# Why observability and AI will help your Cloud adoption?

PRESENTER
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# Industry Trends

## The public sector is Experiencing Pressure from Many Directions

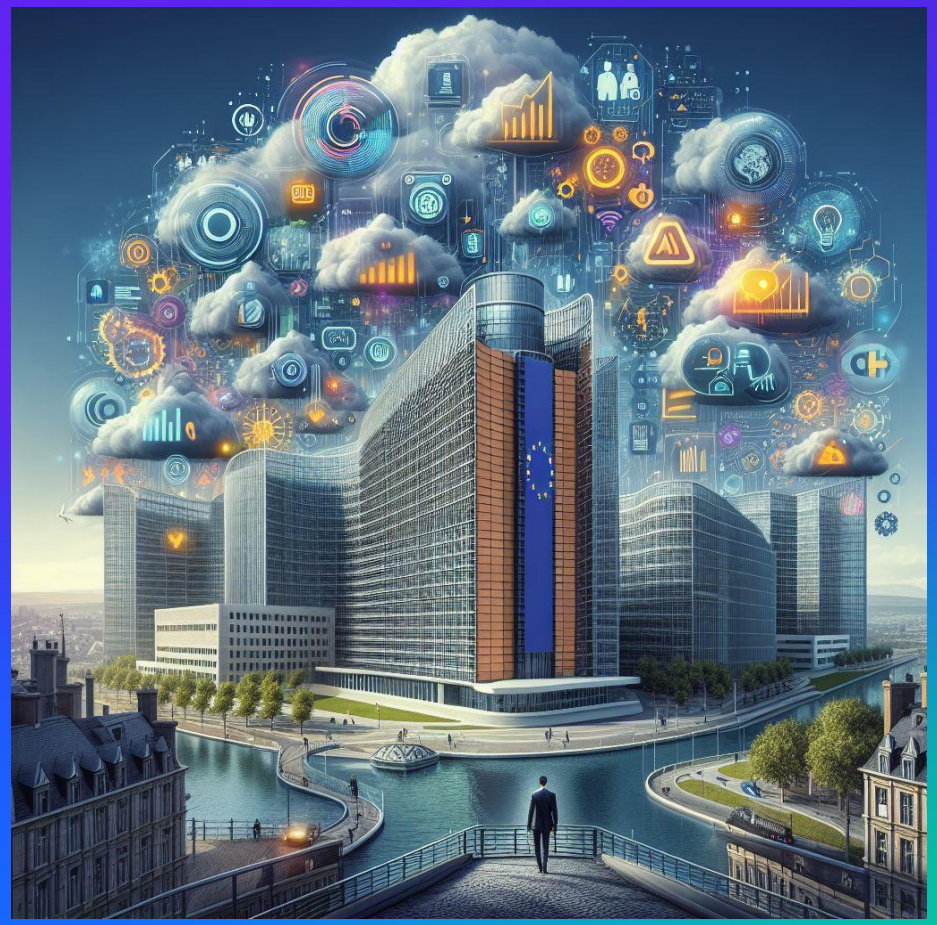
Public Sector

**Green IT.** All government entities are trying to lead by example on the topic of Green IT. Especially European Commission which should be an example for the all continent.

**Regulatory Compliance** pressure is increasing, particularly around safety and ecological impact, with cybersecurity adding yet another demand on risk management.

**Cloud-Based Legacy Modernization**
Leading governments are under pressure to break down legacy, siloed systems and data stores to modernize IT infrastructure and applications to ensure more resilient government services. CIOs can use adaptive sourcing strategies to identify areas where “as-a-service” delivery models augment internal resources and address business priorities. Gartner predicts over 75% of governments will operate more than half of workloads using hyperscale cloud service providers by 2025

**AI for Decision Intelligence**
By 2024, Gartner predicts 60% of government AI and data analytics investments will directly impact real-time operational decisions and outcomes. AI for decision intelligence provides governments with rapid, accurate and early decision-making capabilities at scale. CIOs must prepare for widespread AI use by ensuring data is available at points of decision and by establishing effective governance principles.



