



# TCS Enterprise Cloud



While the adoption of cloud infrastructure and platform-as-a-service (PaaS) has seen a massive growth over the last five years, there are multiple use cases where public cloud deployment is not a viable strategy, for instance, in IoT-edge applications. Catering to the performance and data security requirements of a complex IT landscape requires companies to adopt a hybrid cloud approach that combines the cost efficiency and elasticity of the public cloud with the control offered by private cloud implementations.

Tata Consultancy Services' (TCS') Enterprise Cloud enables organizations to harness the scalability and flexibility of cloud technology without having to compromise on their security practices with respect to business-critical applications such as core banking, analytics, IoT and ERP. Leveraging a hyperconverged and highly automated system that allows companies to efficiently manage pools of compute, storage, and network resources, our Enterprise Cloud Platform (ECP) delivers a seamless user experience.

## Overview

Enterprises across industries are investing significantly in digital transformation initiatives to challenge traditional business models, stay competitive, reduce operating costs, and enhance customer experience. To tap the opportunities of Business 4.0 that digital technologies have enabled, companies need to boost agility and dynamically scale-up and -down resources as per business requirements. Legacy infrastructure suffers from limitations as it cannot support on-demand provisioning of compute, storage, or network resources. The advent of the public cloud has also not been able to completely overcome these challenges due to concerns around security, latency and high availability requirements for business critical applications. However, hybrid cloud application use cases are being increasingly accepted as a holistic approach to enable scale and cost-effectiveness along with superior data security and control.

TCS' Enterprise Cloud Platform (ECP) delivers a myriad of flexible cloud infrastructure options to enterprises looking to move rapidly along the digital maturity curve. The platform comes with robust SDx capabilities, and is integrated with OpenStack software to drive automation at all levels. Characterized by an open architecture, an enriched PaaS layer, and container services based on Docker, Kubernetes and Cloud Foundry technologies, the offering supports dynamic cloud services with superior cloud portability and zero vendor lock-in. Moreover, its data services backbone is built on an open source stack – Spark, Mesos, Akka, Cassandra, Kafka (SMACK) – capable of meeting diverse big data, analytics, IOT, and streaming data workload requirements.

## Our Solution

TCS' Enterprise Cloud services encompass:

- **Cloud strategy and assessment:** Accelerate cloud adoption with quick cloud readiness assessment of the technology landscape. Simplify platform design, application and infrastructure portfolio management, cloud adoption strategy development, and legacy modernization with TCS' assessment, discovery, and recommendation tool – CloudCounsel.
- **Cloud foundation and PaaS services:** Design and build a secure and reliable cloud platform, implement leading-edge technologies such as containers, PaaS and serverless computing, and standardize cloud services. Bolster management of workflows, improve SLAs, and boost agility with DevOps.
- **Cloud migration:** Migrate existing workload images to cloud, rebuild applications on the cloud platform, and replace legacy applications with SaaS. Optimize your global application portfolio to minimize redundancy.
- **Legacy colocation:** Manage your legacy data center seamlessly with TCS' Enterprise Cloud Platform (ECP).
- **Infrastructure as a service (IaaS):** Support multiple cloud platforms leveraging next-generation automation tools and frameworks.



## Benefits

With TCS' Enterprise Cloud, you can harness the following benefits:

- **Ensure superior business continuity and agility:** Comply with stringent business services SLAs with the reliable enterprise cloud platform that delivers assured high performance for mission critical workloads. Software-defined infrastructure enables automation and agility at all levels, and accelerates time to market of critical applications.
- **Enhance user experience:** Thrive in today's rapidly evolving experience economy with cloud offerings that are user-centric, business-focused, and designed to increase organizational efficiency and boost the overall user experience.
- **Reduce total cost of ownership:** Maximize ROI and cut IT costs by leveraging our cost-efficient cloud infrastructure that provides a highly resilient platform for modernization. Divert scarce in-house IT resources from mundane infrastructure maintenance and management tasks towards core business activities and innovation.

## The TCS Advantage

By partnering with TCS, companies can leverage the following differentiators:

- **Enterprise class cloud infrastructure:** Our enterprise hybrid cloud platform enables 'Bimodal IT' – allowing you to ensure predictability with respect to running your IT infrastructure seamlessly, along with exploring newer technologies and business models to achieve a sustainable competitive edge. Manage mission critical workflows on the TCS Enterprise Cloud, which is trusted by leading Fortune 500 companies using it for mission critical workloads across heavy-duty applications such as SAP, Oracle, and core banking. Deploy a combination of customized IaaS and PaaS configurations to run high performance workloads while ensuring superior customization and flexibility.
- **Comprehensive SLA-driven business services:** Unlike most cloud service providers who offer economies of scale without the assured performance and service levels across application and infrastructure, our highly transparent technology platform adheres to clearly defined application, platform, and infrastructure SLAs. These go beyond the hypervisor level and can even be extended to business-level SLAs as per your specific requirements.
- **SOH by design:** Our cloud platforms are based on a future-ready, digital-first architecture that is secure, open, and hybrid by design with a zero-trust security model that defends against increasingly rampant and sophisticated cyber threats. Powered by open source technologies such as OpenStack, Kubernetes and Docker, TCS Enterprise Cloud boosts interoperability and helps optimize license costs, bringing down the overall cost of IT operations.

## Awards & Recognition



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### About Tata Consultancy Services Ltd (TCS)

Tata Consultancy Services is an IT services, consulting and business solutions organization that delivers real results to global business, ensuring a level of certainty no other firm can match. TCS offers a consulting-led, integrated portfolio of IT and IT-enabled infrastructure, engineering and assurance services. This is delivered through its unique Global Network Delivery Model™, recognized as the benchmark of excellence in software development. A part of the Tata Group, India's largest industrial conglomerate, TCS has a global footprint and is listed on the National Stock Exchange and Bombay Stock Exchange in India.

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