



Mindtree

Welcome to possible

Mindtree Migration Capability

-Transforming Cloud Infrastructure for Digital Enterprises

Make Digital Real | Execute Smart

Mindtree at a Glance

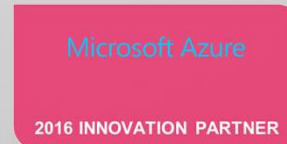
We engineer meaningful technology solutions to help businesses and societies flourish



Retail, CPG & Manufacturing	Travel, Hospitality & Transportation	Banking, Insurance & Financial Services	Technology & Media
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Solution Architecture - Central Architecture Group

Digital (Cloud, Collaboration, MarTech)	DW, Analytics & Big Data	EAI (BPM, SOA)	Engineering R&D	ERP (SAP, S/4HANA, Oracle)	Independent Testing	Infrastructure Management	Mainframe & Midrange
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*A Leader in The Forrester Wave™: "Application Outsourcing Capabilities Of Midsize Offshore Vendors, Q4 2016."
** Leader in 'Zinnov Zones for Digital Services' May 2016

Our Partnership within Microsoft



\$ 230M
Annual Revenue Run
rate



Strategic partner for
PG engineering
teams.

Large Partner for
C+AI, E+D, CSS



Mindtree Strategic
Customer with 22%
of overall Mindtree
revenue and 360
partnership



*Executed 1000s of
projects. 3000
Mindtree Minds in 4
continents. Largest
Azure Partner.*



MS Awards – “Top 5
NSP” (2017), “Azure
Innovation Partner”
(2016) & “Emerging
Azure Partner”
(2015)



21
Years of partnership



20 Ethnicities
27% Women



Our Microsoft Delivery Centers



4 Microsoft Delivery Centers – Redmond, Hyderabad, Pune & Bengaluru



Redmond
1000 Seats live,
expandable to 1400
Seats



Hyderabad
1500 Seats live,
expandable to 2000
Seats



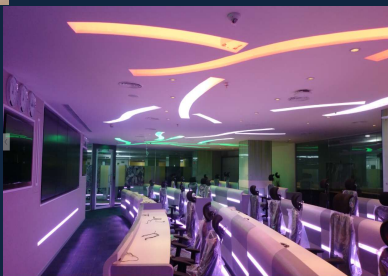
Pune - 300 Seats live,
expandable to 700
Seats



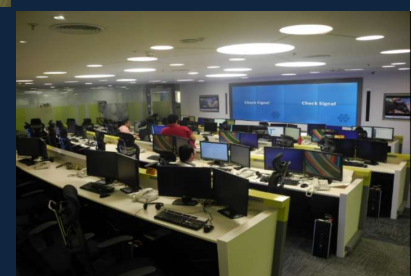
Closed & Open
NOCs. World Class
projection system by
Christie



Bengaluru - 200
Seats live,
expandable to 500
Seats



Ergonomically
designed
24x7 facility. Voted
as Top 5 facilities by
MSIT



ISG recognizes Mindtree as a Leader Across All Five Client Archetypes

ISG Provider Lens™ Archetype Report | December 2017

Deliberate Archetype

Fig 5 Deliberate Archetype Leaders

● Score 4 out of 4 ● Score 3 out of 4 ● Score 2 out of 4 ● Score 1 out of 4

Of the 21 providers included in our research, we found nine that stand out above the others as matching the Deliberate client archetype based on our assessment of their capabilities as described in the Methodology section in the Appendix. The nine are referred to as Archetype Leaders, and their relevant capabilities are presented in Figure 5 and briefly examined in the following sections.

Note: The service providers listed are arranged in alphabetical order. No ranking is implied.

