

Kyndryl Application Modernization Services

Transform your application
landscape to deliver greater
business value and elevate
customer experience

kyndryl.



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Why modernize applications

Enterprises today need applications with advanced capabilities including AI to support evolving business processes and customer expectations. They also need to optimize the value of cloud and achieve business agility and, therefore, need to modernize legacy applications.

At the same time, the applications landscape is becoming increasingly heterogeneous and complex, with enterprises deploying a wide range of applications and devices to support line-of-business and customer needs.

Successful planning and execution of application modernization in such complex environments while managing risks require specialized skills, methodologies, and tools.

With modernized applications, enterprises can:

- Drive improved customer experiences
- Develop products and go to market faster
- Enhance security and compliance
- Adopt and integrate new technology more easily



How Kyndryl can help

Modernizing mission-critical applications to drive differentiation

Kyndryl can help you drive business agility by modernizing and migrating your complex, mission critical applications. By understanding your IT environment comprising ERP and non-ERP applications, its deep dependencies, and seamlessly integrating new technologies, we drive application transformation in a secure and scalable manner.

We provide the expertise, consulting approaches, and fit-for-purpose tools infused with AI and automation to deliver the transformation aligned to your functionality, security, and performance goals.

Kyndryl Application Modernization Services can help you drive application transformation across different use cases.

Application Architecture Assessment

Your challenges and needs

- Modernize current legacy environment of core applications and systems
- Address complex application dependencies, poor data quality, and lengthy development cycles

Kyndryl capabilities

- Create strategic modernization roadmap and proof of concept (POC)
- Deliver feasibility analysis of containerization and of refactoring legacy systems and databases
- Design new systems architecture to align with enterprise architecture, reduce dependencies, and improve data quality



Application and Infrastructure Discovery and Assessment

Your challenges and needs

- Manage legacy hardware, operating systems and applications, some of which are nearing end of life
- Tackle challenges around server discovery, finding affinity groups, and application assessment

Kyndryl capabilities

- Enable server discovery at the infrastructure level using Analytics for Logical Dependency Mapping (ALDM)
- Provide application and infrastructure assessment using CAST Highlight
- Deliver planning and technical assessment

Platform Migration and Modernization to Containers

Your challenges and needs

- Reduce data center footprint by migrating to public cloud
- Adopt modern container platform
- Set up new continuous integration and continuous delivery (CI/CD) tools and build application pipeline

Kyndryl capabilities

- Leverage native scripts to discover containers deployed in source environment
- Use Kyndryl Automated Application Quality (AAQ) to determine app service mesh, dependencies, and affinity information
- Migrate container images using Velero or Restic
- Migrate image registries and CI/CD pipeline jobs
- Integrate into DevOps tool chain to ensure a working development environment

Mainframe Application Migration and Modernization

Your challenges and needs

- Transition away from the mainframe to avoid additional costs
- Simplify and standardize middleware environment
- Control software licensing costs
- Minimize disruption during project implementation

Kyndryl capabilities

- Migrate critical mainframe applications to the cloud, making apps more digital through APIs and microservices
- Embrace AIOps self-healing model to reduce the risk of downtime and automate fixes
- Improve ability of other apps to call on data and capabilities within the mainframe environment



Distributed Application Migration and Modernization

Your challenges and needs

- Refresh data center hosted infrastructure
- Modernize diverse applications, including SAP, non-SAP, custom, and commercial off-the-shelf (COTS)
- Improve application and infrastructure security
- Migrate all workloads to public cloud

Kyndryl capabilities

- Build a strategy in collaboration with you
- Modernize and migrate multiple workloads, including SAP and non-SAP environments, bespoke apps and COTS apps
- Execute database transformation

SAP ERP Solution Migration and Modernization

Your challenges and needs

- Adopt cloud for SAP workloads
- Migrate SAP workloads
- Minimize business downtime during migration

Kyndryl capabilities

- Migrate SAP and non-SAP workloads to hyperscaler cloud with minimal to zero business disruption
- Export data using SAP Software Provisioning Manager and import to SAP environment on hyperscaler cloud
- Back up databases at source and restore them in target hyperscaler system
- Enable SAP HANA Server Replication (HSR) for SAP systems with HANA-to-HANA database replication
- Leverage automation capabilities inherent in hyperscaler cloud to migrate SAP and non-SAP workloads

Oracle ERP Solution Migration and Modernization

Your challenges and needs

- Adopt cloud for Oracle workloads
- Migrate Oracle workloads
- Minimize business downtime during migration

