Accelerate and optimize migration to OCI with powerful, intelligent cloud services

Highlights

- **Choosing the right path to public cloud— rehosting, replatforming, or rearchitecting— poses a challenge for most organizations and requires extensive research and preparation.**

- **Accurately calculating the cost, time, and effort required for a successful migration is a daunting task—but accelerators and capacity planners that leverage powerful AI and generative AI tools can help.**

- **Cloud services from a trusted implementation partner such as TCS and a leading cloud provider such as Oracle can streamline, optimize, and speed the journey to the cloud—regardless of the path chosen.**

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Migrating to the cloud: Choices and challenges

Businesses in all industries are looking for ways to move to the cloud so they can easily scale, introduce new offerings, and improve profitability. The cloud promises to be a catalyst for many organizations, allowing them to break free from monolithic software stacks and traditional on-premises infrastructure and adopt a scalable, flexible model that mirrors their business goals.

To achieve these considerable benefits, businesses must take a hard look at where they are now and where they want to go—and that means carefully evaluating their existing environment and legacy infrastructure, as well as their business goals and vision for the future. Once they have a firm understanding of these factors, they now face a significant decision: Which of the three common cloud migration options is best for the organization—rehosting, replatforming, or rearchitecting? At this point, many organizations find themselves unsure how to proceed. The stakes are high, and the nuances of the choice are complex and often hidden. What's more, many businesses are unsure of the cost, resources, time, and effort required for a successful cloud migration—and many underestimate these key factors.

Recognizing the challenges and opportunities for companies as they evaluate their paths to the cloud, Tata Consultancy Services (TCS) has leveraged its long-standing partnership with Oracle to develop TCS Oracle Cloud Services on Oracle Cloud Infrastructure (OCI). With end-to-end capabilities across advisory services, migration, implementation, ongoing support, and managed services, TCS helps

companies accelerate their Oracle Cloud adoption journey to support intelligent and sustainable businesses. With its OCI services, TCS provides a single window for organizations to engage in their cloud transformation, harnessing the power of artificial intelligence (GenAI) to speed the time to implementation and improve return on investment (ROI).

Why the road to the cloud isn't a clear-cut path

A move to the cloud can help organizations address many of their business challenges. The cloud provides more flexibility and scalability than on-premises environments. It allows organizations to integrate crucial new technologies with existing infrastructure leveraging the tenets of hybrid and multi-clouds, helping address security and compliance requirements while building competitive advantage. Organizations that have moved to the cloud are able to nimbly add more computing resources, build customer and supplier portals, and free themselves from slow upgrade cycles that could cause them to miss opportunities to innovate.

The benefits are many—but so are the challenges. In exploring a migration to the cloud, organizations face some crucial questions:

What is the best path forward?

What will our journey to the cloud cost—and how can we ensure a good ROI?

What resources will we need to support our cloud journey?

Will our performance, security, and flexibility really improve?

Finding the answers to these questions is a challenge. There are multiple options for migrating to the cloud, and within each a multitude of choices must be made. The three most common cloud migration options today are:

Rehosting
Also known as 'lifting and shifting,' rehosting involves moving an organization's entire on-premises environment to a cloud platform. Rehosting can be complicated by legacy environments, which may differ significantly from cloud environments and may require extensive reworking before rehosting is complete.

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Replatforming
Moving the environment from other hyperscalers, such as from Amazon Web Services (AWS) or Google Cloud to OCI, is another option. This can be appropriate for businesses that have already begun experimenting with the cloud but are ready to move to an end-to-end solution that integrates complex ecosystems and provides a single solution for multiple environments.

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Rearchitecting
In this option, organizations build from scratch on a new cloud platform. Although such an option may seem daunting, it may prove to be the most viable path forward for businesses with highly customized legacy solutions such as enterprise resource planning (ERP) systems.

Each approach has its advantages and challenges, and sorting through these is a monumental task. Accurately calculating the cost, time, and effort required to migrate workloads to the cloud is a further challenge, and identifying the ROI and likely performance improvements can be even more complex. Many organizations find themselves unable to proceed.

Streamlined, optimized migration to OCI from a leading cloud partnership

The journey to the cloud can be smoother and faster with the right transformation partner. With 35 years of experience as an Oracle systems integrator and application support provider, TCS offers end-to-end solutions for mitigating cloud migration challenges so organizations can find a clear path forward with their cloud transformations.

Using proprietary accelerators such as ROI calculators and capacity planners, TCS provides businesses with the pros and cons for every migration pathway. This includes the initial due diligence to determine which migration model to use for each workload, as well as consultations and recommendations on the best path forward for the business. Once the organization has decided on a solution, TCS oversees migration on the chosen path and provides end-to-end support.

TCS Oracle Cloud Services offerings on OCI include:

Converged database:
This TCS service supports all modern data types, workloads, and development styles. Service offerings include Oracle Database 23ai.