A2	Expertise In Legacy Support	Cloud Assessment Capabilities	POC Examples of Cloud Projects	Outsourcing Experience	Cloud Security Expertise
Atos	●	●	●	●	●
Cognizant	●	●	●	●	●
HCL	●	●	●	●	●
IBM	●	●	●	●	●
Infosys	●	●	●	●	●
Microland	●	●	●	●	●
Mindtree	●	●	●	●	●
Mphasis	●	●	●	●	●
Virtusa	●	●	●	●	●



ISG Provider Lens 2017: Public Cloud Services Archetype report

Mindtree is a Leader across all five client archetypes in the ISG Cloud Services Archetype report:

- Traditional
- Deliberate
- Pragmatic
- Transformation
- Next-Generation

ISG Provider Lens™

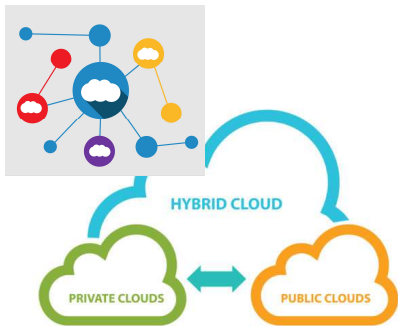
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imagine your future*

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Mindtree cloud migration – Value proposition



Windows, Linux OS, VMware, Hyper-V environments from Data center to Private, public or hybrid Cloud



To minimize or have zero downtime for clients



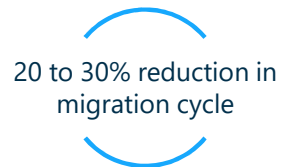
Automation enables faster migration and reduced cost



Factory Model & streamlined process to migrate workloads seamlessly



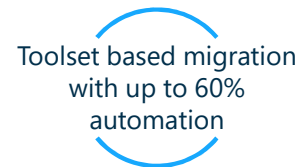
Accelerate migrations & ROI realization



20 to 30% reduction in migration cycle



40% reduction in operational costs



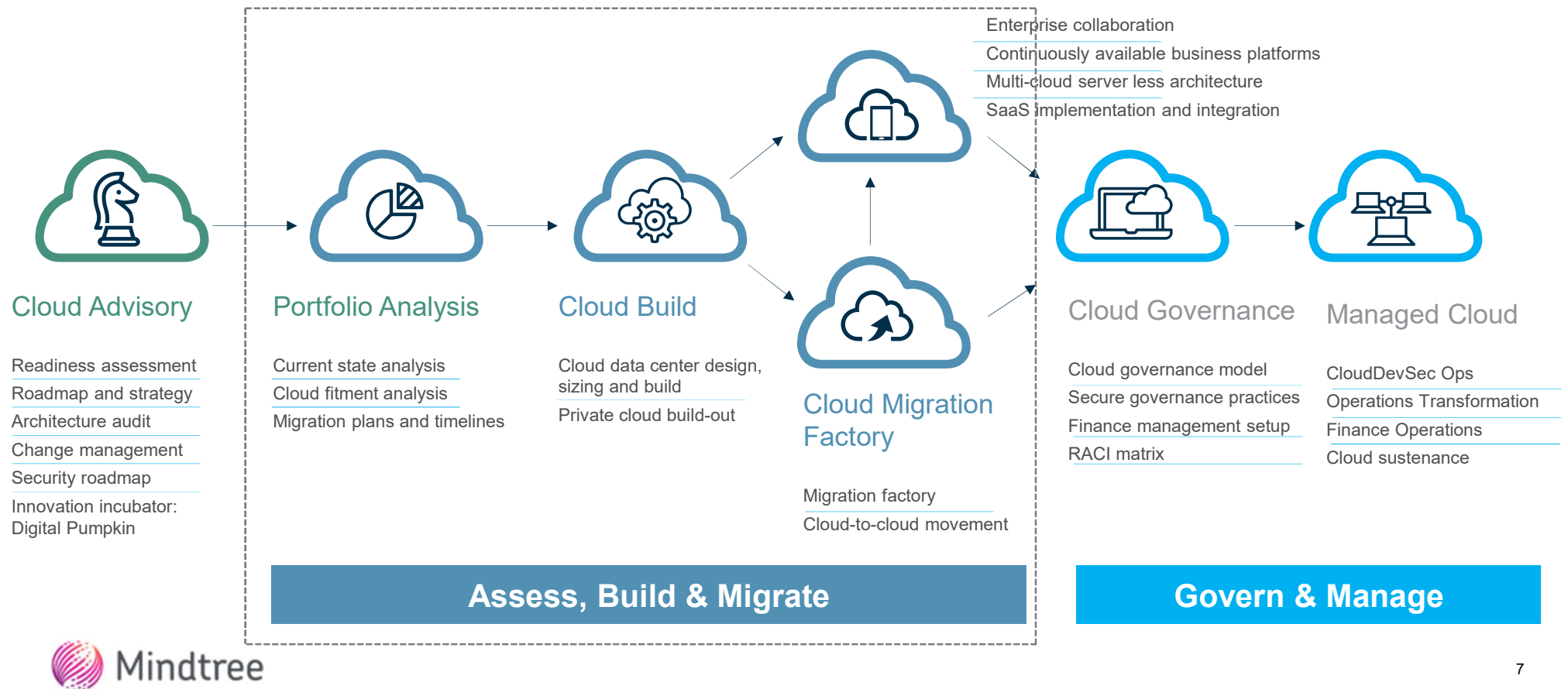
Toolset based migration with up to 60% automation