Kyndryl capabilities

- Migrate critical mainframe applications to the cloud, making apps more digital through APIs and microservices
- Embrace AIOps self-healing model to reduce the risk of downtime and automate fixes
- Improve ability of other apps to call on data and capabilities within the mainframe environment

App Modernization (Re-platform, Refactor)

Your challenges and needs

- Create more-efficient and scalable app environment
- Migrate apps from on-premises infrastructure, private cloud or public cloud to another platform
- Improve app performance, scalability, availability, security and compatibility
- Preserve app functionality and logic

Kyndryl capabilities

- Assess apps to determine compatibility and recommend the best approach to achieve customer goals
- Use CAST Highlight to assess and analyze customer's app portfolio
- Re-platform by deploying applications to hyperscaler platform
- Refactor by upgrading applications to supported versions and deploying to hyperscaler platform

Application Modernization (Re-architect, Rebuild)

Your challenges and needs

- Deliver faster response to business demands and more personalized customer experiences
- Address inefficient processes, siloed databases and networks, and system bottlenecks to accelerate service delivery
- Ensure operational security, visibility and compliance
- Remove technical debt to enable faster digital transformation

Kyndryl capabilities

- Re-architect front- and back-end processes, plus apps and databases, using cloud-native architectures
- Rebuild applications from the ground up, aligning them to re-engineered processes
- Modernize monolithic apps by moving to a microservices architecture
- Migrate and cleanse data
- Deploy new apps, capabilities and services on hyperscaler cloud

Oracle Database Migration and Modernization

Your challenges and needs

- Manage a corporate Oracle infrastructure with hundreds of multi-scheme (multi-app) Oracle databases
- Migrate Oracle databases to modernize on cloud-native technologies and take advantage of managed services and databases in the cloud

Kyndryl capabilities

- Deliver end-to-end services including discovery, planning and execution of database modernization and migration
- Rationalize highly transactional Oracle Databases and migrate to PostgreSQL

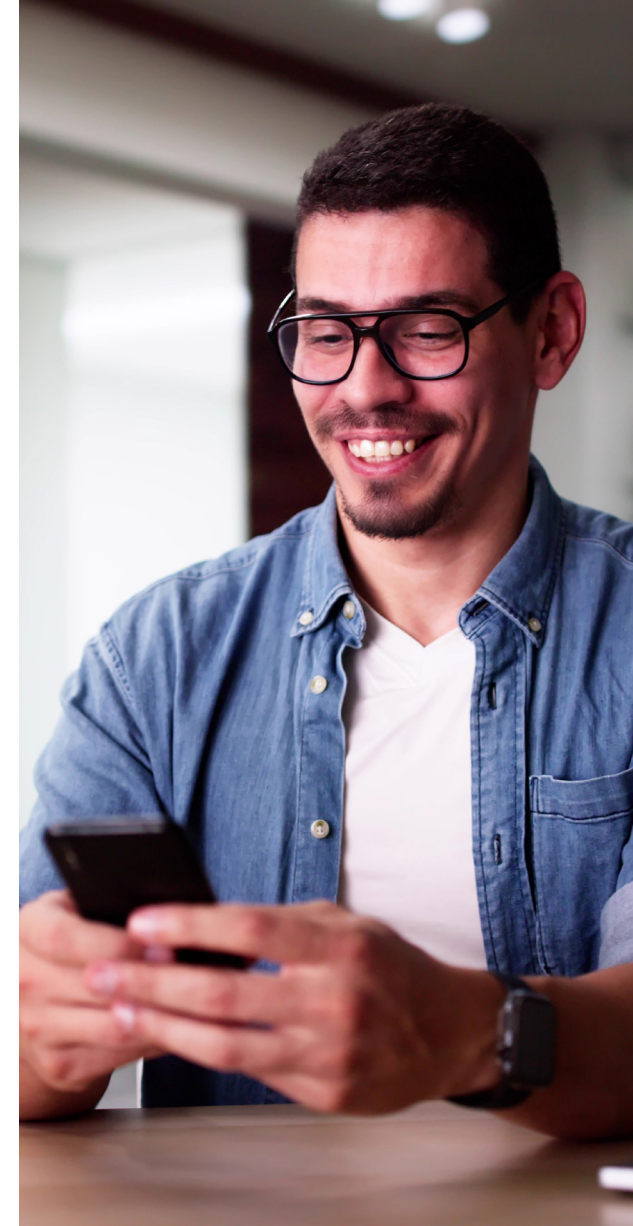
App Observability Design and Implementation

