




Taming your infrastructure with software intelligence



Wherever your agency is in its digital transformation, understanding and managing your infrastructure requires an intelligent, automated platform to monitor performance and progress.

Maintaining control of systems moved to the cloud environment

As agency CIO, Susan is answerable to the department secretary and Congress for the performance of the agency's information infrastructure. Cloud adoption is a key element in the agency's IT modernization strategy, but as workloads are migrated to the cloud Susan loses the ability to actively monitor all the systems her team is using across multiple environments and clouds.

By implementing an AI-powered automated analysis platform, she can ingest data from on-premises infrastructure, container environments, and multiple cloud platforms to complete an end-to-end picture of their hybrid cloud IT environment, enabling Susan to regain control.

Whether your agency has completed a migration to the cloud, operates its own data centers, or is somewhere in between, the complexity of today's IT infrastructures has far exceeded the ability of manual monitoring to ensure effective, timely delivery of services. Managers at every level, from individual application owners to executives responsible for executing the agency's mission, need an intelligence-driven monitoring platform that automatically identifies and solves problems rather than just providing more data.

An AI-powered platform with automated discovery and data analysis can tame the complexity generated by thousands of devices and millions of interactions across multiple dynamic platforms and environments.

The challenge of complexity

Digital transformation and modernization are enabling a level of access to information and services that was impossible a short time ago. This access comes with increased pressure on agencies to ensure the promised speed and agility of digital transformation are realized. Manual solutions that work with single-purpose, locally hosted systems are not adequate for this challenge.

The cloud offers the promise of off-loading many IT tasks to a service provider, allowing your agency to focus on its core mission. But the cloud does not remove your responsibility for ensuring performance. The ongoing migration to the cloud places many agencies in a hybrid IT environment that presents multiple challenges. Here are some common examples:

- **Agency infrastructure**

Operating and maintaining your own data centers and underlying infrastructure gives you visibility into all systems, but visibility across a distributed, disparate environment does not ensure you can efficiently understand and use the data gathered.

- **The cloud**

You are hiring someone else to host the infrastructure and updates. Although you do not have access to the infrastructure, you remain responsible for the outcome.

- **Containerized environments**

Containerization can enable rapid development and deployment of resources, but the level of complexity in this constantly changing environment can swamp traditional monitoring and management tools.

You need a solution that performs automatic discovery and provides intelligent insights that address all these challenges in a single platform, leaving your team free to focus on mission outcomes.

Software intelligence

The Dynatrace Software Intelligence Platform leverages AI and automation, ingesting data from multiple sources to scale to the largest, most complex environments. Once deployed, Dynatrace OneAgent automatically provides telemetry straight from the host device, discovering and mapping all applications, microservices, and infrastructure. It also maps any dependency in hybrid, multicloud environments, without configuration or scripting, and without having to know which apps or cloud platforms are running.

The Dynatrace platform also uses the management interfaces of routers, switches and other devices that do not host OneAgent. The result goes beyond the

traditional metrics, logs, and traces to include user experience data and the context of full-stack, end-to-end, code-level observability.

The platform also acquires metrics provided by cloud service providers. It understands the containerized environment and identifies the interactions and dependencies of each element. Using its AI engine, Davis, Dynatrace analyzes data to provide real-time insights not just into what is happening, but why it is happening, and what the impact is. Agencies can see problems and solve them rather than having to search for them, resulting in a better use of valuable human resources.

A path to success

Dynatrace Smartscape self-discovers what's new in a hybrid, multicloud environment and continuously builds, updates, and maintains a complete entity map of how everything works in real-time. It captures the billions of constantly changing interdependencies between components, both vertically up and down the stack and horizontally between services, processes, and hosts.

Users can immediately see problems that were not visible before and identify their root causes. And after all problems have been addressed, agencies can use the platform to continually validate performance. Dynatrace can present relationships and information through a variety of lenses, giving users at every level of the agency the information they need.

To take advantage of the Dynatrace Software Intelligence Platform, powered by AI:



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About **Dynatrace**

Dynatrace provides software intelligence to simplify cloud complexity and accelerate digital transformation. With automatic and intelligent observability at scale, our all-in-one platform delivers precise answers about the performance and security of applications, the underlying infrastructure, and the experience of all users to enable organizations to innovate faster, collaborate more efficiently, and deliver more value with dramatically less effort. That's why many of the world's largest enterprises trust Dynatrace® to modernize and automate cloud operations, release better software faster, and deliver unrivalled digital experiences.

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