Proven framework and execution approach

Mindtree's end-to-end Services for Cloud Transformation

A holistic approach from Advisory to Operations to transform Customer business and drive innovation and efficiency



Core Tenets Migration



Factory Migration

- High Velocity Migration powered by factory-based approach
- Leverage Mindtree's migration factory approach to migrate applications to cloud
- Migration Factory driven by Automation, Adaptive Learning and Analytics
- Optimize the licensing costs in Cloud by smart assessments



Same Target State

- Target State to be same as Current State
- Hybrid Connectivity to remain as it is
- Governance Model including tools and process to be identical as current
- Databases and persistent store should be identical with latest data
- Extend current security model



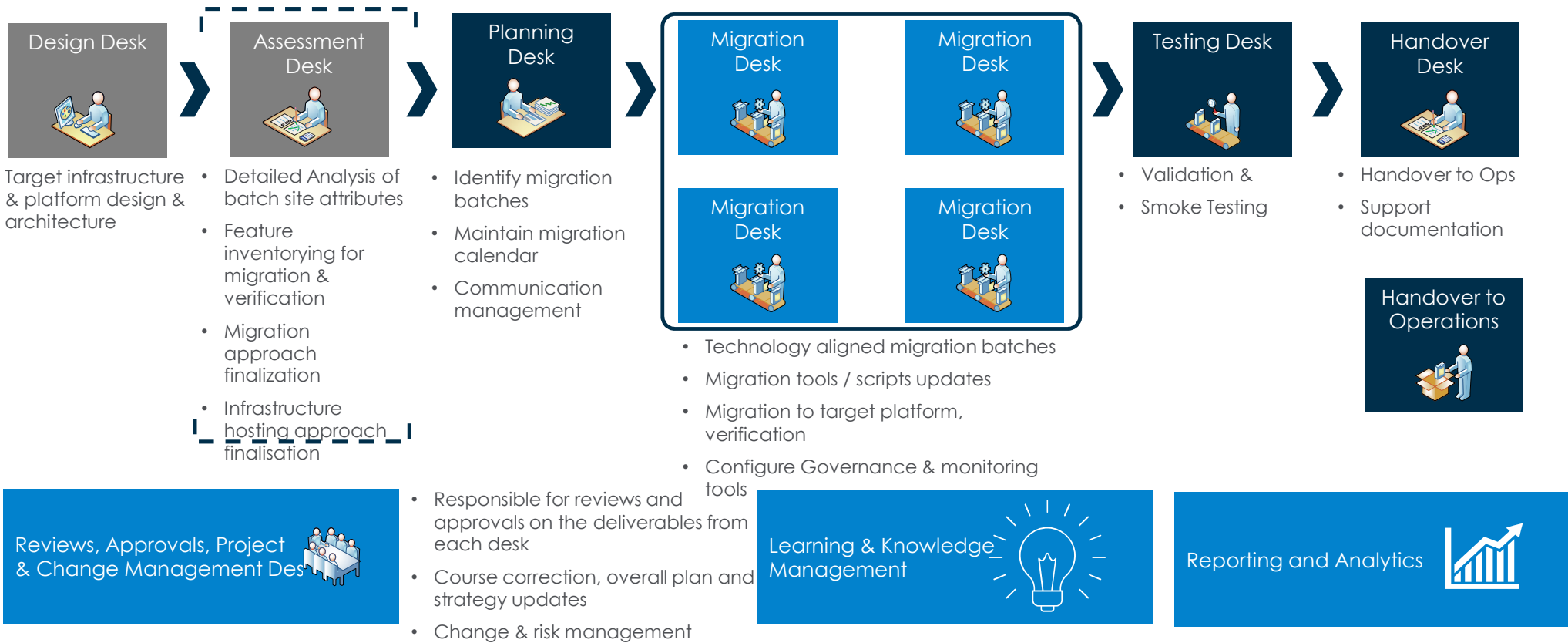
Cloud First Platform driven approach

Adopt Cloud First Platform driven approach for the new product

- Automation enabled DevSecOps pipeline
- Cloud Native adoption



Mindtree's Cloud Migration Factory (Each Batch)



Migration of Workloads to Azure in Americas

- Leading Life and Health Insurance Company

Solution Implemented

- Designed and Implemented the Solution using Azure Resource Manager
- Implemented Network Security Groups to secure the network traffic between workloads
- Implemented Azure Backup for Backups
- Implemented Azure OMS and Application Insights for Infrastructure and Application URL Monitoring

Migration Initial Challenges

- Current System is hosted in Azure Service Manager which is not scalable
- Customer wants to Implement Backup and Monitoring on the workloads.
