



Mindtree

A Larsen & Toubro Group Company

Cloud Assessment & Migration

*A whitepaper on cutting your cloud migration time
in half to accelerate your benefits*

1. Market Perspective

With the challenges that 2020 has brought, cloud adoption rates are sky-rocketing, as organizations seek to drive out costs and support a massive remote workforce. Bringing digital transformation forward will drive significant cost savings and efficiencies for businesses, particularly with softening IT budgets and people working remotely, and cloud will lead the way. In this whitepaper, we have outlined how to shift your IT economics by accelerating your migration to cloud and converting CapEx to a highly-automated OpEx.

2. Accelerating to Cloud

Leveraging cloud capabilities is certainly one of the most prominent IT cost reduction strategies, providing as much as 70% TCO reduction. Whether you intend to utilize public cloud, such as Azure, AWS, or GCP, or your own private cloud, often, simply getting your workloads to cloud is a stumbling block. Mindtree has developed a platform-led approach for accelerating your migration to cloud (no matter which cloud provider), which also accelerates your benefit realization. Mindtree's ComPass platform embeds significant automation and analysis capabilities that can cut your cloud migration time up to 50%.

2.1 Barriers for Cloud Adoption

There are barriers to adopting cloud, particularly in today's world. Many enterprise are focused on engaging in BCP initiatives or other critical activities that draw their attention away from a cloud migration. However, a cloud migration provides an enterprise with significant cost take-out and cash-flow protection, which can be a critical business need today. Mindtree's promise is to bring a platform-led cloud migration approach through which business barriers can be overcome to deliver the desired cost savings and business value.

BARRIERS FOR ADOPTION

Scenario1: I need to embark on this Journey but my teams are busy with the ongoing BCP activities

Our promise: Mindtree brings a platform led approach to Discovery-to-Cloud through Compass and ATLAS 360 that helps to cut the migration assessment time in half with minimal to non involvement from clients:

- Perform agent-less scan to assess inventory
- Capture insights on cloudability, PaaSification, SaaSification
- Auto-discovery of impediments and boosters to cloud migration
- Report comparing the TCO of hyperscale cloud providers
- Re-usable discovery information for un-clouded apps & infra

Scenario1: I have completed my assessment and see value in this journey but how can this be expedited?

Our promise: Mindtree brings our best practices in working with multiple hyper scalers as a unified Minimum Viable Cloud (MVC) framework that accelerates benefit realization of cloud adoption for clients:

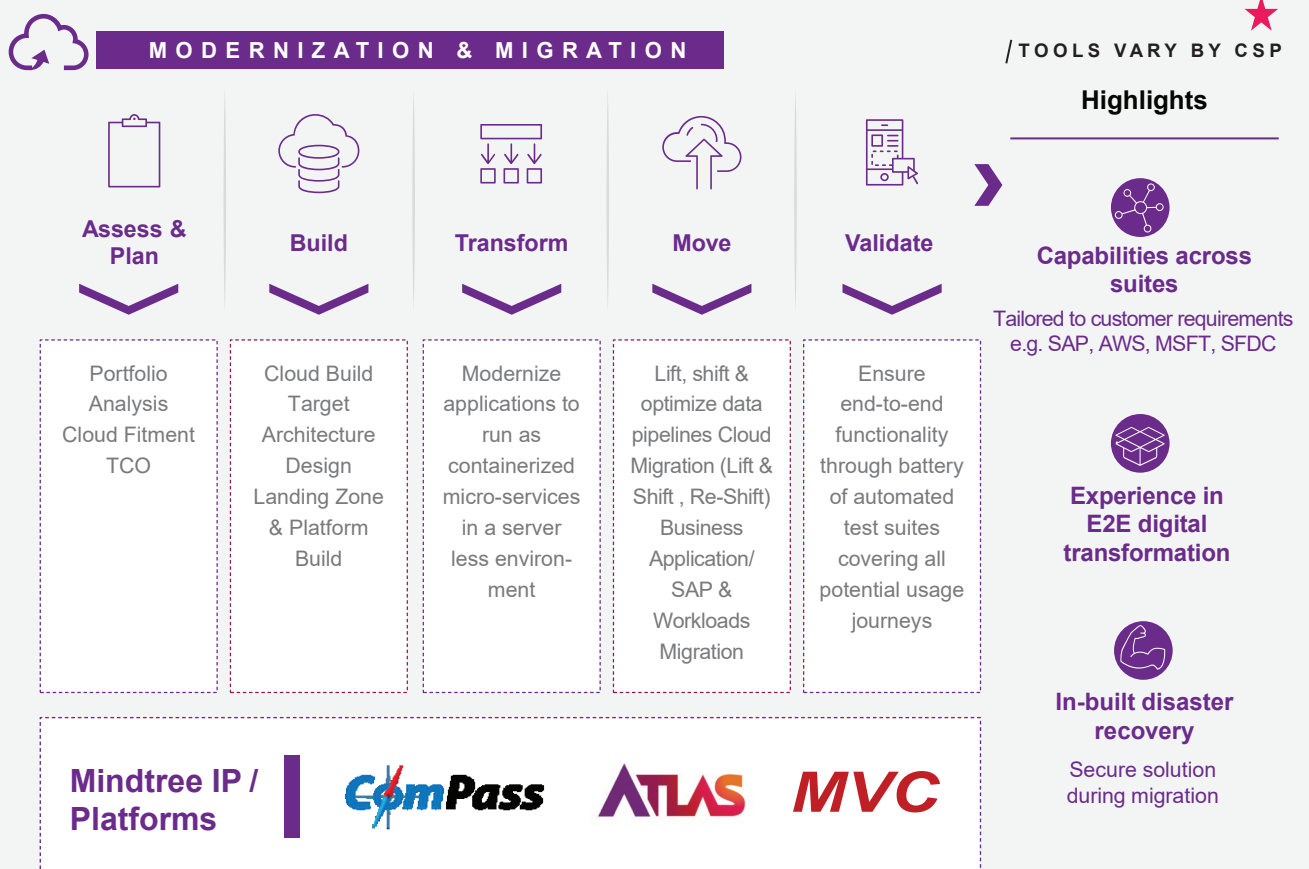
- Pre-built cloud agnostic templates laying the right foundation for account setup, identify management, VPCs
- "Infra as code" templates to accelerate your no-ops journey
- Rapid enablement of CloudOps with pre-configured assets
- Future proof modular design enabling extreme flexibility to change

