dynatrace | Microsoft

Mastering your cloud modernization

5 proven steps to success with Dynatrace

The reasons for cloud migration are obvious, as organizations need additional size, agility, dependability, and resiliency. However, to realize the cloud's full potential, teams need to understand what's happening in the environment and the best course of action when issues arise.

With the complexity and scale of modern cloud environments coupled with unprecedented levels of customer demands, properly managing all relevant business, development, and IT operations can quickly become a daunting task. As a result of this complexity, upgrading from monitoring to end-to-end observability is a requirement for successful cloud migration. Enter Dynatrace, which provides this functionality across its unified platform, ensuring comprehensive visibility and security.

With Dynatrace in the cloud, organizations unlock unparalleled scalability, agility, and performance. Get ready to unveil a new era of efficiency, reliability, and innovation as we unveil the roadmap for successful cloud migration with Dynatrace and Microsoft Azure as your trusted partner.

Why Dynatrace for cloud modernization

Observability is more than metrics and indicators; it's about providing the full-stack visibility necessary to connect the dots using causation-based AI and code-level analysis. This ensures that nothing hinders the performance and success of a cloud project.

The Dynatrace AI-powered observability platform does just that, providing insight into hybrid and multicloud environments by tracking the behavior of every hardware, software, and cloud infrastructure component, container, open source tool, and microservice. This causal AI is paired with both predictive and generative AI, allowing for proactive insights and natural language queries that help maintain performance and user experience in the most efficient and intuitive manner possible.

Always-on auto-discovery

The Dynatrace platform provides always-on auto-discovery that continually identifies and maps components, cloud services, and the constantly shifting connections between potentially billions of interdependencies.

Complete visibility

Dynatrace offers complete visibility across web, mobile, and IoT environments to provide a holistic understanding of the end-user experience across all channels.

Integrated AI

Integrated AI intelligently groups related anomalies into a single problem for automated root-cause analysis and remediation to streamline problem identification and resolution.

AI observability

Advanced AI observability provides much needed insight into proprietary LLMs and other AI engines to ensure optimal performance, accuracy, and reliability—an increasingly crucial capability given the rising utilization and necessity of AI engines across industries.

Azure-native integration

Dynatrace supports a plethora of technologies for flexibility and scalability to ensure complete visibility across the entire cloud estate. Dynatrace, an Azure native service, provides an even deeper integration to accelerate your journey. Organizations benefit from faster ROI with native integrations and acceleration of business-critical initiatives, such as increased AI adoption.

The decision to migrate to the cloud and upgrade to an observability tool should be made concurrently. **Here are five steps to successfully migrate to the cloud with improved observability.**

STEP ONE

Create a well-architected cloud built on five pillars.

To satisfy a company's present and future needs, the first step in a successful cloud migration is to build a well-architected cloud supported by five pillars.

- **Cost optimization.** Align business goals with the cloud to deliver outcomes, increased value, and lower total cost of ownership (TCO).
- **Operational excellence.** Ensure efficient and effective cloud operations management with automated optimization for continuous improvement.
- **Performance efficiency.** Continue meeting performance requirements even as demand and technologies evolve.
- **Reliability.** Ensure proper functionality throughout the full lifecycle.
- **Security.** Adopt an improved security posture that protects infrastructure and data.

STEP TWO

Accelerate innovation, scalability, and cost optimization.

The cloud introduces agility that on-premises infrastructure cannot offer thanks to its flexibility of design. Employing the hyperscaler that best aligns with an organization's needs is also critical for the utmost flexibility. Microsoft Azure natively supports Dynatrace, which expedites operations and allows for seamless integration.

- **Scalability.** Achieve instant right-sizing and auto-scaling to efficiently optimize resources in response to changing capacity demands.
- **Automation.** Automate tests on demand regarding design changes as the system evolves.
- **FinOps insights.** Get answers and recommendations to ensure cloud utilization that doesn't break the bank.
- **Real-time insights.** Use enhanced observability to evaluate tests and changes with real-time insights.