Autonomous database:
This offering includes all the benefits of a converged database running on Oracle Exadata with a fully managed cloud service. Service offerings include Oracle Autonomous Transaction Processing and Oracle Autonomous Data Warehouse.

Multicloud:
OCI interconnects with different cloud hyperscalers, enabling migration to OCI from those hyperscalers. TCS service offerings include Oracle Database@Azure, Oracle Database@Google Cloud, and Oracle Database@AWS.

Hybrid cloud:
OCI offerings such as Oracle Cloud VMware Solution enables organizations to more easily move on-premises workloads to the public cloud and gain the advantage of flexible containerization. TCS service offerings include Oracle Cloud VMware Solution.

Oracle Alloy:
This service enables Oracle partners to become cloud providers to their regulated markets or geographic regions. Service offerings include Oracle Alloy.

Distributed cloud:
This service offers the flexibility to deploy services across public, private, or hybrid environments, addressing data sovereignty and low-latency requirements. Service offerings include OCI Dedicated Region, Oracle Compute Cloud@Customer, and Oracle Exadata Cloud@Customer.

Sovereign cloud:
This service is ideal for industries subject to strict data residency and compliance requirements pursuant to local data protection laws. Service offerings include OCI Sovereign Cloud.

Exadata Exascale:
Using Exadata Exascale Infrastructure enables small to medium-sized workloads and enterprises to cost-effectively take advantage of the performance and availability benefits of Exadata. Service offerings include Oracle Exadata Database Service on Exascale Infrastructure.

With TCS offerings for Oracle Cloud, businesses can gain:

- **Faster time to market:** Cloud transformation accelerators developed by TCS help businesses move to the cloud rapidly, shaving months off implementation time and scaling as needed to meet business demands. Companies that use TCS CrystallusTM—a set of preconfigured industry and business accelerators—can reduce their design cycles by up to 30%.

- **Complete advisory services:** TCS offers complete planning and advisory services, migration and implementation support, and monitoring services to help businesses right-size resources, make informed decisions, and avoid hidden costs. TCS identifies what systems can be migrated, the best ways to move forward and how to apply security policies to address compliance in the cloud.

- **Expert support from a powerful partnership:** Backed by its longtime partnership with Oracle, including eight years of OCI migration implementation experience, TCS offers customers integrated solutions that include hardware, software, deployment, configuration, and support. The mature partnership between TCS and Oracle enables customers to work directly with TCS to achieve faster implementation times and an accelerated digital transformation.

- **Industry expertise:** With domain coverage in almost every industry, TCS has developed industry-ready templates and business workflows in TCS Crystallus for Oracle Cloud. TCS technical teams have a wealth of domain knowledge to assist with many industry-specific scenarios. For example, TCS transformed the core ERP system of a leading pet health and wellness company to pave the way for expansion and cost savings, flexibility to enhance workflows, and improved security. TCS also helped a leading telecommunications provider move its global HR functions to Oracle Fusion Cloud Human Capital Management and improve the employee experience.

- **Optimized costs:** Tools and expert advice provided by TCS can help businesses substantially reduce their costs, both during migration and throughout the lifecycle of their new environment. For example, after TCS helped a financial services customer with its migration to Oracle Exadata Database Service on OCI, the organization has not needed to raise a single ticket for issues, due to the improved performance and automated patching and updating of its systems on OCI.

TCS and Oracle bring smart integration and intelligent cloud migration to businesses, harnessing the power of GenAI and years of experience. For each type of migration, TCS has tools that accelerate the process and deliver a faster ROI:

Streamlined rehosting: During a complete rehosting, TCS accelerators are deployed to conduct the majority of the migration, reducing the likelihood of human error and enabling the 'lift and shift' to be completed seamlessly.

Right-sized replatforming: For replatforming to OCI, TCS uses accelerators to optimize size and autoscale systems to run optimally on the new cloud platform.

Comprehensive rearchitecting: In a complete rearchitecting scenario, TCS incorporates the best of services from OCI and builds the environment from scratch so that it meets business needs and is flexible and scalable for future requirements.

Find your faster, clearer path to the cloud with TCS and Oracle

Choosing the optimal paths to the cloud can be challenging, yet it's essential for companies that want to maximize the benefits of a cloud migration. The partnership between TCS and Oracle provides companies with AI-powered accelerators and tools, as well as deep industry expertise, to help them find and implement the best migration pathway for their organization's future success.

With an end-to-end offering that encompasses tailored advisory services, migration support, and ongoing management, TCS helps businesses overcome the obstacles commonly faced with cloud migrations. This collaborative approach helps allow organizations to embark on their cloud journey, transform their operations and realize the full potential of cloud technology. With TCS and Oracle, businesses can navigate the cloud migration landscape efficiently and effectively, driving innovation and growth and realizing the considerable promises of the cloud.

Awards and accolades