- Customer was looking to templatize the deployment to replicate its multiple Development instances and enable Network Security between 3-tier application sets.

Classic 2 ARM



Value Addition

- Easy, Rapid and Tested deployment of Azure Resources
- Consistent Backups
- Stable Monitoring and Alerts Systems
- Configure Infrastructure for future HA and scalability
- Network Security

Building Azure Stack Hybrid Cloud for multiple customers

Solution Implemented

- Formed a core team of consultants with Azure Stack experience with additional skills on , Active Directory, PowerShell Automation, Cisco UCO, Nexus Switches
- Working closely with Cisco and Microsoft for latest builds and bugs
- Came up with pre-requisites check-list that will be used for customer discussions
- Automated for faster deployments and configuration



Migration Initial Challenges

- Deploy Azure Stack on Cisco Hyper-Converged Infrastructure
- Responsible for implementations across Europe and APJC
- Responsible for Rack and Stack to bring up the Azure Stack, where customer can login to the admin portal
- Take care of all pre-requisites, like DNS, Network, AAD.
- Resolve any issues during the deployment
- Work with Cisco and Microsoft in case of any bugs / issues



Value Addition

- On-time and On-budget deployments
- BYoIP, providing multi-tenancy & hybrid cloud, enabled by SDN
- Build PaaS, and SaaS Solution that are available through Azure Market Place
- Ability to purchase AzureStack-as-a-Service (Capex vs Opex) with predictable monthly costs based on usage.
- Benefit from the agility of a flexible, speedy and elastic cloud.
- Ability to choose for a dedicated Azure Stack infrastructure, your own secure Azure environment without any other tenants.

