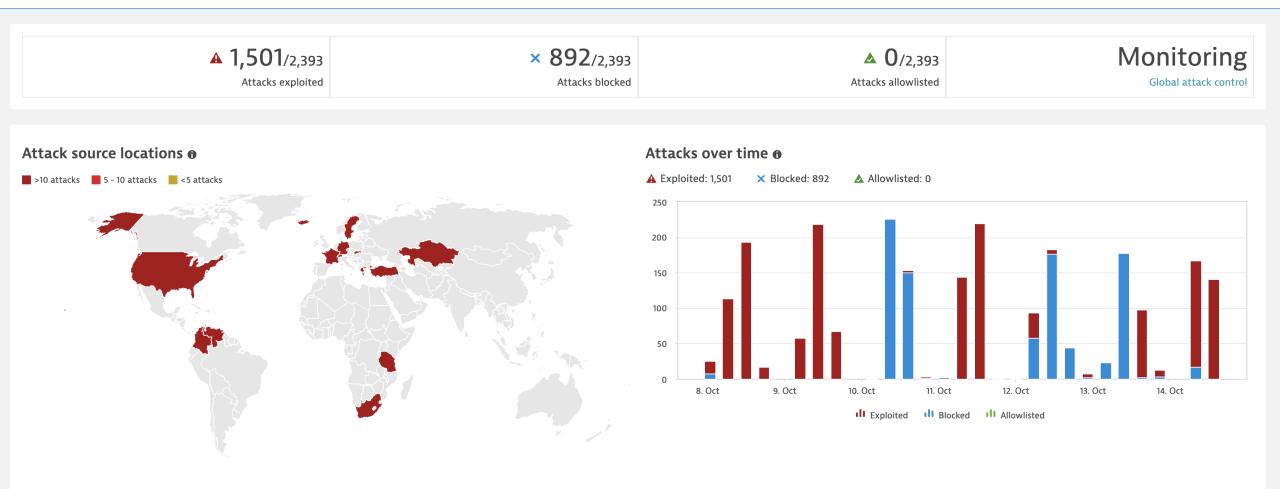






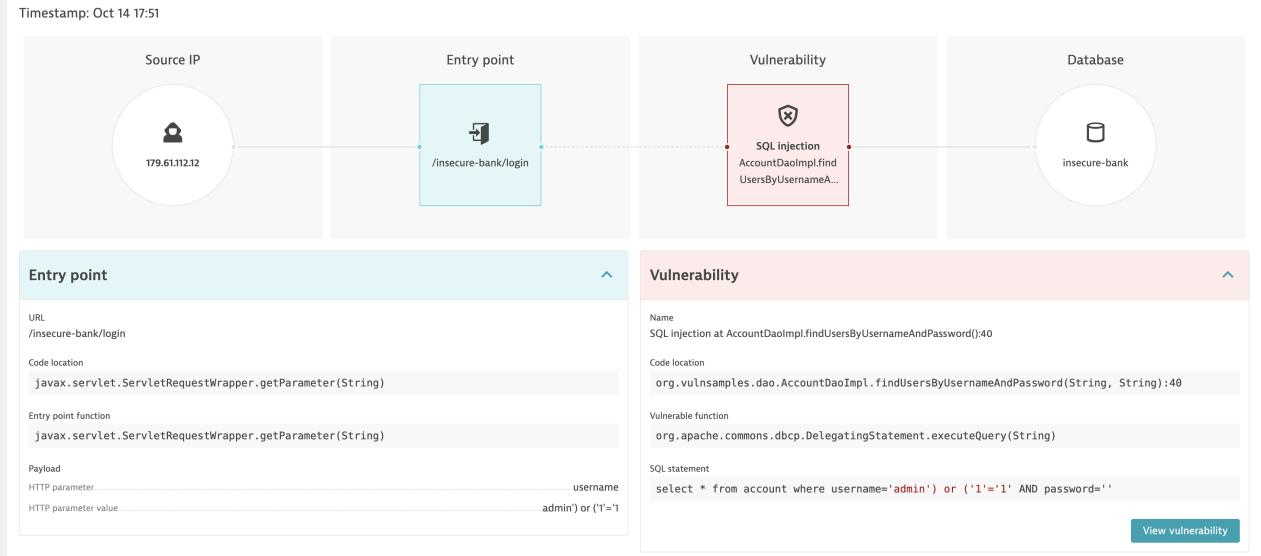






A-5MWPVN: insecure-bank (Tomcat)

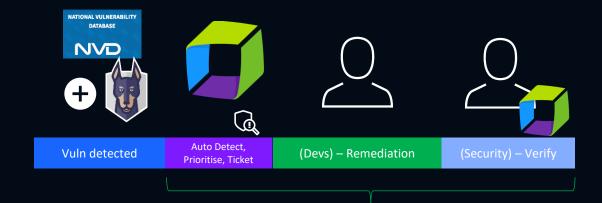
Attack path



Large Insurance Customer **95**% reduction in vulnerability risk remediation time