2.2 Cloud Strategy & Migration

Mindtree's cloud migration approach provides you with a risk controlled and accelerated migration by leveraging our unique platforms and accelerators:

- **ComPass:** This accelerator provides a bottom-up view of dependencies, helps in **auto-discovery of application dependencies** on infrastructure components and configuration with minimal or zero intervention from existing teams
- **ATLAS™ 360:** For bespoke applications, ATLAS™ 360 provides a **top-down view of the architectural debt**, specifically highlighting impediments and boosters to cloud deployment
- **Minimum Viable Cloud (MVC):** MVC framework with core and critical architectural constructs provided as accelerators to fast-track cloud design. The MVC covers **pre-built cloud-agnostic templates** covering Account setup, Connectivity & Network (VPC), Security (IAM) and Governance

Our value proposition for modernization & migration



2.3 Converting CapEx to a Highly Automated OpEx

Moving to cloud is only winning half the battle. While cloud has promised substantial cost savings, there has been extensive occurrences of workloads moving back to on-prem. Even when your Cloud strategy has identified the types of workloads and detailed cost savings, enterprises are having trouble recognizing the benefits. Mindtree has identified three main benefit barriers that cause trouble with the recognition of cloud benefits.

Cloud Benefit Barriers and How To Overcome Them



1

Lift & shift to cloud and treating cloud as a virtual data center

- Retaining same operating model - Infra ops, App ops, monitoring teams
- Retaining same tools and technologies and incurring high license costs
- Our Approach: Cloud operations will have a highly automation-operating model and a toolset that will recognize significant operational efficiencies and cost savings



2

The incumbent infra provider has reduced the hosting and DC rates too low, which makes further workload migration unviable

- Siloed view of infra and DC costs without considering service costs such as DB admin, Sys admin, or bolt-on costs like network, storage/SAN switch per port monthly costs
- Our Approach: Include the 'whole' cost of all of the services associated with operating your current infrastructure, as many of these services are either owned by the cloud service provider, or have become highly automated



3

Compute costs are shooting higher than expected (and in some cases, continuing to increase) compared to the same business volumes.

- Business units approving additional compute resources with no financial governance
- Application support teams throwing more hardware at tech and arch debt instead of identifying root causes and fixing performance issues
- Application teams have poor appreciation of Infrastructure-as-a-Code capabilities provided by cloud
- Our Approach: Create and deploy an automated cloud subscription governance or charge-back model that ensures your business units share in controlling cloud costs

2.4 Proof Point: Cloud Migration

Mindtree migrated 700 digital properties to cloud for a leading multi-national packaged food manufacturer in half the expected time (16 months expected, 8.5 months actual time), delivering accelerated 25% OpEx savings.

Problem statement

How do we?

- **Data Center migration** from Rackspace to Amazon; 700 Digital properties to be migrated
- **Mitigate migration risk to targeted top sites** considered “Crown Jewels”, which represented 75% of their traffic volume
- **Replacing EOL Google Search Appliance (GSA) with a cloud based search solution for 700+ applications**

Outcome

Mindtree solution

- **Data center design** including network, web application firewall, cloud monitoring
- Factory based use of third party tools for **lift and shift scenarios**
- **E-2-E Ownership** of all technology stacks and infrastructure.
- Developed an adapter component that **interfaces the existing applications with the new search solution**



Platform availability



Automated migration, no manual intervention



Reduction in time to market



Reduction in cloud hosting cost



Savings in operational spend (\$1M)



Downtime migration of Solr indexes and database

Conclusion

Organizations have been forced into a new paradigm of innovation and risk management, where taking advantage of cloud services can provide some protection. Mindtree has developed the competencies and platforms to accelerate your cloud migration and over-lay hyper-automated cloud operations to help our customers successfully traverse this systemic disruption and embark on future growth with flexible IT operating models and cost structures.

About Mindtree

Mindtree [NSE: MINDTREE] is a global technology consulting and services company, helping enterprises marry scale with agility to achieve competitive advantage. “Born digital,” in 1999 and now a Larsen & Toubro Group Company, Mindtree applies its deep domain knowledge to 300+ enterprise client engagements to break down silos, make sense of digital complexity and bring new initiatives to market faster. We enable IT to move at the speed of business, leveraging emerging technologies and the efficiencies of Continuous Delivery to spur business innovation. Operating in 18 countries and over 40 offices across the world, we’re consistently regarded as one of the best places to work, embodied every day by our winning culture made up of over 21,000 entrepreneurial, collaborative and dedicated “Mindtree Minds.”