

## Mainframe Integration with Amazon Web Services

Unlock the potential of mainframe applications and data by placing the right workload on the right platform

### Highlights:

- The power of applications and data previously 'locked' on the mainframe are unleashed with access to the AWS cloud
- DevSecOps is incorporated into a fully integrated, single hybrid estate
- New management and end-to-end visibility across the full IT estate

One aspect of digital transformation is to integrate mainframe applications with the AWS public cloud. But the following challenges can inhibit innovation, create inefficiencies, and increase cost:

- Older programming languages
- Few technical staff with both mainframe and cloud skills
- Complex interdependent workloads, constrained visibility and analytics across Systems of Engagement, Integration, and Record
- Network configuration complexity and unacceptable latency
- Different build, deployment, management, and automation processes for mainframe and cloud



Kyndryl Mainframe Integration with Amazon Web Services (AWS) addresses the full spectrum of network connectivity, applications, DevSecOps integration, data and management integration. Our services help to deliver an agile, hybrid operating environment. We offer an industry-leading AIOps-based solution to manage the entire stack, including application management with Kyndryl Bridge. Kyndryl management capabilities like Kyndryl Bridge allow us to manage across the entire IT estate, from IBM Z and IBM i to AWS cloud-based services.

When it comes to modernizing applications and digital transformation, one size does not fit all. Kyndryl works with our clients to determine the right platform for the right workload, where what's "right" is based on application, data, and business requirements. This approach includes the flexibility to Modernize-On platform, Integrate-With public cloud, or Move-Off platform – whichever makes the most sense for your workloads.

Partnering with AWS, we assess your requirements for integrating or moving mainframe workloads to AWS. We perform a mainframe application portfolio assessment to recommend the right platform for each application workload. Then we help you create a strategy, design, architecture, and roadmap for transformation. This roadmap can help you pursue modernization, integration or migration, future-state operating model, and management. This process includes any required mainframe application and data modernization. Plus, we provide project management services and help manage the modernized and integrated hybrid environment during transformation and in production.

## Integrating mainframe workloads with the AWS cloud

Our mainframe integration capabilities with AWS address the full spectrum of network connectivity, application and DevSecOps integration, data integration, and end-to-end management and visibility. Our services help deliver an agile, hybrid operating environment.

- Network connectivity solutions optimize the exposure of applications and data between environments for interdependent workloads.
- Application integration leverages both the AWS API Gateway and Application Development and Operations (DevSecOps) stack, as well as commercial and open-source tools. This results in a robust, integrated application infrastructure and DevSecOps lifecycle.
- Data integration takes a "data-first" approach so that data may be replicated from the mainframe to the cloud. This approach enables both new channels and new functions.
- We provide hybrid infrastructure, data, and application management across the mainframe and cloud environments with an end-to-end IT ecosystem observability and automation with Kyndryl Bridge.

## Achieving the business value of Mainframe Integrate-With AWS

Transforming your mainframe environment by implementing a robust hybrid cloud strategy defined by Kyndryl Mainframe Integrate-With AWS can lead to many benefits, including the following:

- **Reduce network configuration complexity, cost, and latency** by selecting an appropriate solution to integrate your mainframe with AWS public cloud.
- **Simplify application management and reduce costs** by extending applications to AWS using API Gateway as well as creating a single, holistic DevSecOps environment with a unified monitoring, management, and automation toolset across the hybrid, integrated infrastructure and applications estate.
- **Open new business intelligence, functions, and channels** by replicating data to AWS cloud for analysis, insights and actions.
- **Keep critical business processes running at committed service-level agreements (SLAs)** using actionable insights, and automation from Kyndryl Bridge.



## Conclusion:

Kyndryl's team of experts are fluent in both mainframes and AWS. We partner with our clients as they integrate their mainframe data and applications with the cloud. These integration services are crucial for the preservation of interdependent workloads and for delivering new value. When it makes sense, we can also help migrate mainframe workloads completely to AWS, potentially leading to substantial savings in energy consumption and operational costs.

## Why Kyndryl?

Kyndryl has deep expertise in designing, running, and managing the most modern, efficient, and reliable technology infrastructure that the world depends on every day. We are deeply committed to advancing the critical infrastructure that powers human progress. We're building on our foundation of excellence by creating systems in new ways: bringing in the right partners, investing in our business, and working side by side with our customers to unlock potential.

## For more information:

To learn more about how Kyndryl Mainframe Integration with Amazon Web Services can help you modernize your infrastructure and applications, [please contact a Kyndryl representative](#) and visit our AWS alliances page: [kyndryl.com/us/en/about-us/alliances/aws](https://kyndryl.com/us/en/about-us/alliances/aws).



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