Global Retail Giant Digital Marketing platforms migrated to Azure



Global Retail giant wanted to migrate 600 + digital properties from Rackspace® to Microsoft Azure

Issues

Mitigating migration risk for its top sites that accounted for 90% of traffic volume

Scalability

600 Sites

Mindtree approach

Cloud build

Cloud Infrastructure foundation setup including Network, Firewall, Web Apps & monitoring

Migration factory

Proposed strategy and sequence of migration with a factory-based model & use of third-party tools

Seamless Cutover

Uninterrupted Transition to Cloud with no business impact and smooth cutover to operations

Scalable & Better Marketing platforms

Leading Multinational Consumer Goods Company



- Migration of 700+ Digital Properties from CTL to Azure
- Cloud Migration of top clusters for all customer facing sites

Issues

Existing DC limitations to scale the business demand

20 Vendors

Mindtree approach

Assessment

- Detailed Assessment of application, Infrastructure and proposed the strategy and sequence of migration

Migration & Transition

- Factory based Migration
- Application Lift & Shift to IaaS
- Migrated Sitecore Master, Core, Web and Pub databases to Azure SQL Server
- Migrated MSSQL & MySQL Databases to Azure SQL Server PaaS & MySQL PaaS
- Seamless cutover to

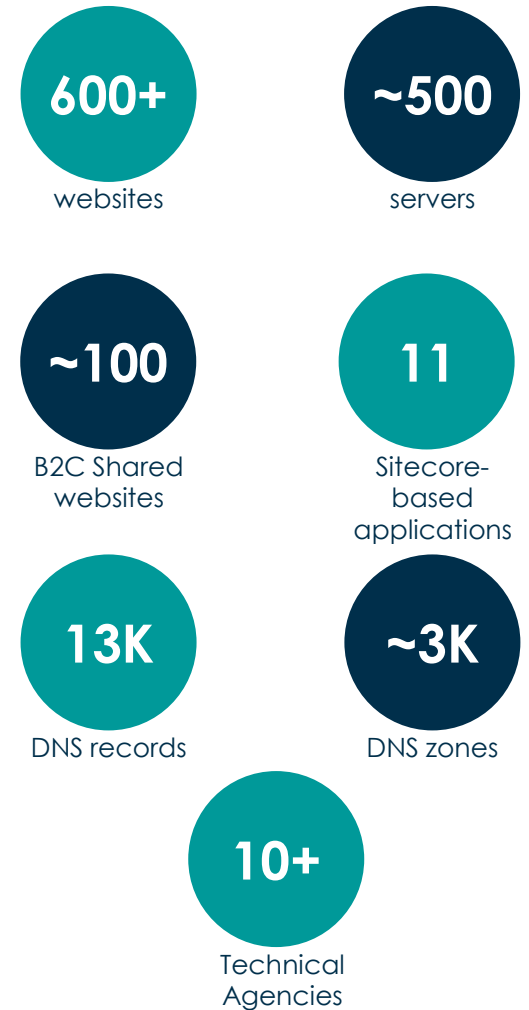
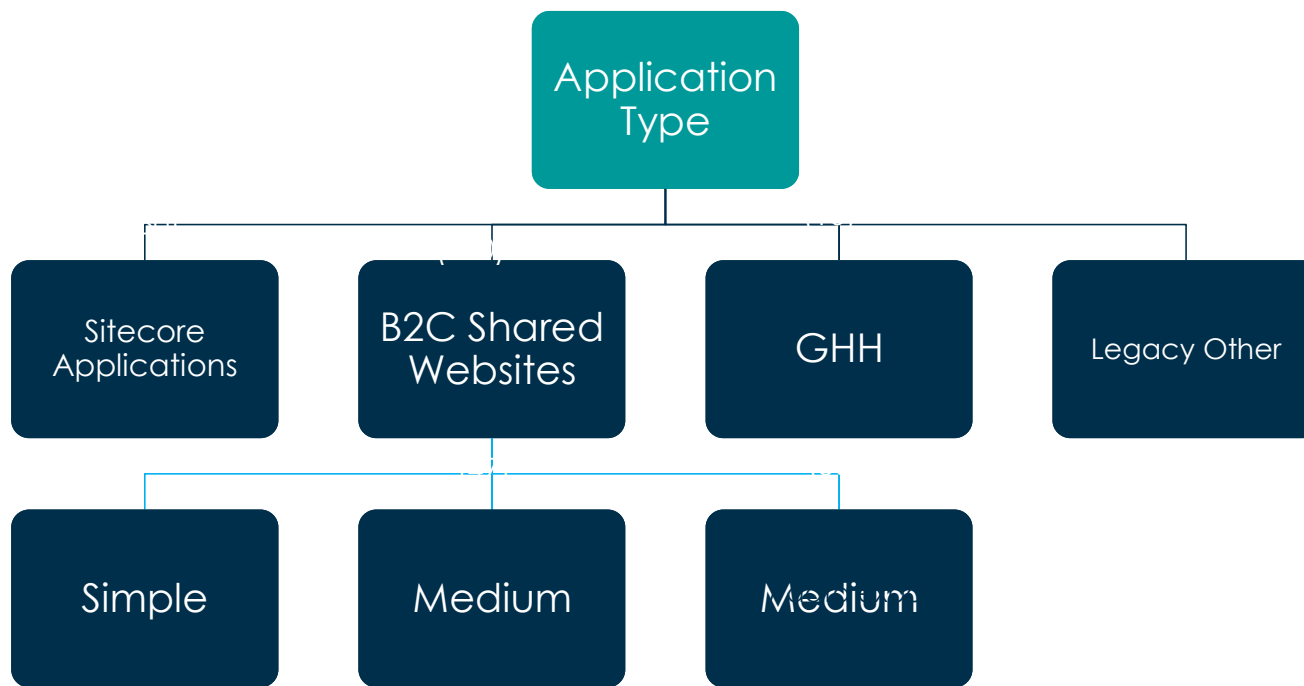
Automation

