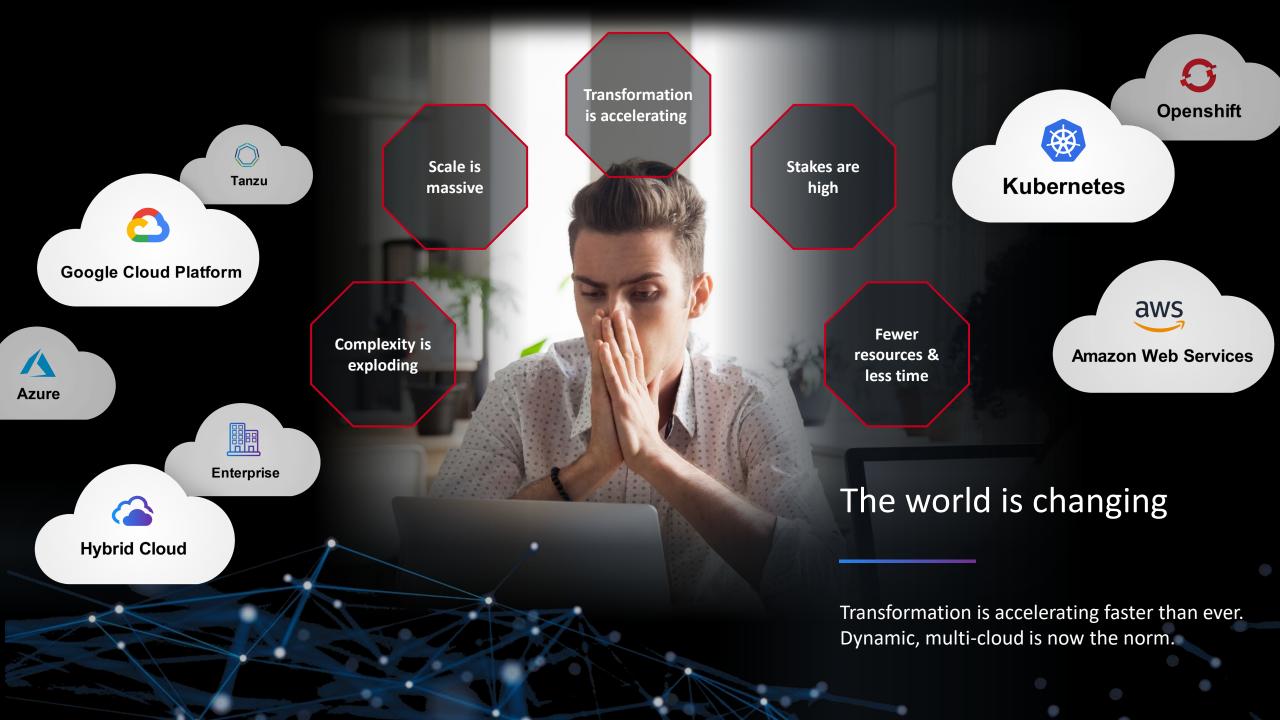
Dynatrace – a Better Taste

Cláudio Porto

Regional Director





Observability and OpenTelemetry

The Observability train

... observability is instrumenting systems and applications to collect metrics and logs. Its building apps with the idea that someone is going to watch them...

What's Observability? A measure of how well we can understand a system from the work it does. You instrument and monitor a strategy to make it more observable.

system as part of a broader

If you are observable, I can understand you. Observability is achieved when data is is made available from within the system that you wish to monitor... After you've made the system observable, and after you've collected the data using a monitoring tool, you must perform analysis ...

Observability is linked to monitoring. It's a technique in which every developer or product manager—really, anyone developing or producing a digital service from the earliest stages—of considering how their new service, function or code will be monitored. How will they expose data and variables to effectively monitor an application, feature, function or service?

Observability requires comprehensive instrumentation of your applications and a monitoring system that can handle the vast, complex and high frequency data from cloud native architectures. Observability not only provides a high-level overview of a system's health; it also provides deep insights into critical failures of your system and context to directly troubleshoot...

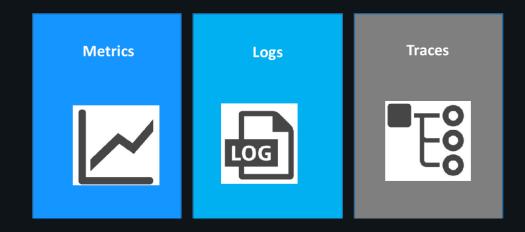
Observability is about Service Level Indicators (SLI), an indicator of health that a service's consumers would care about. Two goals of observability: gradually improve SLIs & rapidly restore SLIs. Two activities to achieve observability: detection-measure SLIs precisely & refinement-reduce search space for plausible explanations

Full-stack observability for modern applications: collect, search and analyze traces across fully distributed architectures. Three pillars of observability in one platform, seamlessly unites metrics, traces & logs.

