

Looking for a cost effective futuristic digital transformation?

Go 'cloud native' way!



According to a recent Gartner report, global IT spends are expected to decline by 8% in 2020 due to the

Challenges in enterprises today....













Applications

IT Management & Admin

pandemic. Businesses are spending 60% of their IT budget on infrastructure and operations to run the BAU (Business as Usual). The Result? IT is still seen as an enabler rather than driving business transformation. What is the primary cause of this? Enterprise assets are locked-in systems of records Rapid technological changes but slower adoption Technical debt & legacy

- COTS (Commercial Off-the-Shelf) products
- Cloud native recipe for modernization

enterprises to adopt and modernize cost effectively. Technology modernization for cloud native systems is

required to be: Portable across cloud environments – Evolve from monolith to multi-tier to microservices/containerization **Adopt cloud natively –** Take full advantage of cloud by adopting cloud native services to increase efficiency, resiliency and to bring operational efficiency

Cloud service providers are enabling organizations to overcome these hurdles at a faster pace by offering technology innovations as 'cloud native' services for

- Be agile Ability to move quickly and faster time to market with metrics driven DevSecOps
- The twelve-factor app methodology perceives this vision at best. It can be applied to apps that use multiple combinations of backend services, databases,
- programming language.

queues, memory cache, and are written using any

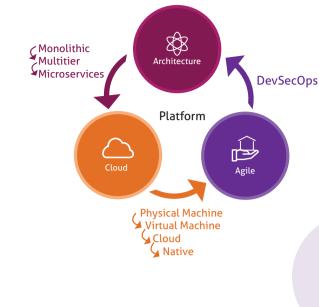
Our approach Mindtree's enterprise cloud modernization approach involves driving optimization towards a no-ops model by using the following elements:

Identifying the business value in a

modernization, demonstrating the

following modernization outcomes:

'cloud native' transformation &



Increased Business Agility: Speed and cost of application transformation

approach

1. Business Case:

2. Minimum viable transformation

"minimum viable" mind-set that

Accelerating modernization by using a

applies the 12-factor app's principles:



Reduced TCO: Reduction in hosting

DevSecOps automation

Reduced Time to Market: Velocity of new product release cycles

with self-service enablement and

and support costs by adopting PaaS



a. Automate the setup to minimize time and cost for new developers joining the project by using affirmative formats **b.** Ensure a clean contract with the operating system to aid maximum portability between

We have harnessed these best practices of implementation in our minimum viable cloud platform that provides the following characteristics uniformly across products:

Pattern Based:

Segment your applications

based on patterns in the enterprise

divergence by leveraging continuous deployment to achieve maximum agility and scale-up without making significant changes in tooling, architecture, or development practices

c. Suitable modern cloud platform deployment.

This helps remove the need for systems

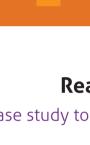
d. Minimize development and production

execution environments

administration and servers

Effortlessly Scalable:

Agility Focused: Future Proof: Automation-led approach to Modular design enables accelerate time-to-market extreme flexibility to change



Challenges:

A case study to build an omni-channel personalized marketing platform for a Top Beauty Brand

• Data size grow up to 70TB and was expected to grow higher

Advantage of moving to cloud native solution:

The client's existing solution caused the below challenges:



Real world business case for cloud native transformation

The client's data-driven marketing platform had only one architectural constraint - the solution should not use any 'cloud native' services to ensure

the platform remains portable to another cloud or to a private data center.

laaS based solutions needed to be scaled up, which increased hosting and license costs Operational and maintenance cost doubled as more brands were on-boarded

The above mentioned scenario resonates with many organizations that have recently lifted & shifted their workload data centers to the cloud forced by compelling reasons, such as having legacy core systems, unsupported COTS

Hosting Cost

40% decrease

in cost

60%

caused by acquisitions, etc.

The proposed 'cloud native' alternative solution brought in below optimization and hence provided a reason for the business to stay invested in the platform: Reduced hosting cost by 40% compared to laaS solution Reduced the license cost to 10% of what laaS solution needed About 55% reduction in operations cost as the use of PaaS solution increased

Annual L1/L2

Support Cost

45% decrease

in cost

55%

Cloud laaS

Cloud-Native

application frameworks, multiple duplicate systems of similar functionality

Real world TCO impact in Y1 comparing cloud native against cloud laaS (cloud agnostic) For all those similar cases, the TCO calculation above showcases the value of adopting cloud native approach, which supports a business case to transform the workload to adopt cloud natively.

Proof point: Our successful modernization initiatives Client:

Creating unmatched individualized experiences for a top beauty brand

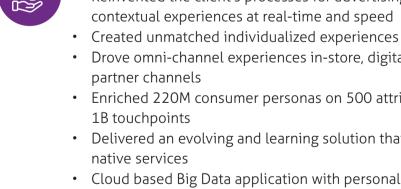
Software

License Cost

89% decrease

in cost

11%



Challenges:

Solution:

native services Cloud based Big Data application with personalization experience delivered through micro-services on cloud PaaS services **Benefits:** Scalable to accommodate a billion consumer touch points across 52 brands

Cross-selling & personalized targeting

for any new application deployment

· High availability with almost zero downtime of the applications Mindtree has been actively helping few of the customers on cloud native engagements ..with significant results

marketing using the beauty profile details shared across the merged records

88.5% of Consumers' data can be shared with other brands to enable cross-sell

• 11.5% of the total consumer profiles can be utilized for better personalization and target

Reusable ML framework which can be extended to multiple applications, thus saving time

grows smarter over time Highly scalable: Accommodated 1B touchpoints across 52 brands, with reusable ML frameworks to accelerate new deployments

Drive omni-channel personalized experience

attributes for engagement across 1B touchpoints

Enrich experiences of 220M consumer personas on 500

Solution: Reinvented processes for advertising, marketing and

Omni-channel: High availability across in-store, digital channels (paid, owned or earned) & B2B partner channels Continuous learning: Evolving & learning solution which

loyalty to deliver contextual experiences at real-time and

1. Cloud native & serverless technologies are the Organizations embarking on a digital future of software development. Embrace it now transformation journey and envisioning 2. Data-first modernization is key for digital long-term success should do three things transformation

The customer wanted to drive omni-channel personalized experience Delivering contextual experience by reinventing processes and enriching 220M consumer personas on 500 attributes for personalized engagement across 1B touchpoints Improve the revenue by cross-selling and upselling through personalized campaigning Reinvented the client's processes for advertising, marketing and loyalty to deliver Drove omni-channel experiences in-store, digital channels (paid, owned or earned) and B2B Enriched 220M consumer personas on 500 attributes for personalized engagement across Delivered an evolving and learning solution that grows smarter with time by using cloud

Problem statement

opportunities



How do we?

- Conclusion
 - 3. Empower employees with new ways of software development

Consumer personas

attributes across 1B touchpoints

Consumer data could be shared with other brands for cross-sell

Unique customers

marketing spend

identified for optimized

enriched on 500

MAKE IT POSSIBLE.

If you're not embracing the cloud natively, maybe

now is the time to look into it and we will help you





to stay up-to-speed with the latest

technology trends and immediate

business impact:

Santhosh is a solution architect at Mindtree focusing on application and cloud architectures as part of Mindtree's cloud CoE (center of excellence). He has been championing microservices based architecture styles for building next-generation applications. He is a renowned AWS solutions architect and has provided solutions that implement microservices in AWS for a large complex real-time business problem.