- Automated Migration using Mindtree Accelerators
- IaC - used ARM templates for provisioning the Sitecore Content Authoring (CA) and Content Delivery Servers (CD)

No unscheduled downtime during the Migration & impact to Business

First Time Right within P&G on large Cloud Migration

Key Applications: Scope of Migration for Mindtree



Technology Landscape

Sitecore Solutions

- Platform approach; each hosting multiple sites
- Common codebase for a platform
- Mostly similar architecture
- 6 different platforms; ~**480** websites
- Multiple technical agencies

B2C Shared / Legacy Websites

- Each website has a different tech stack and codebase
 - .NET, LAMP, Java
 - No proper CI/CD in place
- ~**100** websites
- Multiple technical agencies

Challenges

- Platform approach; each hosting multiple sites
- Common codebase for a platform
- ~**30** websites
- Managed by multiple agencies

CI/CD Tools

- Mainly used for Sitecore solutions; managed by Mindtree
- BitBucket, SonarQube, Jenkins, ProGet, OctopusDeploy

DevOps Tools

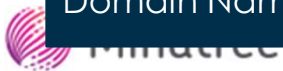
- JIRA, Confluence
- APM, URL Monitoring

Active Directory

- Migration of Sitecore users from CTL AD to Azure AD

Domain Name System (DNS)

- 13K parent records and 3K zones



Why Mindtree

Expertise in Migration



Mindtree is engaged with Microsoft for years in migration space and have experience in building China Sovereign Cloud

Experience with Scale



Proven framework and execution approach

Availability of Skills



Ready availability of Certified engineers to take up highly confidential and secure workload

Ready to start



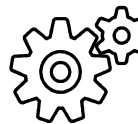
Knowledge of existing migration model, Mindtree is delivery ready and can start the project faster than any other partner.

Quality of Delivery



High Performing – Won Month on Month Incentives even with higher volume compared to others

Factory Model



Factory Model & streamlined process to migrate workloads seamlessly

Thank You