Observability momentum is growing

Definition

Exposing data and making a system observable through instrumentation or log collection



The wrong recipe for Observability

Recipe for Observability (the wrong way)

- Ingredients
 - o 100,000,000 cups of metrics
 - o 200,000 lbs of logs
 - o 2 teaspoons of tracing



3 pillars, no user experience data, no topology

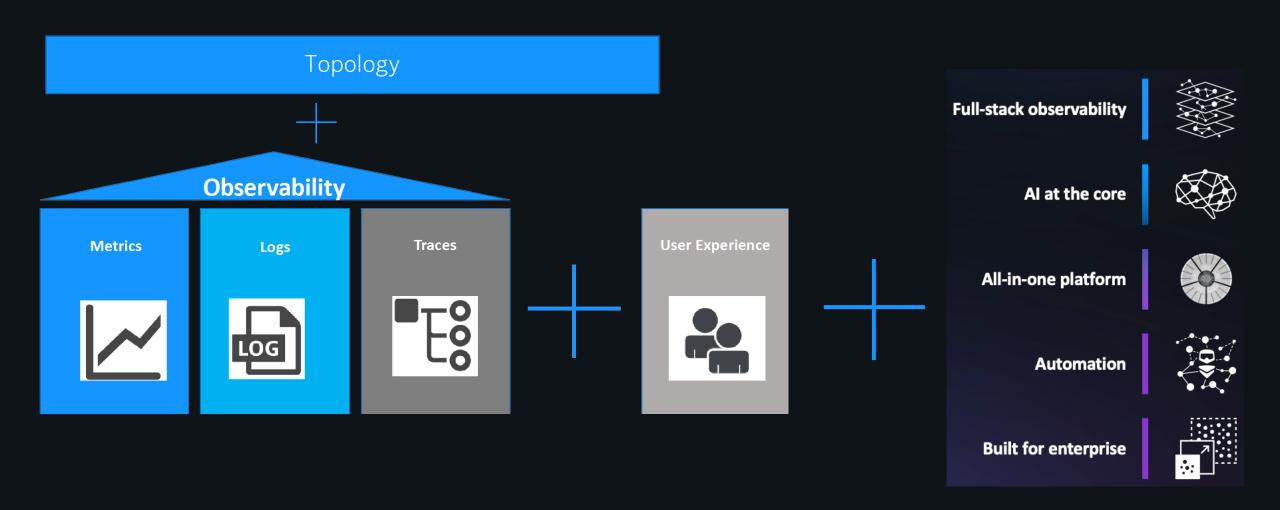
- Stovetop Instructions
 - o Stuff all the metrics and logs into Elastic and Cassandra clusters (may require 100 servers or more)
 - o Slap Grafana on top and make a bunch of charts and dashboards
- Microwave instructions
 - Use New Relic and/or DataDog

more data on glass, no answers

- Results
 - o Many years of engineering time spent getting it working
 - o More \$\$ than expected spent on "open source" and hardware
 - o Root cause analysis still too difficult
 - o The user experience is ignored
 - o War rooms continue



Extending beyond Observability: adding user experience and topology pillars plus more



How it works

The Dynatrace software intelligence platform

Transform fastewith unparalleled observability, automation, and intelligence in one platform.



Al-assistance



Continuous automation



Intelligent observability



Cross team collaboration



User experience and business analytics

Go beyond dashboards and get proactive answers

Automate and regain time

Monitor everything and auto-adapt to changes in real time

Interconnect your teams and ecosystems

See it from the perspective of your users and business

The Dynatrace software intelligence platform



The secret sauce

One platform, five groundbreaking ingredients that sets Dynatrace apart.



1. OneAgent

Continuous, automatic discovery & observability across your full stack



2. PurePath

Distributed tracing and visibility down to code-level.



3. Smartscape

Automatic, real-time topology mapping with context.



4. Davis Al-Assistant

AlOps with explainable answers that drive self-healing & automation.

