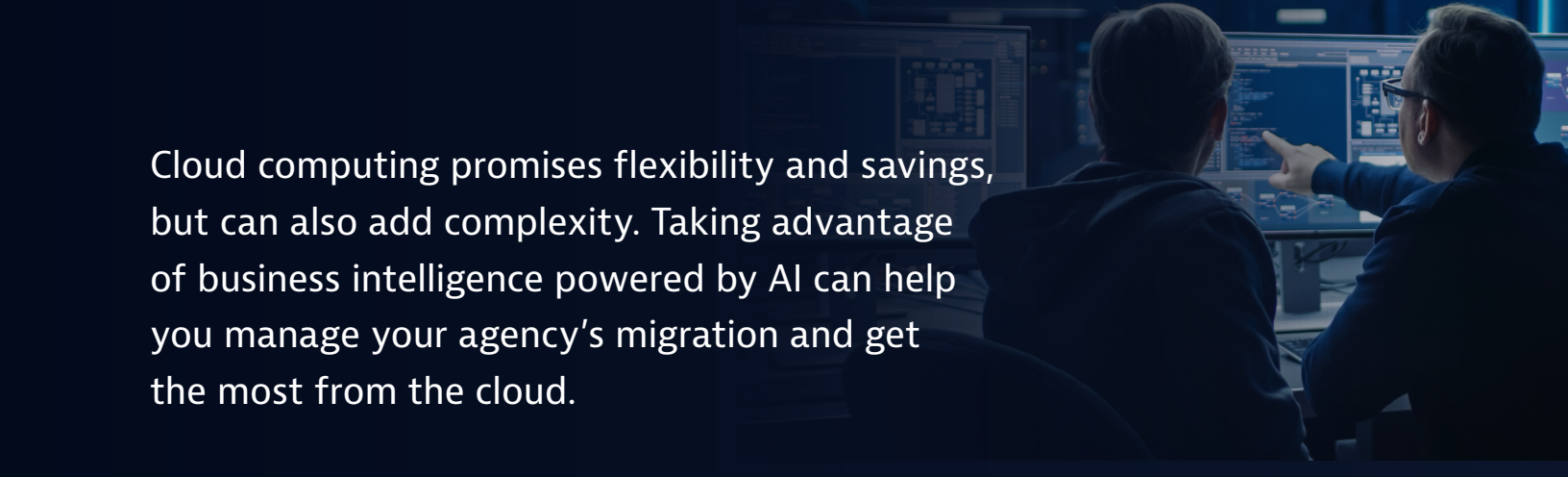




Managing your cloud migration with software intelligence



Cloud computing promises flexibility and savings, but can also add complexity. Taking advantage of business intelligence powered by AI can help you manage your agency's migration and get the most from the cloud.

Pinpointing cloud migration pitfalls before they happen

Joe has moved a legacy application to the cloud for his agency to take advantage of the economies and flexibility promised by the cloud provider. However, Joe and his team did not analyze the activities of the legacy app before migration. Several months later, the expected savings have not materialized, and performance has suffered. An analysis shows unexpected volumes of traffic generated by the application have increased networking costs and latency.

Analyzing the activities of a legacy app with Dynatrace before migration would reveal the traffic patterns generated between the app and other elements, allowing them to have been anticipated and, if necessary, for the app to be replaced or rewritten to avoid this activity.

Cloud computing is an imperative technology for federal agencies. The Cloud Smart initiative mandates that agencies move workloads to the cloud when practical. Additionally, the pressures to deliver services under tighter budgets and with a limited workforce are driving agencies to take advantage of the flexibility and cost savings that cloud computing promises.

But migration can be a challenging process, and the cloud can introduce unexpected observability issues and complexity into your information infrastructure. While administrators gain flexibility in the cloud, they lose visibility into virtual assets, yet remain responsible for performance.

The Dynatrace Software Intelligence Platform helps you move to and manage your cloud experience, so your agency realizes full cloud benefits over the long term without sacrificing visibility or control over performance.

Getting started

Where do you start? What gets moved to the cloud? Which applications do you eliminate, and which do you replace?

Making these decisions requires an understanding of your IT resources. Not only knowing what you have — which can be challenging — but understanding the relationships between components, their interdependencies and how they interact with the end-user. This requires more than just data. It requires automatic discovery and advanced data analysis to provide the necessary context for making sense of complexity and supporting better decisions.

You can't make the right decisions based on a snapshot. Sound decisions take observations made over a period of time — weeks or months — to fully understand performance profiles. Dynatrace can provide this insight prior to your migration, so you know exactly what you're working with before moving ahead.

It's always best to optimize applications before migrating them. To avoid unexpected complications and expenses, Dynatrace's automated analysis can help you understand if a legacy application should be moved as-is, if it should be upgraded, consolidated with other applications, or replaced before moving. No one wants surprises during their cloud migration. Advanced data analysis can help identify issues before you start so you can avoid unexpected events during the transition.

In the cloud

Your responsibilities don't end after you've moved a workload into the cloud. The time and expense you save having a service provider manage the infrastructure should not be offset by losing visibility and control over system performance. Automated analysis powered by AI can help you maintain control over the systems and workloads you are responsible for, even when direct control over the physical layer in the cloud is reduced.

Understanding the data from multiple, disparate sources is a challenge. Correlation does not equal causation. Working from data points requires manpower to sort out cause and effect. Automated analysis does this for you by identifying the problems and analyzing them in context so you immediately know what to do to resolve them.

With Dynatrace's data analysis powered by artificial intelligence, you get complete situational awareness from the cloud to the end-user experience. When problems occur, Dynatrace automatically identifies

them so you can resolve them at the appropriate level, eliminating any potential blame-passing among the agency, cloud provider, and user.

Force multiplier

The Dynatrace Software Intelligence Platform takes data from any source and turns it into actionable information, so your team can spend their time making decisions rather than asking questions. Dynatrace provides software intelligence to simplify cloud complexity and accelerate digital transformation, delivering precise answers about the performance and security of applications, microservices, the underlying infrastructure, and the experience of all users.

Dynatrace OneAgent automatically discovers and maps all applications, microservices, infrastructure as well as any dependency in dynamic hybrid, multicloud environments, without configuration or scripting, and without having to know which apps or cloud platforms are running. Once migration is complete, there may be a need to optimize operations to achieve expected benefits. With Dynatrace, all relevant metrics, from real user behavior to application performance, are tracked and visualized in real-time down to each individual transaction. Dynatrace automatically links application services discovered before migration with the new equivalent cloud services for SLA tracking continuity. AI ensures fast, proactive problem detection and resolution, eliminating war rooms and reducing cost and resource overhead.

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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