**Complexity**

# Get the right data across datacenters and cloud

Continuous auto discovery

No manual work

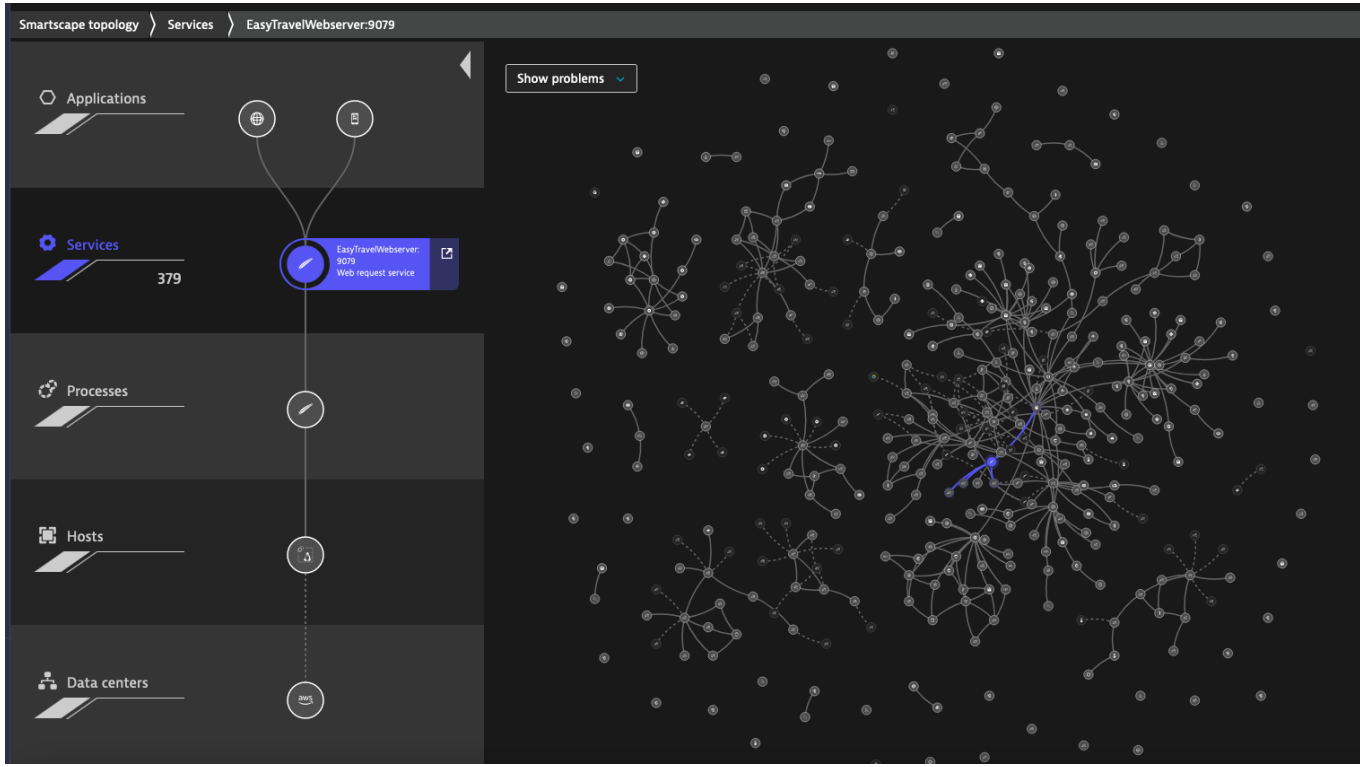
On prem DC's

Kubernetes

AWS, …

Use as data source for CMDB