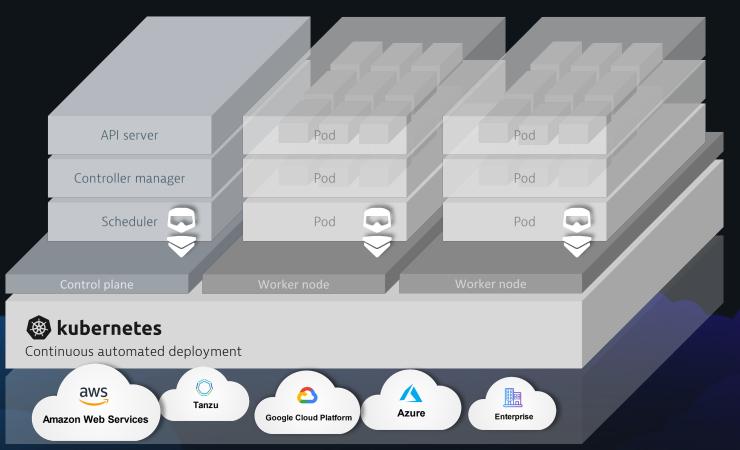


5. Hyperscale

Scalable across hundreds of thousands of hosts, millions of entities, & the largest multiclouds.

1. OneAgent

Industry's fastest mean time to observability with zero configuration. OneAgent continuously auto-adapts to your ever-changing environment. Say goodbye to changing code, container images, scripts or deployments.



Mean Time to Observability Speeds

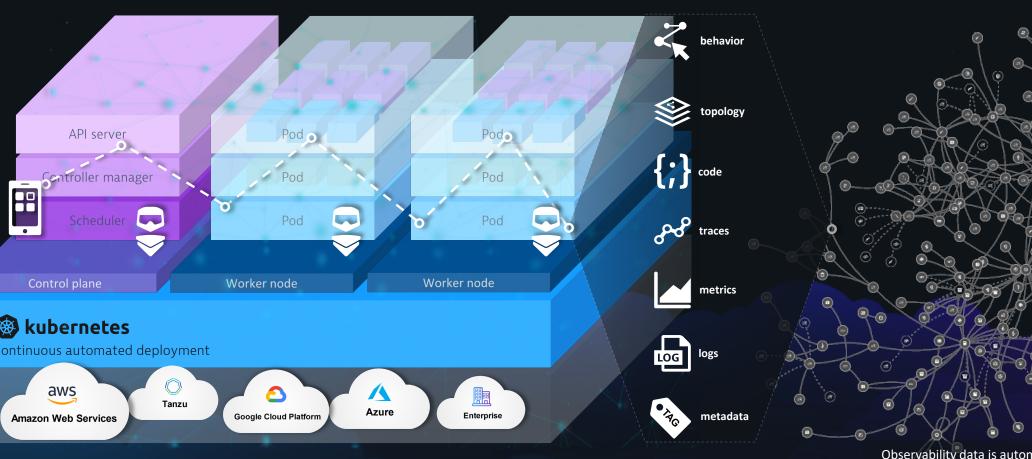
2018 Airline	21 most critical apps. 9,361 processes instrumented.	3 month:
2019 Bank	29,341 processes instrumented. 2,116 servers. 3,178 services.	1.5 weeks
2020 Insurer	454,190 processes instrumented. 18,509 servers. 13,1073	3 hours

2. PurePath

Automatic, end-to-end, deep code-level tracing at scale.

3. SmartScape

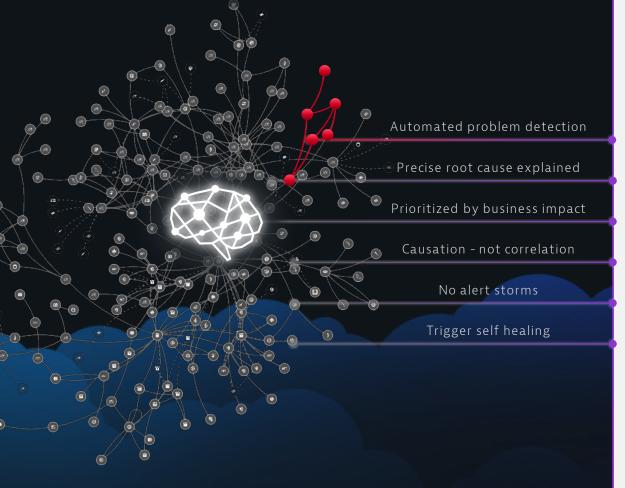
Auto-discovered topology and dependency mapping in real-time.

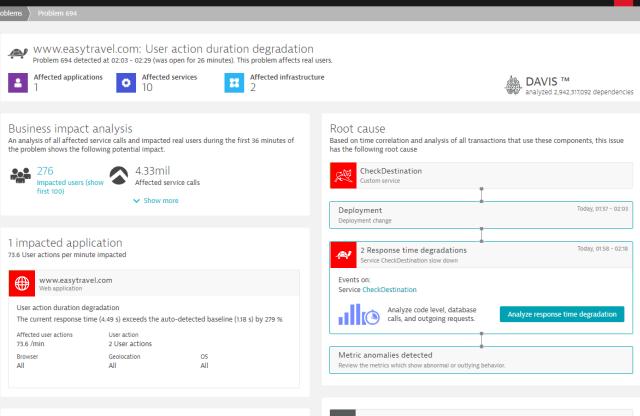


Observability data is automatically mapped into a fully connected, real-time model

