



Business-friendly Solutions



# ITC Infotech CloudSense Your Silver Lining in Cloud Migration



It is quite common to hear terms such as Agility, Cloud, Automation and Digital transformation in boardrooms these days because it is the need of the hour. Getting large CAPEX business proposal approvals, the increasing cost of scalable physical IT infrastructure, and its maintenance is becoming increasingly unviable. Anytime, anywhere, any device accessibility and availability have now become a business imperative. The world is moving fast towards the age of automation, mobility, and ubiquitous connectivity. Consequently, it is no longer a question of whether, but how quickly a business can be taken to the cloud to make it more agile, cost effective and help to meet the business objectives.

### What it takes to transform your business into a cloud-based environment

Make digitalisation pervasive in your organisation by adopting disruptive technologies and systems

Invest in automation and solutions to seamlessly integrate all systems for maximum operational efficiency

Ensure that costs are optimized, Capex is avoided and year-on-year Opex comes down

Your systems must be always available for business, secure & compliant at the same time



## Does Your Organisation See The Future In The Cloud? Then Your Best Choice Is To Drive Your Cloud Transformation Journey With ITC Infotech's Cloudsense Framework

### Cloudsense – ITC Infotech's Efficient, Reliable And Resilient Cloud Migration Framework

Our years of experience has helped us to build a well-thought structure to take the customer's business to the cloud seamlessly without any impact to the business. It begins with acquiring a deep understanding of not just the customer's current IT environment but also business drivers, motivations, expectations, and overall outcome from the cloud journey and progresses through well-defined phases till the maturity of the cloud solution and validate the KPI's of the outcome which was defined in the beginning. We work very closely with the customer's IT Team and business to achieve a satisfactory result.



**Discovery & Validation:** Perhaps the most important and yet most underrated task, it involves understanding IT environment needs and the problem/s to be addressed across applications and infrastructure in the organization. It includes understanding cloud maturity and deciding what all applications need to be deployed under IaaS or can be deployed with PaaS services. Apart from this we need to understand which applications need modification, while defining dependencies and constraints.



**Plan & Design:** Based on the understanding gained, we then define a clear cloud transformation approach which includes overall migration strategy and end to end plan and timelines to get the desired outcome. Objective here is to rationalize and determine the best approach to host the customer's environment in the cloud. Here we need to

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identify the toolset/s, templates, SOP's to be utilized. Naturally, this will consider that there must be no disruption to the business and existing operations which will run between on-prem and Cloud under hybrid environment till we achieve the end state of business and technical criteria. Here we also forecast the overall cost of cloudification, readiness & cloud adoption plan.



**Readiness Check:** Since cloud migration is a comprehensive and far-reaching exercise, meticulous preparation is imperative. In this phase, we conduct a pilot migration exercise to deploy and test the most appropriate landing zone option to establish a code-based starting point for your environment with DevOps framework, based on which we can then define the migration approaches for the different environments in your organisation. Operational model such as alignment to business strategy, organization of people, change management (or adoption processes), operations management governance/compliance (such as cost optimization, operational excellence, performance efficiency, reliability), and security are established. The Microsoft Azure Well-Architected Framework helps us to get overall operating model identified and established.



**Migration & Testing:** Now we move to the migration phase where workloads could be moved to the cloud through agreed approaches based on Cloud maturity of applications such as lift and shift; lift and optimize; or modernize based on the motivation drivers of migration. Each approach is considered a migration here. Post-Migration test is done thoroughly at all levels before actual cutover and preparation of the documentation. Here we complete the system integration testing for all applications, migrate applications to production, complete the setup and test the Business Continuity and Disaster Recovery Plans, and conduct planned training for users. We recommend having an incremental cloud transformation journey which will start with an initial, limited scope of migration to get IT and business teams aligned for a fast-track migration with maturity. All the business processes need to be thoroughly validated especially where the controls are automated to make sure they deliver the same outcomes. This is the time where we create hypothesis with business value consensus to see what value we can bring to our customer's business by providing innovative solutions and test them with Minimum viable product (MVP) and expand their digital journey as we progress.