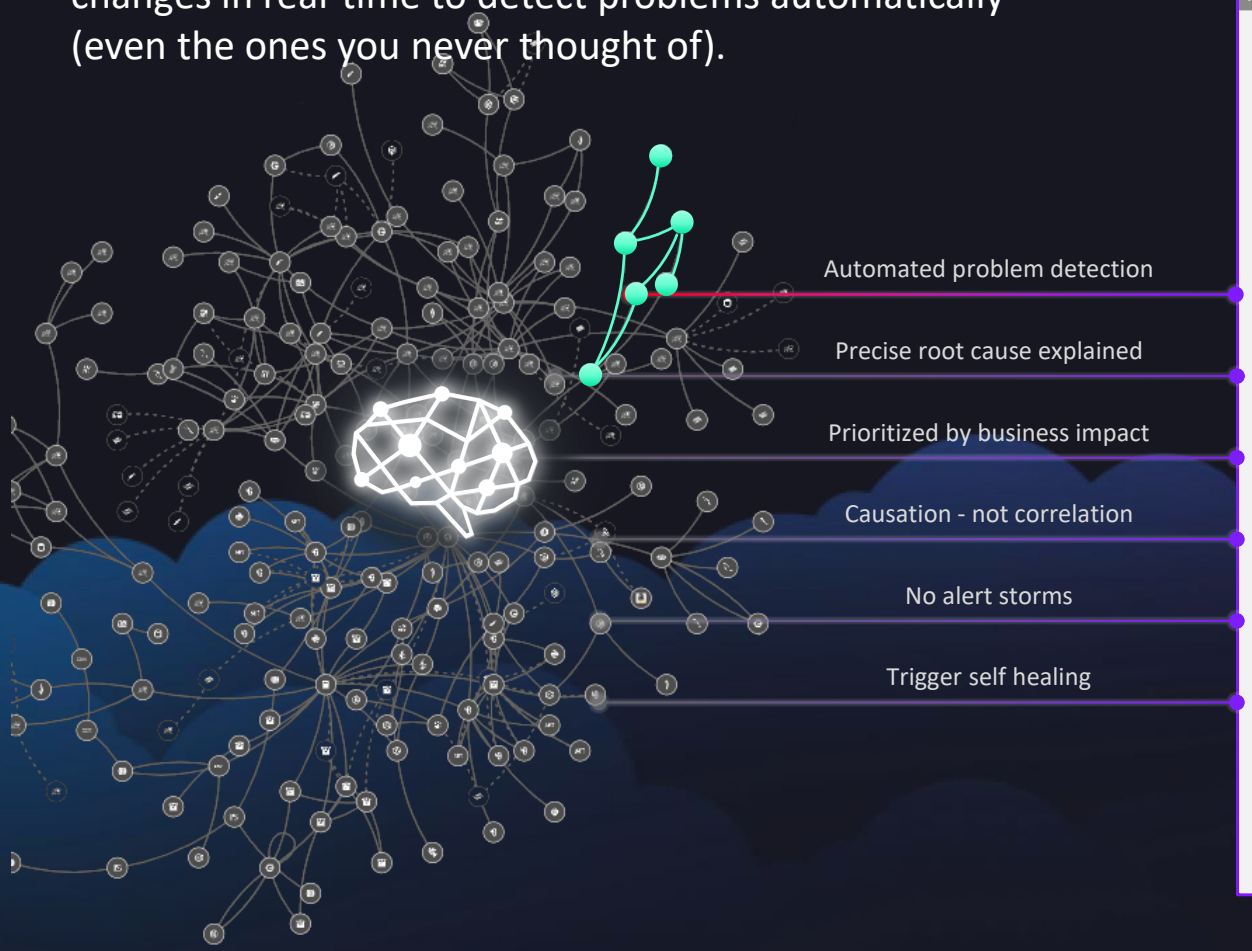
- Instant visibility across your whole enterprise
- Observability data stored in dependency model
- Single source of truth
- Used by AI called Davis