STEP THREE

Break free from traditional monitoring.

Traditional monitoring and logging solutions struggle when it comes to multicloud environments due to their reliance on labor-intensive manual efforts and metric interpretation. The Dynatrace AI-powered observability platform overcomes these limitations with the following:

- **Comprehensive visibility.** Observability uses automation and intelligence to provide full visibility into the most complex enterprise environments.
- **Auto-discovery.** Dynatrace automates the discovery of dynamic containers and tracks their full lifecycle.
- **Causal AI.** Always-on causation-based AI analysis processes billions of dependencies with context. Paired with predictive and generative AI, the value of causal AI multiplies exponentially.
- **Unified platform.** A single observability platform eliminates tool sprawl and provides a holistic view.

STEP FOUR

Move beyond system metrics to focus on tangible business outcomes.

Technology supports the business, but conventional monitoring limits organizations to metrics that are hard to understand in the context of business operations. Observability is about linking traditional technology performance data to business outcomes.

- **Actionable.** Dynatrace Davis® AI goes beyond mere metrics to deliver actionable insights into the full IT stack to power automated responses.
- **Business impact.** Deliver insights into a technology's impact on key business performance indicators and critical SLAs.
- **Business insights.** Dynatrace extends visibility beyond traditional technology metrics to business impact. As a result, teams can get greater insights into the health of the business by understanding business KPIs such as user experience or cost and carbon emissions. This further extends the value of observability by allowing new stakeholders to understand the state of the digital environment at any point in time.

STEP FIVE

Achieve full observability and cloud modernization with unmatched features.

With Dynatrace fully onboarded and implemented, organizations realize comprehensive visibility and foster a more holistic understanding of their digital environment. Take advantage of unparalleled intelligent capabilities, including but not limited to the following:

- **Out-of-the box observability.** Get complete, automated, and intelligent AI-powered observability out of the box across an entire infrastructure, including container-based and hybrid cloud environments.
- **AI observability.** Gain a comprehensive understanding of the health, performance and reliability of AI engines to ensure optimal UX, security, and business value.
- **Advanced automation.** Enjoy unmatched automation and intelligence for Azure environments. Leveraging our core technology features natively built into the platform allows for advanced auto-remediation use cases.
- **One-click scalability.** Deploy through the, Azure marketplace to seamlessly scale workloads with Dynatrace at the click of a button. Native integrations also reduce manual overhead and transform complexity into an asset.
- **AI-powered.** Dynatrace leverages causal, predictive, and generative AI to provide the most complete, informed, and understandable insights into an environment. These three separate forms of AI enhance one another, amalgamating into a powerful asset greater than the sum of its parts.

Faster innovation and intelligent observability

The journey to the cloud can help push innovation efforts into overdrive. Dynatrace can get organizations there faster. It starts with an assessment, helping to plan better by automatically creating a dependency map of an entire stack — hosts, processes, services, and technologies — in minutes.

Dynatrace then helps organizations analyze the findings to establish the architecture they'll put in place and the migration process. On migration, organizations gain instant comprehensive visibility into a hybrid cloud while simultaneously running two versions of the infrastructure to minimize risks.

Additionally, organizations will gain access to three separate forms of AI — predictive, causal, and generative — a combination that provides the most holistic and understandable answers possible, including forecasting insights that enable preventive operations.

Finally, supporting a wide array of technologies with native integrations, Dynatrace ensures the architectural integrity of the migration, moving to autonomous cloud operations. What's more, Dynatrace automatically links pre- and post-migration application services, simplifying and optimizing operations.

Ready to jump-start your cloud modernization journey?
Experience the intelligent power of Dynatrace and take your cloud modernization journey to the next level.

Learn more

About Dynatrace
Dynatrace is advancing observability for today's digital businesses, helping to transform the complexity of modern digital ecosystems into powerful business assets. By leveraging AI-powered insights, Dynatrace enables organizations to analyze, automate, and innovate faster to drive their business forward. Learn more at www.dynatrace.com.

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