**Govern and Manage:** Cloud is a new paradigm change for IT and Business, and it's important to understand how these technologies are adopted, managed, and governed. Cloud governance is an iterative process. For organizations with existing policies that govern on-premises IT environments, cloud governance should complement those policies. We must use benchmarking tools on a regular basis to get our reports which can provide differences between our current state and our business priorities. We iteratively keep adding governance controls to address tangible risks as we progress toward the end state of our cloud journey. With our industry experience, we know that not all workloads are mission critical, hence we carefully choose our operational approach to ensure the most appropriate operational management processes and tools are considered to provide optimal outcome. Modern operations management solutions create a multi-cloud and Hybrid-cloud view of operations and alignment with Business to ensure we deploy a centralised management of operations.



**Secure:** Cloud security is an ongoing journey of incremental progress and maturity to manage information security risk. We believe that all security disciplines should follow the zero-trust principles of assume breach, verify explicitly, and use least privilege access.





# The ITC Infotech Advantage

## Rich and diverse domain expertise

We have deep and extensive domain knowledge in the Banking, Healthcare, CPG, Airlines, Retail and Manufacturing industries. This experience helps us to internalize the customer's business landscape much faster, understand their specific needs more closely, and create the most optimal solution for business eco-system with an outcome-based approach with our own investments.

## Accelerated Migration driven by advanced tools

We use advanced tools such as Azure Migrate and industry standards such as Carbonite and Cloudamize that catalyse the cloud migration process and make it faster and more efficient. Our experience has shown that deploying these tools can accelerate the Customer's cloud migration journey by as much as 20-30%.

## How we help customers Migrate to Cloud

We know that one-size does not fit-to-all, and everything can't be re-hosted. Hence, we recommend following 5R strategy to tailor the Customer's cloud transformation to what is most optimal for their business needs:

- Re-host
- Refactor
- Rearchitect
- Rebuild
- Replace

Using one or a combination of these strategies, we create a cloud solution for our customers that is best suited for the needs of their business as well as meet expectations of cost and performance.

## Seasoned talent pool working with us

At ITC Infotech we have a rich pool of business domain experts, consultants, architects, developers, and designers to devise, implement and manage cloud migration solution. They take full ownership, responsibility, and accountability to manage every step of customer's cloud journey till the end to make it successful, meeting all the business outcomes defined by the drivers.



**Rehost** – Move your applications to the cloud with no modification. Low risk, low effort, low infrastructure, and operating costs. Helps promote a cloud-oriented approach in the business.



**Refactor** – Rearchitect your applications for a Platform as a Service (PaaS) environment, while retaining the languages, frameworks, and containers of your applications and leveraging strategic code.



**Rearchitect** – Modify your applications to better exploit cloud features. A middle path with the disadvantage of high initial costs to modify legacy base code.



**Rebuild** – Get rid of all your legacy code and frameworks. Custom-architect your applications to take full advantage of the cloud solution's features. The risk is that you get locked in with your cloud partner and may face future challenges if they make technical or pricing changes.



**Replace** – Replace some or all your existing applications with a Software as a Service (SaaS) option. Enables you to respond to changes quickly without major investment. However, you get locked in with the vendor and may face technical issues with data semantics and access.

## Team of professionals working in the cloud Domain managing different functions such as:

- Migration Strategy
- Discovery and Assessment
- Cloud Foundation
- Workload Migration
- DevSecOps CI/CD, Automation
- Hybrid / Multi Cloud Management (Ops)
- AI/Ops / Automation
- Cloud integration
- TCO Optimization, Lifecycle Management
- Cloud Security

## About ITC Infotech

ITC Infotech is a leading global technology services and solutions provider, led by Business and Technology Consulting. ITC Infotech provides business-friendly solutions to help clients succeed and be future-ready, by seamlessly bringing together digital expertise, strong industry-specific alliances, and the unique ability to leverage deep domain expertise from ITC Group businesses. The company provides technology solutions and services to enterprises across industries such as Banking & Financial Services, Healthcare, Manufacturing, Consumer Goods, Travel and Hospitality, through a combination of traditional and newer business models, as a long-term sustainable partner.

ITC Infotech is a wholly-owned subsidiary of ITC Ltd, one of India's foremost private sector companies and a leading multi-business conglomerate. For more information, please visit: [www.itcinfotech.com](http://www.itcinfotech.com)