

Cloud Application Management Challenges

As enterprises migrate to the cloud in search of agility, speed, and flexibility, they begin to see the true tenet of cloud: The application is king. The final output of migrating to the cloud is the application, as that's all the end-user sees. Delivering an exceptional user experience positively impacts conversion rates and business execution. When managing cloud-resident systems and applications, IT won't have access or visibility into much of the underlying infrastructure and systems that support the application, nor should they care. So how do modern application support teams identify and resolve the issues degrading the user experience?

When asked what capabilities are most important in a systems management solution, ESG research respondents most often cited application performance monitoring (APM).1

Most Important Capabilities of Systems Management Solutions



Application performance monitoring







Managing Hybrid Cloud Infrastructure

To preserve and improve the user experience when migrating and managing applications in the cloud, Site Reliability Engineers need to identify and monitor the application's key performance indicators (KPIs), from the end-user interface on back to the infrastructure. AppDynamics provides an intelligent, easy-to-use application performance management solution for AWS-based cloud applications. With AppDynamics' unified platform, organizations can see the connections between each application component, automatically establish baseline application performance, and identify deviations. Code-level diagnostics enable fast root-cause analysis, and dashboards help organizations understand the impact of performance on customers and business. AppDynamics:



Monitors containerized workloads on AWS, ECS, EKS, and Fargate.



Accelerates migrating applications to AWS, generating application topology maps, discovering important user interactions, and tracking resource utilization.



Facilitates identifying KPIs, establishing baseline performance metrics, and recognizing performance issues.



Simplifies root cause analysis of performance issues with transaction snapshots of code, database calls, and infrastructure metrics, correlating application behavior and performance.



Instantly scales, enabling you to automatically adjust application capacity when needed, avoiding over- and under-provisioning, reducing costs, and providing uninterrupted performance by right-sizing resource utilization.



Stimulates improvements in applications, providing clear, understandable correlations between user experience and business outcomes that can be shared with software engineers or executives.

AppDynamics was designed to be a simple yet powerful solution to monitor your apps and ensure flawless customer experiences with application mapping, dynamic baselining, and code-level diagnostics. Using machine learning, AppDynamics understands what normal performance is and can integrate with ServiceNow, PagerDuty, Jira, and other services to alert you the moment performance deteriorates.



Why AWS Marketplace?



Choose from 4,200+ solutions



One-click deployment



Pay only for what you use

With AWS Marketplace, organizations can find, purchase, and run third-party software and services quickly and easily to meet business needs. Solutions are delivered as Amazon Machine Images (AMIs) or SaaS subscriptions. AWS Marketplace integrates with current AWS accounts for fast deployment and simple, flexible, consolidated billing. Other benefits include:

- Preconfigured, ready-to-run software.
- Searchable catalog.
- Detailed usage tracking.
- "Try before you buy" flexibility.
- Simpler procurement, no provisioning required.
- Operational control with tailored service catalog.

ESG First Look

- AWS Marketplace brings Amazon's "1-Click" shopping experience to enterprise-class IT. Site
 reliability engineers, IT administrators and developers can immediately begin instrumenting
 applications, dynamically establishing baseline performance and KPIs.
- AppDynamics makes troubleshooting easy by collecting metrics on the workflow from the user interface to the infrastructure, automatically identifying business-level application workflow and transactions.
- ESG observed how AppDynamics' multiple views of metrics—histograms, timelines, geographic maps, waterfall workflows, and more—make it simple and quick to dynamically identify and focus on performance issues.
- Engineers can automatically identify deviations from normal and diagnose by drilling down
 from aggregate data to a single transaction, inspecting individual calls and lines of code.
 Using historical data enabled us to identify and compare all simultaneous transactions for
 side effects and interference.
- AppDynamics' rich and customizable set of dashboards enabled us to bubble-up key
 metrics and summaries, integrate other business metrics, and communicate status and
 performance back to the business.

Why AppDynamics?



See exactly how every component is connected



Dynamically baseline performance



Visualize real-time business and application performance



Derisk application migration to the cloud

The Bigger Truth

When asked what they had learned about system management due to the use of public cloud infrastructure, 32% of IT decision makers indicated they've shifted management focus toward application performance, and 30% found a need for better application and end-user experience monitoring for their workloads.² AppDynamics' application performance management system identifies workflows from user interface to the infrastructure, develops baseline performance, and surfaces performance deviations.

AWS Marketplace gets you to the cloud quickly and cost-efficiently with preconfigured solutions that expand your capabilities without adding effort or risk. ESG recommends evaluating AppDynamics to instrument your applications so you can identify and resolve performance issues and prevent problems before they impact users. AppDynamics dashboards keep the entire business continuously informed on the status and performance of critical applications, enabling organizations to reduce the risk of migrating to the cloud.

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