Your challenges and needs

- Ensure business applications are secure, resilient, compliant and available
- Standardize review and assessment process for infrastructure and apps

Kyndryl capabilities

- Deliver actionable insights into app and infrastructure performance to reduce bottlenecks and improve end-user experience
- Provide scalable and highly available application observability solution
- Enable single-pane-of-glass view for infrastructure and app landscape
- Integrate with ITSM, ServiceNow CMDB and other monitoring tools
- Provide full coverage of apps, middleware, database, and infrastructure metrics and logs



Why Kyndryl

Kyndryl has proven expertise in successfully modernizing and managing applications for large enterprises with complex IT environments. We have a comprehensive understanding of legacy systems and how to seamlessly integrate them with new technologies to drive business value. Our consultants and engineers combine deep technical knowledge with extensive business and industry acumen, allowing you to transform fast with minimal disruption.

We are ready to modernize your heterogeneous applications landscape, drawing on decades of experience in managing mission-critical ERP systems, as well as their dependencies on infrastructure and data layers.

We have the capability to infuse AI into applications at any stage of their lifecycle, supporting adaptive user experiences and dynamic data analysis. We use fit-for-purpose reference architectures, AI-powered accelerators and automation to increase application responsiveness and modularity while reducing risks.



Success stories

Dilip Buildcon (Use case: Re-platform)

Business need

Construction giant Dilip Buildcon sought greater economies of scale by replacing laborious manual workflows with automation on SAP S/4HANA.

Kyndryl solution

- Migrated entire SAP landscape to Amazon Web Services (AWS)
- Deployed a customized SAP S/4HANA app suite across 65 locations
- Increased accuracy and reliability of infrastructure provisioning

Benefits

- **USD 7 million** saved in annual operating costs
- **5% reduction** in working capital requirements
- **2x increase** in number of concurrent building projects
- **Zero incidents** of any severity level in first 12 months

[Read the full case study here.](#) →



Grupo Romero (Use case: Re-architect)

Business need

Grupo Romero operates more than 230 different businesses. Its group center of excellence had inherited a diverse IT infrastructure from numerous acquisitions and needed to rationalize a mountain of data, applications and infrastructure.

Kyndryl solution

- Designed a new IT operating and governance model with AWS
- Migrated ~90% of on-prem systems, including 600 physical servers, to AWS
- Facilitated de-centralization by re-architecting the group's single SAP ERP instance into three separate instances

Benefits

- **23% lower** infrastructure costs and increased business agility
- **3,000+** software vulnerabilities uncovered and resolved
- Increased flexibility to better compete in diverse industries

[Read the full case study here.](#) →



Arizona Motor Vehicle Division (Use case: Re-architect | Re-build)

Business need

The Arizona Motor Vehicle Division (AZ MVD) wanted faster, friendlier experiences for the state's citizens. Multiple processes, siloed databases and inefficient procedures stood in the way of this ambition.

Kyndryl solution

- Re-architected processes, applications and databases using cloud-native frameworks
- Re-built applications from the ground up, aligned to re-engineered processes
- Migrated data and performed significant data cleansing
- Implemented a new payments app and self-service kiosk apps on AWS

Benefits

- **60+ services** online, supporting new self-service and assisted self-service transactions
- **2 seconds** to process payments over secure, high-speed internet line
- Supports customer-centric experiences, in person and online

[Read the full case study here.](#) →



Global communications provider (Use case: Refactor | Rehost)

Business need

This global communications provider wanted to modernize mainframe applications and move selected ones to the public cloud to optimize infrastructure costs and improve access to data-driven insight.

Kyndryl solution

- Drew on proven hyperscaler capabilities and extensive partner ecosystem to refactor and rehost multiple mainframe applications
- Added API and microservices capabilities to applications migrated to the cloud
- Brought other applications into company's service management platform and AIOps self-healing model.

Benefits

- **70% lower** mainframe operating costs and energy consumption
- **GBP 17 million** in annual cost savings by 2026
- Greater value and insights from mainframe data through integration with wider set of systems for analytics



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Industry recognition

Leader

- ISG Provider Lens for Rise With SAP Implementation Partners North America and US

[Read the story here.](#) →

Major Contender

- Everest PEAK for Application Transformation, North America and Europe

[Read the story here.](#) →



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Learn more

To learn more about how Kyndryl can help transform your application landscape, visit our [Application Services webpage](#). If you'd like to talk one-on-one with an application services expert, [contact us](#).





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