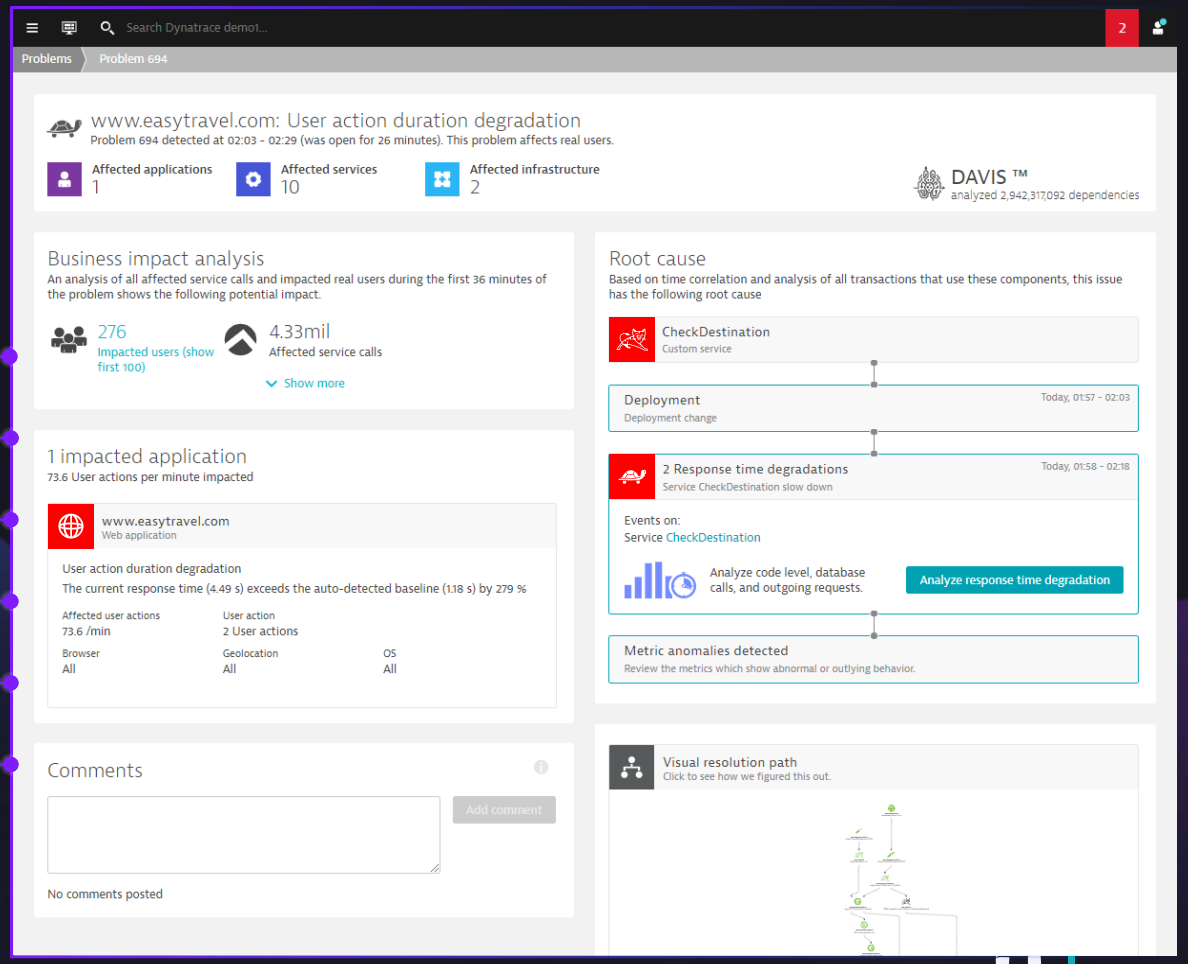

Running on prem and/or public cloud

# Go beyond dashboards and get proactive answers

Dynatrace continuously observes, learns and auto-adapts to changes in real-time to detect problems automatically (even the ones you never thought of).



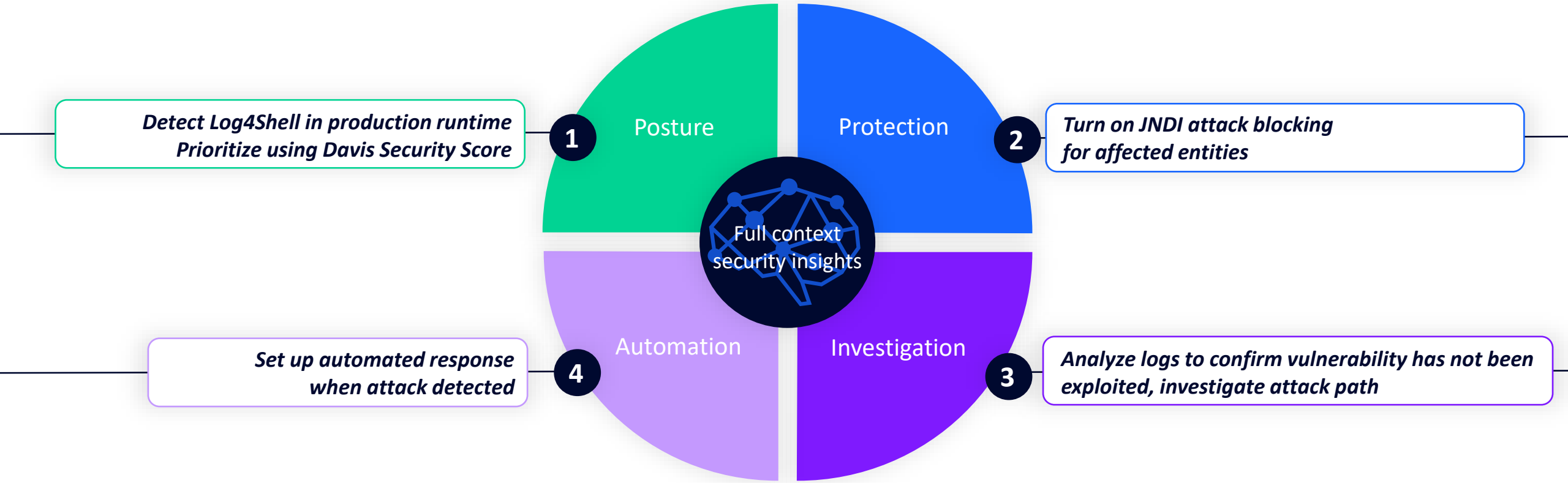
- Automated problem detection
- Precise root cause explained
- Prioritized by business impact
- Causation - not correlation
- No alert storms
- Trigger self healing



