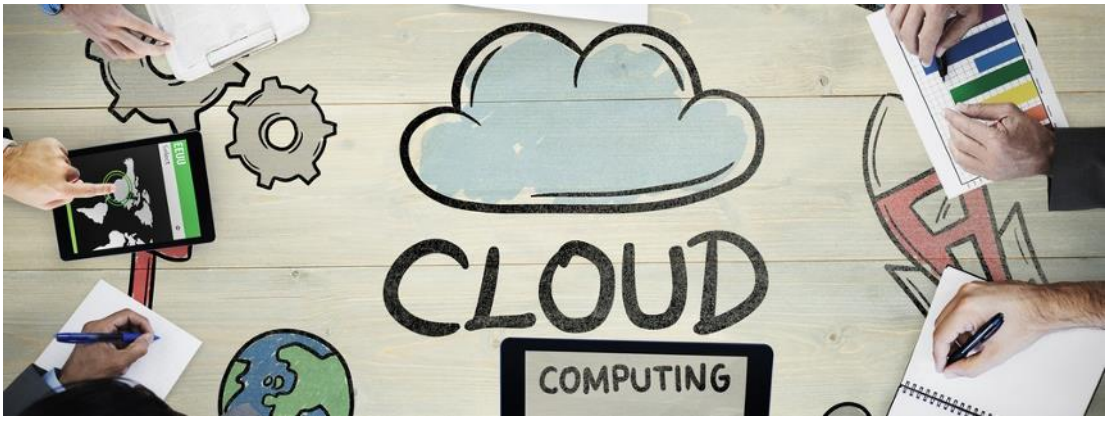
SOLUTION BRIEF

Cloud Migration



The Challenge

Organizations are accelerating cloud adoption and tasking IT with rapidly moving workloads from data centers, virtual or cloud environments. At the same time, IT must maintain uptime requirements for each application across the enterprise.

Automated tools are designed to move workloads at scale, but fall short when it comes to applications that are highly complex or that connect to legacy systems. These tools lack awareness of application interdependencies, leaving IT in the dark and at risk for causing service outages.

The Solution

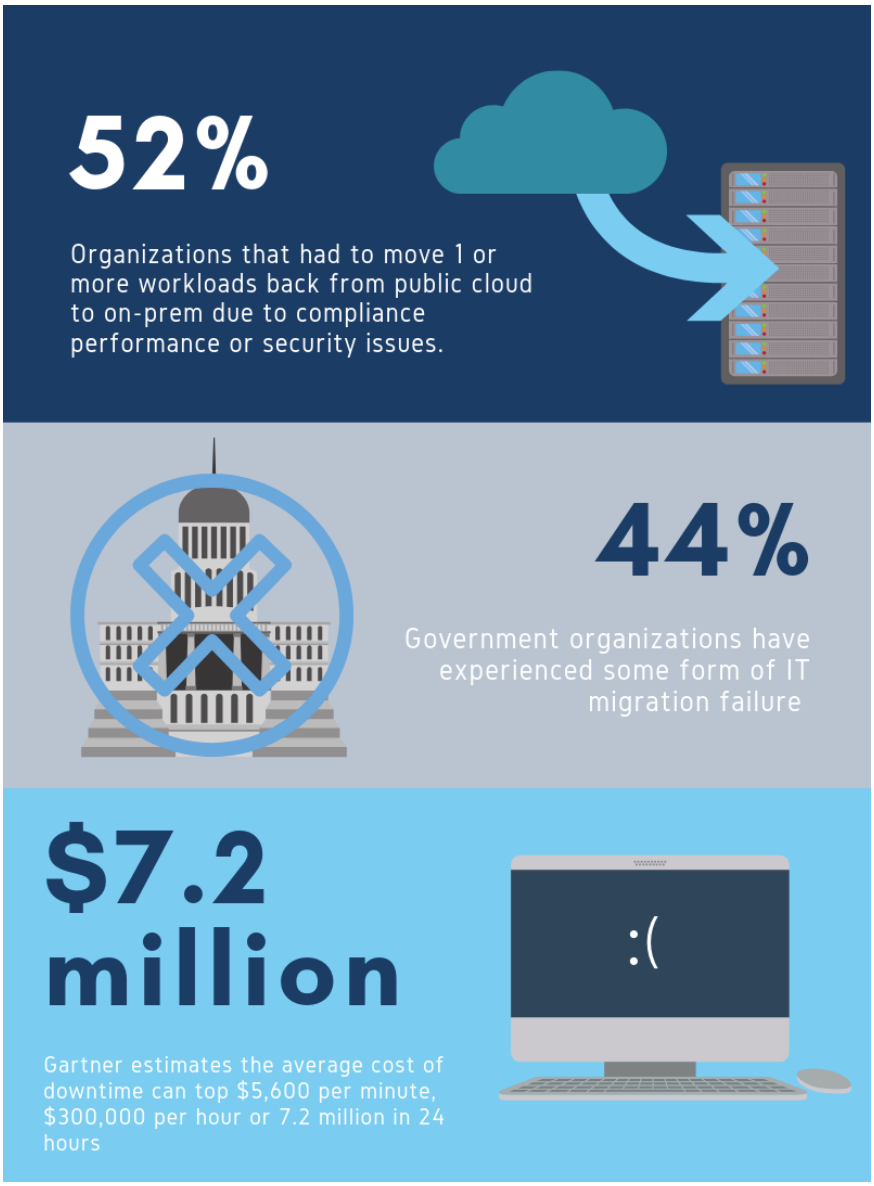
TDS' TransitionManager accelerates cloud migrations by visually mapping and exposing application dependencies, making it easy for organizations to identify, segment, and migrate workloads based on complexity.

