



AI Ops done right

Automating the next generation
of enterprise software

Dynatrace's open AIOps solution enables truly autonomous cloud operations. In contrast to machine learning tools, Davis — Dynatrace's deterministic AI engine — provides precise anomaly root cause and impact analyses. Its reliable answers pave the way to automatic remediation without human intervention.



The Challenge

As organizations rely on dynamic hybrid cloud environments and microservice architectures they face increasing operational challenges threatening flawless services delivery and slowing down innovation.

- Anomalies snowball into alert storms that are hard to make sense of
- Disparate monitoring tools leave operators with gaps and conflicting information
- Problem triage time and MTTR exceed acceptable levels
- Lack of visibility into problem impacts impede correct prioritization of remediation efforts
- Lack of accurate system health information stifles automation

Why Dynatrace for AIOps and automation?

The Dynatrace Software Intelligence Platform is built from the ground up to automate operations, DevOps and the entire digital value chain.



End-to-end coverage for a single integrated view from the user to the network and the mainframe to the cloud(s) including APIs for ingestion of third party metrics.



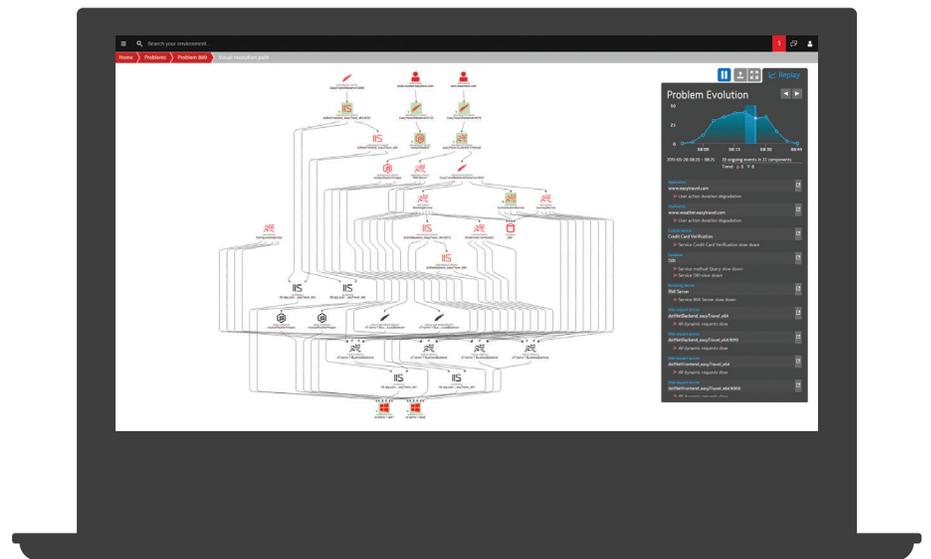
Superior data collection through auto-instrumentation of even the largest environments with zero manual configuration. The Dynatrace OneAgent captures context rich data, including topology, events, logs, metrics and real user behavior.



Causation-based AI engine for precise determination of problem root causes, their origin and their severity based on real user and business impacts. Rather than correlating time-series metrics, Davis performs a solid fault tree analysis based on real time topology and transaction data.



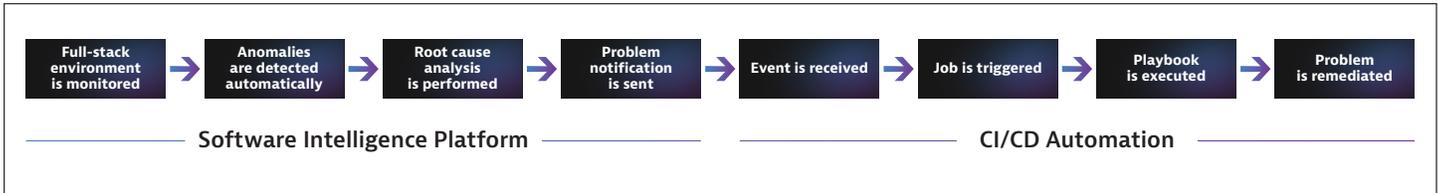
Powerful auto-remediation procedures through integration of Dynatrace software intelligence with CI/CD, workflow and cloud configuration tools.



Davis' deterministic root cause analysis yields precise, explainable results. The problem evolution is visualized in a topology map and can be replayed step-by-step.

Auto-remediation reduces operational cost and avoids human error

The key to truly autonomous cloud operations is reliable system health information as provided by the Dynatrace software intelligence platform. The integration with a variety of CI/CD, ITOM, workflow and cloud configuration technologies enable automated problem resolution and performance optimization.



Conventional AIOps tools lack precision for auto-remediation

Dynatrace Software Intelligence Platform	Conventional AIOps tools
Enables truly autonomous operations	Focuses on alert noise reduction
Uses deterministic AI and fault tree analysis to automatically identify anomaly root cause with unmatched accuracy and reliability	Uses machine learning to correlate problem alerts. Human operators identify the actual root cause
Determines severity of anomaly by measuring real-time impacts on users and business KPIs	Rough estimates of severity based on statistical correlation with historic data
End-to-end coverage of hybrid cloud environments with high-fidelity and context rich monitoring data	Ingestion of data of varying quality from disparate sources
Low cost of ownership through automatic instrumentation and zero manual configuration	High maintenance efforts due to manual configuration and adoption to system changes
Auto-remediation through existing integrations with ITSM, CI/CD and workflow solutions as well as open APIs	Limited options for automation due to a lack of analytic precision

"The AI paves the way for autonomous operations, enabling us to create auto-remediation workflows that remove the need for human intervention."

— Jonathan Hayes
 VP of Global IT Service Excellence at Experian 

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Learn more at [dynatrace.com](https://www.dynatrace.com)

Dynatrace provides software intelligence to simplify enterprise cloud complexity and accelerate digital transformation. With AI and complete automation, our all-in-one platform provides answers, not just data, about the performance of applications, the underlying infrastructure and the experience of all users. That's why many of the world's largest enterprises, including 72 of the Fortune 100, trust Dynatrace to modernize and automate enterprise cloud operations, release better software faster, and deliver unrivalled digital experiences.

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