Critical Application and Business KPIs for Successful Cloud Migration

An IDC InfoBrief, Sponsored by AppDynamics | November 2017
About This InfoBrief

The following graphical report is based on an IDC study of 600 decision makers across the US, UK, France, Germany, Australia and New Zealand. Study respondents were either planning or actively migrating existing applications to the cloud. The goal of the study was to identify the key tools, processes, and metrics needed to ensure success of migrating existing applications to the cloud.
Leading Benefits of Cloud Migration

Enterprises say they can achieve most of their goals when they migrate existing applications to cloud.

**Top 3 Business Benefits**
- **60%** IT development and cost savings
- **53%** Security compliance and improvement
- **50%** Improved employee productivity

**Top 3 Technical Benefits**
- **55%** Reduced IT and infrastructure costs
- **50%** Improved app performance and end-user response time
- **48%** Speed of app deployment, updates, and patching
Getting to Cloud

There are 3 key steps to the successful adoption of cloud services

1. Evaluation and planning
This initial phase considers the application’s business impact and architectural readiness to take advantage of cloud. Organizations must study application dependencies, business risk considerations, and performance requirements.

2. Pilots and initial migrations
This phase focuses on validating planning assumptions and identifying any unexpected performance, business, or end-user impacts. This phase also focuses on controlled or pilot migrations that can be tested and evaluated.

3. Ongoing management
Once applications are migrated, enterprises need to continue to monitor and optimize end-user experience, cloud utilization, and costs and continue to keep an eye on business and technical KPIs, a process that continues as usage scales and new application functionality is introduced.
Step 1: Planning

Top 3 Critical KPIs for Planning the Migration of Existing Applications to the Cloud

Q. When evaluating/planning for migrating existing applications to cloud infrastructure, what type of information is/will be most valuable?

- **58%** Privacy and security compliance status
- **57%** Business impact (e.g., revenue, customer experience, employee productivity)
- **52%** Accurate infrastructure capacity/performance/utilization information
Step 2: Pilots and Initial Migration

Top 3 Critical KPIs for Piloting and Initial Migration of Existing Applications to the Cloud

Q. During an application migration pilot project, or just after the initial migration of existing applications to cloud infrastructure, what type of information is/will be most valuable?

- **54%**
  Ability to quickly compare pre- and post-move business KPIs (e.g., revenue, customer engagement)

- **53%**
  Ability to quickly compare pre- and post-move technical KPIs (e.g., CPU, memory, transaction response times)

- **53%**
  Cloud utilization and cost information in real time based on app usage
Step 3: Ongoing Management

Top 3 Critical KPIs for Ongoing Management of Existing Applications in the Cloud

Q. When considering the day-to-day management and optimization of existing applications that have already been migrated to cloud infrastructure, what type of information is/will be most important?

53%  Cloud utilization information in real time based on app usage

51%  Analysis of near-real-time technical KPIs (e.g., CPU, memory, transaction response times)

50%  Real-time monitoring and testing of user interactions/experience
The Crucial Role of Application Performance Management & Analytics

Top 3 Most Important Analytics & Visualizations to Manage Existing Apps in the Cloud

54%
Business process/revenue performance metrics, visualization, and queries

54%
Customizable persona-based dashboards for IT and business professionals

49%
Graphical meters for the health of the application from a technical perspective
Conclusion and Recommendations

• Application monitoring, analytics and reporting solutions are key to cloud migration success.

• APM solutions that capture real-time end-to-end data about end users, transactions, code and infrastructure provide critical insights to support applications once they are in the cloud.

• Before organizations begin the journey to transition existing applications to the cloud, it is critical to take stock of these APM and analytics solutions.

• Organizations should have access to state-of-the-art tools and best practices at each step in the journey.

For the full research report, please visit: https://www.appdynamics.com/lp/idc-report-critical-application-and-business-kpis-for-cloud-migration