Vuln detected Manual Alerts (Security / Ops / Devs) – Detect, Diagnose, Prioritise, Allocate (Devs) – Remediation (Security) – Verify

After AppSec



4 hours

> 96 hours

- 1 Dynatrace AppSec 100 vulnerabilities 400 days (96 x 100 = 9600hrs)
- After Dynatrace AppSec
 20 vulnerabilities prioritised by impact
 3.3 days (4 x 20 = 80hrs)
 13.3 days (4 x 80 = 320hrs)
- Remediate 100 vulnerabilities 383.3 days saving (400 days –16.6 days)

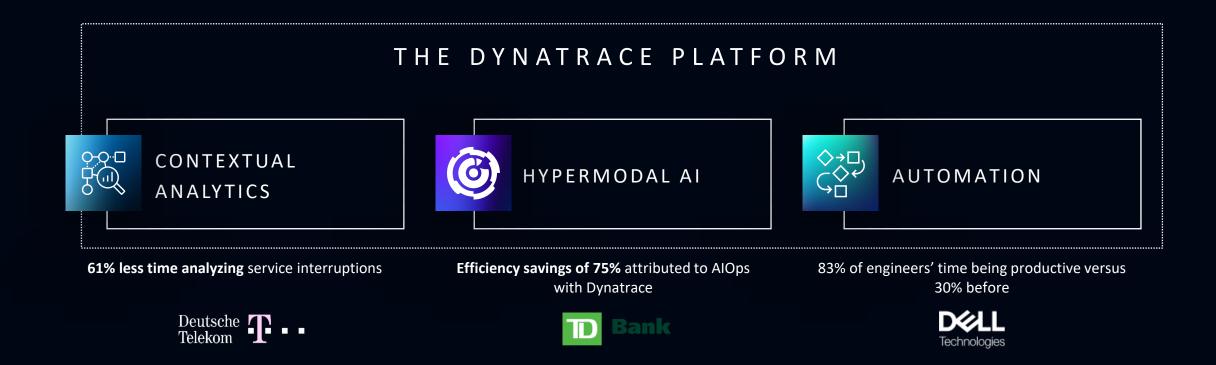
HUGE developer time savings



OTHER USE CASES

| DEVELOP | RELEASE | OPERATE | PREDICT | PREVENT | RESOLVE | PROTECT | IMPROVE |
|---|-----------------------------|---------------------------------|-------------------------------|---|-------------------------------|---------------------------------|--|
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| OBSERVABILITY- DRIVEN DEVELOPMENT | PROGRESSIVE DELIVERY | INFRASTRUCTURE OBSERVABILITY | FORECASTING IN DATA ANALYTICS | UNIFIED EXPOSURE PRIORITIZATION | SLO ERROR BUDGET ALERTING | PROTECT APPS FROM THE INSIDE | KUBERNETES UTILIZATION IMPROVEMENT |
| ٥ | | | ◇→□ ◇ •• | ₹ | ₽ | <u></u> | |
| CONTINUOUS TESTING VALIDATION | PIPELINE OBSERVABILITY | KUBERNETES OBSERVABILITY | FORECASTING IN WORKFLOWS | CONTINUOUS SECURITY POSTURE AWARENESS | AUTO-HEALING | CONTEXTUALIZED THREAT DETECTION | BUSINESS ALIGNMENT |
| | | | | Æ | (A) | ĻĢ, | <u>=</u> 3 |
| TEST PIPELINE OBSERVABILITY | RELEASE VALIDATION | CLOUD COST OPTIMIZATION | PREDICTIVE OPERATIONS | BUG PREVENTION | INSTANT INTRUSION RESPONSE | SOC NOISE REDUCTION | ALWAYS-ON APP PROFILING |
| & | | (%) | <i>କ</i> ୍ଷ | <u></u> | <u>- ˈ᠘</u> - | | Q |
| AI MODEL VALIDATION | ENGINEERING INTELLIGENCE | AI RELIABILITY | SRE AUTO PILOT | ACCELERATED RESOLUTION | INCIDENT AUTO- ROUTING | SECURITY AS A SERVICE | INCREASE SATISFACTION |
| <u>జ</u> ్ఞర్య | ₹. | ⊕ | | * | © | <u> </u> | <u>€</u> 1 |
| OBSERVABILITY AS A SERVICE | BEHAVIOR VALIDATION | KUBERNETES ORCHESTRATION | AI COST MANAGEMENT | DATA OBSERVABILITY | ERROR INSPECTOR | CENTRAL AUDIT LOGS | SALESFORCE SPEED |

OUR APPROACH IS RADICALLY DIFFERENT













THANK YOU