# From low hanging fruit to …

- Free up time with AI driven incident resolution process
  - Less teams involved in incident resolution process
  - Less time spend on finding root cause of an issue
- Solve reoccurring problems
  - Less incidents in production
  - Free up even more time
- Optimize environment
  - Tool consolidation: APM, infra monitoring, log analytics, …
- Auto remediation with Dynatrace workflows
  - Automating resolution of problems (ex: Ansible)

# Extending observability to security



# Log4Shell Vulnerability Timeline with Dynatrace AppSec

All times in UTC

Vulnerability listed on GitHub

Dec 10, 12:40am

Vulnerability listed on NVD

Dec 10, 10:15am

Vulnerability listed on Snyk

Dec 10, 10:45am

Live feed

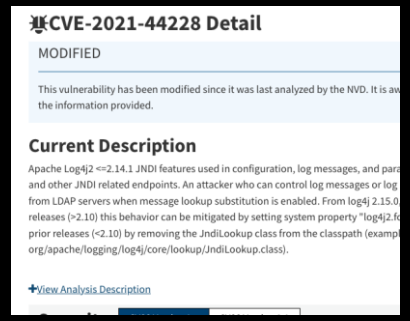
AppSec vulnerability catalog updated

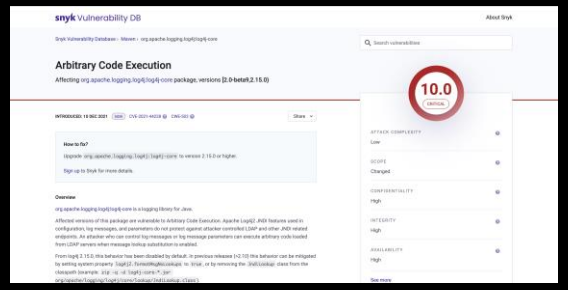
Dec 10, 10:50am

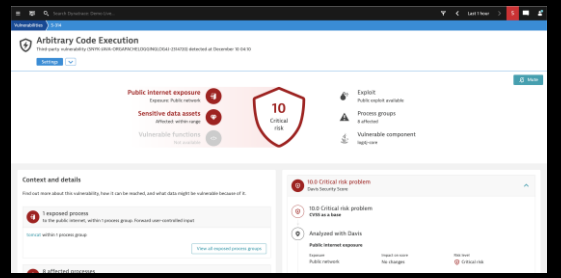
Assessment

First vulnerabilities detected in customer environments with Davis Security Score