4. Davis Al-Assistant for AlOps

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



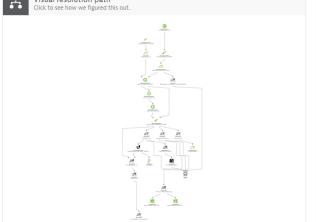


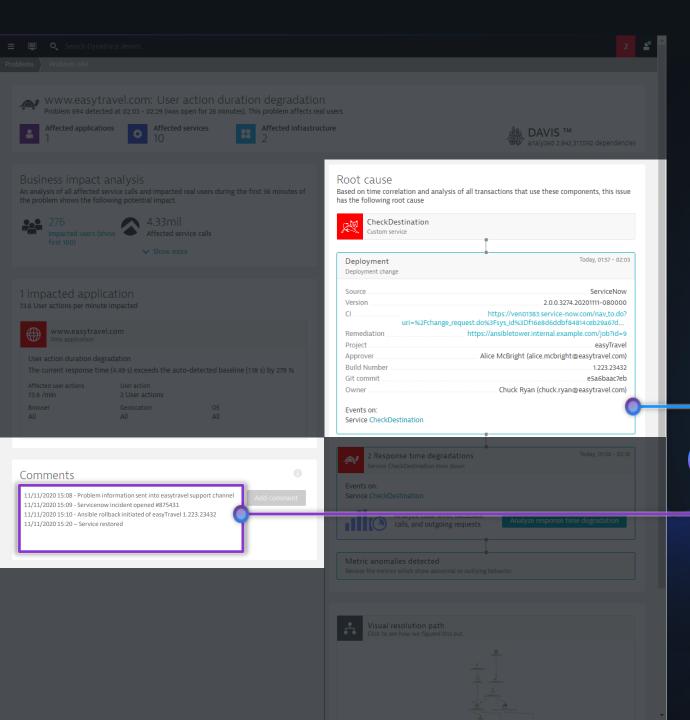
Q Search Dynatrace demo1.

Comments

No comments posted

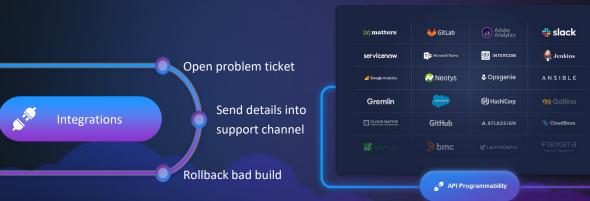






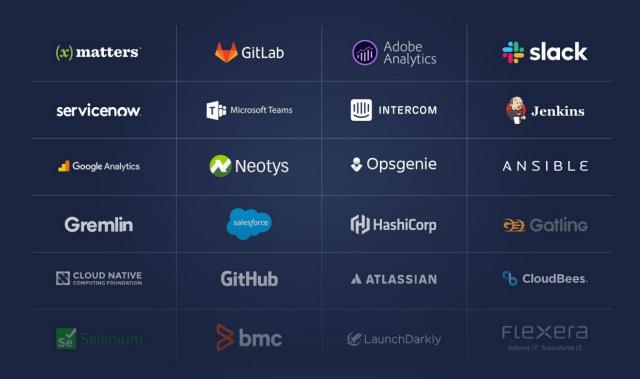
Automate your problem remediation

Dynatrace automatically eliminates the noise and provides precise, reliable root cause which is essential for self-healing, autonomous operations.



Easy, open, and automated integration

Weave Dynatrace's open API into your existing ecosystem to drive automation in everything from development and releases to cloud ops and business processes.





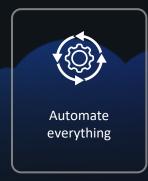
5. Hyperscale

Dynatrace has best-in-class scalability and is used in the most demanding enterprise environments every day, but the hyperscale of our customer adoption and success is what we're most proud of.

Services and support to enable your teams to







Dynatrace has given us back so much time – we're now able to truly focus on innovation and doing cool things."

Jay Cotton, Performance Engineer Lead



I used to open up my email first thing in the morning, now open up Dynatrace... along with 400 others at Dish daily."

Eric Harris, Director of Enterprise Systems



We went from zero to 12,000 hosts in less than two months. Our roll out happened while I was having a BBQ over the weekend! Automation, trust and tools were key to this success."

Reinhard Weber, Senior Product Manager



Digital business

Put your observability into context of your business. Gain real-time visibility into business KPIs, enable more efficient IT and business collaboration, and deliver better digital business outcomes across all your channels.



Drive better business outcomes

Transform faster



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Simply smarter clouds

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