With this powerful tool, IT can choose to make rapid progress by easily identifying and moving mobile workloads, then map migrations for more complex apps. And then it's dynamically generated runbooks orchestrate the sequenced execution of cloud migration tasks, eliminating the risk of unplanned service outages.

These days, IT is under pressure to do two seemingly different things:

1. Be agile and able to rapidly adopt new technologies and deployment environments which will drive innovation and meet business requirements
2. Maintain legacy applications and existing infrastructure, while ensuring availability, security and compliance across the enterprise

New infrastructure, microservices and inter-application relationships are continuously emerging to support business, making IT an environment of perpetual change. Yet any change, no matter how small can have unintended consequence. So, keeping track of dependencies across workloads, applications, and physical or virtual servers in hybrid IT environments is increasingly difficult.



Successful cloud migrations start with a clear strategy and an understanding of dependencies across your environment so that workloads and applications – from simple to complex – can be mapped and migrated without disruption to business.

IT organizations have a plethora of purpose-built tools that work well, but don't work together to manage change across systems. This leads to obstacles at every step.

STEPS	ROADBLOCKS
1. Understand your environment	• Disparate tools (CMDB, ITSM, DCIM) files and database store data • Containerized services, databases, and other resources are distributed across physical and virtual servers, and multiple hosting sites • No single user has access to all data across hybrid IT
2. Identify and prioritize workloads and applications	• Availability requirements, migration windows, data-handling and compliance procedures (i.e., PCI, SOX, HIPAA) must be considered when planning cloud migrations • Legacy applications may have dependencies on resources that mitigate the value of moving to the cloud
3. Execute migrations without disruption	• Automated transport tools operate without awareness a workload's dependencies. • Human analysis and planning is required to instruct tools how to execute • Automation without orchestration may introduce error when moving complex applications if tasks are done out of sequence

The Solution for Cloud Migration

TransitionManager is a web-based, collaboration platform built by practitioners to manage cloud and datacenter migrations, disaster recovery, and other IT transformation projects. Its flexibility enables IT to plan and execute cloud migrations by prioritizing workloads that align with an organization's overall cloud strategy. It is unique in three ways:

1. It enables you to aggregate, normalize and consolidate all IT assets and dependencies into single repository, displayed consistently to all users though a visual, interactive map.
2. It integrates with cloud assessment, analytics, and other tools for effective planning and analysis
3. It allows a powerful ability to orchestrate the sequence of human and automated tasks, eliminating execution error

TransitionManager is extensible, easily integrating with existing tools across IT to operate as a system, and coordinating the flow of data and actions end-to-end. IT can implement multiple migration strategies – and move mobile workloads quickly and orchestrate the moving of complex applications.

Understand Your Environment

TransitionManager captures data from disparate tools, aggregates and normalizes the data in a central repository, and consolidates it into a single view. Key features and functionality include:

- Automated data ingestion aggregates data from market leading sources including. ServiceNow, RVtools, Cherwell CMDB, Cloudscape as well as files, databases, and manual entry.
- Extract-Transform-Load (ETL) engine normalizes data, removes duplicate information, and filters out data not in scope for project. Integration for any can be easily
- Consolidated view of all data visually represented in the Dependency Analyzer, an interactive map of all applications and dependencies; changes can be made with in-place editing.

Identify and Prioritize

TransitionManager is built for cross-silo collaboration. It incorporates data from existing cloud assessment tools and analytic platforms to drive better planning to identify the right migration strategy for each application, and alignment with business goals.

Orchestrate and execute while maintaining resilience

TransitionManager is the orchestration layer in a vast ecosystem of purpose-built tools that perform specific functions. It synthesizes siloed tools to operate as a single, unified, end-to-end platform. Key features and functionality include:

- **Dynamic runbook generation** orchestrates the sequence of human and automated tasks needed to migrate applications to public and private clouds, while eliminating risk. Out-of-the box library of runbook templates are included.
- **Task graphs, timelines, and customizable dashboards** to monitor execution of all tasks in real time. It shows tasks as they complete across multiple workstreams, keeping everyone informed and ensuring progress.
- **Integration with automation tools** through API calls to orchestrate automated movement of applications. These tools excel at moving applications, infrastructure, and workloads – TransitionManager pulls data from the analysis and planning phase to direct their movement.

Summary

Cloud platforms offer improved operational efficiency, scalability, security, performance, and reduced infrastructure costs, but to realize these benefits, IT must choose the right migration strategy for each application. This requires understanding business goals for the cloud, the importance of each application to business, and the complexity of interdependencies for each application.

TransitionManager was built to help IT more efficiently plan and execute change in complex, mixed-vendor, cross-silo environments. It provides access to a comprehensive, consolidated view of the entire IT landscape with application level dependencies, enabling collaboration across business silos. The actual cloud migration becomes the easy part as TransitionManager generates automated runbooks to orchestrate human and automated tasks that account for application dependencies – and eliminates risk in the process.

TDS has been helping organizations plan for and manage complex change for over 17 years. Our software platform is built to accelerate the IT transformation process while eliminating risk. Contact us today to learn more.

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