Dec 10, 11:05am

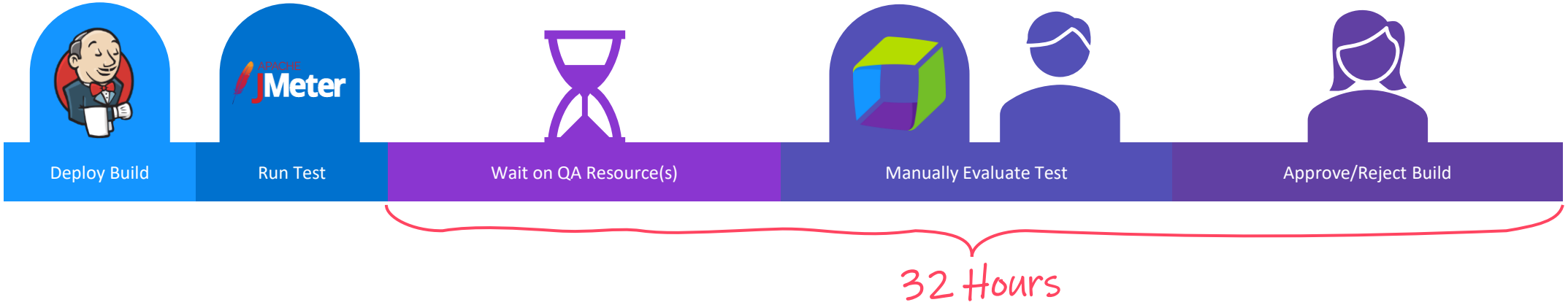


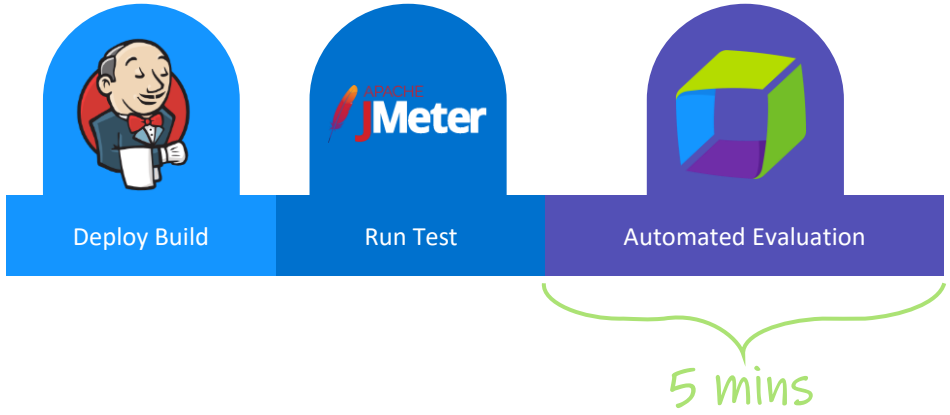



# **Shift Left** faster, better and more secure releases

Manual Evaluation




Automated Evaluation



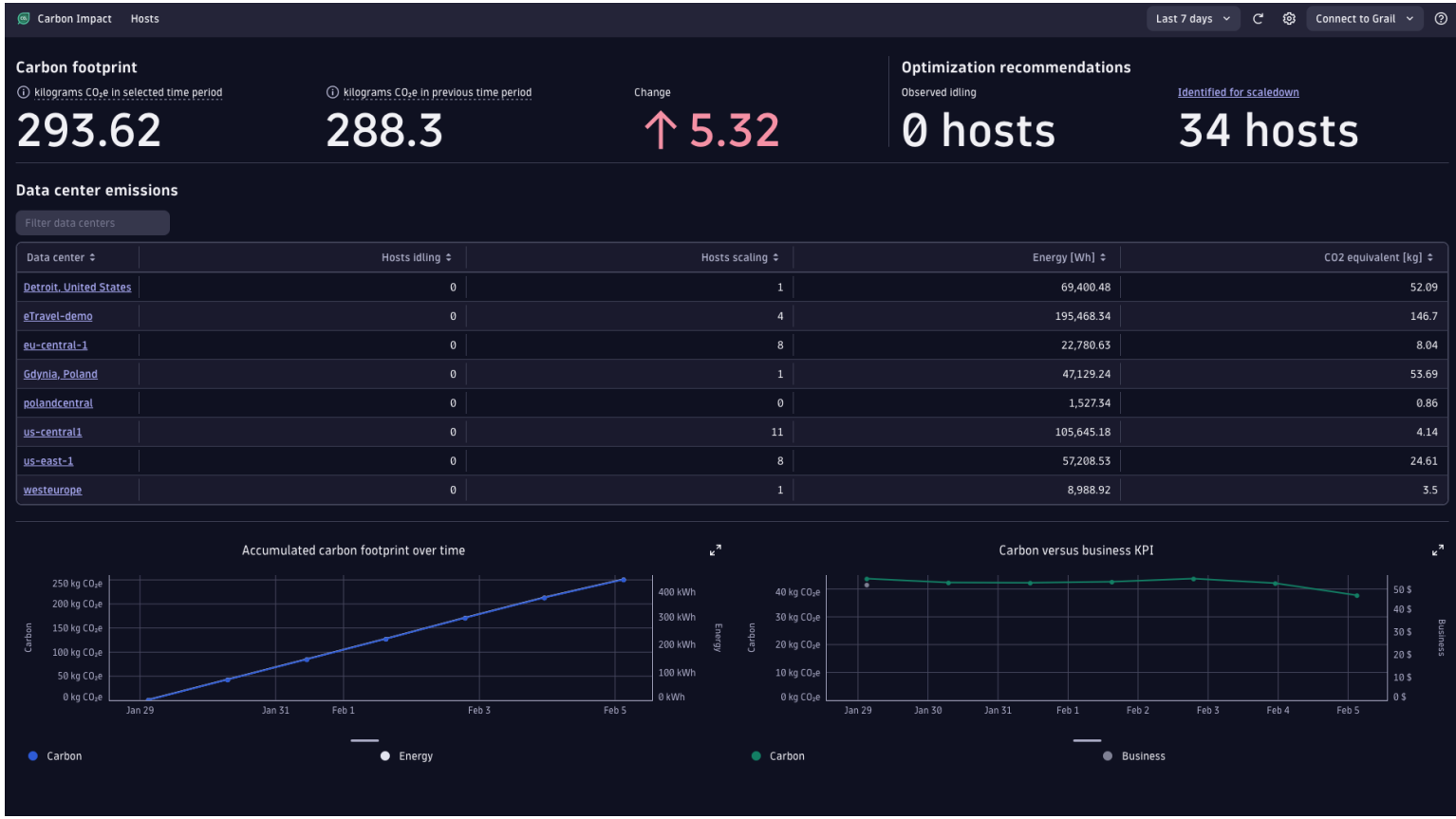

**400x** reduction in performance evaluation