MApps2Cloud

Cloud Migration – look before you leap

Whether an organization endeavors to move one workload or an entire portfolio of applications to the cloud, transformation from legacy infrastructure to cloud-based workloads requires a systematic and strategic approach with acute focus, clearly defined goals, realistic expectations and thorough organizational support.

While evaluation of each workload's technical compatibility with the cloud is a necessary first step, other factors must be considered to ensure a successful technical migration enhances, rather than detracts from, an organization's ability to execute its mission. Simply reproducing on-premises data centers in the cloud and forklifting applications is not likely to yield a return on the migration investment. Contrarily, pursuing a lift-and-shift strategy for all workloads often increases hosting costs while simultaneously constraining the ability to leverage key cloud characteristics, like on-demand elasticity.

To address this challenge, Northrop Grumman is updating its groundbreaking MApps2Cloud 1.0 tool suite to deliver a comprehensive set of integrated software tools that help customers plan, manage, and securely migrate their application portfolios to the cloud.

MApps2Cloud – multi-dimensional analysis

MApps2Cloud 2.0 provides a multi-faceted web-based toolkit for performing a 360° assessment of application portfolios to provide migration recommendations and insight at both the application and portfolio level.
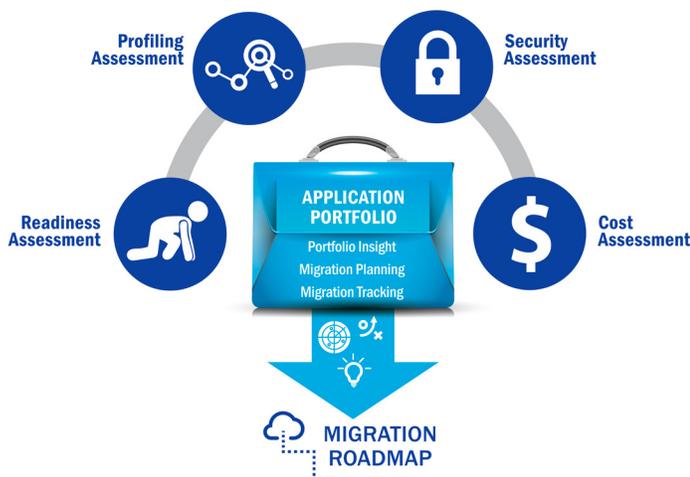
Application assessment tools include those that address workload migration readiness, profiling, security, and cost. The Readiness Assessment tool analyzes application attributes and utilizes an expert system to determine business and technical suitability for cloud migration. The Profiling Assessment tool evaluates application design, architecture, core functionalities, database, software implementation and dependencies to assist with the selection of a migration model. The Security Assessment tool determines relevant security controls and overlays them based on data sensitivity, risk tolerance and security categorization. The Cost Analysis tool provides cost insight for application migration priority, ROI by migration model, and endpoint selection.

Portfolio-level tools enable migration insight, planning and tracking. The Portfolio Insight tool provides recommendations for migration priorities based on application-level assessments and application dependencies. The Planning tool leverages portfolio insight to define a migration roadmap that reflects priorities and addresses dependencies. The Tracking tool ensures complete transparency for each step of the cloud migration progress for all applications within the portfolio.

Organizations that leverage the breadth of application- and portfolio-level tools provided in the MApps2Cloud 2.0 suite will ensure they follow guidelines and practices most likely to facilitate a smooth, cost-effective, and reliable transformation to the cloud.

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Profiling Assessment

Security Assessment

Readiness Assessment

APPLICATION PORTFOLIO
Portfolio Insight
Migration Planning
Migration Tracking

Cost Assessment

MIGRATION ROADMAP

THE VALUE OF PERFORMANCE.

NORTHROP GRUMMAN