time

*Dynatrace Release Validation enables us to build a "You Build It, You Own It" Organization*

# Manage cloud cost and mitigate carbon footprint

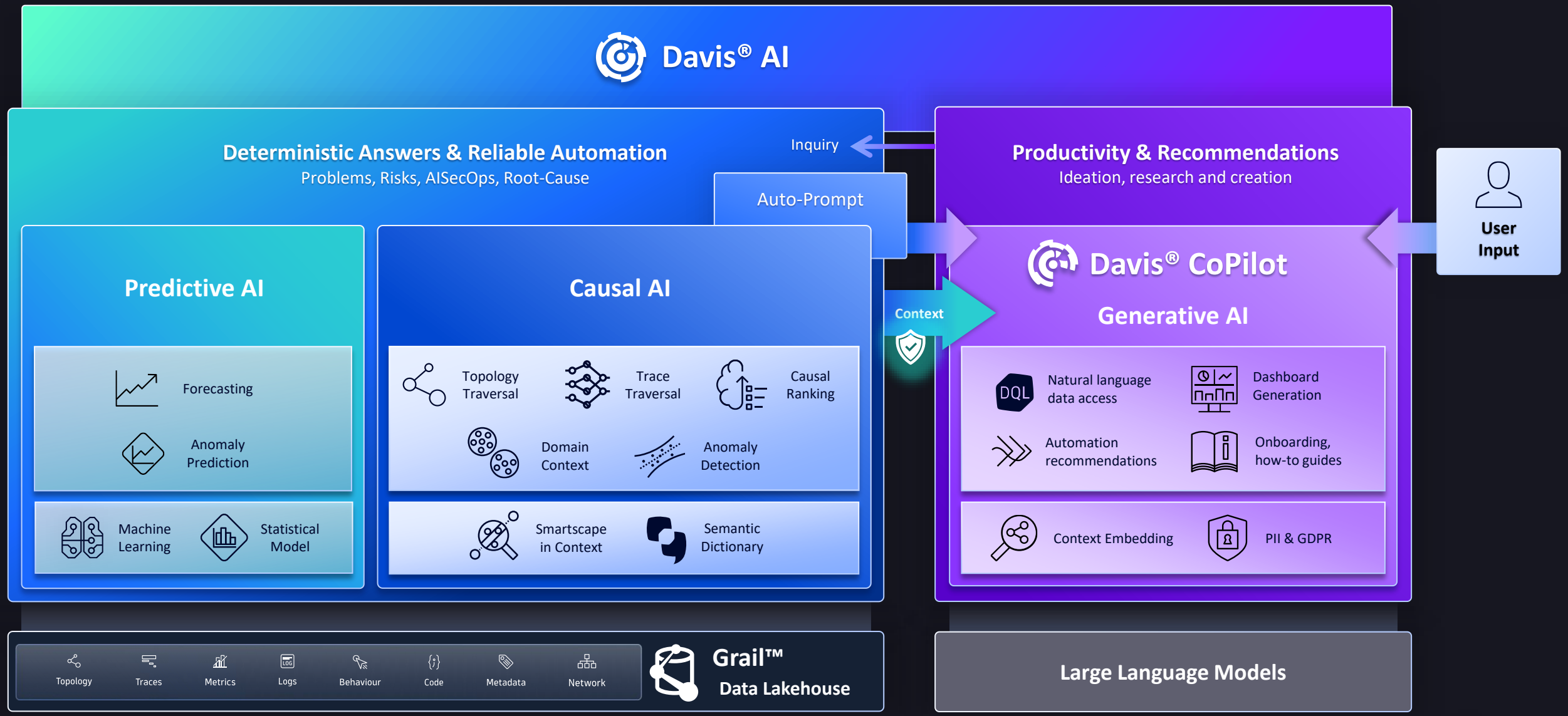
- Manage increasing cloud costs by right scaling
- Support ESG initiatives
- Optimize carbon footprint

- Underutilized hosts
- Green coding initiatives
- Smart orchestration



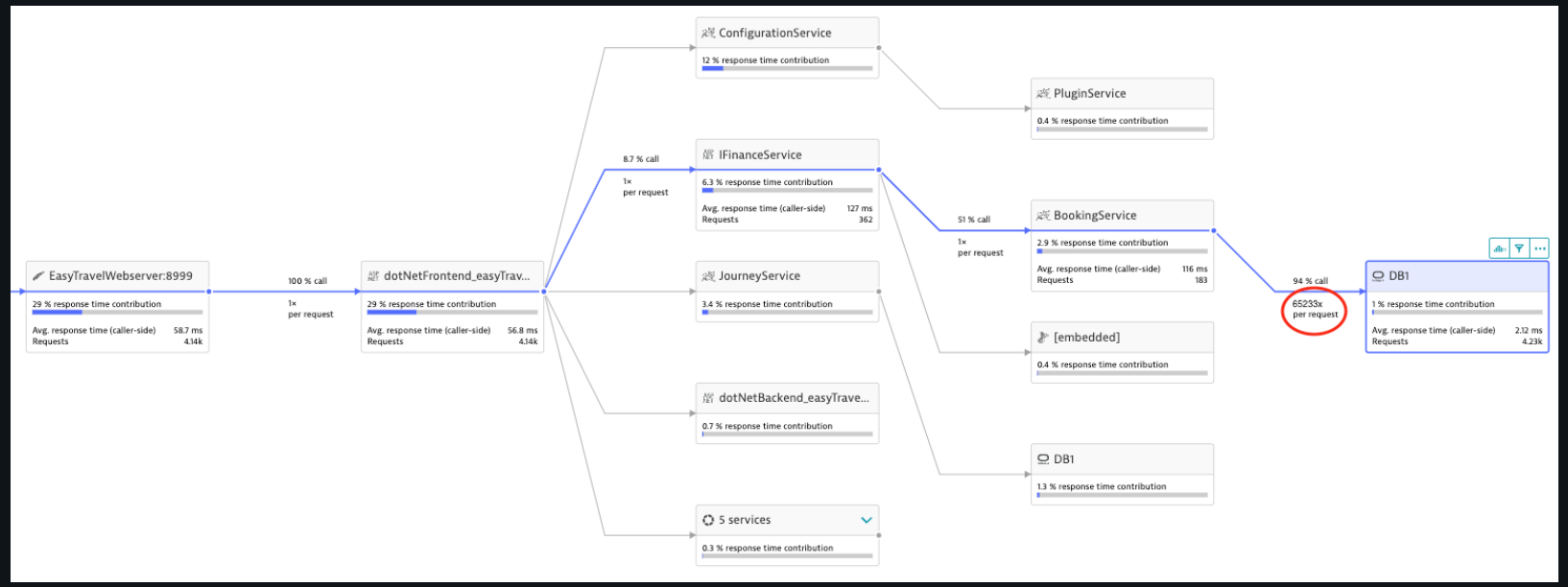

You can’t manage what you can’t measure

# dynatrace Hypermodal AI for Unified Observability and Security



# European Institution: The Magic of Dynatrace

- Before Dynatrace:
  - New Portal developed
  - Simple Search in Portal –> 10+ minutes to get results
  - Months of investigation with external party without results
  - Launch in production not possible
- The Dynatrace Magic:
  - Agents deployed before lunch in 20 minutes (16 servers + proxy)
  - Application traffic gathered during lunch time
  - Problem and root cause identified after lunch
  - One simple search was generating 65K requests to the database
  - Code correction done in matter of days
  - Application ready for production



# THE EUROPEAN COMMISSION

50+ directorates-general and services

## What do they get out of it?

**DIGIT**

- Directorate-General for Digital Services
- Supports 32.000 employees and 2000+ applications
- 5 members of DIGIT manage Dynatrace

**DIGIT**

- Easy onboarding
- Fast to innovate
- Multi-Cloud coverage
- Reducing MTTR
- Improve productivity

**END USERS**

- Full observability
- Single pane of glass
- Independence
- Optimize performance

# Questions?

CONFIDENTIAL